

#### CHILDREN'S EDUCATION SOCIETY (Regd.) Administrative Office: 1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078 ①: 080-61754501 – 502 Fax: 080-2654 8658

## THE OXFORD COLLEGE OF ENGINEERING

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# 7.3.1 Distinctiveness of the Institution

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The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 0<del>0</del>8



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## ACTION PLAN of "THE OXFORD - KSCST - VTPC CENTRE FOR PATENT AND TECHNOLOGY TRANSFER" for 2023-24.

THE OXFORD - KSCST - VTPC CENTRE FOR PATENT AND TECHNOLOGY TRANSFER" playing a crucial role in fostering innovation, protecting intellectual assets, and creating a culture of research and development in the Institute. To augment this culture, Patent cell has planned to conduct awareness program, hands-on training and workshops on the following domains for the year 2023-24.

## 1. Promoting Innovation and Creativity

- Encourages faculty and students to engage in innovative research by protecting their ideas and inventions.
- Provides support for developing patentable solutions that address real-world challenges.
- Organizes workshops, seminars, and training programs on intellectual property (IP) to foster a culture of creativity.

## 2. Facilitating Patent Filing and Protection

- Assists researchers, faculty, and students in filing patents, copyrights, and trademarks.
- Guides in preparing and submitting patent applications to national and international authorities.
- Ensures legal protection for inventions, safeguarding them against infringement.

## 3. Creating Awareness About Intellectual Property

- Conducts awareness programs on the importance of IP in academia and industry.
- Educates students and faculty about the economic and social impact of protecting intellectual assets.
- Builds understanding of IPR laws, policies, and procedures.

## 4. Supporting Technology Transfer and Commercialization

- Facilitates the licensing of patents to industries, enabling revenue generation for institutions.
- Bridges the gap between academia and industry by promoting collaboration for technology transfer.
- Helps institutions monetize research outcomes through intellectual property.

## 5. Enhancing Research Quality

• Motivates researchers to conduct high-quality, original research that can lead to IP generation.



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- Helps in publishing research without compromising the novelty of potential patents.
- Establishes a benchmark for research excellence through innovative outputs.

#### 6. Contributing to Institutional Rankings

- A robust IPR portfolio enhances an institution's reputation and rankings in national and global assessments.
- Contributes to metrics like patents filed, technologies licensed, and IP-related publications, which are often key evaluation criteria.

#### 7. Developing Entrepreneurial Ecosystems

- Encourages students and faculty to establish startups based on their patented innovations.
- Collaborates with innovation hubs, incubators, and accelerators for entrepreneurial support.
- Supports initiatives under government schemes like **Startup India** and **Make in India**.

#### 8. Supporting Industry Collaboration

- Facilitates collaboration between academic institutions and industries for joint R&D projects.
- Enables industries to access cutting-edge innovations developed within the institution.
- Provides consultancy on IP-related matters to industries.

#### 9. Drafting IP Policies for the Institution

- Develops and enforces institutional IP policies to govern ownership, management, and commercialization of IP.
- Ensures fair distribution of benefits between inventors, departments, and institutions.
- Promotes ethical practices in managing intellectual property.

#### **10. Encouraging Interdisciplinary Research**

- Supports interdisciplinary projects by protecting innovations from diverse fields.
- Provides a platform for researchers from different disciplines to collaborate on IP-focused initiatives.

#### Patent cell coordinator

#### Principal



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## CLOSURE REPORT of "THE OXFORD - KSCST - VTPC CENTRE FOR PATENT AND TECHNOLOGY TRANSFER" for the year 2023-24.

The "THE OXFORD - KSCST - VTPC CENTRE FOR PATENT AND TECHNOLOGY TRANSFER" has successfully concluded its activities aimed at fostering innovation, protecting intellectual property, and building awareness about patents and IPR. Over the program duration from June 2023 to July 2024, the Patent Cell organized **25** programs across the departments covering workshops and training sessions on topics such as patent filing processes, IP laws, and prior art searches, entrepreneur opportunities engaging participants, including faculty, students, and researchers. The Cell facilitated the filing of **27** patents, some of which are now published or granted, showcasing the institution's commitment to research excellence.

The Cell provided critical support in patent drafting, conducting prior art searches, and collaborating with patent attorneys. Additionally, it played a significant role in developing an institutional IP policy, promoting industry collaborations, and supporting technology transfer initiatives.

Despite resource and awareness challenges, the Patent Cell addressed these issues through strategic planning and effective stakeholder engagement. Feedback from participants highlighted the program's value, with many appreciating the practical training sessions and personalized guidance. Financially, the program utilized [allocated budget] with minimal variance, ensuring cost-effective execution.

In conclusion, the Patent Cell has made significant contributions to promoting an IP culture within the institution and has laid the groundwork for sustained innovation. Recommendations for future efforts include expanding capacity-building programs, enhancing funding for patent filing, and strengthening industry-academia collaborations. Supporting documents, including participant lists, feedback, and patent details, is attached as annexures.

IPR cell incharge

Principal



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# 3.2.2 . Number of Workshop/Seminar conducted on IPR/ Innovations/Entreprunership : 2023 -2024

S.N	Particulars
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1	Expert Talk on "Bio Ethics, Bio safety and IPR"
2	EXPERT TALK ON "ENTREPRENEURSHIP OPPORTUNITIES & HIGHER EDUCATION IN BIOTECHNOLOGY"
3	Expert talk on "entrepreneurship opportunities in IPR
4	Expert talk on by successful entrepreneur/start-up founder startup journey of synbioworks
5	Expert talk on "innovative ideas for prototype conversion from trl 4 – trl 9"
6	Workshop on "Intellectual Property Rights (IPRs) and IP Management for Start Up"
7	Panel Discussion on Entrepreneurship Opportunities for Agri Products
8	Expert Talk on WORLD INTELLECTUAL PROPERTY DAY
9	Expert Talk on "Entrepreneurship Opportunities in Sericulture byproduct utilization
10	Trending Software Robot in Structural Engineering Field and its prospects in Future
11	"Entrepreneurship and Start-up opportunities in the field of Sensor Technology"- Industrial Visit
12	Entrepreneurship and Start-up opportunities in the field of AIML -Industrial Visit
13	"Entrepreneurship opportunities in the field of industry 4.0"
14	Workshop on "Entrepreneurship opportunities through Wire Shark and Network Simulator -2"
15	Entrepreneurship & Career Opportunities for Civil Engineers in IT Field
16	"Entrepreneurship and Career Opportunities in Construction Management"

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2023 - 2024

Reports

S.NO	Particulars
17	"Intellectual Property Rights (IPR) & Start-ups Echo System"
18	"Intellectual Property Rights (IPR) & Start-ups Echo System"
19	My Story - Motivational Session by Successful
	Entrepreneur/Start-up founder
20	Workshop on "Intellectual Property Rights (IPRs) and IP Management for Start Op
21	Expert Talk on Entrepreneurship and IPR
22	Expert Talk on Bio Innovation and Start up
23	Entrepreneurship and Career Opportunities in Construction Management
24	WORKSHOP ON Prototype /Process Design and Development"
2.5	WORKSHOP ON "CAREER OPPORTUNITIES THROUGH C# AND DESIGN
	PRINCIPLES"

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	PRINCIPLES"





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#### EXPERT TALK ON "ENTREPRENEURSHIP OPPORTUNITIES & HIGHER EDUCATION IN BIOTECHNOLOGY"



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with Department of Biotechnology, TOCE organized Expert the Talk on a "ENTREPRENEURSHIP **OPPORTUITIES** & HIGHER **EDUCATION** IN BIOTECHNOLOGY" on 13th July 2024 from 10.00 A.M in the Department of Biotechnology. The Resource person was Ms. Inchara V, Scientist (Assay Development), Achira Labs Pvt Ltd. Ms. Arpita K, DAAD Doctoral fellow at Institute for stroke and dementia. LMU, Germany

#### **OBJECTIVES:**

- To encourage participants to develop an action plan for their entrepreneurial journey in biotechnology.
- To provide a well-rounded understanding of the intersection between entrepreneurship and higher education in biotechnology.
- To highlight the potential entrepreneurship opportunities within the biotechnology sector.
- To emphasize the need for an interdisciplinary approach combining biotechnology with other fields like business, engineering, and computer science.

The Department of Biotechnology, TOCE organized a Expert Talk on "Entrepreneurship Opportuities & Higher Education in Biotechnology" on 13<sup>th</sup> July 2024 from 10.00 A.M in the Department of Biotechnology.

This session provided an overview of how biotechnology, a field ripe with innovation, offers a wealth of entrepreneurship opportunities spanning pharmaceutical development, medical devices, agricultural biotech, and industrial applications. Entrepreneurs can drive groundbreaking advancements in drug discovery, personalized medicine, and sustainable farming, leveraging cutting-edge technologies to address global challenges. Higher education in biotechnology is crucial, as it equips aspiring entrepreneurs and professionals with the essential knowledge and skills needed to lead and innovate within this dynamic field.

Speakers discussed how higher education in biotechnology provides the essential foundation for these innovations, equipping students with critical knowledge in molecular biology, bioinformatics, and bioprocess engineering. By fostering a deep understanding of both the scientific and business aspects, higher education empowers future leaders to innovate and transform the biotechnology landscape, creating solutions that enhance health, agriculture, and the environment.

#### **OUTCOME:**

• The outcomes of entrepreneurship opportunities and higher education in biotechnology are intertwined with innovation. By fostering a culture of creativity and collaboration, higher education institutions enable the next generation of entrepreneurs to develop innovative solutions that address critical global challenges.

- As the biotech industry continues to grow, the synergy between entrepreneurship and education will remain vital for driving progress and innovation in this transformative field.
- Higher education institutions are instrumental in nurturing innovative biotech startups. By offering students a strong foundation in scientific principles and business skills, they prepare future entrepreneurs to create groundbreaking biotechnological solutions that tackle global challenges like health crises and food security.



**Glimpses of Workshop** 

Recording Link: <u>https://youtu.be/ZX7ER49qjWw</u>

## Facebook:

https://www.facebook.com/photo/?fbid=505420472010001&set=a.177418398143545&\_cft\_[ 0]=AZV5Ta9LrF44-9w8AJ56uKWdSRJwRwN3M19exfae6xiMoLRC-EWBxUZwLdpHF9\_AQwYG7sB3mB57AbHmHMwxfuuLgBwyYIFS3O829PO2VDJDEkUk17okzjg\_wRwjvb7zu9ayWafyYejq\_TYg0OzPCYsI6ZerZRGPCuXD\_9Ui9\_5Q&\_tn\_=EH-R



## EXPERT TALK ON "BIOETHICS, BIOSAFETY AND IPR"



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with the Department of Biotechnology, TOCE organized an expert talk on "Bioethics, biosafety, and intellectual property rights (IPR)" 25<sup>th</sup> November 2023 from 10.30 A. M to 11.30 A.M in the department of Biotechnology.

The resource person was Dr. Ramgopal Rao S, senior academic manager at Biocon academy, Bangalore. He has 24 Years experience into Biotechnology as Teacher, Researcher, Trainer & Career Mentor having strong liaising relationship with Biotech/Biopharma/Pharma Industry, Universities & HEI's. He managed advanced Skill Development Training Programs - "BITS – Biocon Certificate Program in Applied Industrial Microbiology", "Biocon Ramaiah Certificate Program in Quality Control Analytical" & "Biocon JSS AHER Certificate Program in Global Regulatory Affairs" providing Industrial Training platform & Job opportunities Liaising with Biotech/Bio Pharma/Bio-services/CRO/CRAMs to bring employment opportunities to trained talent of Biocon Academy. He also manages Biocon Academy "Faculty Development Program" to train Life Sciences Teaching Faculty in Biocon Academy in association with Biocon & Biocon Biologics. He established Biotechnology Lab facilities, IBSC & worked as Member Secretary. He has published Research Papers in peer reviewed journals, delivered invited talks & presented conference papers. He had guided 4 PhD students in Biotechnology.

#### **OBJECTIVES:**

- To increase awareness and understanding of bioethics, biosafety, and intellectual property rights among the students
- To emphasize the importance of responsible conduct in bio-research and innovation, taking into account the potential societal, environmental, and ethical implications.
- To delve into the intellectual property rights landscape in biotechnology and life sciences, addressing issues such as patenting genes, genetic sequences, and the ethical implications of patenting living organisms.
- To generate discussion and propose policy recommendations that promote ethical research practices, ensure biosafety, and strike a balance between protecting intellectual property and facilitating scientific progress for the benefit of society.

The Department of Biotechnology, TOCE organized an expert talk on "bioethics, biosafety, and intellectual property rights (IPR)" 25<sup>th</sup> November 2023 from 10.30 A. M to 11.30 A.M in the department of Biotechnology. The distinguished speaker for the event was Dr. Ramgopal Rao S, senior academic manager at Biocon academy, Bangalore. Dr. Rao commenced the session by elucidating the fundamental principles of bioethics, emphasizing the need for ethical considerations in all aspects of life sciences and biotechnology. He underscored the ethical responsibilities that accompany advancements in these fields, urging the audience to prioritize moral and societal implications alongside scientific progress. Biosafety was the subsequent focal point of the discussion. Dr. Rao delved into the critical importance of implementing robust biosafety measures to prevent accidental or intentional release of biohazardous materials. He highlighted international guidelines and standards, emphasizing the collective responsibility of the scientific community in ensuring the safe conduct of experiments and research involving potentially harmful biological agents.



**Glimpses of the Talk** 



Intellectual Property Rights (IPR) took center stage in the latter part of the talk. Dr. Rao expounded on the significance of protecting intellectual creations in the realm of life sciences. He provided insights into the evolving landscape of IPR in biotechnology, discussing patenting strategies, challenges, and the delicate balance between fostering innovation and ensuring equitable access to scientific knowledge. Dr. Rao emphasized the need for a strong ethical foundation in biotechnological advancements, advocating for responsible research practices that consider the broader societal impact. The speaker underscored the imperative of stringent biosafety measures to mitigate risks associated with handling biohazardous materials. Dr. Rao urged adherence to global biosafety standards and emphasized the role of education in fostering a culture of safety. In the context of life sciences, Dr. Rao shed light on the complexities of IPR, highlighting the importance of striking a balance between incentivizing innovation through patents and ensuring access to essential scientific knowledge. Throughout the talk, Dr. Rao emphasized the necessity of global collaboration in addressing bioethical issues, implementing biosafety standards, and navigating the complexities of intellectual property rights.

60 students and 7 faculties participated in the workshop and made the event successful.

#### OUTCOME:

The main agenda of the talk was to make the students understand the ethical considerations, biosafety measures, and IPR issues in the field of biotechnology and life sciences. Students and faculty gained valuable insights into the ethical considerations surrounding biotechnological advancements, the imperative of biosafety measures, and the evolving landscape of intellectual property rights in the life sciences. The talk underscored the interconnectedness of these domains and the need for a holistic approach to navigate the ethical and safety challenges posed by rapid advancements in biotechnology.

Facebook link: https://t.ly/v2eqb

Recording link: <u>https://www.youtube.com/watch?v=4ECS9f6WqtI</u> LinkedIn: <u>https://t.ly/7-7sF</u> Instagram: <u>https://t.ly/-IHS5</u> Youtube: <u>https://www.youtube.com/watch?v=4ECS9f6WqtI</u>

HoD **IIC Convener IIC Coordinator** 

Principal & President IIC

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## DEPARTMENT OF BIOTECHNOLOGY

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INSTITUTION'S INNOVATION COUNCIL

## EXPERT TALK ON "ENTREPRENEURSHIP OPPORTUNITIES IN IPR"



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with the Department of Biotechnology, TOCE organized an Expert Talk on "ENTREPRENEURSHIP OPPORTUNITIES IN IPR" on 28<sup>th</sup> March 2024 from 01.30 P.M in the Department of Biotechnology.

The Resource person was Dr. Mary Mangaiyarkarasi M.S is currently working as IP Officer in Bangalore Bioinnovation Centre. She is a qualified Patent Agent. Her job responsibilities include facilitating IP filings, prior art search & FTO search, consultation on patentability of their inventions and Response to FER and Transfer of Technology to startups/ academic and research institutes. She underwent training in Transfer of Technology under "Technology Transfer and Commercialization Training – 2019" by National Biopharma Mission, BIRAC. She recently

coordinated successfully Elevate Women Acceleration Programme by Govt of Karnataka. She underwent training in IPR through the Women Scientist 'C' programme under WOSC – DST programme, Govt. of India for one year. She also has a short teaching experience at Prof. Dhanapalan College of Women, Kelambakkam, Tamilnadu. She completed her doctorate at Loyola College, Chennai in a collaborative project with Indira Gandhi Center for Atomic Research, Kalpakkam in the field of Environmnetal Microbiology. She holds a Diploma in Patent Law from NALSAR University and is UGC-NET qualified in Environmental Scienes.

#### **OBJECTIVES:**

- To raise awareness about the significance of Intellectual Property (IP) in entrepreneurship, including patents, trademarks, copyrights, and trade secrets.
- To empower entrepreneurs with knowledge about different types of IP protection available to them and how to leverage these rights to safeguard their inventions, brands, and creative works.
- Facilitate networking opportunities for entrepreneurs to connect with IP experts, legal professionals, investors, and fellow entrepreneurs.
- Foster a culture of innovation and entrepreneurship within the community by highlighting the role of IP in incentivizing and rewarding innovation.

Biotechnology, TOCE organized The Department of an Expert Talk on "ENTREPRENEURSHIP OPPORTUNITIES IN IPR" on 28th March 2024 from 01.30 P.M in the Department of Biotechnology. The expert talk illuminated the dynamic intersection between entrepreneurship and Intellectual Property Rights (IPR), showcasing the myriad opportunities that emerge when innovative ideas meet strategic protection. By delving into the landscape of IPR, this session aims to inspire, educate, and equip aspiring entrepreneurs with the tools and insights necessary to navigate the intricate world of intellectual property and leverage it as a catalyst for business success.

The speaker provided concrete instances of entrepreneurs who effectively employed IP strategies to drive their ventures forward, demonstrating how IP protection serves as a compelling asset for enticing investors, forging partnerships, and facilitating the growth of businesses. The speaker elaborated on fostering collaboration and knowledge exchange among entrepreneurs, IP specialists, legal practitioners, and industry stakeholders. The expert

discussion delved into ways to harness the combined strength of the innovation ecosystem to propel favorable advancements and expansion.

46 Students and 4 Faculties participated in the expert talk and made the event successful.

## OUTCOME:

- The talk raised awareness among entrepreneurs about the importance of protecting their intellectual property and leveraging it to create value for their businesses.
- Attendees may have gained insights into different entrepreneurship strategies for managing and protecting their intellectual property, including patents, trademarks, copyrights, and trade secrets.
- The expert speaker shared success stories and examples of how entrepreneurs have effectively used intellectual property to drive innovation, secure funding, and gain a competitive advantage, inspiring attendees to explore similar opportunities.
- The talk has provided a platform for entrepreneurs to network with experts in the field of intellectual property, potentially leading to collaborations, partnerships, or mentorship opportunities.
- The outcome of the expert talk on entrepreneurship opportunities in IPR would ideally empower entrepreneurs with the knowledge and resources they need to protect and leverage their intellectual property assets for business growth and success.



**Glimpses of Expert Talk** 

## Instagram:

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Youtube Link: https://youtu.be/Q0w4ipfFhKA

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## ATTENDANCE SHEET

# Expert Talk on "Entrepreneurship Opportunities in IPR"

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Resource Person: Dr. Mary Mangaiyarkarasi M.S

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**Designation:** IP Consultant, Bangalore Bio Innovation Centre, Bangalore. **Date:** 28/03/2024 **Time:** 01.30 PM

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IIC Coordinator Ur. B. K. MAN JUNA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068. Dengalu.u.

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Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website: http://www.theoxford.edu/engineering/ (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

## EXPERT TALK ON "MY STORY – MOTIVATIONAL SESSION BY SUCCESSFUL ENTREPRENEUR/START-UP FOUNDER"



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with the Department of Biotechnology, ECE and ME, TOCE organized an expert talk on "My Story – Motivational Session By Successful Entrepreneur/Start-Up Founder" by Dr. Nidhin Sreekumar Director and Chief Research Scientist, ACCUBITS INVENT, Life Sciences Park, Trivandrum on 28th/11/2023.

**Dr. Nidhin Sreekumar** is a researcher who believes that nature/biology holds the answers to all the questions and problems. He mentors Accubits Invent as its Director and Chief Research Scientist. He completed his postgraduate studies with MHRD Scholarship (GATE) in Energy Engineering (Chemical Engineering) from the prestigious, National Institute of Technology, Trichy, with a research project in Bioenergy in collaboration with the CSIR-National Institute of Interdisciplinary Science and Technology (NIIST), Trivandrum. After which he joined his Alma-mater, Sree Chitra Thirunal College of Engineering (SCTCE) as a Faculty in Biotechnology. He went on to pursue his doctoral research with MHRD Scholarship at the National Institute of Technology Calicut, in the area of bioenergy production from wastewater in collaboration with the Ex-Chairman of Kerala State Pollution Control Board and CSIR-NIIST. During this time he was also involved with an Agro-based start-up as its Research head, in-charge of design and establishment of the research and production unit. After successfully completing the doctoral research, he went back to SCTCE followed by Kalasalingam University, Tamilnadu as an Associate Professor in the Department of Biotechnology. During this period, he undertook various industrial consultancy works. He has 9+ years of research experience and has many peer-reviewed publications in various areas like bioprocess, non-conventional energy resources, biomedical/healthcare, and environmental engineering.

#### **OBJECTIVES:**

- To inspire the students by sharing the personal journey, challenges faced, and milestones achieved by the successful entrepreneur/start-up founder.
- To Motivate the students to pursue their dreams, overcome obstacles, and embrace a positive mindset in their entrepreneurial endeavors
- To communicate the significance of having a clear vision and mission in entrepreneurship.
- To guide the students on how to develop and refine their own vision for their ventures.
- To share instances of failures and setbacks encountered during the entrepreneurial journey.
- To emphasize the importance of learning from failures, resilience, and using setbacks as stepping stones to success.

The Department of Biotechnology, ECE and ME, TOCE organized an expert talk on "My Story – Motivational Session By Successful Entrepreneur/Start-Up Founder" by Dr. Nidhin Sreekumar Director and Chief Research Scientist, ACCUBITS INVENT, Life Sciences Park, Trivandrum on 28th/11/2023 from 10.30 A. M to 11.30 A.M in the department of Biotechnology. With a keen eye for opportunity and an unwavering commitment to turning ideas into reality, Dr. Nidhin Sreekumar has embarked on a journey that extends beyond conventional boundaries. From the inception of groundbreaking concepts to the strategic orchestration of business endeavours, this entrepreneur and research scientist is not merely a participant in the market but a driving force, shaping the landscape of Biotechnology, Artificial Intelligence, Blockchain, Behavioural science, and Material Sciences. He currently holds the designation of Director and Chief research scientist in ACCUBITS INVENT.

Accubits Invent is a technology company known for its innovative solutions in areas like artificial intelligence, blockchain, decentralized technologies and biotechnology. Accubits Invent stands out for its dedication to research and development, positioning itself as a promising player in Kerala's emerging tech landscape. 'The future is Interdisciplinary' is what they believe in. Research techniques and technology, the bioinformatics teams are able to decipher complex biological information, providing new perspectives and broadening our knowledge of living things.

Their molecular biology team is a leader in innovation, having mastered the process of transforming genomes. They are involved in the field of in vitro plant culture, skillfully fusing conventional wisdom and cutting-edge approaches. They also create and refine hydroponic systems and create culture media for uncommon plant kinds using in vitro culture. In 2019 Dr Nidhin Sreekumar and his team started a new research project 'Votlrac' at Accubitz Invent to delve into this possibility if we are able to understand how plants communicate and what they communicate with each other we could potentially revolutionize the Agriculture and Food Industries to tackle world hunger that was the motivation for the research and the idea was to track the volatile organic compounds released by plants. Volatiles are chemical compounds released by all organisms by tracking and profiling the volatiles the team hoped to gain a profound understanding of how plants communicate with each other. While the voltrac was initially designed to study plant communication the team discovered it could fill a significant void in a completely different field; artificial intelligence.

Voltrac sensor has high sensitivity and selectivity hence this could give machines the ability to smell and build a foundation model for the olfactory senses.

Dr. Nidhin explained his journey from being a biotechnology engineer to director of Accubits Invent and how he is working in the interdisciplinary field of Biotechnology, Energy, chemical engineering and electronics. 65 students and 7 faculties participated in the event and made the event successful.



**Glimpses of the Talk** 

#### OUTCOME:

The motivational session, "My Story," by the successful entrepreneur/start-up founder, achieved profound outcomes, leaving a lasting impact on the audience. Attendees were not only inspired but also motivated to take charge of their entrepreneurial aspirations with renewed vigor. The entrepreneur's candid sharing of personal challenges and triumphs resonated deeply, fostering a sense of connection and relatability among the audience. Many left the session with a newfound belief in their ability to navigate challenges, armed with insights on learning from failures, cultivating an entrepreneurial mindset, and embracing change.

Meeting Link: <u>https://rb.gy/yaw0ir</u> Facebook link: <u>https://t.ly/3e9IM</u> Recording link: <u>https://youtu.be/z-Q3m5J2GwE</u> LinkedIn: <u>https://t.ly/AYhUl</u>

Instagram: <u>https://t.ly/cFnr</u> Youtube: <u>https://youtu.be/z-Q3m5J2GwE</u>

**IIC Convener** IIC

Principal & President IIC

PRINCIPAL The Oxford College of Engineering Bomman shalli, Hosur Road Bengeluru-560 068

# ATTENDANCE SHEET

## Talk on "My Story – Motivational Session by Successful Entrepreneur"

Resource Person: Dr. Nidhin Sreekumar Designation: Director, & Chief Research Scientist, Accubits Invent, Trivandrum Date: 28/11/2023 Time: 10.30 A.M – 12 P.M

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(Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

## EXPERT TALK ON "INNOVATIVE IDEAS FOR PROTOTYPE CONVERSION FROM TRL 4 – TRL 9"

On INNOVATIVE IDEAS FOR PROTOTYPE CONVERSION FROM TRL 4 – TRL 9"       On Support         by       On         by       Dr P. Bindhu Madhavi, Professor & HOD, AIML Dept The Oxford College of Engineering, Bangalore.       On         CHIEF PATRON Dr. S. N. V. L. Narasimha Raju President       PATRON Dr. N. Kannan Precipal and President IIC       CONVENOR Dr. N. Kannan Precipal and President IIC       DCONVENOR Dr. S. K. Manjunatha Professor & Head, Dept of BT       DIC CONVENOR Dr. P. Bindhu Madhavi Professor & HOD Dept of AIML       DIC COORDINATOR Prof. P. Tamizharasi Assistant Professor Dept of BT	Contraction of the second seco	FORD COLLEGE Hour Road, Bommanahalli, CTE, New Delhi, Affiliated to VTU, Belga DEPARTMENT OF IN ASSOCIATI ISTITUTION'S INNOVA ORGANI EXPERT	OF ENGINE Bengaluru-560 068 um & Accredited by NAAC (A Gr BIOTECHNOLOG TION WITH TION COUNCIL (IIC ZING TALK	RHUNG rade) & NBA	INSTITUTION'S COUNCIL (Uniesty of HED Instation)
* INNOVATIVE IDEAS FOR PROTOTYPE CONVERSION FROM TRL 4 – TRL 9"       On 31 <sup>ST</sup> MAY 2024; 2:00 PM Venue: Digital Classroom BT Dept.         by       Dr P. Bindhu Madhavi, Professor & HOD, AIML Dept The Oxford College of Engineering, Bangalore. <u>BT Dept.</u> CHIEF PATRON Dr. S. N. V. L. Narasimha Raju President <u>PATRON</u> Dr. N. Kannan Precipal and President IIC <u>CONVENOR</u> Dr. S. K. Manjunatha Professor & Head, Dept of BT <u>ILC CONVENOR</u> Dr. Bindhu Madhavi Professor & HOD Dept of AIML <u>ILC COORDINATOR</u> Prof. P. Tamizharasi Assistant Professor Dept of BT		On			
FROM TRL 4 – TRL 9"       On         by       31 <sup>ST</sup> MAY 2024; 2:00 PM         Venue: Digital Classroom       BT Dept.         Dr P. Bindhu Madhavi, Professor & HOD, AIML Dept       BT Dept.         The Oxford College of Engineering, Bangalore.       BT Dept.         Dr. S. N. V. L. Narasimha Raju       PATRON       CONVENOR       IC CONVENOR       IC COORDINATOR         President       Dr. N. Kannan       Dr. S. K. Manjunatha       Dr. P. Bindhu Madhavi       Prof. P. Tamizharasi         The Oxford Educational Institutions       The Oxford College of Engineering       Dept of BT       Dept of AIML       Dept of BT	"INNOV	ATIVE IDEAS FOR	RPROTOTYPE	CONVERSION	/
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CHIEF PATRONPATRONCONVENORIIC CONVENORIIC COORDINATORDr. S. N. V. L. Narasimha Raju PresidentDr. N. KannanDr. B.K. ManjunathaDr P. Bindhu MadhaviProf. P. TamizharasiPresidentPresident IICProfessor & Head,Professor & HoDAssistant ProfessorThe Oxford Educational InstitutionsThe Oxford College of EngineeringDept of BTDept of AIMLDept of BT					
President       President IIC       Professor & Head,       Professor & HOD       Assistant Professor         The Oxford Educational Institutions	CHIEF PAIRON Dr S N V I Narasimha Rain	Dr N Kannan	Dr BK Maniunatha	Dr P. Bindhu Madhavi	<u>IIC COORDINATOR</u> Prof. P. Tamizharosi
The Oxford Educational Institutions The Oxford College of Engineering Dept of BT Dept of AIML Dept of BT	President	Principal and President IIC	Professor & Head	Professor & HOD	Assistant Professor
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The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with the Department of Biotechnology, TOCE organized an Expert Talk on "INNOVATIVE IDEAS FOR PROTOTYPE CONVERSION FROM TRL 4 – TRL 9" on 31<sup>ST</sup> May 2024 from 02.00 P.M in the Department of Biotechnology.

The Resource person was Dr. P. Bindhu Madhavi is currently working as Professor and Head of the Department, Artificial Intelligence and Machine Learning, The Oxford College of Engineering, Bangalore.

## **OBJECTIVES:**

 To provide insights and practical strategies for transitioning innovative prototypes from Technology Readiness Level (TRL) 4 (validation in a laboratory environment) to TRL 9 (successful deployment in an operational environment).

- To discuss best practices, challenges, and solutions to advance technology through the stages of development, testing, and commercialization.
- To equip participants with the knowledge and tools needed to navigate the complex journey from laboratory validation to market deployment, ultimately driving innovation and technological advancement.
- To enhance understanding of the process and challenges of advancing prototypes through TRLs and practical strategies and innovative approaches for successful prototype conversion.

The Department of Biotechnology, TOCE organized an Expert Talk on "INNOVATIVE IDEAS FOR PROTOTYPE CONVERSION FROM TRL 4 – TRL 9" on 31<sup>st</sup> May 2024 from 02.00P.M in the Department of Biotechnology. The expert talk illuminated Technology Readiness Levels (TRLs) are a method of estimating the maturity of technologies during the acquisition phase of a program. These are measured on a scale from 1 to 9, with TRL 1 being the lowest and TRL 9 the highest. The transition from TRL 4 (technology validated in a lab) to TRL 9 (actual system proven in operational environment) involves several stages and challenges.

Dr.P.Bindhu Madhavi provided concrete instances of Transitioning from TRL 4 to TRL 9 require a blend of innovative approaches, strategic planning, and collaborative efforts. By adopting agile development, leveraging advanced technologies like digital twins and ensuring early and continuous user involvement, innovators can successfully navigate the complexities of prototype conversion and bring groundbreaking technologies to market. The Speaker successfully moving a prototype from TRL 4 to TRL 9 requires a combination of innovative strategies, collaborative efforts, and strategic planning. By embracing agile development, leveraging digital tools and advanced manufacturing, involving users early, and securing the necessary funding and regulatory approvals, innovators can effectively navigate the complexities of prototype conversion and bring groundbreaking technologies to market.

The session wrapped up with a Q&A segment, allowing participants to pose their questions. 43 Students and 4 Faculties participated in the expert talk and made the event successful.

## **OUTCOME:**

• Attendees gained a clear understanding of the steps and strategies required to advance their prototypes from TRL 4 to TRL 9.

- The expert talk would serve as a comprehensive guide for innovators, researchers, and entrepreneurs looking to navigate the complex journey of transforming a lab-validated prototype into a fully operational system ready for market deployment.
- The expert speaker shared the emphasis on innovative strategies, practical examples, and actionable insights would equip attendees with the knowledge and tools necessary to successfully progress through the TRLs.
- Attendees gained exposure to tools and methods that can streamline the prototype development process.



**Glimpses of Expert Talk** 

Recording Link: https://youtu.be/FiCFaTyI-Oc

Facebook: https://www.facebook.com/share/p/Utk21QAzUV591Ss2/?mibextid=xfxF2i

#### ATTENDANCE SHEET

## Expert Talk on "Innovative Ideas for Prototype Conversion from TRL 4 – TRL 9"

Resource Person: Dr. P. Bindhu Madhavi

Designation: Professor & HOD, AIML Dept, The Oxford College of Engineering, Bangalore, Date: 31/05 2024

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**IIC Coordinator** 

Ur. B.K MANJUNATHA Professor & Head Department of Biotechnology (he Oxford College of Engineering Bengaluru-560 068.

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StartUp Journey of Synbioworks in "Accelerating Vaccine Development through Synthetic Biology Strategies"

INSTITUTION'S INNOVATION

COUNCIL



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with the Department of Biotechnology, TOCE organized an Expert Talk on StartUp Journey of Synbioworks in "Accelerating Vaccine Development through Synthetic Biology Strategies" on 14<sup>th</sup> February 2024 from 11.00 A.M in the Department of Biotechnology.
The resource person, Dr Ajay is the CEO and founder of Synbioworks. This company is based on Kodagu, they specialize in research and manufacturing of quality and relatively priced supplements. Dr Ajay, is an experienced researcher with a demonstrated history of working in the research industry, he is skilled in microbiology and synthetic biology. He obtained his PhD in Biological Sciences from Ulsan University of Science and Technology in South Korea. He was a researcher in Madrid University in Spain, and an editor for Microbiology Society for five years. He also holds seven international patents and nineteen publications.

#### **OBJECTIVES:**

- 1. To provide insights into Synbioworks' startup journey and their innovative approach to accelerating vaccine development through synthetic biology strategies.
- To provide an overview of synthetic biology principles, techniques, and applications, helping the audience understand the fundamental concepts and current developments in the field.
- 3. To inspire curiosity and interest in synthetic biology by showcasing exciting advancements, groundbreaking research, and potential future applications that could revolutionize various industries, from healthcare to agriculture.
- 4. To highlight key milestones, challenges faced, and the potential impact of their work on the field of biotechnology and public health.

The Department of Biotechnology, The Oxford College of Engineering, Bangalore had organized an expert talk on StartUp Journey of Synbioworks in "Accelerating Vaccine Development through Synthetic Biology Strategies" " by Dr. Ajay,CEO and Founder of Synbioworks, Kodagu on 05/02/2024. Dr Ajay led the seminar by explaining various aspects and principles of synthetic biology. He explained about unnatural molecular reproduction and natural biology. He went ahead to explain reassembling processes of novel systems and other procedures involved in biological cells.

He spoke about how the drug development industry has improved due to more and more advancements in the field of synthetic biology. Generation synthetic genes paved the way for oncology-focused companies to generate cancer vaccines individualised to the specific DNA sequence of a patient's tumour. For the last three years synthetic biology industry has gained advancements due to immense research in production of vaccines against COVID-19 and the development of COVID-19 test kits, which has been generated on a larger scale and utilised by public and private healthcare providers.Synthetic biology plays an important role in Antibody and vaccine production, biofuel production, agricultural bioengineering, microbial engineering, and food production. It is an important field with major developments in this decade.

Dr Ajay also offered insight on his research work at his establishment Biosustain labs, where his domain Synbioworks have held many upcoming research work. His expert talk led us to understand future aspects and prospects of synthetic biology and overall goal for future research. His knowledge on the subject was admirable and gave us enough insight to navigate theoretical reasoning for the said talk.

## **OUTCOME:**

The main Outcomes from the expert talk on "Accelerating Vaccine Development through Synthetic Biology Strategies" Participants gained a comprehensive understanding of the principles and workings of synthetic biology, including its foundational concepts and techniques. Students acquired detailed knowledge of various applications of synthetic biology in vaccine development. This encompassed the utilization of synthetic biology tools and methodologies to design, engineer, and produce vaccines more efficiently and effectively. The talk provided a thorough exploration and elaboration of synthetic biology strategies specifically tailored for accelerating vaccine development. This included discussions on designing novel vaccine candidates, optimizing production processes, and enhancing vaccine efficacy and safety through synthetic biology approaches.



#### **Instagram:**

https://www.instagram.com/p/C3VcbjNpcTd/?igsh=MndzangxN3VqcTlp Facebook: https://www.facebook.com/share/p/owRvDbdcFYyvLwj7/?mibextid=xfxF2i Recording link: https://youtu.be/uUHTShux8SE

O. 6 IIC Coordinator **IIC Convener** Hol

Principal & President IIC PRINCIPAL The Oxford College of Engineering Bomman shalli, Hosur Road Bengaluru-560 068

# ATTENDANCE SHEET

# Event: "Accelerating Vaccine Development through Synthetic Biology Strategies"

Resource Person: Dr. Ajay Designation: Founder & CEO, Synbioworks Date: 14/02/2024 Time: 11.00 AM

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## EXPERT TALK ON "ENTREPRENEURSHIP OPPORTUNITIES IN SERICULTURE BYPRODUCT UTILIZATION"



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with Department of Biotechnology organized an expert talk on "Entrepreneurship Opportunities in Sericulture Byproduct Utilization" on 18<sup>th</sup> November 2023 from 10.00 A. M to 12.00 P.M by Mr. Sangappa Shallin, Founder Director of RS Research & Training Institute, Bangalore.

Mr. Sangappa Shillin is the Director of RS Research & Training Institute. He pursued his B.tech in textile technology and M.Tech in textile technology from the govt SKSJTI institution, Bangalore University, Bangalore. He has expertise in textile technologies which include carding, spinning winding, knitting, R&D training, raw silk testing and silk technologies. He served as a Scientist D (Retired) at CSTRI, Central Silk Board, Bangalore. At present he is a guest faculty at govt SKSJTI, Bangalore, advisory board member, Dhobi G, Chennai and Director of RS Research & Training Institute. He has published 3 international journals and 10 national journals. He presented 8 papers in international conferences and 12 papers in national seminars and published 3 manuals and 2 books. He has received many honours and awards guided for many project works in sericulture technology, textiles and biotechnology domains. Major achievements include developed low-cost fire burnt hot air drier, developed Silk handlooms to produce quality saris, developed Electronic Jacquard for handloom and powerloom to produce high end saris, developed diversified silk technical textiles, developed textile industry effluent treatment technology and many more.

#### **OBJECTIVES:**

- To understand about the innovative approaches to silk as a biomaterial
- To understand the various innovative applications of by-products of silk industry
- To understand the significance of by-products of silk for cosmetic applications
- To understand the necessity of extraction of sericin and economic
- To realize the entrepreneurial takeaways from sericin

The session was on "Entrepreneurship Opportunities in Sericulture Byproduct Utilization" by Mr. Sangappa Shillin. The seesion started at 10.00 A.M in digital classroom of BT department. The session highlighted the applications of silk in various industries. Sericulture, the practice of cultivating silk-producing silkworms, not only yields silk but also produces valuable byproducts. This technical report delves into the entrepreneurship opportunities arising from the strategic utilization of sericulture byproducts, namely silkworm pupae, silk waste, and sericin. Innovation and Design Thinking aspects of textile and silk industry were described in detail by the speaker. He detailed about sericin, a proteinaceous bioproduct which has various applications. Sericin has got wide applications as it is used as drug delivery agent in pharmaceutical industry, cosmetics, additive in food products, chemical industry. Entrepreneurs can explore the production of protein supplements for livestock and aquaculture, addressing the demand for sustainable and nutritious animal feeds. He also demonstrated about various consultancy projects that he is doing for various industries and about his company. The entrepreneurial landscape in sericulture byproduct utilization is vast and promising. By strategically harnessing the potential of silkworm pupae, silk waste, and sericin, businesses can contribute to sustainability, address market demands for eco-friendly products, and foster innovation across multiple industries. This technical report provides a foundation for further exploration and development in the field, encouraging interdisciplinary collaborations and research endeavours.

Around 45 students and 7 faculty members participated in the expert talk.



**Glimpses of the Expert Talk** 

#### **OUTCOMES:**

The outcome of the workshop is to make the students aware of entrepreneurial landscape in sericulture byproduct utilization. Students understood about the aspects of green innovations and how it is important in the silk industry for the environment to be sustainable. The students realized the entrepreneurial possibilities arising out of the by-products of silk industry. The students also learnt the innovative research in the field of silk technology and the various novel applications of silk by-products.

Facebook Link: https://shorturl.at/aesJM

Recording Link: <u>https://youtu.be/8WTfercEVcw</u>

IIC Convener IIC Coord

Principal & President IIC

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengehuru-560 068

# ATTENDANCE SHEET

# Expert Talk on "Entrepreneurship Opportunities In Sericulture Byproduct Utilization"

Resource Person: Dr. Sangappa Shallin Designation: Director, RS Research & Training Institute, Banglore Date: 18/11/2023 Time: 10.00 A.M – 12 P.M

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# Panel Discussion on Entrepreneurship Opportunities for Agri Products



The Oxford college of Engineering, Bangalore aims at providing a technoplatform for the faculty and students to enrich their domain skills, Industry-Academia collaboration is one of the prime focus of the Institute, in persuit of this, the Institute invited the Professionals across the domains for a panel meeting to identify thrust areas of research and get deep insight into the Students/faculty projects and get expert comments on it for further progress. With this context we have invited Scientists and senior persons from the following Industries

1. Dr.G K Sadananada	Deputy Director -COE for FPO
2. Dr.Nandhini M Ghante	Plant Nutritionist- Isiri Group
3. Biju George	Escorts -Kubota Ltd
4. Harshavardhan Patil	Escorts -Kubota Ltd
5. Ms.Tejaswini P	Escorts -Kubota Ltd
6. Seshagiri	Escorts -Kubota Ltd
7. SarpabhusanShivayogi	Jubilant Consumer P Ltd
8. Jophins Mathews	Natural Remedies
9. Umesha M.C	AFDC Ltd
10 Arhanth P	All India Agro
11 Ms.Geetha P	All India Agro
12 Mr.Vishal Srivastava	Flex Foods Ltd
13 Dr.Sarvankumar	Professor,CSE
14 Dr.DeviVigneshwari	Assot.Professor,EEE
15 Dr.Valarmathy K	Assot.Professor,BT

Dr. N. Kannan, Principal of The Oxford College of Engineering, extended a warm welcome to the panel members and outlined the purpose behind organizing the discussion. The panel deliberated on entrepreneurial prospects in the agri-products sector, emphasizing value addition, technology integration, and sustainable practices. Key highlights included market trends, funding options, and the pivotal role of innovation in agribusiness.

Mr.Biju George, Escort Kubato Ltd, appreciated the effort of the Oxford College of Engineering for organizing such panel discussion and applauded the interest of the Institution in taking technology to the farming sector. He briefed on the CSR efforts of Escort in providing technical training for the farmers. He expressed his displeasure as most of the farmers ends up in failing to sell their Agri produce for good price as there is a lacuna in connecting Producers and Byers. He stressed on the need of a platform to uphold the farmers for selling their produce. He told ESCORTS will take up any proposal of training farmers in venturing new crop type with bye back facility. **He welcomed the suggestion of Dr.B.K.Manjunatha, in training farmers with Aromatic crops and Extraction of Aromatic oil.** 

Mr. Jophins Mathews from Natural Remedies, Bengaluru, highlighted the opportunities in the bulk drug and API production, he emphasised on the need of educating farmers to grow medicinal and

# aromatic herbs and trading it. He assured to provide necessary support in bringing farmers and Pharma companies in one platform.

Mr. Arhanth from All India Agro underscored the absence of a **unified app connecting farmers** and buyers. Dr. Manjunath B.K advocated for the development of an app facilitating connections between farmers and buyers, featuring provisions for GI-tagged products, diverse offerings from different regions, and various associated dealers.

Dr. Nandhini from Isiri Group shed light on the significance of micronutrients in organic product production, addressing their market availability and the need for farmer awareness regarding fertilizers and their effects.Dr. Nandhini also emphasized on techniques for identifying leaf diseases in crops, leading to discussions on various methods. An ISE student shared insights into an app for geographical crop monitoring, utilizing image recognition to identify diseases. The discussion also touched upon soil screening methods, highlighting the role of modern technologies like sensors, AI and apps. She assured to provide field data on Plant pathogens for AI mediated app development for early, easy and accurate detection of Plant diseases. She agreed to extend her expertise in developing micronutrient package for Hydroponic unit.

Mr. Harshvardhan Patil, representing Escort, shared details about an app fostering direct interaction with farmers. The app facilitates communication between farmers and suppliers, connecting them with various markets, including major chains like Domino's and Pizza Hut.**He insisted on need for an integrated app that is user friendly, easy to operate, which don't demand 5G network, can reach farmers with 2G service. He insisted that, any app will become successful if it can integrate with WhatsApp as it has become common and most used platform. He agreed to help staff/students for developing such app.** 

Mr. Sarpabhusan Shivayogi, from Jubilant Consumer P Ltd, briefed that, Jubilant is purchasing huge volume of fresh Agri produce for their daily needs, and he assured that, if any farmer grows food crops of company specification, he can arrange for purchase directly from farmers. Further he pointed that, any Agri produce with certification for zero residue will boost the market potential.

Students of ISE department presented a android app developed to support the marketing of GI products, the panel appreciated the student efforts and the mentors Dr.B.K.Manjunath & Dr.Kanagavalli for guiding the students. The panel decided to take this ap to the next level and asked, mentors and students to work on it, and to list out the technical and financial requirement to develop it and to present the same in next meeting scheduled on 28 February or 1<sup>st</sup> March 2024.

Members	Participated	for Panel	Discussion	on 30/01/20	24

S.No	Name of the participant	Representing Company
1	Dr.N.Kannan	Principal,TOCE
2	Dr.Preeths Sharan	Dean Research, TOCE
3	Dr.B.K.Manjunath	Professor &Head,BT
4	Dr.C.H.Naidu	Professor &Head,CSE
5	Dr.Kanagavalli	Professor &Head,ISE
6	Dr.Bindhu	Professor &Head,AIML
7	Dr.G K Sadananada	Deputy Director -COE for FPO
8	Dr.Nandhini M Ghante	Plant Nutritionist- Isiri Group
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17	Ms.Geetha P	All India Agro
18	Mr.Vishal Srivastava	Flex Foods Ltd
19	Dr.Sarvankumar	Professor,CSE
20	Dr.DeviVigneshwari	Assot.Professor,EEE
21	Dr.Valarmathy K	Assot.Professor,BT



Glimpses of Panel Meeting held @ Board Room, TOCE on 30/01/2024

## Outcomes

In conclusion, the panel recognized the need for INTEGRATED ONE STOP AGRI APP collaborative app development initiative involving TOCE and industries. The envisioned app would serve as a unified platform connecting farmers, industries, and buyers, streamlining communication and enhancing the overall agri-products ecosystem.

Facebook link: https://www.facebook.com/share/p/zkvjtPUGj65NQF6p/?mibextid=qi2Omg

Recording link: <u>https://youtu.be/MZa7x0MW1Sc</u>

LinkedIn: https://www.linkedin.com/feed/update/urn:li:activity:7158689840987869184?utm\_source=share&

utm\_medium=member\_android

Instagram: <a href="https://www.instagram.com/p/C2wdXmlryJB/?igsh=MTlwczF4OHpsdGh2Mw">https://www.instagram.com/p/C2wdXmlryJB/?igsh=MTlwczF4OHpsdGh2Mw</a>=

Main Cuthe Hab IIC Convener

Principal & President IIC PRINCIPAL The Oxford College of Engineering Bomman shalli, Hosur Read Bengahuru-580 068







## Mentor Institute Name: The Oxford College of Engineering

Activity: Workshop on "Intellectual Property Rights (IPRs) and IP Management for Start Up"

#### Facebook:

https://www.facebook.com/share/p/YXrW262XktLJ6jef/?mibextid=xfxF2i

Recording link:

https://youtu.be/Q0w4ipfFhKA



The Oxford College of Engineering, Bengaluru- Institution Innovation Council in association with The Department of Biotechnology along with Mentee Institutions- Vemana Institute of Technology, Adarsh Institute of Management, ST. Francis Sales College, Mermier, Krupanidhi College of Pharmacy, Al-Ameen Arts, Science & Commerce organized – Workshop on "Intellectual Property Rights (IPRs) and IP Management for Start Up" on 30.04.2024

## Learning Objectives:

- To equip entrepreneurs and start-up founders with essential knowledge and practical skills to effectively manage and leverage their intellectual property.
- To educate participants on the various forms of intellectual property, including patents, trademarks, copyrights, trade secrets, and design rights.
- To provide information on available resources, such as government programs, legal support, and funding opportunities for IP development.
- To highlight the importance of protecting intellectual property rights and to promote respect for intellectual property in various fields such as science, technology, arts, and culture.

## **Learning Outcomes:**

- The workshop emphasized the importance of protecting intellectual property and leveraging it to create value for businesses, raising awareness among entrepreneurs.
- Attendees gained insights into various strategies for managing and protecting intellectual property, including patents, trademarks, copyrights, and trade secrets.
- The expert speaker shared success stories and examples of how entrepreneurs have effectively used intellectual property to drive innovation, secure funding, and gain a competitive advantage, inspiring attendees to explore similar opportunities.
- The workshop provided a platform for entrepreneurs to network with intellectual property experts, potentially leading to collaborations, partnerships, or mentorship opportunities.
- The outcome of the workshop on entrepreneurship opportunities in IPR aims to empower entrepreneurs with the knowledge and resources needed to protect and leverage their intellectual property assets for business growth and success.

On April 30, 2024, The Oxford College of Engineering, The Department of Biotechnology Bengaluru- in association with the Institution Innovation Council along with Mentee Institutions-Vemana Institute of Technology, Adarsh Institute of Management, ST. Francis Sales College, Mermier, Krupanidhi College of Pharmacy, Al-Ameen Arts, Science & Commerce conducted a hybrid-mode workshop "Intellectual Property Rights (IPRs) and IP Management for Start Up". The session aimed to provide a comprehensive understanding of IPRs and IP Management for Start Up.

The workshop highlighted the dynamic intersection of entrepreneurship and Intellectual Property Rights (IPR), revealing the vast opportunities that arise when innovative ideas are strategically protected. By exploring the IPR landscape, this session aims to inspire, educate, and equip aspiring entrepreneurs with the tools and insights needed to navigate the complex world of intellectual property and use it as a catalyst for business success.

The speaker presented concrete examples of entrepreneurs who successfully used IP strategies to advance their ventures, illustrating how IP protection can be a powerful asset for attracting investors, forming partnerships, and fostering business growth. They emphasized the importance of collaboration and knowledge exchange among entrepreneurs, IP specialists, legal practitioners, and industry stakeholders. The expert discussion explored methods to leverage the collective strength of the innovation ecosystem to drive progress and expansion.

The workshop concluded with an opportunity for participants to pose questions and interact with the experts regarding specific topics or concerns related to intellectual property.

A total of 323 participants attended the workshop, including 3 faculty members and 42 students from Vemana Institute of Technology, 2 faculty members and 45 students from Adarsh Institute of Management, 3 faculty members and 20 students from St. Francis Sales College, Mermier, 5 faculty members and 13 students from Krupanidhi College of Pharmacy, 3 faculty members and 45 students from Al-Ameen Arts, Science & Commerce, and 3 faculty members and 47 students from The Oxford College of Engineering.

#### A. Participant details:

Sr.No.	Mentee Institute Name	Total no. of Staff (Teaching/Non- teaching) participation:	Total no. of Student participation:
1.	Vemana Institute of Technology	3	42
2.	Adarsh Institute of Management	2	45
3.	St. Francis Sales College, Mermier	3	20

4.	Krupanidhi College of	5	13
	Pharmacy		
5.	Al-Ameen Arts,	3	45
	Science & Commerce		

# **B.** Attendance details:

Sr.No.	Mentee Institute Name	Participant Name	Contact Details
1	Vemana Institute Of Technology	Dr. Mukul Manohar S	8722100713
2	Vemana Institute Of Technology	Dr. Kiran Kumar N	9902029650
3	Vemana Institute Of Technology	Prof. Anjali R K	9980692263
4	Vemana Institute Of Technology	Abbavaram Snehalatha	91481 57155
5	Vemana Institute Of Technology	Afroz Ali	6364776165
6	Vemana Institute Of Technology	Aishwaran R	8296048354
7	Vemana Institute Of Technology	Akula Mokshitha	7993423463
8	Vemana Institute Of Technology	Amrutha. B	8618896679
9	Vemana Institute Of Technology	Anusha M	6360796551
10	Vemana Institute Of Technology	Arun Kumar N M	7795510640
11	Vemana Institute Of Technology	B.Lekha	89047 29759
12	Vemana Institute Of Technology	Balaji Koushik S	6361656372
13	Vemana Institute Of Technology	Basavaraja	8495808623
14	Vemana Institute Of Technology	Chandana K H	8088106487
15	Vemana Institute Of Technology	D Pandu Ranga Reddy	09900930496
16	Vemana Institute Of Technology	Darshan.D	6362279855
17	Vemana Institute Of Technology	Deeksha Gowri S N	6360128681
18	Vemana Institute Of Technology	Deeksha S.M	7892695151
19	Vemana Institute Of Technology	Deekshith Mc	9741576829
20	Vemana Institute Of Technology	Deepika. M. V	9743072844
21	Vemana Institute Of Technology	Dharani B	8618195389
22	Vemana Institute Of Technology	Gaddam Kishan Reddy	9985509100
23	Vemana Institute Of Technology	G Sai Sri Nithin Reddy	9182112179
24	Vemana Institute Of Technology	Geethanjali . M	9743242943
25	Vemana Institute Of Technology	Harish M	9845672356
26	Vemana Institute Of Technology	Harshitha.A	7899052809
27	Vemana Institute Of Technology	H B Sudeep Reddy	8296165495
28	Vemana Institute Of Technology	Jagadish Patel	9916339606
29	Vemana Institute Of Technology	Karthika Ht	9743853448
30	Vemana Institute Of Technology	Kashifa Ruheen A	9740578626
31	Vemana Institute Of Technology	Kavya S	6363926954
32	Vemana Institute Of Technology	Khadija Tul Kubra	8050755901
33	Vemana Institute Of Technology	Kommindala Jayanth	6361495389
34	Vemana Institute Of Technology	Krishna Ragha	7899495007
35	Vemana Institute Of Technology	Kruthik Kumar R	9353369015

36	Vemana Institute Of Technology	Lahari C G	9980005789
37	Vemana Institute Of Technology	L G Karthik Reddy	8184995832
38	Vemana Institute Of Technology	Likhitha V	9731998707
39	Vemana Institute Of Technology	Likith Sagar	9916425462
40	Vemana Institute Of Technology	Lucky Kiran S	9739700471
41	Vemana Institute Of Technology	M.Chaithanya	8179018650
42	Vemana Institute Of Technology	Mahesh A U	8147543604
43	Vemana Institute Of Technology	Mahesh.M	7892831728
44	Vemana Institute Of Technology	Manoj N S	8861208319
45	Vemana Institute Of Technology	Srikanth R	9380670741
46	Vemana Institute Of Technology	Shwetha. P	9538664640
47	Vemana Institute Of Technology	Narala Jyothi	8197141473
	Adarsh Institute Of Management And		0040500070
48	Information Technology	Dr. M Gurusamy	9842589278
	Adarsh Institute Of Management And	Prof Archana N	9731016027
49	Information Technology		9751010027
	Adarsh Institute Of Management And	Architha	010000055
50	Information Technology	AISIIIIIa	9108920255
	Adarsh Institute Of Management And		0105002020
51	Information Technology	Bharath D	8105883829
	Adarsh Institute Of Management And	Akebaya T	6361050453
52	Information Technology	Akshaya I	0301039433
	Adarsh Institute Of Management And	Abhishek H P	9108161620
53	Information Technology		7100101020
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54	Information Technology		
55	Adarsh Institute Of Management And	Ashish Rao	9620420696
33	A dorsh Institute Of Management And		
56	Information Technology	Manjunath U	7204053537
50	Adarsh Institute Of Management And		
57	Information Technology	Mahesh P	8884607297
	Adarsh Institute Of Management And		0.6620.62512
58	Information Technology	Kiran N V	9663063513
	Adarsh Institute Of Management And	Cagana	0741006204
59	Information Technology	Oagaila	9741090394
	Adarsh Institute Of Management And	Gunashekar	6362128908
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<i>(</i> )	Adarsh Institute Of Management And	Nandan N	7019270380
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62	Adarsh Institute Of Management And	Nandish R	7975251480
03	Adarsh Institute Of Management And		
64	Information Technology	Ambika Prasad	8639945742
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65	Adarsh Institute Of Management And Information Technology	Raghavendra	7353362688
66	Adarsh Institute Of Management And	Priyanka N	7760744253
67	Adarsh Institute Of Management And	Rakesh R C	9742245277
68	Adarsh Institute Of Management And	Priya B	7022322668
60	Adarsh Institute Of Management And	Praveen Kumar A	9986343634
70	Adarsh Institute Of Management And Information Technology	Priyanka K S	7795390353
70	Adarsh Institute Of Management And Information Technology	Sneha Shivani S R	7019601512
72	Adarsh Institute Of Management And Information Technology	Suhas G B	6363299674
73	Adarsh Institute Of Management And Information Technology	Shivakumar H N	8431826524
74	Adarsh Institute Of Management And Information Technology	Jagadeesh	9353813503
75	Adarsh Institute Of Management And Information Technology	Sanjay Kumar V	9632656614
76	Adarsh Institute Of Management And Information Technology	Shiva Prakash	7204054472
77	Adarsh Institute Of Management And Information Technology	Shri Harsha	9449485085
78	Adarsh Institute Of Management And Information Technology	Soumya	9008129277
79	Adarsh Institute Of Management And Information Technology	Sandesh	9380881085
80	Adarsh Institute Of Management And Information Technology	Kishan	9096009727
81	Adarsh Institute Of Management And Information Technology	Kruthika Eh	7975918337
82	Adarsh Institute Of Management And Information Technology	Charan Kn	9480476899
83	Adarsh Institute Of Management And Information Technology	Ramakrishna	7353362688
84	Adarsh Institute Of Management And Information Technology	Smitha Gowda	9739886636
85	Adarsh Institute Of Management And Information Technology	Pragatheesh	8825932325
86	Adarsh Institute Of Management And Information Technology	Kudsia	8431204008
87	Adarsh Institute Of Management And Information Technology	Inchara. K	8147019450
88	Adarsh Institute Of Management And	Sahana T A	8867665225

	Information Technology		
	Adarsh Institute Of Management And	h Institute Of Management And Ritushri K R	
89	Information Technology		9980190102
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90	Information Technology		7011303230
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91	Information Technology		
02	Adarsh Institute Of Management And	Thaswini S	9108868287
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03	Adarsh Institute Of Management And Information Technology	1 Iwali Mansimanoranjan	7977389157
75	Adarsh Institute Of Management And	Wansimanoranjan	
94	Information Technology	Srigowri M R	7676683689
	St Francis De Sales College	Mrs. Pavithra	
95		K(Staff)	9844845631
96	St.Francis De Sales College	Mrs. Ginsa (Staff)	8547525072
	St.Francis De Sales College	Ms.Vijavalakshmi	7558195907
97		(Staff)	
98	St.Francis De Sales College	Aleena Maria P N	7204074944
99	St.Francis De Sales College	Aghna Shelju	9148762507
100	St.Francis De Sales College	Bismaya Saju	8089858366
101	St.Francis De Sales College	Nisha R	9886570852
102	St.Francis De Sales College	Shreyas .M.V	9632522869
103	St.Francis De Sales College	Chandana .E	8431301137
104	St.Francis De Sales College	Pruthvi	9113010156
105	St.Francis De Sales College	Joshua Jeswin	7019242431
106	St.Francis De Sales College	Silambarasu S	8792730849
107	St.Francis De Sales College	Ramesh	6364445014
108	St.Francis De Sales College	Shamil	9019079564
109	St.Francis De Sales College	Tejash Keerthi	6360063636
110	St.Francis De Sales College	Karan	9108602320
111	St.Francis De Sales College	Satish R Kulkarni	7618772482
112	St.Francis De Sales College	Disha R	9611455988
113	St.Francis De Sales College	Sharmila	9538879307
114	St.Francis De Sales College	Varun R	7892026547
115	St.Francis De Sales College	Deeksha K	9019784562
116	St.Francis De Sales College	Namratha	7204076478
117	St.Francis De Sales College	Praveen Kumar	8867135145
118	Krupanidhi College Of Pharmacy	Dr. Nimisha	9980276335
119	Krupanidhi College Of Pharmacy	Mrs.Pradiptima	6290134831
120	Krupanidhi College Of Pharmacy	Dr.Paramitha	9742250412
121	Krupanidhi College Of Pharmacy	Dr.Ramandang	9945846106
122	Krupanidhi College Of Pharmacy	Dr.Kavitha	9886887421
123	Krupanidhi College Of Pharmacy	Mrs.Saraha Privanka	8179791327

124	Krupanidhi College Of Pharmacy	Mrs.Lisma	9440850352
125	Krupanidhi College Of Pharmacy	Mayukh Sarkar	7548023589
126	Krupanidhi College Of Pharmacy	Aishwarya	9535835379
127	Krupanidhi College Of Pharmacy	Krupa	7892800481
128	Krupanidhi College Of Pharmacy	Vaishnavi	9148912566
129	Krupanidhi College Of Pharmacy	Gokul	6382967161
130	Krupanidhi College Of Pharmacy	Anamika	9474062803
131	Krupanidhi College Of Pharmacy	Siri	7892226746
132	Krupanidhi College Of Pharmacy	Hemavathy	8792460933
133	Krupanidhi College Of Pharmacy	Suman	7337785051
134	Krupanidhi College Of Pharmacy	Sharat	9894630879
135	Al Ameen Arts, Science And Commerce College.	Ms. Farha Naaz (Staff)	9901140915
136	Al Ameen Arts, Science And Commerce College.	Ms. Venila B (Staff)	8073251038
137	Al Ameen Arts, Science And Commerce College.	Mrs. Nuzhath Kwaikib (Staff)	8496051861
138	Al Ameen Arts, Science And Commerce College.	Gowtham P R	8123980991
139	Al Ameen Arts, Science And Commerce College.	Dawood Mohammed Usman	8296171822
140	Al Ameen Arts, Science And Commerce College.	Mohammed Sameer B A	7820987980
141	Al Ameen Arts, Science And Commerce College.	Yusra Anwar	7338117834
142	Al Ameen Arts, Science And Commerce College.	Umme Salma	7019932959
143	Al Ameen Arts, Science And Commerce College.	Nazar Fuhad K	9188462689
144	Al Ameen Arts, Science And Commerce College.	Muhyadeen Ajmal	9113596488
145	Al Ameen Arts, Science And Commerce College.	Nikhath Fathima	8310398881
146	Al Ameen Arts, Science And Commerce College.	Sorathiya Senila Salimbhai	8281577653
147	Al Ameen Arts, Science And Commerce College.	Hadiya Khanum	8799117264
148	Al Ameen Arts, Science And Commerce College.	Abdul Rehman	7619118927
149	Al Ameen Arts, Science And Commerce College.	Ayesha	7004235281
150	Al Ameen Arts, Science And Commerce College.	Rafiya Naaz	7795496244
151	Al Ameen Arts, Science And Commerce College.	Aafiya Firdose	9845409507

	152	Al Ameen Arts, Science And Commerce	Noor Ruba	9886001372
	152	Al Ameen Arts, Science And Commerce	Mohammed Fahad	9353600097
	153	Al Ameen Arts, Science And Commerce	Mohammed Saif	9980599923
	154	Al Ameen Arts, Science And Commerce College.	Mohammed Usman Iliyaz Ahmed	9972446766
	155	Al Ameen Arts, Science And Commerce College.	Tanzeem Taj	9886729976
	157	Al Ameen Arts, Science And Commerce College.	Umme Zoya	9916447178
	158	Al Ameen Arts, Science And Commerce College.	Shaik Sinda Althaf	9986739703
	159	Al Ameen Arts, Science And Commerce College.	Saifullah Khalid	9746032861
	160	Al Ameen Arts, Science And Commerce College.	Usman. S Mohammed	8884868465
	161	Al Ameen Arts, Science And Commerce College.	Syeeda Noor Fathima	9900097662
	162	Al Ameen Arts, Science And Commerce College.	Danish Ali Khan	9998196852
	163	Al Ameen Arts, Science And Commerce College.	Mohammed Afnan Ma	8095788973
	164	Al Ameen Arts, Science And Commerce College.	Saadia	9448239473
	165	Al Ameen Arts, Science And Commerce College.	Mohammed Faraz K	6363825039
	166	Al Ameen Arts, Science And Commerce College.	Mohamed Affrar Sa	8217378944
	167	Al Ameen Arts, Science And Commerce College.	Sumera Sadaf	9880459565
	168	Al Ameen Arts, Science And Commerce College.	Syed Junaid	9632464762
	169	Al Ameen Arts, Science And Commerce College.	Bibi Zainab Taiba	8050937484
	170	Al Ameen Arts, Science And Commerce College.	Khutejalull Kubra	8281577653
	171	Al Ameen Arts, Science And Commerce College.	Shaik Zubair Ahmed	9066177071
	172	Al Ameen Arts, Science And Commerce College.	Umme Kulsum	7861022823
ł	173	Al Ameen Arts, Science And Commerce	Tasmiya Fathima	9741959304

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174	Al Ameen Arts, Science And Commerce College.	Mufeeza	9035362132
175	Al Ameen Arts, Science And Commerce College.	Abida Fathima	6363825039
176	Al Ameen Arts, Science And Commerce College.	Azra Fathima	9448239473
177	Al Ameen Arts, Science And Commerce Al Ameen Arts, Science And Commerce College.	Syed Owaise	8095788973
178	Al Ameen Arts, Science And Commerce College.	Tuba Kowser	9998196852
179	Al Ameen Arts, Science And Commerce College.	Nithin M	9900097662
180	Al Ameen Arts, Science And Commerce College.	Jafin Shaik	8884868465
181	Al Ameen Arts, Science And Commerce College.	Muskan	8281577653

# Glimpses of Workshop on Offline Mode



#### **Glimpses of Workshop on Online Mode**







# ATTENDANCE SHEET

# Workshop on "Intellectual Property Rights (IPRs) and IP Management for StartUp"

Resource Person: Dr. Mary Mangaiyarkarasi M.S Designation: IP Consultant, Bangalore Bio Innovation Centre, Bangalore. Date: 30/04/2024

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	Faculty ID		1	1
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HOD HOD HOD HOD HOD HOD Professor & Head Department of Biotechnology (he Oxford College of Engineering Bengaluru-560 068.

Principal & President IIC

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068 CHILDREN'S EDUCATION SOCIETY (Regd.) Administrative Office:1st Phase JP Nagar, Bengaluru – 560 078©: 080-3041 0501 – 502



THE OXFORD COLLEGE OF ENGINEERING

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# Panel Discussion on Entrepreneurship Opportunities for Agri Products



The Oxford college of Engineering, Bangalore aims at providing a technoplatform for the faculty and students to enrich their domain skills, Industry-Academia collaboration is one of the prime focus of the Institute, in persuit of this, the Institute invited the Professionals across the domains for a panel meeting to identify thrust areas of research and get deep insight into the Students/faculty projects and get expert comments on it for further progress. With this context we have invited Scientists and senior persons from the following Industries

1. Dr.G K Sadananada	Deputy Director -COE for FPO
2. Dr.Nandhini M Ghante	Plant Nutritionist- Isiri Group
3. Biju George	Escorts -Kubota Ltd
4. Harshavardhan Patil	Escorts -Kubota Ltd
5. Ms.Tejaswini P	Escorts -Kubota Ltd
6. Seshagiri	Escorts -Kubota Ltd
7. SarpabhusanShivayogi	Jubilant Consumer P Ltd
8. Jophins Mathews	Natural Remedies
9. Umesha M.C	AFDC Ltd
10 Arhanth P	All India Agro
11 Ms.Geetha P	All India Agro
12 Mr.Vishal Srivastava	Flex Foods Ltd
13 Dr.Sarvankumar	Professor,CSE
14 Dr.DeviVigneshwari	Assot.Professor,EEE
15 Dr.Valarmathy K	Assot.Professor,BT

Dr. N. Kannan, Principal of The Oxford College of Engineering, extended a warm welcome to the panel members and outlined the purpose behind organizing the discussion. The panel deliberated on entrepreneurial prospects in the agri-products sector, emphasizing value addition, technology integration, and sustainable practices. Key highlights included market trends, funding options, and the pivotal role of innovation in agribusiness.

Mr.Biju George, Escort Kubato Ltd, appreciated the effort of the Oxford College of Engineering for organizing such panel discussion and applauded the interest of the Institution in taking technology to the farming sector. He briefed on the CSR efforts of Escort in providing technical training for the farmers. He expressed his displeasure as most of the farmers ends up in failing to sell their Agri produce for good price as there is a lacuna in connecting Producers and Byers. He stressed on the need of a platform to uphold the farmers for selling their produce. He told ESCORTS will take up any proposal of training farmers in venturing new crop type with bye back facility. **He welcomed the suggestion of Dr.B.K.Manjunatha, in training farmers with Aromatic crops and Extraction of Aromatic oil.** 

Mr. Jophins Mathews from Natural Remedies, Bengaluru, highlighted the opportunities in the bulk drug and API production, he emphasised on the need of educating farmers to grow medicinal and

# aromatic herbs and trading it. He assured to provide necessary support in bringing farmers and Pharma companies in one platform.

Mr. Arhanth from All India Agro underscored the absence of a **unified app connecting farmers** and buyers. Dr. Manjunath B.K advocated for the development of an app facilitating connections between farmers and buyers, featuring provisions for GI-tagged products, diverse offerings from different regions, and various associated dealers.

Dr. Nandhini from Isiri Group shed light on the significance of micronutrients in organic product production, addressing their market availability and the need for farmer awareness regarding fertilizers and their effects.Dr. Nandhini also emphasized on techniques for identifying leaf diseases in crops, leading to discussions on various methods. An ISE student shared insights into an app for geographical crop monitoring, utilizing image recognition to identify diseases. The discussion also touched upon soil screening methods, highlighting the role of modern technologies like sensors, AI and apps. She assured to provide field data on Plant pathogens for AI mediated app development for early, easy and accurate detection of Plant diseases. She agreed to extend her expertise in developing micronutrient package for Hydroponic unit.

Mr. Harshvardhan Patil, representing Escort, shared details about an app fostering direct interaction with farmers. The app facilitates communication between farmers and suppliers, connecting them with various markets, including major chains like Domino's and Pizza Hut.**He insisted on need for an integrated app that is user friendly, easy to operate, which don't demand 5G network, can reach farmers with 2G service. He insisted that, any app will become successful if it can integrate with WhatsApp as it has become common and most used platform. He agreed to help staff/students for developing such app.** 

Mr. Sarpabhusan Shivayogi, from Jubilant Consumer P Ltd, briefed that, Jubilant is purchasing huge volume of fresh Agri produce for their daily needs, and he assured that, if any farmer grows food crops of company specification, he can arrange for purchase directly from farmers. Further he pointed that, any Agri produce with certification for zero residue will boost the market potential.

Students of ISE department presented a android app developed to support the marketing of GI products, the panel appreciated the student efforts and the mentors Dr.B.K.Manjunath & Dr.Kanagavalli for guiding the students. The panel decided to take this ap to the next level and asked, mentors and students to work on it, and to list out the technical and financial requirement to develop it and to present the same in next meeting scheduled on 28 February or 1<sup>st</sup> March 2024.

Members	Participated	for Panel	Discussion	on 30/01/20	24

S.No	Name of the participant	Representing Company
1	Dr.N.Kannan	Principal,TOCE
2	Dr.Preeths Sharan	Dean Research, TOCE
3	Dr.B.K.Manjunath	Professor &Head,BT
4	Dr.C.H.Naidu	Professor &Head,CSE
5	Dr.Kanagavalli	Professor &Head,ISE
6	Dr.Bindhu	Professor &Head,AIML
7	Dr.G K Sadananada	Deputy Director -COE for FPO
8	Dr.Nandhini M Ghante	Plant Nutritionist- Isiri Group
9	Biju George	Escorts -Kubota Ltd
10	Harshavardhan Patil	Escorts -Kubota Ltd
11	Ms.Tejaswini P	Escorts -Kubota Ltd
12	Seshagiri	Escorts -Kubota Ltd
13	SarpabhusanShivayogi	Jubilant Consumer P Ltd
14	Jophins Mathews	Natural Remedies
15	Umesha M.C	AFDC Ltd
16	Arhanth P	All India Agro
17	Ms.Geetha P	All India Agro
18	Mr.Vishal Srivastava	Flex Foods Ltd
19	Dr.Sarvankumar	Professor,CSE
20	Dr.DeviVigneshwari	Assot.Professor,EEE
21	Dr.Valarmathy K	Assot.Professor,BT



Glimpses of Panel Meeting held @ Board Room, TOCE on 30/01/2024

## Outcomes

In conclusion, the panel recognized the need for INTEGRATED ONE STOP AGRI APP collaborative app development initiative involving TOCE and industries. The envisioned app would serve as a unified platform connecting farmers, industries, and buyers, streamlining communication and enhancing the overall agri-products ecosystem.

Facebook link: https://www.facebook.com/share/p/zkvjtPUGj65NQF6p/?mibextid=qi2Omg

Recording link: <u>https://youtu.be/MZa7x0MW1Sc</u>

LinkedIn: https://www.linkedin.com/feed/update/urn:li:activity:7158689840987869184?utm\_source=share&

utm\_medium=member\_android

Instagram: <a href="https://www.instagram.com/p/C2wdXmlryJB/?igsh=MTlwczF4OHpsdGh2Mw">https://www.instagram.com/p/C2wdXmlryJB/?igsh=MTlwczF4OHpsdGh2Mw</a>=

Main Cuthe Hab IIC Convener

Principal & President IIC PRINCIPAL The Oxford College of Engineering Bomman shalli, Hosur Read Bengahuru-580 068




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## WORLD INTELLECTUAL PROPERTY DAY



The Oxford College of Engineering, Bangalore- Institution Innovation Council with Department of Biotechnology, TOCE celebrated World Intellectual Property Day on 27<sup>th</sup> April 2024 from 11.00 A.M in the Department of Biotechnology.

#### **OBJECTIVES:**

- To raise awareness about the role that intellectual property (IP) rights play in encouraging innovation and creativity.
- To celebrate the contributions of creators and innovators to the development of societies and economies worldwide.

• To highlight the importance of protecting intellectual property rights and to promote respect for intellectual property in various fields such as science, technology, arts, and culture.

World Intellectual Property Day was celebrated by The Department of Biotechnology in Association with Institution Innovation Council (IIC) on 27/04/24. Dr. Manjunath B K, Professor & Head of Department, and Dr. Valarmathy, Associate Professor, both from the Department of Biotechnology at The Oxford College of Engineering, Bangalore were featured in the session.

They provide valuable insights into the intersection of biotechnology and intellectual property rights. They discussed topics such as patenting biotechnological innovations, navigating intellectual property laws in the biotech industry, and the importance of protecting intellectual property for fostering innovation and economic growth.

Dr. Manjunath emphasized the role of IP rights in stimulating innovation by granting creators and innovators exclusive control over their creations. He elaborated on this by presenting case studies or examples illustrating how the protection of intellectual property has driven economic growth and technological progress across diverse industries. He explained pragmatic guidance for crafting an intellectual property strategy customized to suit the requirements of businesses and startups. This encompassed approaches for acquiring, overseeing, and enforcing IP assets. He emphasized the advantages of embedding IP considerations into the fabric of business planning and decision-making procedures.

Dr. Valarmathy provided definitions for intellectual property and its diverse manifestations, including patents, trademarks, copyrights, and more. She underscored the significance of IP rights in safeguarding intangible assets like innovations, creative endeavors, and brand identities. She explored potential future trends in IP law and policy, including the implications of emerging technologies like artificial intelligence and block chain on the enforcement and protection of IP rights. She also delved into the legal and ethical dilemmas that may arise from the rapid pace of technological advancement and increasing globalization.

The session concluded with an opportunity for participants to pose questions and interact with the experts regarding specific topics or concerns related to intellectual property.

#### **OUTCOME:**

The outcome of the expert talk on World Intellectual Property Day likely involved increased awareness and understanding among participants about the importance of intellectual property rights. They may have gained insights into various aspects of IP, including its role in fostering innovation, challenges in enforcement, and strategies for protection. Additionally, participants might have had their questions addressed, leading to a more informed and empowered perspective on navigating the complexities of intellectual property in their respective fields or industries. Overall, the talk likely served to promote dialogue, collaboration, and a greater appreciation for the value of intellectual property in driving societal and economic development. 52 Students and 3 Faculties participated in the event and made it successful.



#### **Facebook:**

https://m.facebook.com/story.php?story\_fbid=pfbid0A2N7ZLmtTJTgkpPsxApG2jYzc2Ddsm1e VUUvaJebiLHZdA3z6FnWWya113KYz6wLl&id=100076261560657&sfnsn=wiwspwa&mibex tid=6aamW6 Recording link: https://youtu.be/\_WLM\_nUTkxw

#### ATTENDANCE SHEET

## World Intellectual Property Day

Resource Person: Dr. Manjunatha B K, Professor & HOD, Dept of BT Dr. Valarmathy K, Assoc. Professor, Dept of BT, The Oxford College of Engineering, Bangalore.

Date: 27/04/2024

Sl. No	USN /	Name	Department	Signature
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7 **IIC Coordinator** 

Principal & President HC

Department of Biotechnology (he Oxford College of Engineering Bengaluru-560 068.

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Ernosure Visit on

"Entrepreneurship and Start-up opportunities

in the field of Sensor Technology"





The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with Department of Computer Science and Engineering organized an Exposure Visit "Entrepreneurship and Start-up opportunities in the field of Sensor technology" on 18th October 2023 from 10:00 AM to 4.00 PM to Central Manufacturing Technology Institute, Yeshwanthpur, Bengaluru. On 18th Oct 2023, 50 students & a faculty J Jesy Janet Kumari, Assistant Professor from the Department of Computer Science & Engineering, The Oxford College of Engineering visited the Central Manufacturing Technology Institute (CMTI) in Bangalore, India. CMTI is a premier research and development organization focusing on entrepreneurship and start-up opportunities. It is an autonomous institution under the administrative control of the Ministry of Heavy Industries, Governmentof India. CMTI plays a key role in the progress of innovation and Entrepreneurship. It has a strong track record of developing and commercializing innovative technologies and has helped to establish many young entrepreneurs and provided a path to establish start-up opportunities.

During the visit, students had the opportunity to interact with CMTI scientists and engineers and learn about some of their latest opportunities in entrepreneurship and development projects. They also visited the CMTI manufacturing facilities, where a variety of advanced machines and processes in action. The visit to CMTI was a valuable learning experience. It gave us a firsthand look at the cutting-edge manufacturing technologies that are being developed in India. Students were also impressed by the commitment and dedication of the CMTI team to helping Indian companies succeed and leading the path of start-up activities.

#### **OBJECTIVE:**

Sensor technology has been at the forefront of technological advancements, with applications in various industries, including healthcare, automotive, agriculture, and IoT. The main Objective of the exposure visit aimed to explore entrepreneurship and start-up opportunities in the field of sensor technology, providing insights into emerging trends, challenges, and potential for innovation. The visit included interactions with industry experts, startups, and research facilities.

- Started with an overview of sensor technology, its history, and the evolution of sensors. We learned about various types of sensors, their applications, and their importance in the modern world.
- Latest trends in sensor technology, including miniaturization, IOT integration, and the development of smart sensors.
- Discussed market demand and growth projections.

The Exposure visit highlighted the uses and various applications of Entrepreneurship Opportunities

#### **Entrepreneurship in Sensor Tech:**

Students had the privilege of listening to successful entrepreneurs in the field of sensor technology. They shared their journeys, challenges faced, and the opportunities they seized in the industry. Key takeaways included the importance of identifying niche markets and collaborating with established players.

#### Funding and Investment:

Students explored funding options for start-ups, including venture capital, angel investors, and government grants. Experts also discussed the need for a strong business plan, intellectual property protection, and market research to attract investors.

**Start-up Showcases:** Students visited several sensor technology start-ups, where founders presented their innovative products and solutions. These case studies included a health monitoring wearable, an agricultural sensor system, and an environmental monitoring platform. We gained valuable insights into how these start-ups identified market needs and developed their products.

#### **Objective of the session:**

The objectives of an exposure visit report on "Entrepreneurship and Start-up Opportunities in the Field of Sensor Technology" are to provide a comprehensive understanding of the Entrepreneurship and to achieve specific goals.

- 1. **Innovation and Creativity:** Entrepreneurship encourages individuals to think outside the box, identify unmet needs, and develop innovative solutions.
- Start-up opportunities : Start-ups often bring fresh perspectives to existing industries or pioneer entirely new markets through groundbreaking products, services, or business models.
- 3. **Exploration of Entrepreneurship:** To explore the entrepreneurial landscape in sensor technology, focusing on the challenges and opportunities faced by startups in this domain.
- 4. **Understanding Emerging Trends:** To provide insights into the latest trends in sensor technology, including innovations, market dynamics, and technological advancements that can guide entrepreneurs.
- Inspiration and Motivation: To inspire and motivate aspiring entrepreneurs by sharing success stories and real-world experiences of entrepreneurs who have ventured into sensor technology.
- 6. **Innovation:** They introduce novel products, services, or business models that address unmet needs or redefine existing markets.
- 7. **Exposure to Start-up:** To introduce participants to the existing ecosystem of sensor technology start-ups, including case studies and success stories.
- 8. **Research and Collaboration:** To emphasize the role of research and development in sensor technology entrepreneurship and encourage collaboration with research institutions.
- 9. **Prototyping and Testing Facilities:** To familiarize participants with the available facilities for sensor prototyping and testing, enabling them to understand the practical aspects of product development.
- 10. **Networking and Partnerships:** To highlight the significance of networking and forming strategic partnerships as essential components of entrepreneurial success in the sensor technology sector.

- 11. **Encouraging Innovation:** To encourage innovative thinking and problem-solving by showcasing how sensor technology can be applied to address real-world challenges.
- 12. **Decision-Making Support:** To provide information that can assist individuals in making informed decisions about entering the sensor technology entrepreneurship space.

50 students and 1 faculty took part in the exposure visit.

#### **OUTCOMES:**

The outcomes of an exposure visit report on "Entrepreneurship and Start-up Opportunities in the Field of Sensor Technology" can have a significant impact on the participants and the broader entrepreneurial community. Here are some potential outcomes and benefits of such a report:

- 1. **Identification of Promising Start-up Sectors:** The report can identify emerging sectors and industries with significant potential for entrepreneurship and start-up activities.
- 2. **Identification of Entrepreneurial Ecosystem Components:** The report can identify the key components.
- 3. **Insights into Entrepreneurial Mindset and Skills:** The report can document the mindset, attitudes, and skills required for successful entrepreneurship.
- 4. **Roadmap for start-up:** Exposure visit report on entrepreneurship can serve as a roadmap for fostering a vibrant entrepreneurial ecosystem, driving positive outcomes for individuals, organizations, and communities involved in promoting entrepreneurship and innovation.
- 5. **Networking Opportunities:** Participants may establish valuable connections with industry experts, fellow entrepreneurs, and potential collaborators.
- 6. Access to Funding for Start-up: Entrepreneurs gain insights into different funding options, such as venture capital and angel investment, and learn how to make their ventures more attractive to investors.
- 7. **Knowledge of Support Ecosystem:** Entrepreneurs become aware of incubators, accelerators, and support programs available to help them kick start their ventures.

- Innovation and Problem-Solving: The report encourages innovation by showcasing real- world applications of sensor technology to address complex challenges in various industries.
- 9. **Business Planning:** Participants understand the importance of robust business planning, market research, and intellectual property protection in the sensor technology field.
- 10. **R&D Collaboration:** Entrepreneurs and researchers may be more inclined to collaborate, leading to innovation and the development of cutting-edge sensor technology.
- 11. **Prototype Development:** Entrepreneurs gain insights into the facilities and resources available for prototyping and testing sensor technology products.
- 12. Strategic Partnerships: Entrepreneurs recognize the value of forming strategic partnerships to leverage complementary strengths and resources.
- 13. **Decision-Making Support:** The report assists individuals in making informed decisions about entering the sensor technology entrepreneurship space by presenting real-world examples and insights.
- 14. Economic Impact in Innovation: The report contributes to economic development by promoting innovation, job creation, and technological advancements in the sensor technology sector.
- 15. Long-Term Growth in Entrepreneurship: As a result of the exposure visit report, more entrepreneurs may enter the sensor technology field, contributing to its long-term growth and development.

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#### List of students taking part in industrial visit to visit CMTI on 18th Oct 23

SL No	USN	Name of the student	Phone number
1	10X20CS006	Aishwarya V	6364173365
2	10X20CS010	Amith P	8904151950
3	1OX20CS013	Arikitha Revankar	\$660026362
4	10X20CS016	Aparna M	7975040426
5	10X20CS022	Asiya	9019882850
6	10X20CS024	Avanishree	9632390254
7	10X20CS027	Beri Jahnavi	9901116644
8	10X20CS032	Duntine Priva	9632993509
0	1OX20CS036	Deepa A	7349512592
10	10X20CS041	Druva Kumar M	8050478172
11	10X20CS042	Govardhan Reddy	6362286476
12	10X20CS043	Likitha Devi	8971661348
13	10X20CS044	Gayathri K	7760025757
14	10X20CS046	Gowthami R	7411515905
15	10X20C5047	Hariharan A	8056329572
16	10X20CS051	Hemayathi R	8792424349
17	10X20CS052	HIMANSHU KUMAR	7903622463
18	10X20CS053	HUSAIN RANGOONWALA	7439615253
19	10X20CS058	KARTHIK M GARAG	8660560431
20	10X20CS060	KEERTHIKA P.N	6363445225
21	10X20C8062	KHUMANTHEM RAHUL SINGH	6909209091
22	10X20CS065	KRUTHIKA K	8880580114
23	10X20CS066	LAKSHMEN	/019055754
24	10X20CS069	MAITHREM NAIK	8088898240
25	1OX20CS073	MANORC	7406027098
26	10X20CS074	MD SHAD IMAM	8088826821
27	1OX20CS077	MOHAMMED MAAZ	8006571456
28	10X20CS078	MOHAMMED SUHAIL R	9164287735
29	10X20CS084	NAVYATL	9902906438
30	TOX20CS088	NIHAL H	8792158561
31	1OX20CS089	Nihar	9964694039
32	LOX20CS090	NISHA R	9964694039
33	1OX28CS092	PADMINI M	7795781062
34	10X20CS093	PIYUSH RANJAN	8434189222
35	10X20CS094	POTTIPATI PAVAN KUMAR REDE	9347500934
36	10X20CS099	RAJAT SODDAN	9682380384
37.	10X20CS107	Ruchi Bharati	9065000911

		Name of the student	Phone number
SL No	USN	Name of the student	7483720374
38	10X20CS108	Sahana	8217571076
39	10X20CS109	Saichatura	8867625466
40	10X20CS113	Sandhya G	9148564755
41	10X20CS116	Satish	8310880155
42	10X20CS119	Shivaprasad	7004098839
43	10X20CS126	Shubham	9901342599
44	10X20CS128	Sumaiya Fathima	8217668298
45	10X20CS129	Sunny Kumar Pal	7026563275
46	10X20CS131	Syed Faizan Muyeez	9066542031
47	10X20CS135	Lokesh V	7676047056
48	10X20CS137	Vaibhav	0045354184
49	10X20CS143	Venkatachalam	6260807233
50	10X20CS145	VijayaKumar	0300347223

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Ernosure Visit on

#### "Entrepreneurship and Start-up opportunities

#### in the field of AIML"

THE OXFORD **Children's Education Society** INSTITUTION'S INNOVATION THE OXFORD COLLEGE OF ENGINEERING COUNCIL Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi & Approved by A.I.C.T.E. New Delhi, accredited by NBA New Delhi and Recognized by UGC Hosur Road, Bommanahalli, Bangalore -560068 **Department of Computer Science and Engineering** In Association with IIC Organizing a **Exposure Visit on** "Entrepreneurship and Start-up opportunities **Chief Patron** In AIML" Dr. R CH A Naidu Dr.S.N.V.L Head of the Narasimha Raju On Department, CSE President 19th October 2023@ 10:00 AM - 03:30 PM The Oxford College of Engineering **The Oxford Educational** Institutions Location : Vihaan Technology (ADVI Group of Companies). **IIC Ambassadors** Marathalli, Bengaluru. Dr E Saravana Kumar/CSE Dr. N. Kannan Prof.M.Sathya/CSE **Principal & President** Dr C . Manjula IIC **IIC Convener Faculty coordinator** The Oxford College of The Oxford College of Prof. J Jessy Janet Kumari/CSE Engineering Engineering



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with Department of Computer Science and Engineering organized an ExposureVisit "Entrepreneurship and Start-up opportunities in the field of AIML" on 19th October 2023 from 10:00 AM to 4.00 PM to Vihaan Technology, Marathalli, Bengaluru. On 19th Oct 2023, 50 students & a faculty J Jesy Janet Kumari, Assistant Professor from the Department of Computer Science & Engineering, The Oxford College of Engineering visited the Vihaan Technology in Bangalore, India and provided ideas about entrepreneurship and start-up.

#### **OBJECTIVE:**

- An exposure visit report on "Entrepreneurship and Start-up Opportunities in the Field of Artificial Intelligence and Machine Learning (AI/ML)" may have various objectives, depending on the specific goals of the visit. Here are some common objectives :
- Entrepreneurshipopportunities: To share knowledge about AI/ML, entrepreneurship, and start-up opportunities with a wider audience, including individuals interested in these fields.
- Understanding the importance of Start-up: To provide a comprehensive understanding of the AI/ML landscape, including its applications, challenges, and emerging trends.
- Inspiration about Entrepreneurship: To inspire individuals to consider entrepreneurship in AI/ML by showcasing success stories and the potential for innovation in this field.
- Awareness Creation: To raise awareness about the significance of AI/ML and its potential to disrupt various industries and drive technological advancements.
- Exploration of Entrepreneurship: To explore the entrepreneurial ecosystem within the AI/ML domain, focusing on the challenges and opportunities faced by start-ups.
- Funding and Investment Insights: To educate entrepreneurs and aspiring start-up founders about funding options, investment strategies, and the importance of a strong business plan to attract investors.
- Exposure to Start-up Ecosystem: To introduce participants to the existing ecosystem of AI/ML start-ups, including case studies, success stories, and the role of incubators and accelerators.
- R&D and Innovation: To highlight the importance of research and development in driving innovation and entrepreneurship within the AI/ML sector.
- Networking Opportunities: To provide a platform for networking and establishing connections with industry experts, fellow entrepreneurs, and potential collaborators.
- Prototyping and Testing Facilities: To familiarize participants with the facilities and resources available for developing, testing, and refining AI/ML products and solutions.
- Strategic Partnerships: To emphasize the value of forming strategic partnerships, both with other start-ups and established players, to leverage resources and expertise.
- Market Identification: To help entrepreneurs identify specific niches and market

opportunities within the AI/ML sector.

- Decision-Making Support: To provide information and insights that assist individuals in making informed decisions about entering the AI/ML entrepreneurship space.
- Economic Impact: To promote economic growth and job creation by encouraging entrepreneurship and innovation in the AI/ML sector.
- Community Building: To foster a sense of community among individuals interested in AI/ML entrepreneurship, promoting knowledge sharing and collaboration.

#### **OUTCOMES:**

The outcomes of an exposure visit report on "Entrepreneurship and Start-up Opportunities in the Field of Artificial Intelligence and Machine Learning (AI/ML)" can have a significant impact on the participants and the broader entrepreneurial community. Here are some potential outcomes and benefits of such a report:

- 1. Enhanced Understanding about entrepreneurship: Participants gain a deeper understanding of AI/ML and its applications, as well as entrepreneurship and start-up opportunities in these fields.
- 2. **Inspiration:** The report can inspire individuals to consider entrepreneurship in AI/ML as a viable and exciting career path.
- 3. Awareness: It raises awareness about the significance of AI/ML and its potential to transform various industries and drive technological advancements.
- 4. **Market Exploration about Start-up:** Entrepreneurs become more informed about the AI/ML landscape, exploring the challenges and opportunities within this domain.
- 5. **Networking and Collaboration:** The report encourages networking and collaboration among participants, industry experts, and fellow entrepreneurs, leading to potential partnerships and collaborations.
- 6. **Funding Insights:** Entrepreneurs and start-up founders gain insights into different funding options, including venture capital, angel investment, and government grants, and how to make their ventures more attractive to investors.

- 7. Access to Support Ecosystem: Entrepreneurs learn about the role of incubators, accelerators, and support programs that can provide mentorship, resources, and networking opportunities.
- 8. **Innovation and Development Focus:** The report emphasizes the importance of research and development in driving innovation within the AI/ML sector, leading to the development of cutting-edge solutions.
- 9. Awareness about Entrepreneurship: Entrepreneurs become aware of available facilities for developing, testing, and validating AI/ML products and solutions.

Around 60 students and 3 faculty members took part in this exposure visit.

#### Social Media Link:

https://www.facebook.com/photo/?fbid=345545001330883&set=a.177418398143545

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M	Gmail	Principal The Oxford College of Engi	ineering <engprincipal@theoxford.ed< th=""></engprincipal@theoxford.ed<>
Invitat 1 messa	tion for the Indu	ustrial visit	
Vihan Su To: "engr	udhan <hr@advigroup orincipal@theoxford.ec</hr@advigroup 	s.co.in> lu" <engprincipal@theoxford.edu></engprincipal@theoxford.edu>	16 October 2023 at 14:
Dear S	ir/Madam,		RO' Sit R
Greetin	igs from ADVI Group o	f Companies!	1 St. All
We are Park. Th industry	delighted to extend ar his exclusive opportun v	n invitation for a free Industrial Visit to the Product ity is specifically for final-year students, allowing t	t Research Wing Marathalil Business them to gain valuable insights into the
Please r experier	note that this offer is li nce as they embark or	mited to 25 students. We believe that this visit will the final phase of their academic journey.	I provide a meaningful and enriching
Rules to	be followed:		
*The list	of students must be a	ttested by Principal or HOD.	
*ID card	is compulsory for entr	у.	
*No colle	ege bags or cell phone	es are allowed inside the campus.	
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#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website:www.theoxford.edu Email : enghodcse@theoxford.edu (Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belgaum) List of students taking part in industrial visit to visit ADVI Group of Companies on 19th Oct'23 <u>7-A Section</u>

SI. No	USN	Name of the student	Phone number	Email Id	Placed/ Not Placed
1	10X20CS009	Akshay	7338016689	akshaygowda11072002@gmail.com	Not Placed
2	10X20CS008	Akhil	8971802160	akhilgajannavar2002@gmail.com	Not Placed
3	10X20CS004	Aaarya	7011790078	saarya 642@gmail.com	Placed
4	10X20CS025	Barai Ayush	9359486070	baralayush541@Gmail.com	Placed
5	10X20CS014	Anurag	7259154670	7259154670a@gmail.com	Not Placed
6	1OX20CS023	Ashwin	8867354706	ashwinims067@gmail.com	Not Placed
7	10X20CS007	Ajai	9353583225	ajayajjuin@gmail.com	Not Placed
8	10X20CS015	Aparajith	9435417114	aparajitchowdhury35@gmail.com	Not Placed
9	1OX20CS019	Arpitha	8235402308	arpita.sinha2404@gmail.com	Not Placed
10	10X20CS018	Arezo Salman	9541562201	arezoosalman2201@gmail.com	Not Placed
11	10X20CS011	Anjali	9380154082	anjalikv20002@gmail.com	Not Placed
12	10X20CS022	Ashwini	9074663815	aswinshyam03@gmail.com	Not Placed
13	10X20CS050	Hemanth	9113099299	hemanthreddy3195@gmail.com	Not Placed
14	10X20CS035	Debayan	9380429225	debayang82@gmail.com	Not Placed
15	10X20CS001	Aditya	7091521976	aadityakumardubey30@gmail.com	Not Placed
16	10X20CS029	Bindhu	7624818206	bindumchowdary@gmail.com	Not Placed
17	10X20CS017	Apoorva	9972742938	apoorva.4131@gmail.com	Not Placed
18	1OX20CS037	Deepa C N	8073117695	nandadeepa152@gmail.com	Not Placed
19	10X20CS0406	Manjunath C	7406846716	m.ammannavar2000@gmail.com	Not Placed
20	10X20CS0400	Ankur Kumar	8296754647	akkeyben@gmail.com	Not Placed

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PRINCIPAL

PRINCIPAL fhe Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

			7-B Section		
SI. No	USN	Name of the student	Phone number	Email Id	Placed/ Not Placed
1	10X20CS091	Nithya KG	9535709606	nithyakg15@gmail.com	not placed
2	10X20CS085	Grishma Nayak	8655180517	grishma.n1211@gmail.com	not placed
3	10X20CS100	Rajath R Shetty	8105332402	srajath360@gmail.com	not placed
4	10X20CS067	Lingesh Biradar	9019820586	biradarlingesh@gmail.com	not placed
5	10X20CS102	Ramya S J	9739532565	ramyasicse2024@gmail.com	not placed
6	10X20CS075	Meharunissa	8050318964	meharunissacse2024@gmail.com	not placed
7	10X21CS404	Elilmaniyamma	9108095173	elil1882002@gmail.com	not placed
8	10X21CS407	Mounika M S	8073947169	mounikamscse2024@gmail.com	not placed
9	10X20CS094	Pottipatti Pavan Kumar Reddy	9347500934	pavanpcse2024@gmail.com	not placed
10	10X20CS090	Nisha R	9964694039	nisharcse2024@omail.com	not placed
11	10X20CS073	Manoj C	7406027098	manoiccse2024@gmail.com	not placed
12	10X20CS117	Sayan Maity	8390678106	savanmaity331@gmail.com	Not placed
13	10X20CS128	Sumaiya Fathima	9901342599	sumaiyafathima745@gmail.com	not placed
14	10X20CS118	Sayan Majumdar	7602120431	savanmajumdar4444@gmail.com	not placed
15	10X20CS127	Sudhakar N	8073693329	sudhakarncse2024@gmail.com	not placed
16	10X20CS132	Mohammed Bilal	8296298109	mohammedbila/9141@omail.com	not placed
17	10X20CS139	Varun Kumar	7204007545	varunkumar81102@gmail.com	not placed
18	10X20CS153	HariPrasad Gowda V	7337736913	haarigowda03@gmail.com	Placed
19	1OX20CS120	Shree Lakshmi M B	7975554280	shreelakshmi195@gmail.com	Placed
20	10X20CS125	Spoorthy K	8088069939	spoorthykumar26@gmail.com	not placed

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DEPARTMENT OF COMPOTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING HOSUR Road, Bommanahalli, Bengaluru-560 068. Website:www.theoxford.edu Email: enghodcse@theoxford.edu (Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belgaum) List of students taking part in industrial visit to visit ADVI Group of Companies on 19th Oct'23 <u>7-C Section</u>

_		Name of the		Email Id	Placed/ Not Placed
I No	USN	student	Phone number	Email to	Not Placed
1. 140	10X20CS147	Yashaswini S	7676944204	renukayashaswini204@gmail.com	Not Placed
-	10X20CS140	Veena P	8197260525	Veenanirmala 143@gmail.com	Not Placed
2	10X2000110	Mohammed Tibyaan	9379260372	mohammedtibyaan@gmail.com	Not Placed
3	10X20CS152	Furgan Khan	6361920938	khanfurqan1320@gmail.com	Not placed
4	10X2000132	Lokesh V	9066542031	lokeshlinga16@gmail.com	Not placed
5	10X21CS405	Farook Ahmed	8951011747	farookahmed46@gmail.com	Not Placed
7	10X20CS151	Sved Jameel Ahmed	9620133617	hannan1//5@gmail.com	Not palced
0	10X2005134	Usha P	8618340219	ushapalakshappa2002@gman.com	not placed
0	10/2000101	Sathvik G Meda	9606704260	sathvikgirish29@gmail.com	not placed
9	10X20CS112	Sandeep S	8660212737	calisandeep.s@gmail.com	not placed
10	10X2005112	Sinchana	8904130914	sinchanabr2018@gmail.com	placed
10	10X2005120	Sai Chatura	8217571076	saichaturab3118@gmail.com	not placed
12	10/2003100	Sved Faizen Muyeez	7026563275	syedfaizanmuyeezc3E2024@gmail.com	Not placed
13	10X2005101	Shivaprasad	8310880155	shivaprasadkumbar207@gmail.com	Not placed
14	10×2005145	Vijavakumar	6360897233	vijaymcse2024@gmail.com	not placed
10	10/2000138	Vaibhavi	9019169440	vaibhavimcse2024@gmail.com	not placed
10	10×2005130	Shwetha Ramesh	9380797004	shwethardcse2024@gmail.com	Not placed
1/	10/2003121	Vooresh Konin	9113614407	veereshkonincse2024@gmail.com	Not placed
18	10X2005141	Dechmik	7892945599	rashmikcse2024@gmail.com	not placed
19	10X20CS103	Rasinin N	7319991275	siddhant.kumar12311@gmail.com	INOT placed
20	(HOD 8.1=202	7 7			PRINCIPAL

HEAD OF THE DEPARTMENT DEPARTMENT OF COMPUTER SCIENCE AND COMPUTER SCIENCE AND COMPUTER SCIENCE AND COMPUTER SCIENCE AND COMPUTERING  e Oxford College of Engineeri Bornmanahalli/Hosur Road Bengaluru-560 068

SI. No	USN	Name	Phone number	Slot	Timings
1	10X20CS009	Akshay	7338016689	1	11:00Am-12:00PM
2	10X20CS008	Akhil	8971802160	1	11:00Am-12:00PM
3	10X20CS004	Aaarxa	7011790078	1	11:00Am-12:00PM
4	10X20CS025	Barai Ayush	9359486070	1	11:00Am-12:00PM
5	10X20CS014	Anurag	7259154670	1	11:00Am-12:00PM
6	10X20CS023	Ashwin	8867354706	1	11:00Am-12:00PM
7	10X20CS007	Ajai	9353583225	1	11:00Am-12:00PM
8	10X20CS015	Aparajith	9435417114	1	11:00Am-12:00PM
9	10X20CS019	Arpitha	8235402308	1	11:00Am-12:00PM
10	10X20CS018	Arezo Salman	9541562201	1	11:00Am-12:00PM
11	10X20CS011	Anjali	9380154082	1	11:00Am-12:00PM
12	10X20CS022	Ashwini	9074663815	1	11:00Am-12:00PM
13	10X20CS050	Hemanth	9113099299	1	11:00Am-12:00PM
14	10X20CS035	Debayan	9380429225	1	11:00Am-12:00PM
15	10X20CS001	Aditya	7091521976	1	11:00Am-12:00PM
16	10X20CS029	Bindhu	7624818206	1	11:00Am-12:00PM
17	10X20CS017	Apoorxa	9972742938	1	11:00Am-12:00PM
18	10X20CS037	Deepa C N	8073117695	1	11:00Am-12:00PM
19	10X20CS0406	Manjunath C	7406846716	1	11:00Am-12:00PM
20	10X20CS0400	Ankur Kumar	8296754647	1	11:00Am-12:00PM
21	10X20CS091	Nithya KG	9535709606	2	12:00PM - 1:00PM
22	10X20CS085	Grishma Navak	8655180517	2	12:00PM - 1:00PM
23	10X20CS100	Rajath R Shetty	8105332402	2	12:00PM - 1:00PM
24	10X20CS067	Lingesh Biradar	9019820586	2	12:00PM - 1:00PM
25	10X20CS102	Ramya S J	9739532565	2	12:00PM - 1:00PM
26	10X20CS075	Meharunissa	8050318964	2	12:00PM - 1:00PM
27	10X21CS404	Elilmaniyamma	91080951/3	2	12:00PM - 1:00PM
28	10X21CS407	Mounika M S	80/394/169	2	12:00PM - 1:00PM
29	10X20CS094	POTTIPATI PAVAN KUMA	9347500934	2	12:00PM - 1:00PM
30	10X20CS090	NISHA R	9964694039	2	12:00PM - 1:00PM
35	10X20CS127	Sudhakar N	8073693329	2	12:00PM - 1:00PM
36	10X20CS132	Mohammed Bilal	8296298109	2	12:00PM - 1:00PM
37	10X20CS139	Varun Kumar	7204007545	2	12:00PM - 1:00PM
38	10X20CS153	HariPrasad Gowda V	7337736913	2	12:00PM - 1:00PM
30	10X20CS120	Shree Lakshmi M.B.	7975554280	2	12:00PM - 1:00PM
40	10X20CS120	Spoorthy K	8088069939	2	12:00PM - 1:00PM
/1	10X2005125	Vachaewini S	76769//20/	2	1:00PM_2:00PM
41	10/2009147	Voona D	8107260525	3 2	1:00PM 2:00PM
42	10/2009140	Mohammed Tibyaan	0137200323	3	1:00PM-2:00PM
45	10/2000143	Furgan Khan	63610200312	3 2	1:00PM 2:00PM
44	10/2003 102	Lakaah V	00001520530	3	1:00FW-2:00FW
40	10/2003133	Lokesti V	9000042031	3	1.00PW-2.00PW
40	1072105403	Caloox Anmed	0501011/4/	3	1.00PM-2:00PM
4/	10X20CS151	Syed Jameel Anmed	9620133617	3	1:00PM-2:00PM
48	10X20CS134	Usha P	8618340219	3	1:00PM-2:00PM

49	10X20CS114	Sathvik G Meda	9606704260	3 1:00PM-2:00PM
50	10X20CS112	Sandeep S	8660212737	3 1:00PM-2:00PM
51	10X20CS123	Sinchana	8904130914	3 1:00PM-2:00PM
52	10X20CS109	Sai Chatura	8217571076	3 1:00PM-2:00PM
53	10X20CS131	Syed Eaizen Muyeez	7026563275	3 1:00PM-2:00PM
54	10X20CS119	Shiyaprasad	8310880155	3 1:00PM-2:00PM
55	10X20CS145	Vijavakumar	6360897233	3 1:00PM-2:00PM
56	10X20CS138	Vaibhavi	9019169440	3 1:00PM-2:00PM
57	10X20CS121	Shwetha Ramesh	9380797004	3 1:00PM-2:00PM
58	10X20CS141	Veeresh Konin	9113614407	3 1:00PM-2:00PM
59	10X20CS103	Rashmi K	7892945599	3 1:00PM-2:00PM
60	10X20CS122	Siddhant	7319991275	3 1:00PM-2:00PM

Social Media Link:

https://www.facebook.com/photo/?fbid=345545001330883&set=a.177418398143545

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IIC -CONVENOR

PRINCIPAL

PRINCIPAL Oxford College of Engineering Bengaluru-560 068

HEAD OF THE DEPARTMENT DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560 083





Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website: http://www.theoxford.edu/engineering/ (Approved by AICTE, New Delhi, Accredited by NAAC, NBA, New Delhi & Affiliated to VTU, Belgaum)

## Workshop on "Entrepreneurship opportunities through Wire Shark and Network Simulator -2"









The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with Department of Computer Science and Engineering and IEEE organized Workshop on "Entrepreneurship opportunities through Wire Shark and Network Simulator -2"

on 20th December 2023 from 9:30 AM onwards in TOCE, Bengaluru.

Mr.Naville nageshwara ,working as a Senior manager, Tackle D Private Ltd, Kushal Nagar,Bangalore gave the expert talk. His major roles are

- > Identify, assess, and appropriately mitigate risk to project delivery.
- > Delivery of all projects within the prescribed governance structure.
- > Building, tracking, maintaining, and reporting of project budgets and forecasts.

#### **OBJECTIVE:**

- The objectives of workshop on "Entrepreneurship opportunities through Wire Shark and Network Simulator -2" are Equip participants with practical skills in using Wireshark and Network Simulator -2, enhancing their ability to analyze and troubleshoot network issues. The other objectives include:
- Understanding Entrepreneurial Opportunities: Explore and highlight the various entrepreneurial opportunities that arise from expertise in network analysis tools like Wire shark and Network Simulator -2.
- Networking Knowledge in the field of Entrepreneurship: Enhance participants' understanding of networking concepts, protocols, and technologies, providing a solid foundation for entrepreneurial ventures in the networking field.
- **Problem Solving:** Foster problem-solving skills by teaching participants how to identify and resolve network-related challenges using Wire shark and Network Simulator -2.
- Entrepreneurial ventures: Demonstrate practical applications of Wire shark and Network Simulator -2 in real-world business scenarios, showcasing how these tools can be leveraged for entrepreneurial ventures.
- Entrepreneurial Mind set: Cultivate an entrepreneurial mind set among participants by encouraging creativity, innovation, and the identification of business opportunities within the networking domain.
- **Business Development**: Provide insights into how the skills acquired in network analysis can be translated into entrepreneurial ventures, such as starting a network consulting business, offering cyber security services, or developing network monitoring solutions.
- Market Trends: Update participants on current market trends and demand for network- related services, helping them make informed decisions about potential entrepreneurial endeavours.
- Industry Experts and Networking: Facilitate interactions with industry experts who can share their experiences in entrepreneurship within the networking field, creating networking opportunities for participants.

• Hands-on Experience: Offer hands-on sessions where participants can apply their knowledge through practical exercises using Wire shark and Network Simulator -2, reinforcing their learning and boosting their confidence.

Around 100 students from various departments and 15 faculty members attended the program.

#### **OUTCOMES:**

The outcomes of workshop"Entrepreneurship opportunities through Wire Shark and Network Simulator -2" can be diverse, impacting participants in various ways.

Here are some potential outcomes:

#### **Enhanced Technical Proficiency:**

Participants gain advanced proficiency in using Wireshark and Network Simulator -2, acquiring hands-on experience in network analysis and simulation.

#### **Entrepreneurial Knowledge:**

Increased understanding of entrepreneurial opportunities within the networking domain, with a focus on how Wireshark and Network Simulator -2 skills can be applied in real-world business scenarios.

#### **Practical Application Skills:**

Participants develop practical skills in applying network analysis tools to solve complex problems, troubleshoot issues, and optimize network performance.

#### **Innovative Business Idea Generation:**

Empowered with knowledge and skills, participants generate innovative business ideas related to network consulting, cybersecurity services, network monitoring solutions, or other entrepreneurial ventures.

#### Networking and Collaboration:

Opportunities for networking and collaboration are fostered among participants, potentially leading to partnerships or collaborative projects in the future.

#### **Entrepreneurial Mindset Cultivation:**

Cultivation of an entrepreneurial mindset, encouraging participants to think creatively, identify business opportunities, and approach challenges with a problem-solving mindset.

#### Market Awareness:

Participants gain insights into current market trends, demands, and opportunities within the networking industry, enabling them to make informed decisions about potential business ventures.

#### **Confidence Building about Entrepreneurship and Innovation:**

Hands-on exercises and practical sessions contribute to participants' confidence in applying their skills, both technically and in entrepreneurial contexts.

#### **Innovative Business Planning and Strategy:**

Participants develop business plans that incorporate their skills in Wireshark and Network Simulator -2, addressing key elements such as market analysis, target audience identification, and revenue generation strategies.

#### Legal and Ethical Understanding:

Increased awareness of legal and ethical considerations related to providing network-related services, ensuring that participants understand and adhere to industry standards.

#### Video Link:

https://drive.google.com/file/d/1q5AC1jUd35q\_PIIRRCZhfgnxVn3ivmvn/view?usp=sharing

#### Youtube Link:

https://www.youtube.com/watch?v=L6hn8x27lxE

#### Social Media (Facebook)Link:

https://www.facebook.com/photo/?fbid=373341155217934&set=a.177418398143545

#### Linked In :

https://www.linkedin.com/AgFuu9zGJlLpGQAAAYyQYyEriqTpiykyJytxb-10y5XKIwYnrsqKydsIxhIuTpwof3lNhIaMxo0Y9vdWov1VNxOx7swOZw?ut=1aCAsHhWRI9X41

## Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

#### **ATTENDANCE SHEET:**

#### Date: 20.12.2023

S1.	USN	Name	Year/Sem	Signature
No				
1.	1021CS 0 5 9	Harrh Kumar	3rd / 5+h	Harve
2.	10x21c5004	Abhilash nebbah	3rd 1 5+h	Abbilons.
3	10×2168 00 3	Ablijeet	3°d [ 5th	Abrada
4	10X21C5039	Darshan, B	3 <sup>hd</sup> /s <sup>th</sup>	Davetra
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11	10×2105135	Sharowic	3rd/sth	Shove
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		0		

# Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

## ATTENDANCE SHEET:

## Date: 20.12.2023

1

SI.	USN	Name	Year/Sem	Signature
No				
01	10x 21CS044	Devaraju.G.	s 3rd Strem	Revaragu
02	10×2165016	Anisha Banersee	3rd/5th sem	P-
03	10×2165009	Ahmed Faheem	3rd/5them	A
04	10×2105007	Adithyon P Shetty	310/5-th Ser	Alsheltg
05	10×2105014	Anil Kumare N-S	3rd Sthsem	An'il Kumor NG
06	10×2105015	Anirudhes	3rd Sth Ser	Antrado
07	10×2165021	Aran.s	3rd Sth com	the
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## Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

#### **ATTENDANCE SHEET:**

## Date: 20.12.2023

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### Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

### **ATTENDANCE SHEET:**

#### Date: 20.12.2023

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# Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

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HEAD OF THE DEPARTMENT DEPARTMENT OF COMPUTER SCIENCE AND CHOINEERING THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560 063

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-360 968

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Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website: http://www.theoxford.edu/engineering/ (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

## EXPERT LECTURE ON

#### "Entrepreneurship opportunities in the field of industry 4.0"

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INSTITUTION'S THE OXFORD COLLEGE OF ENGINEERING INNOVATION COUNCIL COUNCIL (Approved by AICTE Accredited by NAAC 'A' & NBA New Delhi, , Affiliated to VTU, Belagavi

pproved by AICTE Accredited by NAAC'A' & NBA New Delhi, , Affiliated to VTU, Belag Department of Computer Science and Engineering

In Association with IIC & IEEE

Presents Expert Lecture on

"Entrepreneurship opportunities in the field of Industry 4.0"

#### **Chief Patron**

Dr. S.N.V.L Narasimha Raju President The Oxford Educational Institutions

Dr. N. Kannan Principal & President IIC

Dr. E. Saravana Kumar Professor & HOD CSE / TOCE



Dr. P. Bindu Madhavi

IIC Convenor / HOD AIML

Resource Person Vijaysankar K Director IntelAIx Consulting Services Pvt. Ltd.

> Dr. Preeta Sharan Dean R&D / ECE IEEE Branch Counsellor

Prof. Asha Kumari A Prof. Sathya M IIC Ambassadors

Date and Time

Time: 11 AM

23rd May 2024(Thursday)

Venue: 3rd Floor Seminar hall













The Oxford college of Engineering, Bangalore - Computer Science and Engineering in association with Institution Innovation Council and IEEE organized an Expect Lecture on "Entrepreneurship opportunities in the field of industry 4.0 "on 24<sup>th</sup> May 2024 from 11:00 AM to 1:00 PM by Mr. Vijayasnakr K, Director IntelAIx consulting Private limited. He holds Bachelor's degree from Electronics & Instrumentation Engineering and master's degree in Software Systems (from BITS). The speaker bring over 23 years of extensive experience in the software industry. Currently serving as the Founder and Director of IntelAIx Consulting and Services Pvt Limited, he oversee the provision of process and technology consulting services to manufacturing and healthcare industries, with a focus on enhancing operational efficiency.

#### **OBJECTIVE:**

The main objective of the Expect Lecture on "Entrepreneurship opportunities in the field of industry 4.0 are Helping the entrepreneurs recognize gaps and inefficiencies in existing Industry 4.0 technologies and solutions, enabling them to identify lucrative market opportunities for innovation. The other objectives of the Expert Lecture are

Identifying market gaps: is a crucial objective for entrepreneurs in the field of Industry 4.0.

- Understanding Technological and Trends in Entrepreneurship: Provide insights into emerging technologies and trends within Industry 4.0, empowering entrepreneurs to align their ventures with the latest advancements and disruptive innovations.
- Encouraging Innovation: Foster a culture of innovation by inspiring entrepreneurs to develop novel products, services, or business models that leverage Industry 4.0 technologies to address industry challenges and meet evolving market demands.
- Promoting Collaboration among entrepreneurs: Encourage collaboration among entrepreneurs, industry experts, researchers, and investors to facilitate the exchange of ideas, resources, and expertise, fostering the development of collaborative ventures and partnerships.
- Building Entrepreneurial Skills: Equip entrepreneurs with essential skills such as problem-solving, critical thinking, strategic planning, and risk management, necessary for successfully navigating the complexities of entrepreneurship in the Industry 4.0 landscape.
- Accessing Funding Opportunities: Provide guidance on accessing funding sources such as venture capital, grants, and accelerators tailored to support startups and entrepreneurial ventures in the field of Industry 4.0.
- Empowering Entrepreneurial Leadership: Inspire and empower entrepreneurial leaders to drive positive change, disrupt traditional industries, and create scalable and sustainable ventures that contribute to the advancement of Industry 4.0 and the broader socio-economic landscape.

Around 80 students and 8 faculty members are participated in the expert lecture.

#### **OUTCOMES:**

A primary outcome would be the formation of new startups or entrepreneurial ventures specifically targeting opportunities within the Industry 4.0 landscape.

**Innovative Solutions**: Entrepreneurs are expected to develop innovative solutions leveraging Industry 4.0 technologies to address existing challenges or capitalize on emerging opportunities in various sectors. **Market Penetration**: Successful entrepreneurs would penetrate markets by introducing disruptive products, services, or business models that capitalize on the transformative potential of Industry 4.0.

**Economic Growth of Entrepreneurship:** Entrepreneurship in Industry 4.0 has the potential to stimulate economic growth by fostering innovation, increasing productivity, and enhancing competitiveness in domestic and global markets.

**Awareness of Opportunities**: Attendees gain awareness of the diverse range of entrepreneurship opportunities available, including those within emerging sectors like Industry 4.0, technology, sustainability, healthcare, and more.

**Understanding of Entrepreneurial Mindset**: Attendees develop an understanding of the entrepreneurial mindset, including traits such as creativity, resilience, adaptability, and risk-taking, which are essential for success in entrepreneurship.

**Awareness of Industry 4.0 Landscape:** Attendees gain a comprehensive understanding of Industry 4.0 technologies, trends, and opportunities, including the convergence of digital, physical, and cyber systems in manufacturing and related sectors.

**Recognition of Entrepreneurial Potential**: Attendees recognize the entrepreneurial potential within the realm of Industry 4.0, understanding how emerging technologies such as IoT, AI, robotics, big data, and cloud computing are driving innovation and disruption in various industries.

Social media Link:

https://www.facebook.com/photo/?fbid=471504122068303&set=a.177418398143545

Video Link:

https://drive.google.com/drive/folders/1yB\_xYTvdUOI9dU7u4RLvTATYnlEC7H M

**Department of Computer Science and Engineering** Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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5.	10X21CS128	Sandhya S	3rd/6th sem	Baidly
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Department of Computer Science and Engineering Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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Department of Computer Science and Engineering Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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**Department of Computer Science and Engineering** Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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Department of Computer Science and Engineering

Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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Market Penetration: Successful entrepreneurs would penetrate markets by introducing disruptive products, services, or business models that capitalize on the transformative potential of Industry 4.0.

Economic Growth of Entrepreneurship: Entrepreneurship in Industry 4.0 has the potential to stimulate economic growth by fostering innovation, increasing productivity, and enhancing competitiveness in domestic and global markets.

Awareness of Opportunities: Attendees gain awareness of the diverse range of entrepreneurship opportunities available, including those within emerging sectors like Industry 4.0, technology, sustainability, healthcare, and more.

Understanding of Entrepreneurial Mindset: Attendees develop an understanding of the entrepreneurial mindset, including traits such as creativity, resilience, adaptability, and risktaking, which are essential for success in entrepreneurship.

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IIC-AMBASSADOR Head of The Department Department of Computer Science and Engineering The Oxford College of Engineering BENGALURU-560068

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Institutions Innovation Councilhe Oxford College of Engineering The Oxford College of Engineering ommanahall, Hosur Road Bengaluru-560 068 Bengaluru-560068





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### DEPARTMENT OF CIVIL IN COLLABORATION WITH IIC

## Workshop Report on

# "Entrepreneurship & Career Opportunities for Civil Engineers in IT Field"



The Oxford College of Engineering, Bengaluru- Institution Innovation Council in association with Department of Civil Engineering organized a Workshop on "Entrepreneurship & Career Opportunities for Civil Engineers in IT Field" on 19<sup>th</sup> February 2024, 10am by Ms. R. Subhasri Jayamala, Technical Director & Corporate Trainer, GS3 Software Pvt. Ltd. Bangalore 560104

#### **OBJECTIVES:**

Entrepreneurship and career opportunities for civil engineers in the IT field can be diverse and rewarding. Here are some objectives for civil engineers aiming to venture into entrepreneurship or pursue careers in the IT sector:

1) To create software applications that automate repetitive tasks in civil engineering processes, optimize workflows, and improve efficiency in project management, design, and construction.

2) To Develop innovative software solutions tailored to the needs of civil engineering projects, such as Building Information Modeling (BIM) software, Auto cad, Staad Pro.

3) To provide IT consulting services to civil engineering firms, helping them optimize their IT infrastructure.

4) To apply project management skills in IT projects related to civil engineering to get career opportunities, such as software development projects, IT infrastructure upgrades.

Around 48 students and 5 faculty members are participated in the workshop.

#### **OUTCOMES:**

Entrepreneurship and career opportunities for civil engineers in the IT field can lead to various outcomes that are beneficial for both individuals and the industry. Here are some potential outcomes:

1) Successful entrepreneurship can result in the development of innovative software solutions tailored to the needs of civil engineering projects

2) Successful entrepreneurship in the IT field can lead to financial success and stability for civil engineers, as revenue generated from software sales, licensing, or consulting services grows over time.

3) Civil engineers can pursue careers as software developers or engineers, contributing to the design, development, and maintenance of software applications used in civil engineering projects.

4) Civil engineers can work in IT consulting or project management roles, helping engineering firms optimize their IT infrastructure.





#### VideoLink:

https://drive.google.com/file/d/1Sdo\_F9lzQmNVfSjqwItdRu3gvUsN\_FDq/view?usp=drive\_lin k

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#### **Twitter Link:**

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#### Koo Link:

https://www.kooapp.com/koo/guest\_RB6VS4/f0ad302b-80ba-41e4-817f-1071bc20b4ce



# Department of Civil Engineering

# List of students for "Entrepreneurship & Career Opportunities for Civil Engineers in IT Field"

#### on 19-02-2024

SLNo	USN	Name of the Student	Signature
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2	10X20CV004	KEERTI	Kaul
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4	10X20CV006	MOHAN G V	Legi
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## EXPERT LECTURE ON

#### "Entrepreneurship opportunities in the field of industry 4.0"

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INSTITUTION'S THE OXFORD COLLEGE OF ENGINEERING INNOVATION COUNCIL COUNCIL COUNCIL (Approved by AICTE Accredited by NAAC 'A' & NBA New Delhi, , Affiliated to VTU, Belagavi

pproved by AICTE Accredited by NAAC'A' & NBA New Delhi, , Affiliated to VTU, Belag Department of Computer Science and Engineering

In Association with IIC & IEEE

Presents Expert Lecture on

"Entrepreneurship opportunities in the field of Industry 4.0"

#### **Chief Patron**

Dr. S.N.V.L Narasimha Raju President The Oxford Educational Institutions

Dr. N. Kannan Principal & President IIC

Dr. E. Saravana Kumar Professor & HOD CSE / TOCE



Dr. P. Bindu Madhavi

IIC Convenor / HOD AIML

Resource Person Vijaysankar K Director IntelAIx Consulting Services Pvt. Ltd.

> Dr. Preeta Sharan Dean R&D / ECE IEEE Branch Counsellor

Prof. Asha Kumari A Prof. Sathya M IIC Ambassadors

Date and Time

Time: 11 AM

23rd May 2024(Thursday)

Venue: 3rd Floor Seminar hall













The Oxford college of Engineering, Bangalore - Computer Science and Engineering in association with Institution Innovation Council and IEEE organized an Expect Lecture on "Entrepreneurship opportunities in the field of industry 4.0 "on 24<sup>th</sup> May 2024 from 11:00 AM to 1:00 PM by Mr. Vijayasnakr K, Director IntelAIx consulting Private limited. He holds Bachelor's degree from Electronics & Instrumentation Engineering and master's degree in Software Systems (from BITS). The speaker bring over 23 years of extensive experience in the software industry. Currently serving as the Founder and Director of IntelAIx Consulting and Services Pvt Limited, he oversee the provision of process and technology consulting services to manufacturing and healthcare industries, with a focus on enhancing operational efficiency.

#### **OBJECTIVE:**

The main objective of the Expect Lecture on "Entrepreneurship opportunities in the field of industry 4.0 are Helping the entrepreneurs recognize gaps and inefficiencies in existing Industry 4.0 technologies and solutions, enabling them to identify lucrative market opportunities for innovation. The other objectives of the Expert Lecture are

Identifying market gaps: is a crucial objective for entrepreneurs in the field of Industry 4.0.

- Understanding Technological and Trends in Entrepreneurship: Provide insights into emerging technologies and trends within Industry 4.0, empowering entrepreneurs to align their ventures with the latest advancements and disruptive innovations.
- Encouraging Innovation: Foster a culture of innovation by inspiring entrepreneurs to develop novel products, services, or business models that leverage Industry 4.0 technologies to address industry challenges and meet evolving market demands.
- Promoting Collaboration among entrepreneurs: Encourage collaboration among entrepreneurs, industry experts, researchers, and investors to facilitate the exchange of ideas, resources, and expertise, fostering the development of collaborative ventures and partnerships.
- Building Entrepreneurial Skills: Equip entrepreneurs with essential skills such as problem-solving, critical thinking, strategic planning, and risk management, necessary for successfully navigating the complexities of entrepreneurship in the Industry 4.0 landscape.
- Accessing Funding Opportunities: Provide guidance on accessing funding sources such as venture capital, grants, and accelerators tailored to support startups and entrepreneurial ventures in the field of Industry 4.0.
- Empowering Entrepreneurial Leadership: Inspire and empower entrepreneurial leaders to drive positive change, disrupt traditional industries, and create scalable and sustainable ventures that contribute to the advancement of Industry 4.0 and the broader socio-economic landscape.

Around 80 students and 8 faculty members are participated in the expert lecture.

#### **OUTCOMES:**

A primary outcome would be the formation of new startups or entrepreneurial ventures specifically targeting opportunities within the Industry 4.0 landscape.

**Innovative Solutions**: Entrepreneurs are expected to develop innovative solutions leveraging Industry 4.0 technologies to address existing challenges or capitalize on emerging opportunities in various sectors. **Market Penetration**: Successful entrepreneurs would penetrate markets by introducing disruptive products, services, or business models that capitalize on the transformative potential of Industry 4.0.

**Economic Growth of Entrepreneurship:** Entrepreneurship in Industry 4.0 has the potential to stimulate economic growth by fostering innovation, increasing productivity, and enhancing competitiveness in domestic and global markets.

**Awareness of Opportunities**: Attendees gain awareness of the diverse range of entrepreneurship opportunities available, including those within emerging sectors like Industry 4.0, technology, sustainability, healthcare, and more.

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**Department of Computer Science and Engineering** Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

### **ATTENDANCE SHEET:**

### Date: 23.05.2024

Sl.	USN	Name	Year/Sem	Signature
No				
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1	Reiza Darshimi.S	Biya Darshini S	3th 6 sem	Lage
2	10x21CS109	RamyaDS	3 6 d 6 Sem	Congo
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4.	10×21C5134	Shanthini R	3 <sup>rd</sup>   6 <sup>H</sup> sem	Sharthini F
5.	10X21CS128	Sandhya <sup>.</sup> S	3rd/6th sem	Baidly
6	10×21 CS 110	Ronjita S P	3rd 16m	
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Department of Computer Science and Engineering Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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Department of Computer Science and Engineering Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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**Department of Computer Science and Engineering** Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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Department of Computer Science and Engineering

Expert Lecture on "Entrepreneurship opportunities in the field of Industry 4.0"

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Market Penetration: Successful entrepreneurs would penetrate markets by introducing disruptive products, services, or business models that capitalize on the transformative potential of Industry 4.0.

Economic Growth of Entrepreneurship: Entrepreneurship in Industry 4.0 has the potential to stimulate economic growth by fostering innovation, increasing productivity, and enhancing competitiveness in domestic and global markets.

Awareness of Opportunities: Attendees gain awareness of the diverse range of entrepreneurship opportunities available, including those within emerging sectors like Industry 4.0, technology, sustainability, healthcare, and more.

Understanding of Entrepreneurial Mindset: Attendees develop an understanding of the entrepreneurial mindset, including traits such as creativity, resilience, adaptability, and risktaking, which are essential for success in entrepreneurship.

Awareness of Industry 4.0 Landscape: Attendees gain a comprehensive understanding of Industry 4.0 technologies, trends, and opportunities, including the convergence of digital, physical, and cyber systems in manufacturing and related sectors.

Recognition of Entrepreneurial Potential: Attendees recognize the entrepreneurial potential within the realm of Industry 4.0, understanding how emerging technologies such as IoT, AI, robotics, big data, and cloud computing are driving innovation and disruption in various industries.

Social media Link:

https://www.facebook.com/photo/?fbid=471504122068303&set=a.177418398143545

Video Link:

https://drive.google.com/drive/folders/1yB xYTvdUOI9dU7u4RLvTATYnIEC7H

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Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website: http://www.theoxford.edu/engineering/ (Approved by AICTE, New Delhi, Accredited by NAAC, NBA, New Delhi & Affiliated to VTU, Belgaum)

# Workshop on "Entrepreneurship opportunities through Wire Shark and Network Simulator -2"









The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with Department of Computer Science and Engineering and IEEE organized Workshop on "Entrepreneurship opportunities through Wire Shark and Network Simulator -2"

on 20th December 2023 from 9:30 AM onwards in TOCE, Bengaluru.

Mr.Naville nageshwara ,working as a Senior manager, Tackle D Private Ltd, Kushal Nagar,Bangalore gave the expert talk. His major roles are

- > Identify, assess, and appropriately mitigate risk to project delivery.
- > Delivery of all projects within the prescribed governance structure.
- > Building, tracking, maintaining, and reporting of project budgets and forecasts.

### **OBJECTIVE:**

- The objectives of workshop on "Entrepreneurship opportunities through Wire Shark and Network Simulator -2" are Equip participants with practical skills in using Wireshark and Network Simulator -2, enhancing their ability to analyze and troubleshoot network issues. The other objectives include:
- Understanding Entrepreneurial Opportunities: Explore and highlight the various entrepreneurial opportunities that arise from expertise in network analysis tools like Wire shark and Network Simulator -2.
- Networking Knowledge in the field of Entrepreneurship: Enhance participants' understanding of networking concepts, protocols, and technologies, providing a solid foundation for entrepreneurial ventures in the networking field.
- **Problem Solving:** Foster problem-solving skills by teaching participants how to identify and resolve network-related challenges using Wire shark and Network Simulator -2.
- Entrepreneurial ventures: Demonstrate practical applications of Wire shark and Network Simulator -2 in real-world business scenarios, showcasing how these tools can be leveraged for entrepreneurial ventures.
- Entrepreneurial Mind set: Cultivate an entrepreneurial mind set among participants by encouraging creativity, innovation, and the identification of business opportunities within the networking domain.
- **Business Development**: Provide insights into how the skills acquired in network analysis can be translated into entrepreneurial ventures, such as starting a network consulting business, offering cyber security services, or developing network monitoring solutions.
- Market Trends: Update participants on current market trends and demand for network- related services, helping them make informed decisions about potential entrepreneurial endeavours.
- Industry Experts and Networking: Facilitate interactions with industry experts who can share their experiences in entrepreneurship within the networking field, creating networking opportunities for participants.

• Hands-on Experience: Offer hands-on sessions where participants can apply their knowledge through practical exercises using Wire shark and Network Simulator -2, reinforcing their learning and boosting their confidence.

Around 100 students from various departments and 15 faculty members attended the program.

### **OUTCOMES:**

The outcomes of workshop"Entrepreneurship opportunities through Wire Shark and Network Simulator -2" can be diverse, impacting participants in various ways.

Here are some potential outcomes:

### **Enhanced Technical Proficiency:**

Participants gain advanced proficiency in using Wireshark and Network Simulator -2, acquiring hands-on experience in network analysis and simulation.

### **Entrepreneurial Knowledge:**

Increased understanding of entrepreneurial opportunities within the networking domain, with a focus on how Wireshark and Network Simulator -2 skills can be applied in real-world business scenarios.

### **Practical Application Skills:**

Participants develop practical skills in applying network analysis tools to solve complex problems, troubleshoot issues, and optimize network performance.

#### **Innovative Business Idea Generation:**

Empowered with knowledge and skills, participants generate innovative business ideas related to network consulting, cybersecurity services, network monitoring solutions, or other entrepreneurial ventures.

#### Networking and Collaboration:

Opportunities for networking and collaboration are fostered among participants, potentially leading to partnerships or collaborative projects in the future.

### **Entrepreneurial Mindset Cultivation:**

Cultivation of an entrepreneurial mindset, encouraging participants to think creatively, identify business opportunities, and approach challenges with a problem-solving mindset.

### Market Awareness:

Participants gain insights into current market trends, demands, and opportunities within the networking industry, enabling them to make informed decisions about potential business ventures.

### **Confidence Building about Entrepreneurship and Innovation:**

Hands-on exercises and practical sessions contribute to participants' confidence in applying their skills, both technically and in entrepreneurial contexts.

### **Innovative Business Planning and Strategy:**

Participants develop business plans that incorporate their skills in Wireshark and Network Simulator -2, addressing key elements such as market analysis, target audience identification, and revenue generation strategies.

### Legal and Ethical Understanding:

Increased awareness of legal and ethical considerations related to providing network-related services, ensuring that participants understand and adhere to industry standards.

### Video Link:

https://drive.google.com/file/d/1q5AC1jUd35q\_PIIRRCZhfgnxVn3ivmvn/view?usp=sharing

### Youtube Link:

https://www.youtube.com/watch?v=L6hn8x27lxE

### Social Media (Facebook)Link:

https://www.facebook.com/photo/?fbid=373341155217934&set=a.177418398143545

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# Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

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# Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

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Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

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### Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

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# Department of Computer Science and Engineering

Workshop on ""Entrepreneurship opportunities through Wire Shark & Network Simulator -2"

### ATTENDANCE SHEET:

### Date: 20.12.2023

Sl.	USN	Name	Year/Sem	Signature
No				~
1	10X22 CS 415	Santosh Rawal	380 5肋	Sel.
2	10x21C3114	Ritik Raj	3rol 5th	Rotine B'
3	10×21C5129	SANI OHYA PUZARI	300/5th	Dr
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### Instagram Link:

https://www.instagram.com/p/C0qnid7rGM5/?igshid=Zj10YTZmZTMwMg==

### Twitter Link:

https://x.com/TheOxfordColle2/status/1734540013369532637?s=20

FACULTY CO-ORD ATORS

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**IIC-CONVENOR** 

PRINCIPAL

HEAD OF THE DEPARTMENT DEPARTMENT OF COMPUTER SCIENCE AND CHOINEERING THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560 063

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-360 968

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### WORKSHOP ON "BIOINNOVATIONS AND START UP"



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with IEEE-EMBS and Department of Biotechnology, TOCE organized a workshop on "Bio-innovations and start-up" 8<sup>th</sup> September 2023 from 11.00 A. M to 12.00 P.M in the department of Biotechnology.

### **OBJECTIVES:**

- To bring out the innovative and creative ideas of students in the field of biotechnology
- To understand the Technological innovations to conserve the environment.
- To bring sustainability in innovation
- To make products from waste material and beneficial to society
- To understand the Start-up opportunities in the field of biotechnology

A workshop on "Bioinnovations and start-ups" was organized by The Department of Biotechnology in Association with IEEE Bangalore Chapter and Institution Innovation Council (IIC) on 8/9/23. The session featured, Mr. Anand Kannan, National Director of the India chapter of the International Federation of Inventors Association (IFIA) and Dr. Satish M. Bhavankar, Director of Avas DigiTech, the Director of the Yenilik Foundation, and is part of the IFIA BHARAT advisory board, renowned experts in the field of biotechnology and entrepreneurship. The event aimed to provide insights into the intersection of Bioinnovation and startup ventures.

The workshop began with an Inaugural Ceremony where the overview of the rapidly evolving field of biotechnology and its potential to drive innovation in various sectors, including healthcare, agriculture, and environmental sustainability was given by Dr. B. K. Manjunath, Professor & Head, Department of Biotechnology and Dr. Preeta Sharan, IEEE coordinator and the Dean Research, The Oxford College of Engineering. In the workshop the speakers Mr. Anand Kannan and Dr. Satish M highlighted the importance of a supportive startup ecosystem in the success of Bioinnovation ventures. This included access to funding, mentorship, and collaboration opportunities. Several real-life case studies were presented to illustrate successful Bioinnovation startups. These examples showcased innovative products and services that have made a significant impact on the industry. The speakers also discussed the challenges faced by Bioinnovation startups, including regulatory hurdles and market competition. However, they also emphasized the vast opportunities available for those willing to tackle these challenges. The event provided ample networking opportunities, allowing attendees to connect with like-minded individuals, potential investors, and mentors. Collaborative efforts among participants were encouraged. The talk concluded with an engaging Q&A session, during which the audience had the chance to seek clarifications and gain further insights from the expert.

Overall, the workshop on Bioinnovation and startups was informative and inspiring. Students were left with a deeper understanding of the potential of Bioinnovation and the necessary steps to embark on successful startup journeys in this dynamic field. The event encouraged networking and collaboration, fostering a sense of enthusiasm among those present.

46 students and 7 faculties participated in the workshop and made the event successful.



**Glimpses of the Workshop** 

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#### OUTCOME:

The main agenda of the workshop was to increase the knowledge about start ups and innovations in the field of Biotechnology. The outcome of the workshop was to explore the innovative ideas to design the products and models in the field of biotechnology. The workshop helped the students to understand more about the advancement in biotechnology. Students and faculty realized the networking opportunities and potential for the development of new bioinnovations and startup ventures through this workshop.

Facebook link: <u>https://shorturl.at/fxzT0</u> Recording link: <u>https://youtu.be/\_I0QFdiU9gI</u>

IIC **IIC Convener** 

Principal & President IIC

PRINCIPAL The Oxford College of Engineering Bommanshalli, Hosur Road Bengehuru-560 068





### Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website: http://www.theoxford.edu/engineering/ (Approved by AICTE, New Delhi, Accredited by NAAC A, New Delhi & Affiliated to VTU, Belgaum)

### DEPARTMENT OF CIVIL IN COLLABORATION WITH IIC

## Workshop Report on

### "Entrepreneurship and Career Opportunities in Construction Management"



The Oxford College of Engineering, Bengaluru- Institution Innovation Council in association with Department of Civil Engineering organized a Workshop on "Entrepreneurship and Career Opportunities in Construction Technology" 11<sup>th</sup> November 2023, 10am by Mrs. Malarvizhi, Project Manager, Feature Constructions LLP, Rahuvanahalli, Bangalore.

### **OBJECTIVES:**

The main objective of the workshop is to create a knowledge about Entrepreneurship and Career Opportunities in Construction Technology. The workshop aims to

1) Entrepreneurship and career opportunities in construction management can be outlined to achieve both personal and professional goals, as well as to contribute positively to the construction industry and broader society.

2) To introduce innovative solutions, processes, or technologies to the construction industry to differentiate your business from competitors and create a competitive advantage.

3) To progress in your construction management career by acquiring new skills like learning construction management course, certifications, and experiences that enable you to take on more challenging roles and responsibilities.

4) To find fulfillment and satisfaction in your construction management career by working on diverse projects like bridges, multistoried buildings, overcoming challenges, and making meaningful contributions to the built environment.

Around 45 students and 5 faculty members are participated in the seminar.

### **OUTCOMES:**

Upon completion of the workshops, participants are expected to have gained

1) Entrepreneurship in construction management can create job opportunities for construction professionals, project managers, engineers, and support staff, contributing to economic growth and employment.

2) Successful entrepreneurship in construction management can position your firm as a leader in the industry, influencing trends, standards, and practices through thought leadership, innovation, and collaboration.

3) Pursuing career opportunities in construction management can lead to personal and professional growth, including skill development, career advancement, and increased responsibility.

4) Career opportunities in construction management allow you to contribute to the creation of essential infrastructure, buildings, and facilities that serve communities and improve quality of life.





Video Link:

https://drive.google.com/file/d/1O96bTmJR37TdUZO4FGz\_MQEQjgMTvoHV/view?usp=dri ve link

### **Registration link:**

https://docs.google.com/forms/d/e/1FAIpQLSddO66NejVAKMwXhQB2-Fa9zOPK3Oov0NisgeenzBLkccYHgA/viewform?usp=sf\_link

Facebook link:

https://www.facebook.com/photo/?fbid=357632523455464&set=a.177418398143545&\_cft\_[0]=AZWYnPiuml2OYTMGKVjv9RAWH\_un\_DQJR-vR3RJqn8ENI-WK0uTcqTtv-R28hIBDCspkYbKJXhfwSlYBADtfUQN\_n3I7zgu3qw93iVvx7DPcAzYJs0FgsVh42WNM7va 1AyNK3HHrs6igpy4XEDszZ\_dXIY2Qhw0BzmZoQB8HKZ0piqbz2AEldFYy2Zt7hiNshFXJ S5n13Jg8gYXuL-i6lmGu&\_tn\_=EH-R



# **Department of Civil Engineering**

# List of students for "Entrepreneurship and Career Opportunities in Construction Technology"

### on 11-11-2023

Sl.No	USN	Name of the State	
	USIT	Name of the Student	Signature
1	10X20CV002	FAIZAN AHMAD MIR	the
2	10X20CV004	KEERTI	Verathi
3	10X20CV005	LINGESHWARAN A	Think
4	10X20CV006	MOHAN G V	Mohon G
5	10X20CV007	NAGARAJA M L	Noromia MI
6	10X20CV008	PRAJWAL ADARSH HIREMATH	Redundan
7	10X20CV009	RANJITH GOWDA S	Banith -
8	10X20CV010	RONNIE ARON R	Ronnie.
9	10X20CV011	SUDEEP J T	Sender. It
10	10X20CV012	SUMIT OAD	Sumal
11	10X20CV013	SURESH KUMAR CHOUDHARY	Survey.
12	10X20CV014	UMMAY HANI	Ummay home
13	10X21CV400	BHARATH	hhun
14	10X21CV401	DEEPAK KUMAR V	Papan
15	10X21CV402	SUPREETH KUMAR	South
16	10X21CV001	A. YASIR AHMED SHAIKH	Varis
17	10X21CV002	ADHISH N	Adliah.
18	10X21CV003	AKASH B M	A
19	10X21CV004	ALBERTSON AKOIJAM	Alilon
20	10X21CV005	ANAMIKA VINESH	Ananika
21	10X21CV006	BHAVANA M	Plui
22	10X21CV008	MEHDI ALI MEKHRI	Mehdi
23	10X21CV009	MOAAZ AHMED	Marz
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24	10X21CV010	MOHAMMAD IQBAL LAHERWAL	TALP 11/2
25	10X21CV011	MUNEEB AHMAD BHAT	More - Spilt
26	10X21CV012	NAMRATHA C PRABHU	Mener Ste
27	10X21CV013	SHASHANK R	Nauralis
28	10X21CV014	SYED HABEEB PATEL	Provident
29	10X21CV015	TAHSANUL HASSAN	Janua
30	10X21CV016	VIJAY KUMAR A	viilay
31	10X21CV017	YALLALING S	Yallaly
32	10X21CV018	HARSHIL S G	I lil.
33	10X22CV400	JAYRAM BIDAKAR	Farran
34	10X22CV401	MOHD MUZAMIL SHEIKH	Mohammed
35	10X22CV402	PAVAN KUMAR N H	Haven.
36	10X22CV403	VICTORY S	Victory
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40	10X22CV004	MOHAMMED AKHTAR ALAM	M. Achot
41	10X22CV005	RAKSHITH S	Karkehtty >
42	10X22CV007	SHREYAS CHANDRA HASS C R	leuper
43	10X22CV008	ESHWAR M	Eshway.
44	10X22CV009	SHANAWAZ AHMED	thang
45	10X22CV010	TAMILSELVAN P	Tamit selve

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Cyt IIC Convener

IIC President

Hend of the Department Department of Civil Engineering be Oxford College of Engineering Bangalore-568 068.



<u>Number of Patents filed awarded during Academic year 2023 – 2024</u> For the academic year 2023-24 institution have successfully filed 27 patents of which 6

patents were granted, 3 designs were granted and 18 were published.

Sl.no	Name of the Department	Patent detail	Remarks
1		6347702	Published
2		202441052477 A	Published
3		425241-001	Design Grant
4		202341059442	Published
5		202441051453	Published
6		202341036848	Published
7		202341032893 A	Published
8	ISE	202341042856A	Published
9		202341043842A	Published
10		371029-001	Granted
11		369332-001	Granted
12	ECE	202341062488	Published
13		202341065412	Published
14		201941010905	Granted
15		202441014724	Published
16		202341045175	Published
17		202441062385A	Published
18		202441053947 A	Published
19	MECH	202341075039A	Published
20		202441001826A	Published
21		368917-001	Granted
22		368085-001	Granted
23	S & H	417305-001	Granted
24	5 4 11	6367812	Design Grant
25		6350779	Design Grant
26	MCA	202441001168 A	Published

27	202441020464	Published
	6302532	Design Grant


#### Department of Computer Science and Engineering

Sl. No	Name of the Inventor	Dept	Title of the Patent	Patent No	Applied Date	Published Date
1	Dr. R. Raghu	CSE	ELEPHANT INTRUSION WARNING SYSTEM USING LOW-POWER WIRELESS PERSONAL AREA NETWORKS	6347702	20/02/2024	27/02/2024
2	Dr. R. Raghu, ChaitraShree S, F Angel Donny, Asha Kumari A, L. Manjula, Kirti Tiwari, Sajida Tabasum.U, Noor Sumaiya	CSE	UFAI -SMART SHOE: A USER- FRIENDLY ARTIFICIAL INTELLIGENT BASED SMART SHOE TO PROTECT DIABETIC PATIENTS FROM FOOT DAMAGE AND ILLNESS	202441052477 A	09/06/2024	02/07/2024
3	Dr. R. Raghu	CSE	AUTONOMOUS DRONE NAVIGATION DEVICE FOR OBSTACLE AVOIDANCE AUTONOMOUS DRONE NAVIGATION DEVICE FOR OBSTACLE	425241-001	30/07/2024	03/10/2024
4	J Jesy Janet Kumari	CSE	CONTINUOUS OPERATION SYSTEM FOR ELECTRIC MOSQUITO COILVAPORIZER DURING POWER OUTAGES	202341059442	04/09/2023	06/10/2023
5	J Jesy Janet Kumari	CSE	AUTONOMOUS OBSTACLE AVOIDANCE SYSTEM FOR ROBOTIC VEHICLESUTILIZING ULTRASONIC SENSORS AND ARDUINO CONTROLLER	202441051453	04/07/2024	12/07/2024
6	Ramya Sri M , Sathya M	CSE	AN ALGORITHM FOR CYBER THREAT DETECTION AND THE MONITORING OF SECURITY BASED ON SEMANTIC MACHINE LEARNING	202341036848	28/07/2023	2/09/2023



Sl.No	Name of the Inventor	Dept	Title of the Patent	Patent No	Applied Date	Published Date
1	Ms.C A Bindyashree	ISE	Algorithm for optimizing the placement of wireless sensors using machine learning	202341032893 A	09/05/2023	16/06/2023
2	Ms.Visalini S, Ms.C A Bindyashree, Ms.Vidhya S, Ms.Diana A	ISE	A Visual Mouse: Eye Movement and Voice Assistance based Control for a personal computer	202341042856A	260/6/2023	01/09/2023
3	Ms.Visalini S, Ms.C A Bindyashree, Ms.Vidhya S, Ms.Diana A	ISE	An IOT enabled and voice activated multicolor in-writing based flow gel pen	202341043842A	30/6/2023	01/09/2023

#### **Department of Information Science and Engineering**



#### **Department of Electronics & Communication Engineering**

Sl. No	Name of the Inventor	Dept	Title of the Patent	Patent No	Applied Date	Published Date
1	Dr. Preeta Sharan, Dr. Manju Devi, Dr. Anup M Upadhyaya, Suchandana Mishra	ECE	Design of multipurpose measuring device for upper extremity based on optics	371029-001 (Granted)	19/9/2022	28/6/2024
2	Dr. Preeta Sharan, Mr. Jayaraj N	ECE	PROSTHETIC FOR LOWER EXTREMITY	369332-001 (Granted)	18/08/2022	16/05/2024
3	Dr. Preeta Sharan	ECE	Condition Monitoring for Scaled Single Wheel Railway Test Rig Model Using Optical Sensor	202341062488	17/09/2023	6/10/2023
4	Dr. Preeta Sharan, Dr. Manju Devi, Mr. Jayaraj N	ECE	Digital Finger Flexion Monitoring and Rehabilitation Device	202341065412	28/09/2023	6/10/2023
5	Dr. Preeta Sharan	ECE	Photonic Crystal Based Optical Sensor For Detection Of Pesticides In Liquid	201941010905 (Granted)	20/03/2019	24/09/2024
6	Dr. Preeta Sharan	ECE	Intelligent Foot Pressure Limiting Device for Recovery	202441014724	08/02/2024	10/5/2024
7	Dr. Preeta Sharan & Mr. Jayaraj N	ECE	Portable Smart Post Stroke Assessment Device for Hand and Arm	202341045175	05/07/2023	01/09/2023
8	Dr.Laya Tojo	ECE	AI Powered System Malware Protection for IOT devices	202441062385A	17/08/2024	23/08/2024
9	Mr. Jayaraj N	ECE	AI Powered System for Real-time disease prediction and personalized healthcare interventions using wearable IOT sensors	202441053947 A	15/07/2024	02/08/2024



#### **Department. of Biotechnology**

Sl.No	Name of the Inventor	Dept	Title of the Patent	Patent No	Applied Date	Published Date
1	Dr. Vidyadhar Pujar	MECH	DEVELOPMENT OF TI-C PARTICULATE REINFORCED AL-2219 COMPOSITES	202341075039A	03/11/2023	15/12/2023
2	Dr. Vidyadhar Pujar	MECH	CLOSED LOOP PULSATING HEAT PIPES WITH BRINE SOLUTION TO ENHANCE THERMAL PERFORMANCE	202441001826A	10/01/2024	09/02/2024
3	Dr. Anup M Upadhyaya	MECH	MECHANICAL BITE MEASURING DEVICE	368917-001 (Granted)	08/08/2022	07/05/2024
4	Dr. Preeta Sharan, Dr. Anup M Upadhyaya	MECH	Human occlusion force measuring device for orthodontic diagnosis	368085-001 (Granted)	21/07/2022	10/08/2023



#### **Department of S & H**

Sl.No	Name of the Inventor	Dept	Title of the Patent	Patent No	Applied Date	Published Date
1	Dr. H N Gayathri	Chemistry	Low Cost Defluoridation Unit For Groundwater Remediation	417305-001 (Granted)	17/05/2024	25/07/2024
2	Dr. H N Gayathri	Chemistry	Electricity generated from municipal wastewater using microbial fuel cells	6367812 (Design Granted)	23/05/2024	31/05/2024



#### **Department of MCA**

Sl.No	Name of the Inventor	Dept	Title of the Patent	Patent No	Applied Date	Published Date
1	Dr. Dharamvir	MCA	IoT-Based Temperature Humidity Sensor	6350779 (Design Grant)	02/03/2024	16/05/2024
2	Dr Dharamvir	MCA	A novel approach for detecting and localising malicious attacks in IoT - WSNs using blockchain and machine learning	202441001168 A	06/01/2024	09/02/2024
3	Dr. Dharamvir	MCA	Exploring machine learning with graph theroy:a generalised social network analysis- based classification	202441020464	19/03/2023	29/03/2024



# CHILDREN'S EDUCATION SOCIETY (Regd.) Administrative Office: 1" Phase, JP Nagar, Bengaluru – 560 078 3: 080-61754501 – 502 Fax: 080-2654 8658 THE OXFORD COLLEGE OF ENGINEERING

(Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi, Approved by AliC T.E. New DehidRacognized by UGC Under Section 2(f), Accredited by NBA, New Deini, NAAC A' Grede with Score of 3 24&Diemond Rating by GS I Guege) Bommanahalli, Hosur Road, Bangalore –560068, C: 080-61764601/602 E-mail: engprincipal@theoxford.edy Web: www.theoxford.engo.org

Number of functional MoUs with institutions, others universities, industries, corpotate houses etc., during the last 5 years

<u> </u>	2023-2024									
I.N	Dept	MOU	year	Activity Name	MOU duration	NO OI Darticipante				
1	CSE	Prinston Smart Engineers	2021-24	Internship	3 years	3				
2	1	Karunadu Technologies Private Limited	2024-27	Workshop	3 years	40				
3		Take it smart	2022-25	Internship	3 years					
4		Contriver	2022-25	Internship	3 years	1				
5		Beekoder Technologies pvt ltd	2023-26	Workshop	3 years	60				
6		ADJ Info Tech services pvt ltd	2021-24	Internship	3 years	2				
7	ISE	Fantasy Technology	2021-24	Internship	3 years	2				
8		DigiToad Tchnologies	2022-24	Workshop	2 years	60				
9		Oxford College of Physiotheraphy	2022-24	Project	2 years	15				
10		СМТІ	2022-24	Industrial visit	2 years	40				
11		Bevywise Networks	2023-25	Internship	2 years	1				
12	ECE	Quad Power	2022-24	Internship	2 years					
13		Gened Technologies	2022-24	Workshop	2 years	62				
14	EEE	Quad Power Systems	2022-24	Internship	2 years	1				
15		SCIOmics	2023-24	Workshop	2 years	86				
16		Azyme BiosciencesPrivate Limited	2023-24	Internship	2 years	2				
17	BT	Satyukt Analytics	2023-24	Internship	2 years	5				
18		Prinston Smart Engineers	2023-24	Workshop, Internship	4 Years	37/2				
19		Ehaa Technologies Pvt Ltd	2023-24	Internship	4 Years	3				
20	MECHANICAL	КСТТІ	2023-24	Internship	4 Years	3				
21		Pantech E Learning	2023-24	Workshop	3 years	2				
22	AIML	Prinston Smart Engineers	2023-24	Workshop /Internship	3 years	5				
23	CIVIL	Construction Management Training Institute	2021-26	Field visits, Trainings	5 years	5				
24		Kasiaex Solutions	2022-27	Expert lecture	5 years	40				
25		EBiX BiZ	2021-24	Expert lecture	3 years	47				
26		Ureka Education group	2020-24	Expert lecture	4 years	45				
27	MCA	Technizz Infotech	2021-24	Expert lecture	3 years	58				
28	-	Comined Group of Science & Technology	2020-24	Guest Lectures	4 Years	120				
29	MBA	Plants Zone	2020-25	Guest Lectures	5 Years	120				
30		Research International	2022-27	Guest Lectures	5 Years	120				

PRINCIPAL PRINCIPAL The Oxford College of Engineer Bommanahalli, Hosur Road Bengaluru-500 008

# MEMORANDUM OF UNDERSTANDING (MOU)

# The Oxford College Of Engineering

# Department Of Computer Science and Engineering and Prinston Smart Engineers, Bangalore



The Memorandum of Understanding is made between Department of Computer Science and Engineering, THE OXFORD COLLEGE OF ENGINEERING and PRINSTON SMART ENGINEERS, to promote the cooperation in Workshops, Conferences and Seminars would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- To conduct the conferences, seminars and workshops.
- Should accommodate the UG students in such a number that industry deems convenient to
- it for the purpose of imparting industrial training and internships.
- To give the placement opportunities to the students.

The parties anticipate that a number of these initiatives will occur during the period of this MOU i.e (Jan -2021 to Jan -2024). However, neither party is obligated to agree to any minimum number of activities, nor is this MOU intended to preclude either party from entering into similar agreements with other institutions.

The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each party and shall not become effective until they have been reduced to writing, executed by the duly authorized representatives of the parties.

This Agreement shall become effective upon being signed by both parties.

Dr. R CH A NAIDU HOD(CSE) THE OXFORD COLLEGE OF ENGINEERING

HEAD OF THE DEPARTMENT DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560 068



Dr. G. T. RAJU PRINCIPAL THE OXFORD COLLEGE OF ENGINEERING

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.

HEAD OF TRAINING CHIFF EXECUTIVE OFFICER PRINST



Scanned with CamScanner

#### CERTIFICATE CODE: PSEFSWD4433



Prinston Smart Engineers Engineering, Maintenance & Training Services



#### This Certificate is proudly presented to

#### CHETHAN C

For successful completion of internship in "FULL STACK WEB DEVELOPMENT(MERN)" with Grade "A" from 11/08/2023 - 11/09/2023.

Usn:10X21CS403 College: THE OXFORD COLLEGE OF ENGINEERING Mode of Internship: Offline











www.prinstonsmart.com



#### CERTIFICATE CODE: PSEFSWD4414



Prinston Smart Engineers

Engineering, Maintenance & Training Services



Internship Certificate

This Certificate is proudly presented to

NISHA R

For successful completion of internship in **"FULL STACK WEB DEVELOPMENT(MERN)"** with Grade **"A"** from **11/08/2023 - 11/09/2023**. Usn:10X20CS090 College: THE OXFORD COLLEGE OF ENGINEERING Mode of Internship: Offline



CERTIFICATE CODE: PSEFSWD5112



Prinston Smart Engineers Engineering, Maintenance & Training Services

Internship Certificate

This Certificate is proudly presented to

K M Bindu Shree

For successful completion of internship in **"FULL STACK WEB DEVELOPMENT**" with Grade "A" from 11/08/23 to 11/09/23.

Usn:10X20CS055 College: THE OXFORD COLLEGE OF ENGINEERING Mode of Internship: Offline

Certificate of Excellence

info@prinstonsmart.com





UDYAM – DL-08-0031663



Authorized Signatory

www.urinstonsmart.com

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#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysys Bank, Guttebasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

#### MEMORANDUM OF UNDERSTANDING (MoU)

#### BETWEEN

The Oxford College of Engineering Dept. of Information Science and Engineering 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068

#### &

Karunadu Technologies Private Limited #17, A.T.K. complex, 2<sup>nd</sup> and 4<sup>th</sup> Floor, Acharya College Main Road, Beside Karur Vysya Bank, Guttebasaveshwaranagar Chikkabanvara, Bengaluru Karnataka 560090 Tel: 09902913646, 09964823646

FOR

### SKILL DEVELOPMENT, INTERNSHIPS, WORKSHOPS AND RELATED SERVICES





#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysys Bank, Guttebasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

#### MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 02nd Day of –July –Two Thousand and Twenty Four (02/07/2024), by and between

The Oxford College of Engineering Dept. of Information Science and Engineering 10th Milestone, Hosur Rd. Bommanahalli, Bengaluru, Karnataka 560068

The First Party represented herein by its Name of Competent Authority / Representative (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators, and assigns).

AND

#### Karunadu Technologies Private Limited

 #17, ATK complex, 2<sup>nd</sup> and 4<sup>th</sup> Floor, Acharya College Main Road, Beside Karur Vysya Bank, Guttebasaveshwaranagar Chikkabanvara, Bengaluru Karnataka 560090 Tel: 09902913646, 09964823646

The Second Party, and represented herein by its Zonal / Divisional Head, Name of Competent Authority / Representative, (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' individually as 'Party') as



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KARUNADU TECHNOLOGIES PRIVATE LIMITED

#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysys Bank, Guttebasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

#### First Party is a Higher Educational Institution named: The Oxford College of Engineering

A) First Party and Second Party believe that collaboration and co-operation between Themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

- B) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Educational trainings like Workshops, Internships and Technical Talks and other related activities.
- C) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.
- D) Karunadu Technologies Private Limited, the Second Party is engaged in Software and Embedded Services and Solutions, Skill Development, Educational trainings like Workshops, Internships and Technical Talks and other related activities.
- E) The Oxford College of EngineeringThe first party is Engineering College and this MOU is made for Dept. of Information Science and Engineering Branch (ISE), The Oxford College of Engineering.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOW



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A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysys Bank, Guttebasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

#### CLAUSE 1 CO-OPERATION

Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.

The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter here of and shall supersede any prior understanding between the Parties on the subject matter hereof.

#### CLAUSE 2 SCOPE OF THE MoU

The budding graduates from the institutions could play a key role in technological upgradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

**Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.



Page 4 of 7

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Industrial Training and Visits: Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Internships / Workshops / Industrial Talks for the hands-on training of the learners enrolled with the First Party.

Skill Development Program: Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.

Faculty Development Program: Second Party to train the Faculties of First Party for imparting training as per the industrial requirement.

Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein

If there is any financial commitment on the part of the The Oxford College of Engineering the First Party to take up any programme mentioned in the MoU, it will be dealt separately and will be put into execution after being agreed from Both Parties.

#### **CLAUSE 3** INTELLECTUAL PROPERTY

3.1: Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.



Page 5 of 7

**Registered Office :** - Rus Ston, Vidvaranvapura, Bengaluru - 560064.

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Guttebasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

#### CLAUSE 4 VALIDITY

4.1: This Agreement will be valid for a period of Three years. However, Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

#### **CLAUSE 5**

### RELATIONSHIP BETWEEN THE PARTIES

5.1: It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

DE R. KANAGAVALLI OFESSOR & HOD-ISE The Oxford College Of Engineering First Partin Partin Hosur Man Bengaluru



Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by mutual talks/understandings and is not entitled for any legal actions from either parties. However one can terminate this MOU as mentioned in Clause 4

Page 6 of 7

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d) Create Pl students tl study trips





#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysys Bank, Guttebasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

Karunadu Technologies Private Limited

Bengaluru OLOGIE

FRANKLIN

Authorized Signatory

MD/CEO

MAHESH DEGINAL

#### AGREED:

PROF. & HOD

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The Oxford College of Engineering, Bengaluru

Dr. R. KANAGAVALLI PROEESSOR & HOD-ISE Authorized SingaOxford College Of F Dr. R. Kanagavalli Bangalore

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The Oxford College of Engineering	Karunadu Technologies Private Limited
Address: 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068	Address: #17,ATK complex, 2 <sup>nd</sup> and 4 <sup>th</sup> Floor, Acharya College Main Road, Beside Karur Vysya Bank, Guttebasaveshwaranagar Chikkabanvara, Bengaluru Karnataka 560090
Tel : +91 99003 00877	Tel:+91-9902913646/09964823646
Email : enghodise@theoxford.edu	Email : <u>karunadutechnologies@gmail.com</u> ,
Web: http://www.theoxfordengg.org/	Web : https://www.karunadutechnologies.com

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Witness 2:

Vitness 4:

Page 7 of 7

#### Children's Education Society THE OXFORD COLLEGE OF ENGINEERING

Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi & Approved by A.I.C.T.E. New Delbi, accredited by NAAC-A & NBA New Delbi and Recognized by UGC,Hosur Road, Bommanahalli, Bangalore -560068 **Technologies** 



NSTITUTION'S



Department of Information Science and Engineering

In Association KaruNadu Technologies Organizing a



Karunadu

Mr. Mahesh Deginal B. E, M. Tech

**Managing Director & CEO** 

**Chief Patron** Dr.S.N.V.L NarasimhaRaju President

e Oxford Educational Institutions

DATE: 5.03.2024 to 6.03.2024

Two Days Workshop on "Internet of Things"

**VENUE: ISE Seminar Hall** 

Patron Dr. N. Kannan Principal & President IIC TOCE

Convener Dr. R Kanagavalli HOD, ISE TOCE

Mr. Harish.N - B. E, M. Tech CTO and Co-Founder

> **Faculty Coordinators** Mr.Karthick Ms.Bhairavi

Assistant professor/ISE TOCE



#### Poster

The Oxford college of Engineering, Bengaluru- Institution Innovation Council Department of Information Science and Engineering organized a two day workshopon "Internet of Things" by Mr.MaheshDeginal, and Mr. N. Harish, Founder, Chief Officers, Karunadu Technologies, Bangalore. They are certified technology professionals with vast experience in the field of Information Technology. This workshop was organized on 5<sup>th</sup> March 2024from9.15 AM to 6<sup>th</sup> March 2024 till 5.15 PM. A total of **66** students attended the session. The event was organized with the prior permission and guidance of college authorities. The speaker has explained the key stages and principles of networks sensors and Internet Of things. The speaker also provided Aurdino kits with the real time activities to educate the students practically. The speaker had vast knowledge in networking, smart objects and sensors. Content were explained well with real time examples and current trends and the session was interactive. By doing this workshop the students got an understanding of design thinking, critical problem solving and systematic approach for solving a real

time problem. The top performers of the workshop were selected and a token of appreciation was given to them by the D to the given to them by the Principal of the institution.

Student's feedback: Students were satisfied with the content and the session.

**Faculty feedback:** The speaker discussed the questions with current technology trends with the students with the students which will help the students for their placements. The overall the training was good.

#### **OBJECTIVES:**

- 1. To introduce design thinking principles.
- 2. To explore Internet Of things.
- 3. To highlight career opportunities.
- 4. To provide practical insights.
- 5. To facilitate interactive learning.

#### **COURSE OBJECTIVE:**

Course Objectives: This course (18CS81) will enable students to:

CO 1: Assess the genesis and impact of IoT applications, architectures in real world.

CO 2: Illustrate diverse methods of deploying smart objects and connect them to network.

CO 3: Compare different Application protocols for IoT.

CO 4: Infer the role of Data Analytics and Security in IoT.

CO 5: Identify sensor technologies for sensing real world entities and understand the role of IoT invarious domains of Industry.

**CO PO MAPPING:** 

PO CO	P1	P2	P3	P4	Р5	P6	P7	P8	Р9	P10	P11	P12
C01	3	2	3	2	-	-	-	-	-	-	-	-
CO2		2	-	1	-	-	-	-	-	-	- 201	
CO3		2	2.743	2	-	-	-	-	-	-		
CO4	2	2	2	2	-	-	-	-	-	-	1.1	-
CO5	2	-	2	-	-	-	-	-	-	-	-	-

#### **OUTCOMES:**

- 1. An integrated approach to Critical thinking and Problem solving.
- 2. The students understood the networking principles easily.
- 3. It gave ideas about enhanced User Experience
- 4. It enhanced skill advancement and adaptation strategies.
- 5. The session became a catalyst for Innovation.

### PHOTO COLLAGE



No. of Students participants: 66 No. of Faculties: 4

Facebooklink:https://www.facebook.com/100076261560657/posts/424208600131189/?mibexti

d=rS40aB7S9Ucbxw6v

# Instagram Link:

https://www.instagram.com/p/C4LHyCXrfv7/?igsh=YXpqaG02enpiYTd0

HOD ISE

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# Memorandum of Understanding

Between

Take It Smart (OPC) PVT LTD

and

The Department of Information Science and Engineering The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

This Memorandum of Understanding (MOU) between the Take It Smart (OPC) PVT LTD and Department of Information Science and Engineering of The Oxford College of Engineering, Bengaluru details the modalities and general conditions regarding collaboration between both the partners

#### 1. SCOPE OF MOU

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- a) Mutual training, knowledge sharing, project consultancy and R&D activities of mutual benefit.
- b) Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- c) Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- d) Create Placements engagement and development opportunities for students through programmes, lectures, seminars, conferences, events, study trips, internships.

# KEY OPERATION AREAS

The Scope of the MOU can be accomplished by undertaking the following ities. Any financial activities. Any financial consideration or expenses relating to any of the activities will be agreed senantial will be agreed separately between both parties through a written notification.

- a) Mutual knowledge exchange programs between Take It Smart (OPC) PVT LTD and TOCE at faculty and research scholar's levels.
- b) Joint project consultancy at prorate basis to handle customers' projects.
  c) Operation joint
- National c) Organizing International and contributions for knowledge sharing and R&D activities. d) Organizing workshops and seminars/FDPs for specific skill building. e) Focused training to students to bridge the gap between Academia &
- Industry support for placement of students. ACTIVITIES AND OBLIGATIONS OF Take It Smart (OPC) PVT LTD

3.

Industries served are:

Banking & Financial(MIS Projects)

- Small and Medium Enterprise(Customized Softwares)
- Info Technology
- TAKE IT SMART (OPC) PVT.LTD mainly works in three Verticals Digital Advertisements, Web design & software Internship, Projects & Training Web

Based Services:

We have six types of Website Service

- Static Website
- Dynamic Website
- CMS Website
- E-Commerce

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## STRONG POINTS OF TOCE

- a) Enrolment of students for various technical courses.
- b) Provisioning of the required infrastructure to enable the training and related activity related activities;

  - ii. Audio/Visual Systems (Project & Loudspeaker Systems or Individual
  - iii. Qualified faculty members for consultancy projects and research activities.
  - v. Stable high speed internet connectivity to enable live online classes
  - without any technical glitches.

#### GENERAL CONDITIONS 5.

- a) Each party will establish a single point of contact who will serve as the principal interface for his/her respective organization.
- b) Either party may cancel this MOU and any extension thereof by providing the other party with 30-day notice of cancellation. Such cancellation notice shall be sent by certified mail and will be effective 30 days from the date sent. Cancellation of this agreement will have no effect on approved project agreements.

c) Any form of financial commitment in the form of payments, discounts, vouchers, IPRs, patents etc. to be agreed separately between both parties through a written notification

#### EFFECTIVE DATE 6.

- a) This MOU will be effective upon the date of the final signature of this document for document for a period of three year with one-year extensions available upon written mutual agreement. Extensions become effective upon final signature of the appropriate parties.
- b) This MOU will lapse if there is no activity or engagement between both the next of the the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

#### 7. **AUTHORISED SIGNATORIES**

# 14,SGN Arcade, 1st Floor, 2nd stage, 1st Main Rd, RPC Layout, Hoshalli Extension, Stage 1, Vijayanagar, Bengaluru, Karnataka 560040 Ph no.8050104212 M/s. Take It Smart (OPC) PVT LTD

# Department of Information Science and Engineering

The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

Dr. R. Kanagavalli, Professor & Head 1. Email: enghodise@theoxford.edu Telephone: 9900300877

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- 1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity 2. Any other terms deemed necessary for the efficient management of the
- activity.



Signatures of concerning officials 00

Name: Mr Mallikarjun Kumbar Organization: M/s. Take It Smart (OPC) PVT LTD Designation: Director

Date: 22.08.22

-

Date: 22.08.22

Name: Dr. Br. Kanagavalli Organiza MOFESSOR and Obliged College of Engineering Designation and College Of Engineering Bommanahalli, Hoeur Main Sanad Bangalore 660 004.



# **CERTIFICATE** OF APPRECIATION

Proudly present to :



# Ms.Noorain Fathima

This certificate is given for Completing the Internship program in Full Stack Development using Django duration from November 25th to December 23rd 2023.

Mallikarjun kumbar **CEO & Director** 



# **CERTIFICATE** OF APPRECIATION

Proudly present to:



# Mr.Stefen Joseph

This certificate is given for Completing the Internship program in Full Stack Development using Django duration from November 25th to December 23rd 2023.

Mallikarjun kumbar **CEO & Director** 



### Memorandum of Understanding

Between

Contriver Summit/Sinchana Hospital Building, Panchamantra Rd, Kuvempu Nagara, Mysuru, Karnataka-570023 and

The Department of Information Science and Engineering The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

This Memorandum of Understanding (MOU) between the Contriver, Mysuru and Department of Information Science and Engineering of The Oxford College of Engineering, Bengaluru details the modalities and general conditions regarding collaboration between both the partners

#### SCOPE OF MOU 1.

F

This MOU aims to develop strategic association and explore long term collaboration a) Mutual training, knowledge sharing, project consultancy and R&D activities of opportunities between both parties to

- b) Support development of employability enhancing skills and traits that lead to overall
- success of students, teachers and their institution. c) Promote a global mindset through hands-on experiences and exposure to best
- practices from the best institutions in the world. d) Create Placements engagement and development opportunities for students through
- programmes, lectures, seminars, conferences, events, study trips, internships.

#### KEY OPERATION AREAS 2.

The Scope of the MOU can be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately between both parties through a written notification.

- a. Mutual knowledge exchange programs between Contriver and TOCE at faculty and research scholars levels.
- b. Joint project consultancy at prorate basis to handle customers' projects.
- c. Organizing International and National conferences with joint contributions for knowledge sharing and R&D activities.
- d. Organizing workshops and seminars/FDPs for specific skill building.
- e. Focused training to students to bridge the gap between Academia & Industry support for placement of students.

### 3. ACTIVITIES AND OBLIGATIONS OF CONTRIVER

- a) Providing quality education on latest technologies and develop products which are of great need to the society.
- b) Consultancy and project delivery in terms of services and products.
- c) Cost-effective, convenient and easy-to-manage individual/group Class room training on Software Courses.
- d) End-to-end delivery of the training to the students of ISE and other department of

b)

- e) Placement assistance to students completing the training successfully.
- On Campus online training programs for the students of TOCE to assist them further to be technologically ready, industry ready and highly employable at the end of the f) Engineering program.

#### STRONG POINTS OF TOCE 4.

- Eurolment of students for various technical courses.
- Provisioning of the required infrastructure to enable the training and related activities: a)
  - Classrooms/Auditoriums. ì.

- Audio/Visual Systems (Project & Loudspeaker Systems or Individual PCs & ii.
- Qualified faculty members for consultancy projects and research activities. iv.
- Good laboratories for innovative activities. V.
- Stable high speed internet connectivity to enable live online classes without any technical glitches.

#### 5. **GENERAL CONDITIONS**

iii.

- a) Each party will establish a single point of contact who will serve as the principal interface for his/her respective organization.
- b) Either party may cancel this MOU and any extension thereof by providing the other party with 30-day notice of cancellation. Such cancellation notice shall be sent by certified mail and will be effective 30 days from the date sent. Cancellation of this agreement will have no effect on approved project agreements.
- c) Any form of financial commitment in the form of payments, discounts, vouchers, IPRs, patents etc. to be agreed separately between both parties through a written notification

#### EFFECTIVE DATE 6.

b)

This MOU will be effective upon the date of the final signature of this document for a period of three year with one-year extensions available upon written mutual agreement. Extensions become effective upon final signature of the appropriate a)

This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each

anniversary thereon.

#### AUTHORISED SIGNATORIES 7.

#### Contriver

Summit/Sinchana Hospital Building, Panchamantra Rd, Kuvempu Nagara, Mysuru, Karnataka-

Mr. Sanjay B, Managing Partner 1. Email: sanjay@contriver.co.in Telephone: +91- 7829540019

Department of Information Science and Engineering The Oxford College of Engineering, 10th Milestone, Bommanahalli, Hosur Road, Bengalum-560 068

1. Dr. R. Kanagavalli, Professor & Head Email: enghodise@theoxford.edu Telephone: 9900300877

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity

2. Any other terms deemed necessary for the efficient management of the activity.

Signatures of concerning officials

For CONTRIVER Managing Partner

Date: 19.08.22

Name: Mr. Sanjay B Organization: Contriver Designation: Managing Partner

Date: 19.08.22

Dr. R. KANAGAVALLI Dr. R. KanagenovEssor & HOD-ISE Organization: IS the Oxford College Of Engineering Bommaration: Hoelictering Fingineering Designation: Professor



# CERTIFICATE OF APPRECIATION

### THE CERTIFICATE IS GIVEN TO

# Ms.NAVYA

This certificate is given for Completing the Internship program in Python programming using Django duration from November 25th to December 23rd 2023.



CEO
### Memorandum of Understanding

Between M/s. BEEKODER Technologies Pvt Ltd

and

### The Department of Information Science and Engineering The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

This Memorandum of Understanding (MOU) between the and Department of Information Science and Engineering of The Oxford College of Engineering, Bengaluru details the modalities and general conditions regarding collaboration between both the partners

### 1. <u>SCOPE OF MOU</u>

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This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- a) Mutual training, knowledge sharing, project consultancy and R&D activities of mutual benefit.
- b) Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- c) Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- d) Create Placements engagement and development opportunities for students through programmes, lectures, seminars, conferences, events, study trips, internships.

### KEY OPERATION AREAS

The Scope of the MOU can be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately between both parties through a written notification. a) Mutual knowledge exchange programs between CODE B and TOCE at

- faculty and research scholars levels. b) Joint project consultancy at prorate basis to handle customers' projects.
- conferences with joint and
- c) Organizing International contributions for knowledge sharing and R&D activities. d) Organizing workshops and seminars/FDPs for specific skill building.
- e) Focused training to students to bridge the gap between Academia &
- Industry support for placement of students.

# ACTIVITIES AND OBLIGATIONS OF TEQUED LABS

3.

4.

- a) Providing quality education on latest technologies and develop products b) Consultancy and project delivery in terms of services and products. which are of great need to the society. c) Cost-effective, convenient and easy-to-manage individual/group Class

- d) End-to-end delivery of the training to the students of ISE and other room training on Software Courses.
- e) Placement assistance to students completing the training successfully. On Campus online training programs for the students of TOCE to assist
- them further to be technologically ready, industry ready and highly f employable at the end of the Engineering program.

# STRONG POINTS OF TOCE

and the second second

- a) Enrolment of students for various technical courses. b) Provisioning of the required infrastructure to enable the training and
- related activities: i. Classrooms/Auditoriums.

- ii. Audio/Visual Systems (Project & Loudspeaker Systems or Individual iii. Qualified faculty members for consultancy projects and research
- iv. Good laboratories for innovative activities.
- v. Stable high speed internet connectivity to enable live online classes
- without any technical glitches.

### GENERAL CONDITIONS 5.

- a) Each party will establish a single point of contact who will serve as the principal interface for his/her respective organization.
- b) Either party may cancel this MOU and any extension thereof by providing the other party with 30-day notice of cancellation. Such cancellation notice shall be sent by certified mail and will be effective 30 days from the date sent. Cancellation of this agreement will have no

effect on approved project agreements. c) Any form of financial commitment in the form of payments, discounts,

vouchers, IPRs, patents etc. to be agreed separately between both parties through a written notification

#### EFFECTIVE DATE 6.

a) This MOU will be effective upon the date of the final signature of this document for a period of three year with one-year extensions available upon written mutual agreement. Extensions become effective upon final signature of the appropriate parties.

b) This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

### AUTHORISED 7. SIGNATORIES

### M/s. Beekoder

1. Name: Mr. Vipul Anand Dirctor Beekoder Technologies Pvt Ltd

And the second states in

- 2. Email: vipul@beekoder.com
- 3. Telephone: 8797101236

### Department of Information Science and Engineering

The Oxford College of Engineering,

10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

- 1. Dr. R. Kanagavalli, Professor & Head
- 2. Email: enghodise@theoxford.edu
- 3. Telephone: 9900300877

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- 1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 2. Any other terms deemed necessary for the efficient management of the activity.

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Signatures of concerning officials lilout.

Name: Vipul Anand, Director, Beekoder Tecnologies Pvt Ltd

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Name: Dr. R. Kanagavalli Dat Organization: ISE, The Oxford College of Engineering Designation: Professor & Head

2023. Date

Date: 12)4)2023

Dr. R. KANAGAVALLI PROFESSOR & HOD-ISE The Oxford College Of Engineering Bommanahalli, Hosur Main Soad, Bengaiore 560 068.

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Children's Education Society ® DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website:<u>www.theoxford.edu</u> Email : <u>enghodise@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belgaum)

### REPORT

### Workshop on Innovation and Design Thinking Opportunities in Python & Django

INSTITUTION'S INNOVATION COUNCIL THE OXFORD **Children's Education Society** THE OXFORD COLLEGE OF ENGINEERING EGE OF ENGINEERING BENGALURU, INDIA Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi Approved by A.I.C.T.E. New Delhi, accredited by NBA New Delhi and Recognized by UGC, Hosur Road, Bommanahalli, Bangalore -560068 **Department of Information Science and Engineering** In Association with IIC **Organizing** a Workshop on "Innovation and Design Thinking Opportunities in Python and Django" By **Chief Patron** Dr.. R Kanagavalli Mr.Ankit Tiwari & Mr.Emmanual Smiji President Head of the Department, ISE **Python Technical Trainers** Dr. S.N.V.L Narasimha Raju TOCE **The Oxford Educational Institutions** Date:12/4/2024 From: 10:00 AM - 5:00 PM Dr. N. Kannan **IIC Ambassadors** Dr C. Manjula **Principal & President IIC Prof.** C A Bindyashree **IIC Convener** TOCE **Prof. Bhairavi** TOCE



The Oxford college of Engineering has organized 2days workshop on Application development using Python & Django for third year students of ISE was conducted by **Beekoder Technologies Pvt .Ltd**, on **12/4/2024 .**.A total of 60 students enrolled for this program and 8 faculty members . Total duration of the course was 7 hrs..

All the theory classes &lab practices were held at ISE Seminar Hall ,The Oxford College of Engineering from 10.00 am to 5.00 pm dated 12/4/2024.

The speakers Mr. **Emmanual Smiji** and Mr **Ankit Tiwari** conducted python programming concepts to all students along with how to create web application using python and Django environment. The trainer taught basic programming like checking palindrome, changing the case using predefined functions and explained the file organization concept in Django and how to create web page using python code to all students.

All the trainers have good knowledge in all the programming concepts. All topics were explained well with examples and the classes were interactive. The trainers discussed possible interview questions of every topic and also gave interview tips .

By doing this workshop the students got an understanding of web development in integrated environment.

Student's feedback: Students were satisfied with course content and the way the sessions were conducted.

**faculty feedback:** The speakers discussed the interview questions with the students which will help the students for their placements .Overall the session was good for our third year students.

### **OBJECTIVES:**

- Develop full-stack web sites based on content stored in an RDMS
- Use python data types appropriately
- Define data models
- Understand the architecture of a Django-based web site

### **OUTCOMES:**

- How to create routes (or views) with Django.
- How to serve static content and files using Django.
- How to connect templates with models to serve data dynamically.
- How to create Models and how to connect them with Templates and Views.



### Mr. Emmanual Smiji explaining the python program and photo gallery of workshop conducted

No. of Students participants: **60** No. of Faculties: **8** 

Videolink:<u>https://drive.google.com/file/d/1aFi0\_oTtF-Vub9rMrvqixOAyATX--</u> Ekk/view?usp=sharing

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### List of attendees of the session

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VER PRINCIPAL PRINCIPAL The Oxford College of Engineering Bommanakalli, Hosur Road Bengalure-560 068

### Memorandum of Understanding

Between

### ADJ InfoTech Services PVT. LTD. Veershaivya Nagar, Bharti Vidyapeeth , Solapur

and

The Department of Information Science and Engineering The Oxford College of Engineering, 10th Milestone, Bommanahalli, Hosur Rozd, Bengaluru-560.068.

This Memorandum of Understanding (MOU) between the ADJ InfoTech Services PVT LTD, and Department of Information Science and Engineering of The Oxford College of Engineering, Bengaluru details the modalities and general conditions regarding collaboration between both the partners

#### SCOPE OF MOU 1.

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to a) Mutual training, knowledge sharing, project consultancy and R&D

- activitics of mutual benefit.
- b) Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- c). Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- d) Create Placements, engagement and development opportunities for students through programmes, lectures, seminars, conferences, events, study trips, internships.



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### KEY OPERATION AREAS

The Scope of the MOU can be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately between both parties through a written notification.

- a) Mutual knowledge exchange programs between ADJ InfoTech Services PVT LTD, and TOCE at faculty and research scholar's levels.
- b) Joint project consultancy at prorate basis to handle customers' projects.
- c) Organizing International and National conferences with joint contributions for knowledge sharing and R&D activities.
- d) Organizing workshops and seminars/FDPs for specific skill building.
- c) Focused training to students to bridge the gap between Academia & Industry support for placement of students.

### 3. ACTIVITIES AND OBLIGATIONS OF ADJ InfoTech Services PVT LTD.

ADJ INFOTECH deliver one of the industry's broadest portfolios of information technology and business process outsourcing services to clients in the manufacturing, education services, sports & entertainments, healthcare, communications, energy, transportation, consumer & retail indústries, and to Governments around the World.

IT Consulting & Solution Center Management Consulting Center Business Consulting Center Outsourcing Solutions Government Contract Solutions.

Testing, Usability, Quality testing and user group testing





### STRONG POINTS OF TOCE

- a) Enrolment of students for various technical courses.
- b) Provisioning of the required infrastructure to enable the training and related activities:
  - i. Classrooms'Auditoriums.
  - ii. Audio Visual Systems (Project & Loudspeaker Systems or Individual PCs & Headsets).
  - iii. Qualified faculty members for consultancy projects and research activities.
  - iv. Good laboratories for innovative activities.
  - v. Stable high speed internet connectivity to enable live online classes without any technical glitches.

### 5. GENERAL CONDITIONS

- a) Each party will establish a single point of contact who will serve as the principal interface for his/her respective organization.
- b) Either party may cancel this MOU and any extension thereof by providing the other party with 30-day notice of cancellation. Such cancellation notice shall be sent by certified mail and will be effective 30 days from the date sent. Cancellation of this agreement will have no effect on approved project agreements.
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- b) This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

### 7. AUTHORISED SIGNATORIES

M/s A.D.J. INFOTECH SERVICES PVT. LTD. Veershiavy Nagar, Near Bharti Vidyapeeth. Solapur - 413004

Ms. Jvoti Thengale **Executive** Director ivoti@adjinfotech.com | ivotitarange@gmail.com 9156541760 | 8788556981

Department of Information Science and Engineering The Oxford College of Engineering, 10° Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

Dr. R. Kanagavalli, Professor & Head Email: enghodise@theoxford.edu Telephone: 9900300877

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2. Any other terms deemed necessary for the efficient management of the . ...

Signatures of concerning officials Dato: 29/9/2021 A.D.J. INI-OTECH WICES I CALLED Ms. Jyoti Theugale A.D.J. INFOTECH PVT LTD Executive Director DIDLEC ivoti@adjinfotech.com | ivolilakuma@miail.com . 9156541760 | 8788556981 DIRECTOR Date: 29/19/2021 Name: Dr. R. Kanagavalli Organization: ISE, The Oxford College of Engineering Designation: Professor & Head Dr. R. KANAGAVALLI PROFESSOR & HOD-ISE The Oxford College Of Engineering Bommanahaili, Hosur Main Road. ". Bzngslore 500 068. involution up WARAW.

# **CERTIFICATE OF INTERNSHIP**

This internship program certificate is proudly awarded to

### **Prashanth M**

For Successful completion of internship in "**Python programming** "With grade A from "October 25th 2023 to November 25th 2023" from **The Oxford College of Engineering** with **ADJ Infotech Service Pvt. Ltd**.

Avery Davis CEO

Ashok singhal

**Program Manager** 

### Memorandum of Understanding

Between

### FANTASY TECHNOLOGIES Shop 25,26 R.N. GOLI CELEBRATION COMPLEX ABOVE SBI BANK, ASHOK Chowk - Solapur 413006

and

The Department of Information Science and Engineering The Oxford College of Engineering, 10th Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

This Memorandum of Understanding (MOU) between the Fantasy Technologies, and Department of Information Science and Engineering of The Oxford College of Engineering, Bengaluru details the modalities and general conditions regarding collaboration between both the partners

### 1. SCOPE OF MOU

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- a) Mutual training, knowledge sharing, project consultancy and R&D activities of mutual benefit.
- b) Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
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- c) Focused training to students to bridge the gap between Academia & Industry support for placement of students.

### 3. ACTIVITIES AND OBLIGATIONS OF FANTASY TECHNOLOGIES

Fantasy Technologies deliver one of the industry's broadest portfolios of IT TRAINING INDUSTRY. We have tieups with various academic institutions and industries for catering training programs of technologies. Our BPO/KPO business process outsourcing services to clients in the manufacturing, education services, healthcare, communications, energy transportation, consumer & retail industries, and to Governments around the World.

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IT TRAINING BPO/KPO Consultancy Software Development Outsourcing Solutions Government Contract Solutions

### 4. STRONG POINTS OF TUCE

- a) Enrolment of students for various technical courses.
- b) Provisioning of the required infrastructure to enable the training and related activities:
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  - ii. Audio/Visual Systems (Project & Loudspeaker Systems or Individual PCs & Headsets).-
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  - b) This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

### 7. AUTHORISED SIGNATORIES

FANTASY TECHNOLOGIES 25,26 Shop R.N.Goli Celebration Complex Above SBI ,Ashok Chowk, Solapur-413006



Ms. Jyoti Tarange Founder Directo <u>iyoti@fantsytech.in | iyotitarange@email.com</u> 9156541760 | 8788556981

Department of Information Science and Engineering The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

1. Dr. R. Kanagavalli, Professor & Head Email: enghodise@theoxford.edu Telephone: 9900300877

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- 2. Any other terms deemed necessary for the efficient management of the activity.

Date:

01-702

29/17)202/

Signatures of concerning officials

### FANTASY TECHNOLOGIES

Ms. JYOTI TARANGE FOUNDER DIRECTOR jyoti@fantasytech.in | jyotitarange@gmail.com 9156541760 8788556981

Date: Name: Dr. R. Kanagavalli Organization: ISE, The Oxford College of Engineering Designation: Professor & Head

Ur. R. KANAGAY. PROFESSOR & HOUSS The Oxford College Of Erigin (1994) Bommanahalli, Hosur Main 2006, 6 Bangaloro 560 058.

# CERTIFICATE

THIS IS TO ACKNOWLEDGE AND HONOR

# Fantasy technologies Ms.Aishwarya

This certificate is given for Completing the Internship program in Full Stack Development using Django duration from November 25th to December 23rd 2023.



# CERTIFICATE

# Fantasy technologies Ms. Kapala Jyothi

This certificate is given for Completing the Internship program in Full Stack Development using Django duration from November 25th to December 23rd 2023.



### Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on 15-07-2023 Between

PARTY 1: Department Of ECE, The Oxford College of Engineering, Bangalore and it is represented by Dr Manju Devi, ECE Prof and Head -ECE and Principal Dr. N. Kannan.

PARTY 2: DigiToad Technologies Pvt. Ltd., #617, AB Square, 1st Floor, OMBR Layout, Banaswadi,

### **DETAILS OF MOU:**

1. <u>OBJECTIVE</u>: Industry Institution Interaction & Joint R&D

### 2. SCOPE OF WORK:

- To promote interest in research activities of the institution.
- > Carry out joint research and development to deepen the analysis and understanding of science and technology in the manufacturing sector.
- Perform workshops as and when required. Commercials would be discussed separately.

### 3. ROLES & RESPONSIBILITIES:

- A. To strengthen research excellence at faculty, both graduate and undergraduate student levels.
- B.To meet periodically to review and evaluate the work carried and to work out new ideas for future cooperative agreements.

### 4. Terms and Conditions:

- DigiToad Technologies will arrange / provide:
- Lab facility such as testing, Fabrication and characterization for experimentation.
- Additional man power, if required (but they will be in the roles of company).

### Oxford College of Engineering will arrange / provide:

- The Services of faculty who is an expert person in FBG Sensor for Biomedical Applications and she will be the main contact person for this R&D.
- The Oxford College of Engineering has agreed to provide the service of faculty members towards R&D / Lab Visit/ meeting/conference and attending workshop/ in this R&D Project.
- This MOU shall be valid for a period of two years from the Effective Date and can be

terminated by a notice of six months by either party. As per the need the MOU will be revised for further duration with same terms and conditions or mutually agreeable modifications.

- The MoU will be reviewed by the partnership committee members from time to time and may be amended with the consent of both the parties and thereafter confirmed in writing.
- Both the parties shall agree and acknowledge that no other rights are granted except as explicitly stated here within.
- Neither party shall transfer or assign its Interests, Obligations or Rights in this agreement without the written consent of the party, provided that such consent will not be unreasonably withheld.
- Neither party shall be liable by reason of failure or delay in the performance of its obligation under this MoU if such failure or delay is caused by the acts of God, Strikes, Lockouts, or any other causes beyond its control and without its fault or negligence on mutual agreement.
- Any other arrangements or activities or commitments shall be made on mutually agreed terms.
- Neither party shall disclose confidential and proprietary details to outsider(s), whatsoever.
- By no means, the Institution shall try to contact or entertain the leads from the organization, either directly or indirectly. Non-appearance from the scheduled program will not be entertained.

### 5. Benefits:

Enriching the faculties and students in Automation and to develop research interests among the same in terms of Students Internship.

Party 1: Applicant, Actor of Engineering Frofessor & HOU of Eac Engineering Bommananalli, Bangalore - 560 068

Signature of Head of Institute

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengeluru-560 068 Party 2: Collaborator, Industry







(Approved by AICTE, New Delhi, Accredited by NBA, NAAC-A Grade, New Delhi & Affiliated to VTU, Belgaum)

### **REPORTon Seminar on "Machine Learning Applications for Embedded Systems"**



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TIME	торіс	Hands on Labs
09:00am-10:30 am	Introduction to Embedded AI Systems Design: sensors technology, fundamentals of AI & Machine Learning, IoT applications industry case studies	Labl: Installation of Embedded AI Development toolchain
1:00 nm 12:45 nm	Getting started with ARM Cortex M4 architecture: STM32 Nucko, clock system, ADC	Lab2: Using STM32 GPIO- on board LED & Button
1:00 an+12.45 pm	Lunch Break	Lunch Break
:45 pm – 2:45 pm	Design of Sensor Data Logger: implementation of sensor driver library for datalogging applications, serial communication protocol.	Lab3: Design of a coherent audio sensor signal sampling methodology to implement a datalogger to send data from STM32 to NanoEdge AI Studio
:00 pm – 4:00 pm	STM32 NanoEdge Al Studio: Project parameter selection, sensor signals for library selection, benchmark & optimization, emulator-based training & inference on sensor dataset, library compilation	Project Demo and some applications

INSTITUTIO, INNOVATION COUNCIL EFFECTIVE DATE: This MOU is executed on 05-09-2022 Between

PARTY 1: Department Of ECE, The Oxford College of Engineering, Bangalore and it is represented by Dr. Manju Devi, ECE Prof and Head -ECE and Principal Dr. N. Kannan. And

PARTY 2: The Oxford College of Physiotherapy, 6/9A, 1st cross,Begur Road, Hongasandra, Bengaluru, Karanataka, 560068.

### **DETAILS OF MOU:**

1. OBJECTIVE : Collaborative research between the PG students of The Oxford College of Physiotherapy & B. Tech students of Department of ECE, R&D Center, The Oxford College of Engineering.



### 2. SCOPE OF WORK:

- To promote interest in research activities of the institution.
- > Carry out joint research and development in order to deepen the analysis and understanding of science and technology in the manufacturing sector.
- Perform workshops as and when required. Commercials would be discussed separately.

### 3. ROLES & RESPONSIBILITIES:

- A. To strengthen research excellence at faculty, both graduate and undergraduate student levels.
- B. To meet periodically to review and evaluate the work carried and to work out new ideas for future cooperative agreements.

### 4. Terms and Conditions:

- The Oxford College of Physiotherapy will arrange / provide:
- Lab facility such as testing or providing various subjects for device testing.
- o Students exchange for promote, maintain and increase knowledge in terms of patient physical intervention and health promotion.

### The Oxford College of Engineering will arrange / provide:

- The Services with Dr Preeta Sharan, Dean research who is an expert person in FBG Sensor for Biomedical Applications and she will be the main contact person for this R&D.
- The Oxford College of Engineering has agreed to provide the service of faculty members towards R&D / Lab Visit/ meeting/conference and attending workshop/ in this R&D Project.

- obligation under this MoU if such failure or delay is caused by the acts of God, Strikes, Lockouts or any other causes beyond its control and without its fault or negligence on mutual agreement.
- Any other arrangements or activities or commitments shall be made on mutually agreed terms.
- Neither party shall disclose confidential and proprietary details to outsider(s), whatsoever.
- By no means, the Institution shall try to contact or entertain the leads from the organization, either directly or indirectly. Non-appearance from the scheduled program will not be entertained.

### . Benefits:

Enriching the faculties and students in Automation and to develop research interests among the same in terms of Students Internship.

Mar Atgron Professor & HOD of Engineering Lite Oxford College of Engineering Rommananalli Rangalore-560 000

R.A. Party 2: Collaborator, Academia

PRINCIPAL

The Oxford College of Physiothereas

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The Oxford College of Physiotherapy



### **RESEARCH** POSTING

In collaboration with The Oxford College of Engineering

### **INTERNAL** GUIDE

PROF.R. VASANTHAN Principal, The Oxford College of Physiotherapy

### **EXTERNAL GUIDE**

DR. PREETA SHARAN Dean, R&D, The Oxford College of Engineering

# **STUDENT NAME**

MS. RATHIPRIYA MS. PRIYANKA SUBBA MS. MONALI TAORI Memorandum of Understanding .

# THE OXFORD COLEEGE OF ENGINEERING BENGALURU



AND

# **CONSTRUCTION MANAGEMENT TRAINING** INSTITUTE, BENGALURU





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# **Government of Karnataka**

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Second Party



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Now this agreement witness as follows;

1. The First Party is The Oxford College of Engineering, Bengaluru which is a higher education technical institute, approved by AICTE, affiliated to Vishweshwaryya Technology University, Belagavi, to conduct the technical programs at the college site of <u>http://www.theoxford.edu/engineering/</u>

The Second Party is Construction Management Training Institute situated at Jayanagar, Bengaluru
560011, is into providing employment based value added certified courses for Civil Engineers & Construction professionals for more details <a href="https://www.cmti.co.in/">https://www.cmti.co.in/</a>

3. Both the parties have the common interest of training the students and making them industry ready by the time they come out of the institution. Both the parties believe that close cooperation between the two would be of major benefit to the student community to enhance their skills and knowledge.

4. The First Party shall be providing the infrastructure and other facilities to conduct online trainings seminars, workshops, offline training programs, Practical Trainings

5. The Second Party shall provide assistance in organizing field visits, training the students in various fields, Internships, student projects and any other related programs related to Placements assistance. Second party intended to support with resources from Industries and project works guidance and education on Green Buildings.

6. The Second Party shall support in conducting technical seminars, workshops and conferences etc., organized by the first party on various topics related to industry requirements.

7. The Second Party shall be assisting the students for the placements / Internships / Projects /Entrepreneurship skills

8. The Second Party shall help the First Party to develop the consultancy in the department of civil engineering.

9. This agreement shall come into effect from 07.04.2021

10. The duration of this MOU shall be for period of 5 (FIVE) years from the date of effect, i.e., from 07.04.2021 to 06.04.2026 If not renewed or amended in writing the same shall be considered as expired or terminated.

11. Any alteration, addition or modification in this MOU shall be in writing and signed by both the parties.







12. Any notice, request or other communication required or permitted to be given or made under this agreement to First Party or Second Party, shall be in writing. Such notice or request shall have been given or made when it shall have been delivered by hand, mail with a copy by facsimile to the party to which it is addressed at such party's address specified below or at such other address as such party shall have designed by notice to the party for giving such notice or making such request.

13. The parties hereto acting themselves or through representatives duly authorized, have caused this agreement to be signed in their respective names as of the day &year written above.

### AUTHORISED SIGNATORIES

S.G. MMM

Dr. N. Kannan

Principal The Oxford College of Engineering Bengaluru–560 068.

### Er.S G Ashok Kumar

Founder & CEO

Construction Management Training Institute,

Jayanagar 3rd Block,

Bengaluru - 560011

±\_\_\_\_ℓ

Dr.Amarnath.K

DIRECTOR,

THE OXFORD INSTITUTIONS

BANGALORE



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Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068

Website:www.theoxford.edu

(Approved by AICTE, New Delhi, Accredited by NBA, NAAC-A Grade, New Delhi & Affiliated to VTU, Belgaum)

### REPORT

on

**Exposure Visit to Incubation Centre CMTI, Bangalore** 

THE OXFORD COLLEGE OF ENGINEERING



CHILDREN'S EDUCATION SOCIETY(Regd.,)

Hosur Road, Bommanahalli Bengaluru - 560068



Department of Electronics and Communication Engineering in

One Day Field / Exposure Visit

to Incubation centre

**CMTI**, Bangalore

25/7/2024 1:00 PM ONWARDS

Association with IIC Organizing

Chief Patron Dr. S.N.V.L Narasimha Raju President The Oxford Educational Institutions

Patron Dr. H.N Ramesh Principal The Oxford College of Engineering **IIC President** Dr. Bindhu Madhavi Professor & HOD Dept of AIML The Oxford College of Engineering

**IIC Convener** Dr. Nisha C .Rani Associate Professor Department of Electrical and Electronics Engineering

Convener Dr. Manju Devi **Professor & HOD Department of Electronics** and Communication Engineering

IIC Members Dr. B Srilatha Associate Professor Mrs.Iffat Fatima Asst. Professor **Department of Electronics and Communication Engineering Faculty** Coordinator Dr. Laya Tojo Associate Professor Department of Electronics and Engineering

The Oxford college of Engineering, Bengaluru- Institution Innovation Council in association with Department of Electronics & Communication Engineering organized an Exposure Visit to Central Manufacturing Technology Institute Bangalore on 25th July 2024 from 1:00PM Onwards. Number of students for visit were 30 and 2 faculties accompanied them

### **Objectives of the Event:**

- To Provide significant insights and opportunities that can be instrumental in developing an . incubation center.
- To give exposure to Advanced Manufacturing Technologies.
- To Interact with industry experts, researchers and innovators to open up doors for potential collabrations.

- To team about Industry needs and challenges.
- To Poster Innovation and Creativity.
- In Develop next peneration of innovators for start ups
- To Contribute to the development of an invabation centre by providing exposes to Edvaced manufacturing Technologies.

The resource person has started the presentation by taking students to different take like sensor lab, Calibration lab and IOT lab

- The complete process of sensor manufacturing was exposed to students.
- Practically calibration in nanometre scale was learnt by students.
- Internet Of Things working was clearly explained to students.
- The complete discussion on manufacturing technology was done.
- Knowledge of Industry 4.0 was obtained.

30 participants and 2 faculty members participated in the visit.

### Outcomes of the event:

The students were able to

- Get insights and opportunities that can be instrumental in developing an incubation centre.
- To exposure to Advanced Manufacturing Technologies.
- Interact with industry experts, researchers and innovators to open up doors for potential collabrations.
- Learn about Industry needs and challenges.
- Foster Innovation and Creativity.
- Develop next generation of innovators for start-ups
- Contribute to the development of an incubation centre by providing exposure to Advanced manufacturing Technologies.
Hosin Bogil, Bommanatian Beliphitig - Steering

# Department of Electronics and Communication & numering in

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Social Media Links:

Facebook link: https://www.facebook.com/share/p/pFhbJw3SUPJX4b5X/ Instagram Link

https://www.instagram.com/p/C92DwdoJ6nz/?igsh=bHVwNiW/kysnBiNi2kg



# Children's Education Society (Approved by AICTE,NewDelhi,Accredited by NBA, & Affiliated to VTU,Belagavi-590018)

# **Department of Electronics & Communication Engineering**

Exposure Visit to CMTI, Bangalore on 25th July 2024 from 1:00 PM

# **Attendance Sheet**

C1	Name	Designation	Department	Signature
SI no		Ctudant	ECE	HUS
1	Santosh P Meti	Student	ECE	Bug
2	Sunil Kumar S K	Student	ECE	Nal
3	Varsha V	Student	ECE	Punto
4	Parvati vali	Student	ECE	S.
5	Sanjana Benkal	Student	ECE	2000
6	Varun	Student	ECE	1 Dans
<u> </u>	Promodh H S	Student	ECE	100
/	Tallouin II S	Student	ECE	Cual Con
8	Vikas Varunan Si	Student	ECE	Sent
9	Shifa Siddiqa	Student	ECE	Varia
10	Varsha T N	Student	ECE	lat
11	Vishwa	Student	FCE	Sous
12	Samrudhi Ravi Patki	Student	ECE	Cour
12	Rakesh	Student	ECE	The
15	Thamonuthan C	Student	ECE	Saile
14		Student	ECE	Sed
15	Sunasilii V	Student	ECE	10-1
16	Shivashankar	Student	ECE	- Usa
17	Vedant Ramesh Nidolii	Student	ECE	- Prov
18	Pavan Kumar K S	Guident	ECE	USU
10	Sharan S D	Student	FCE	Sime
19	Smanidhi B S	Student	ECE	Such
20	Sreeman 2 -	Student	ECE	Ser
21	Sindhu K	Student	ECE	
22	Sneha Jagadish Kaucinani			

	Shubham Mote	Student	FCF	
24	Shashank Shekhar	Student	ECE	States -
25	Vikas H U	Student	ECE	
26	Rajma Dambal	Student	FCF	
27	Spoorthi M	Student	FCF	
28	Yasmeen M S	Student	FCF	- Caller
29	Shashank M S	Student	RCR	- 1. V-
30	Ruchita B L	Student	FCF	
31	Iffat Fatima	Faculty	ECE	AIL
32	Dr.Laya Tojo	Faculty	ECE	Taya

Re Coordinators



Profésserauxecter ESC Engineering The Oxford A pluge of Engineering

Nishe Cham **IIC Convener** 

The Oxford Kick ge of Engineering Bommananalii, Bangalore - 560 068

Principal

PRINCIPAL The Oxford College of Engineering Bornmanahalli, Hosur Road Bengaluru-560 068

#### **Memorandum of Understanding**

EFFECTIVE DATE: This MOU is executed on 05-10-2023

Between

PARTY 1: The Oxford College of Engineering, Bangalore and it is represented by Dr N Kannan, Principal & Head of the Institution.

And

PARTY 2: Bevywise Networks. 43/S6, Shah Complex, Palayamkottai, Tirunelveli, Tamilnadu -627002

#### **DETAILS OF MOU:**

1. OBJECTIVE: To enable students to innovate in the area of Internet of Things (IoT)

#### 2. SCOPE OF WORK:

- To promote interest in research activities of the institution.
- > Carry out joint research and development in order to deepen the analysis and understanding of science and technology in the manufacturing sector.
- Perform workshops as and when required. Commercials would be discussed separately.

#### 3. ROLES & RESPONSIBILITIES:

- A. To strengthen research excellence at faculty, both graduate and undergraduate student levels.
- B. To meet periodically to review and evaluate the work carried and to work out new ideas for future cooperative agreements.

#### 4. Terms and Conditions:

- Bevywise Networks will provide:
- IoT applications & tools in the lab facility for learning or to do their real-time projects
- $\circ$  Guidance or support to promote, maintain and increase knowledge in terms of IoT application development.

# Oxford College of Engineering will arrange / provide:

The Services of faculty who is an expert person in IoT (Internet of Things) and she will be

- the main contact person for this R&D. The Oxford College of Engineering has agreed to provide the service of faculty members
- towards R&D / Lab Visit/ meeting/conference and attending workshop/ in this R&D
- Practice which will include research, education and consultation to carry out projects in R
- This MOU shall be valid for a period of two years from the Effective Date and can be terminated by a notice of six months by either party. As per the need the MOU will be

revised for further duration with same terms and conditions or mutually agreeable

- The MoU will be reviewed by the partnership committee members from time to time and maybe amended with the consent of both the parties and thereafter confirmed in writing.
- Both the parties shall agree and acknowledge that no other rights are granted except as explicitly stated here within.
- Neither party shall transfer or assign its Interests, Obligations or Rights in this agreement without the written consent of the party, provided that such consent will not be unreasonably withheld.
- Neither party shall be liable by reason of failure or delay in the performance of its obligation under this MoU if such failure or delay is caused by the acts of God, Strikes, Lockouts or any other causes beyond its control and without its fault or negligence on mutual agreement.
- Any other arrangements or activities or commitments shall be made on mutually agreed terms.
- Neither party shall disclose confidential and proprietary details to outsider(s), whatsoever.
- ✤ By no means, the Institution shall try to contact or entertain the leads from the organization, either directly or indirectly. Non-appearance from the scheduled program will not be entertained.

#### 5. Benefits:

Enriching the faculties and students in Automation and to develop research interests among the same in terms of Students Internship.

Party 1: Applicant, Dean Research (Dr. Presta Sharen

(SARAVANAKUMAR) y 2: Collaborator, Company

Signature of Head of Institute

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068



#### **INTERNSHIP CERTIFICATE**

This is to certify that Miss Rakshitha S, a student of B.E. in Artificial Intelligence and Machine Learning from The Oxford College of Engineering, underwent an Internship Training on IoT and Data Analytics at our Organization from 01/11/2023 to 30/11/2023.

Throughout this period, her commitment and performance were commendable, and her conduct was exemplary. We extend our best wishes for her future pursuits.

M. Flerre

HEMA M Program Manager Bevywise Networks



# OUAD POWER SYSTEMS



Mfrs. of: Power Products SMPS, Battery Chargers, LED Drivers, PCB Design, R & D Projects, We also do Embedded Design & IOT Projects GSTIN: 29AAAFQ4847P1ZI

EFFECTIVE DATE: This MOU is executed on 20-05-2022 between

PARTY 1: Department Of ECE, The Oxford College of Engineering, Bangalore and it is represented by Dr Manju Devi, ECE Prof and Head -ECE and Principal Dr. N. Kannan.

Memorandum of Understanding

And

PARTY 2: Quad Power Systems, #67,5th cross, J.C industrial, Govardhana Garden, Off Kanakapura Main Road, Bangalore-560062.

#### DETAILS OF MOU:

1. OBJECTIVE: Industry Institution Interaction & Joint R&D

#### 2. SCOPE OF WORK:

- To promote interest in research activities of the institution.
- Carry out joint research and development in order to deepen the analysis and understanding of science and technology in the manufacturing sector.
- Perform workshops as and when required. Commercials would be discussed separately.

## 3. ROLES & RESPONSIBILITIES:

- A. To strengthen research excellence at faculty, both graduate and undergraduate student levels.
- B. To meet periodically to review and evaluate the work carried and to work out new ideas for future cooperative agreements.

#### 4. Terms and Conditions:

Quad Power Systems will arrange / provide:

- Lab facility such as testing, Fabrication and characterization for experimentation.
- Additional man power, if required (but they will be in the roles of company).

### Oxford College of Engineering will arrange / provide:

The Services of faculty who is an expert person in FBG Sensor for Biomedical Applications



# 67, 5th Cross, J.C. Industrial Area, Govardhan Garden, off Kanakapura Road, Banga Hote - 560 062 8277308898 98456 02894 | Email : guadpowersvs@gmail.com w anowersvs.com Mohile

and she will be the main contact person for this R&D.

- The Oxford College of Engineering has agreed to provide the service of faculty members towards R&D / Lab Visit/ meeting/conference and attending workshop/ in this R&D
- This MOU shall be valid for a period of two years from the Effective Date and can be terminated by a notice of six months by either party. As per the need the MOU will be revised for further duration with same terms and conditions or mutually agreeable
- The MoU will be reviewed by the partnership committee members from time to time and maybe amended with the consent of both the parties and thereafter confirmed in writing.
- Both the parties shall agree and acknowledge that no other rights are granted except as
- Neither party shall transfer or assign its Interests, Obligations or Rights in this agreement without the written consent of the party, provided that such consent will not be
- ✤ Neither party shall be liable by reason of failure or delay in the performance of its obligation under this MoU if such failure or delay is caused by the acts of God, Strikes, Lockouts or any other causes beyond its control and without its fault or negligence on
- Any other arrangements or activities or commitments shall be made on mutually agreed
- Neither party shall disclose confidential and proprietary details to outsider(s), whatsoever.
- By no means, the Institution shall try to contact or entertain the leads from the organization, either directly or indirectly. Non-appearance from the scheduled program will not be entertained.

#### 5. Benefits:

Enriching the faculties and students in Automation and to develop research interests among the same in terms of Students Internship.

Party 1: Applicant, Academia HOD of E&C Engineerfronty 2: Collaborator, Industry

He Oxford College of Engineering Bommananalli, Bangal**e**re-560 068

Signature of Head of Institute

PRINCIPAL fhe Oxford College of Engineering Bommanahalli, Hosur Road Bergaluru-560 068





# CERTIFICATE

OF INTERNSHIP PRESENTED TO

# HITESH S

For completing INTERSHIP from 25-10-23 to 30-11-23 on DESIGN AND FABRICATION OF PCB Organized by QUAD POWER SYSTEMS



GenEd Technologies



#### MEMORANDUM OF UNDERSTANDING

## GenEd Technologies

GenEd focuses on Education for Engineering students. We focus on teaching various technical concepts along with courses to the students of Electrical and Electronics Engineering (EEE) and Electronics and Communication Engineering (ECE). GenEd is located at #26 First Floor, 3<sup>rd</sup> cross, Mangammanapalya Main Road, Bommanhalli, Bengaluru, Karnataka 560 068

#### The Oxford College of Engineering

The Oxford College of Engineering (TOCE) The Oxford College of Engineering is one of the most prestigious institutions in Bengaluru that provides quality teaching and training in professional courses in various streams of Engineering, post graduate programs in Technology (M Tech), Computer Application (MCA) and in Business Administration (MBA) and Research (Ph.D). TOCE is located at 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068.

The scope of the MoU, roles and responsibilities of the parties of the MoU are given below:

#### MOU WITNESSETH AS FOLLOWS:

#### 1. Activities

This MoU outlines a strategic initiative between DB and TOCE, to establish industry academia interactions through which the below activities are carried

- I. Involve & promote the projects & research on latest technologies.
- II. Organise sector specific programs for students & faculty .
- III. Offer joint certification courses for learners from Industry & academia.
- IV. Support students to get internship opportunities.
- V. Provide career guidance & support for employment.
- VI. Create & scope curriculum to industry activities.
- VII. Support students to participate in project based learning & competitions.
- VIII. Tech various technical training courses in form of workshop or courses to the students.







This is a strategic initiative and requires the total commitment from GenEd and TOCE. And k term engagement to expect quantifiable outcomes.

## 2. Scope and Responsibilities

- MoU will help and engage students from department of Electrical & Electronics Engineering.
- II. GenEd will provide industry based projects, which can impact students to gain career and also to develop the core technical competency to face challenges at career.
- III. TOCE will co-ordinate for the activities under the calendar of events.

#### 3. Benefits to TOCE& Departments

- L Support students to involve in projects with industry guidance.
- II. Companies for placement activities.
- III. Bridge industry and academics gap.
- IV. Access to interact with expertise trainers from industry.
- V. In-house/external internship will fulfil the career encouraging skills.
- VL Opportunity for students to avail certification courses or training from GenEd.

#### 4. Benefits to GenEd

- L Creation of talented resource repository to outsource.
- II. Grow together to become accreditation authority for skill training .

#### 5. Relationship between the parties

I. Neither TOCE nor GenEd is or will be an agent or legal representative or partner of the other. Neither of them is or shall be an employee or franchisee of the other, nor does this MoU create a joint venture or any similar relationship between them.





#### Summary

GenEd & TOCE recognize the significance of this MoU to involve students in industry interactions to support for employment through the activities. Both the parties will dedicate their effort to impact the career for every aspiring student.

This MoU express the broad understanding between the parties regarding their responsibilities and scope of work.







#### THE OXFORD COLLEGE OF ENGINEERING

 $10^{\rm TH}$  Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068 (Approved by AICTE New Delhi, Accredited by NAAC A, New Delhi, Affiliated to VTU



#### Department of Electrical & Electronics Engineering Organized a Two Days Workshop on "Innovation & Design Thinking Ideas using Raspberry PI"

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Department of Electrical & Electronics Engineering					
िविधा संबंध जासत	Instit	n Association with t autions Innovation C	ne council		
		Organizing a			
Inne	vetion 9 Decim	Workshop on	e weiner Beenheum: DI		
Inno	ovation & Design	i i ninking idea	is using Raspberry Pl		
Resourc	e Person		Date & Time		
Mr.K Uday	Bhargav		28.05.2024 & 29.05.2024		
Director GenEd Proud Alumn A Entre	Technologies, us of TOCE & preneur	- A	10:00 AM Onwards		
Chief Patron	Principal & President IIC	IIC Coordinator	Convenor Faculty Coordinators		
Dr. S.N.V.L Narasimha Raju Chairman, The Oxford Educational Institutions, Bangalore	Dr.Kannan N Principal The Oxford College of Engineering	Dr.Bindhu Madhavi HOD AIML The Oxford College of Engineering	Dr.B.Devi Vighneshwari     Dr.Nisha C Rani       Associate Prof &     Prof.Resna S R       HOD Incharge     Assistant Professor       Dept of EEE     Dept of EEE       TOCE     TOCE		

Department of Electrical and Electronics Engineering, The Oxford College of Engineering, Bengaluru in association with Institution Innovation Council organized a two days workshop on "Innovation & Design Thinking Ideas using Raspberry PI" on 28/05/2024 & 29/05/2024 from 10:00AM onwards in offline mode.

Venue: 5<sup>th</sup> floor Room New Building N513,TOCE & EEE Lab 2

#### **OBJECTIVES:**

- Introduce participants to the design thinking process, emphasizing empathy, ideation, prototyping, and iteration. Encourage them to approach problem-solving with a user-centric mindset.
- Facilitate hands-on activities where participants can work on Raspberry Pi projects that encourage creativity and innovation. These projects should be designed to address real-world problems or challenges.
- Foster collaboration among participants by assigning group projects that require teamwork and cooperation. Encourage them to brainstorm ideas, share expertise, and leverage each other's strengths.

• Guide participants through the process of prototyping their ideas using Raspberry Pi and other components like sensors, actuators, and peripherals. Emphasize the importance of rapid prototyping and learning from failure.

By aligning the workshop objectives with these key areas, participants can gain valuable insights into innovation, design thinking, and Raspberry Pi technology while developing practical skills and fostering creativity. It also educate the participants about current market trends, emerging technologies and empowering them to make informed decisions about their career paths and entrepreneurial endeavours It was organized for the 4th Semester students. Number of Students Participated: 57

Faculty: 05

#### Agenda of the workshop:

- Introduction to Raspberry Pi and Design Thinking
- Introduction to Raspberry Pi Hardware and Software Setup
- Working on Simulation & Hardware
- Hands-on Workshop: Building Basic Raspberry Pi Projects

#### Face book Link:

https://www.facebook.com/photo/?fbid=474482768437105&set=a.17741839 8143545

You Tube Link: https://youtu.be/Bq0jLt\_y1I0 Photos of the Event:

#### **Day 1:**





**Day 2:** 







#### **Outcome**

The workshop on "Innovation & Design Thinking Ideas using Raspberry PI" organized by the EEE Department, TOCE, served as a platform to empower electrical engineers with the knowledge, skills, and confidence to explore diverse career opportunities, pursue entrepreneurial ventures, and make meaningful contributions to the field.

- Participants are able to apply design thinking ideas in Raspberry Pi based projects.
- Participants developed critical thinking skills necessary for analyzing complex problems, identifying challenges evaluating solutions and making informed decisions for their projects developed using Raspberry PI.
- Participants developed practical design thinking experience in building and iterating prototypes using Raspberry Pi and other hardware components.
- Participants collaborate effectively in teams, sharing ideas, skills, and resources to create innovative Raspberry Pi projects.

S.N	9 USN	Name of the Student	Signature of the Student
1	1OX22EE001	Ajay R	
2	1OX22EE002	Apoorva B T	Mon
3	1OX22EE003	Arun R Venkatapur	Apocouran
4	1OX22EE004	Balabheem	(V)
5	1OX22EE005	Bhavya G	Alto I alto
6	1OX22EE006	Gagan Raj D	1-1000 Pay
7	10X22EE007	Gayathri S	(in rethouse
8	10X22EE008	Harshitha B	Hun
9	1OX22EE009	Hemanth K Gowda	A
10	IOX22EE010	JumanDuwarah	From
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12	1OX22EE012	Justin B David	- fuiter
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Na say IIC Innovation Ambassadors 8/0 HOD/EEE IIC Convenor President IIC PRINCIPAL Institutions Innovation Council f ne Oxford College of Engineering The Oxford College of EngineeringBommanahalli, Hosur Road Bengaluru-560068 Bengaluru-560 068 3

# **QUAD POWER SYSTEMS**



Mfrs. of: Power Products SMPS, Battery Chargers, LED Drivers, PCB Design, R & D Projects, We also do Embedded Design & IOT Projects

#### Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on 20-05-2022 between

PARTY 1: Department Of EEE, The Oxford College of Engineering, Bangalore and it is represented by Dr Bharath V S, EEE Prof and Head -EEE and Principal Dr. N. Kannan.

#### And

PARTY 2: Quad Power Systems, #67,5th cross, J.C industrial, Govardhana Garden, Off Kanakapura Main Road, Bangalore-560062.

#### DETAILS OF MOU:

1. OBJECTIVE: Industry Institution Interaction & Joint R&D

#### 2. SCOPE OF WORK:

- > To promote interest in research activities of the institution.
- Carry out joint research and development in order to deepen the analysis and understanding of science and technology in the manufacturing sector.
- Perform workshops as and when required. Commercials would be discussed separately.

#### 3. ROLES & RESPONSIBILITIES:

- A. To strengthen research excellence at faculty, both graduate and undergraduate student levels.
- **B.** To meet periodically to review and evaluate the work carried and to work out new ideas for future cooperative agreements.

#### 4. Terms and Conditions:

Quad Power Systems will arrange / provide:

- o Lab facility such as testing, Fabrication and characterization for experimentation.
- Additional man power, if required (but they will be in the roles of company).

#### Oxford College of Engineering will arrange / provide:

The Services of faculty who is an expert person in FBG Sensor for Biomedical Applications





and she will be the main contact person for this R&D.

- The Oxford College of Engineering has agreed to provide the service of faculty members towards R&D / Lab Visit/ meeting/conference and attending workshop/ in this R&D Project.
- This MOU shall be valid for a period of two years from the Effective Date and can be terminated by a notice of six months by either party. As per the need the MOU will be revised for further duration with same terms and conditions or mutually agreeable modifications.
- The MoU will be reviewed by the partnership committee members from time to time and maybe amended with the consent of both the parties and thereafter confirmed in writing.
- Both the parties shall agree and acknowledge that no other rights are granted except as explicitly stated here within.
- Neither party shall transfer or assign its Interests; Obligations or Rights in this agreement without the written consent of the party, provided that such consent will not be unreasonably withheld.
- Neither party shall be liable by reason of failure or delay in the performance of its obligation under this MoU if such failure or delay is caused by the acts of God, Strikes, Lockouts or any other causes beyond its control and without its fault or negligence on mutual agreement.
- Any other arrangements or activities or commitments shall be made on mutually agreed terms.
- Neither party shall disclose confidential and proprietary details to outsider(s), whatsoever.
- By no means, the Institution shall try to contact or entertain the leads from the organization, either directly or indirectly. Non-appearance from the scheduled program will not be entertained.

#### 5. Benefits:

Enriching the faculties and students in Automation and to develop research interests among the same in terms of Students Internship.

Party 1: Applicant, Academia

Signature of Head of Institute

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068 Professor & Head EEE The Oxford College of Enge Bommanahalli, Hosur Road Bangalore- 500 068

Party 2: Collaborator, Industry







# MEMORANDUM OF UNDERSTANDING FOR INDUSTRY & ACADEMIC INTERACTIONS

#### VISION

MoU is committed to continually developing learning opportunities and upgrading to the ever changing demands of the industry. MoU will be an element of the strategic direction to academics to create industry pertinent courses and resources for delivery. And an element to connecting with industries to provide students with access to world-class training facilities, technology, practice and teaching staff.





#### INDIA NON JUDICIAL

#### **Government of Karnataka**



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THE OXFORD COLLEGE OF ENGINEERING, Bommanahalli, Hosur main Road, Bengaluru, Karnataka, India, as the first party, hereafter referred as "Institution" (which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its administrators, liquidators, successors and permitted assigns) herein referred as Party1;

#### AND

SCIOmics, located at 279/C1, Vyas Complex, State Bank Lane, Commercial Road, Udhagamandalam, The Nilgiris - 643001, Tamil Nadu (which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its administrators, liquidators, successors and permitted assigns) represented by CEO (Mr. Vivek Chandramohan) and herein referred as Party2;

Together Party1 and Party2 referred as Parties;

WHEREAS, Institution is an educational institution, properly recognized by the Government of India with faculty and participating students and with state-of-the-art infrastructure/facilities, including laboratories, equipment required for Research and Development;

WHEREAS SCIOmics provide training (Virtual and offline) and services-based Bioinformatics and OMICS data analysis company involved in the research and development of products and services in the field of Molecular Docking and Dynamics, Next Generation Sequencing, Tool Development services.

**SCIOmics** agrees to offer a package of academic interface programme containing the following for the **Biotechnology department of Party1**.

S.No.	ITEM DESCRIPTION		
1	Curriculum development for Department of Biotechnology Engineering		
2	Internship, Workshops and, Value Added programs facility for Biotechnology Engineering students		
3	Collaborative research work in the areas relevant to SCIOmics		
4	Help to organise Technicai Events		

Party1 agrees to provide: Many count lege of The Oxfo alli. Hosur ngaluru-560 068



S. NO.	ITEM DESCRIPTION
1	Infrastructural facilities and local hospitality for the activities at the institute.
3	Active participation of the faculty in the collaborative research work relevant SCIOmics

NOW THIS MEMORANDUM OF UNDERSTANDING WITNESSED AND IT IS HEREBY AGREED AND UNDERSTOOD BETWEEN THE PARTIES HERETO AS UNDER:

#### **CLAUSE 1 - CO-OPERATION**

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.2 Both the parties' co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of the Institution providing significant inputs to them in developing suitable research design and development in advanced computing and computer learning systems, keeping in mind the needs of the Corporate Social responsibilities of the Company, SCIOmics.

#### CLAUSE 2 - SCOPE OF THE MOU

2.1 Both Parties have agreed that the Institution shall support the COEAC by providing students and faculty to carry out the research activities in conjunction with the staff and advisers of COEAC.

2.2 There is no financial commitment on the part of Institution to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately. The institution might optionally provide work space and infrastructure support including computer, servers and storage for the use of the students and faculty to be used for the research.

2.4 SCIOmics shall appropriately compensate or pay remuneration to the faculty and students for their research work and creation of intellectual property and is outside the scope of this MoU.

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#### **CLAUSE 3 - INTELLECTUAL PROPERTY**

IPR titles or ownership of any products, proprietary information or technology tools, processes, utilities and methodology including any **SCIOmics** proprietary products or components thereof used hereunder or development of any deliverables and all new ideas, inventions, innovations, or developments conceived, developed or made by **SCIOmics** hereunder will not be transferred from **SCIOmics** to Party1 on account of use of the same as part of any work under this Agreement nevertheless **Party1** and **SCIOmics** follow following terms and conditions:

- 1. If more than 75% work done at SCIOmics IPR always remains with SCIOmics.
- 2. If Party1 contributes 50% of works then IPR will remains with both parties.
- 3. If 40% of work done by SCIOmics and 60% of work done by Party1 then IPR remains with Party1.

However, in all the cases mentioned above, the Party1 shall have a royalty free, non-exclusive, irrevocable license to copy/use IP for research and educational purposes.

CLAUSE 4 - DURATION OF MOU AND TERMINATION

4.1 This MoU will come into force upon affixing of the signatures of the both parties and will remain in effect for two years. This MoU may be renewed upon its expiry, with the agreement of both parties.

4.2 If either party wishes to terminate the MoU at the end of the two years, it must notify the other party not less than two months before the expiry of the MoU.

4.3 This MoU or its renewal and the actions taken under it may be reviewed at any time. Modifications may be made by mutual agreement, and any amendment or extension to the agreement may be formalized by the exchange of letters between the two parties.

#### **CLAUSE 5 - RELATIONSHIP BETWEEN THE PARTIES**

5.1 It is expressly agreed that both the parties are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

5.2 Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the terms of the other Party.

Party's credit, or to extend credit on behalf of the other Party.

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SELVICE

## CLAUSE 6 DISPUTES AND SETTLEMENT

6.1 The parties shall endeavour to settle any dispute or claim arising out of or in relation to this MoU through amicable discussions. If not amicably settled within sixty (60) days of the notification of a dispute by a party or claim arising, such dispute or claim shall be decided by a sole arbitrator to be appointed by the parties mutually.

IN WITNESS WHEREOF, the parties have executed the MoU on the day, month, and year first written above, in the presence of the following witnesses

For and on behalf of THE OXFORD COLLEGE For and on behalf of SCIOmics OF ENGINEERING, Bommanahalli, Hosur main Road, Bengaluru, Karnataka, India 1. Dr.N.Kannan, Principal, The Oxford College Mr. Vivek Chandramohan of Engineering.

> PR The Oxford College of Engine Bommanahalli, Hosur Road Bengaluru-560 068

uðiattleaud Professor & Head, ାର୍ଚ୍ଚତିହେମନ୍ତ୍ର The Oxford gineering



279/C1, Vyas Complex State Bank Lane, Commercial Road, Udhagamandalam, The Nilgiris - 643001, Tamil Nadu

	THE OXFORD COLLEGE OF ENGINEERIN	G
	DEPARTMENT OF BIOTECHNOLC	)GY
Liter and Ming	According by NBA & NAAC "A" Grade, New Delhi	& Affiliated to VIU, Belgauin)
(Approved by AICTE	, Accredited by NDA & William P	Dated: 27.02.2024

Dated: 27.02.2024

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From Dr. B.K. Manjunath, Professor & Head, Department of Biotechnology, TOCE.

To The Principal, TOCE.

Respected Sir,

Subject: Requisition to conduct two days' workshop on R-programing and Biopython for biologist on 4<sup>th</sup> & 5<sup>th</sup> March 2024 Reg,

With reference to the above subject, I am herewith bringing it to your kind notice that; we would like to organize two days hands on work shop on R-programing and Biopython for biologist for 5th sem students. Dr. Vivek Chandramohan, CEO of SCIOmics, Ooty, Tamilnadu will take the session on 4th and 5th of March 2024. Kindly permit and do the needful. In this regard we request you to sanction an amount of Rs 10,000/- for the same and also kindly permit us to conduct the event. F.

Expenditure details

S.No	Particulars	Amount
1	Honorarium for Speaker, for	10,000
	Two days	

Thanking you,

Your's sincerely,

junatha)

**Dr. B.K MANJUNATHA** Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

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### EXPERT TALK ON "STARTUP OPPORTUNITY IN BIOPYTHON"



The Oxford college of Engineering, Bangalore- Institution Innovation Council in association with the Department of Biotechnology, TOCE organized an Expert Talk on "STARTUP OPPORTUNITY IN BIOPYTHON" on 4<sup>th</sup> March 2024 from 10.00 A.M to 12.00 A.M in the Department of Biotechnology.

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The Resource person was Vivek Chandramohan, CEO of SCIOmics, Ooty. Vivek Chandramohan is currently heading Sciomics at Ooty, prior to this, he worked as an Assistant Professor in the Department of Biotechnology of SIT, Tumkur. He was working as Senior Bioinformatics Analyst at Aetitea Life Sciences Research Ltd, Chennai. His area of interests is Genomics and Proteomics (Cancer Genomics and Metabolomics), Next Generation Sequencing and Big data analysis (Cloud Computing), Molecular modelling and Drug designing. He has received several awards and has 51 publications with a noted publication of reputed journals like

Nature scientific report, Journal of structure and dynamics and 1 patent filed to his credit. He is working with people from many national and international universities. He has delivered more than 50 guest lectures from various colleges. He has attended and participated in more than 12 than 50 guest lectures from various colleges. He has attended and won 3rd prize at The 13<sup>th</sup> national and international conferences, He received travel award and won 3rd prize at The 13<sup>th</sup> Annual MCBIOS (MidSouth Computational Biology and Bioinformatics Society) Conference – March 3-5. 2016 organized by Memphis University, Memphis, Tennessee. United States of America (USA). He received a travel award for Oral Presentation at First UAEU Symposium on Biological Sciences, United Arab Emirates University, Dubai on November 13-15 2016. He has a professional membership of Chemical Science Transactions and Human proteome organization (HPO).

#### **OBJECTIVES:**

- To starting a venture in BioPython can be a promising opportunity given the increasing importance of bioinformatics and computational biology in life sciences research.
- To create new bioinformatics tools or improve existing ones using Python programming language. These tools could facilitate tasks such as sequence analysis, structural biology, phylogenetics, and more.
- To offer customized software solutions tailored to the specific needs of research labs, biotech companies, or pharmaceutical firms.
- To integrate BioPython with other bioinformatics tools and databases to create seamless workflows.

The Department of Biotechnology, TOCE organized an Expert Talk on "STARTUP OPPORTUNITY IN BIOPYTHON" on 4<sup>th</sup> March 2024 from 10.00 A.M to 12.00 A.M in the Department of Biotechnology. The expert talk was organized to provide practical insights and hands-on experience, covered a range of topics to ensure a comprehensive understanding of Biopython. The Speaker focused on Biopython Programming, introducing participants to the fundamentals of data analysis, visualization, and statistical modeling using python. Practical sessions allowed students to apply their knowledge and explore the practical applications of python in various domains. The talk equipped participants with the ability to manipulate data, create visualizations, and perform statistical analyses using the python language. Participants are introduced to the fundamentals of programming in Biopython. This includes understanding the syntax, data structures, and key functions used for biological data analysis. The speaker may provide examples to illustrate basic programming concepts within the context of bioinformatics. The session delves into sequence analysis using Biopython. Participants learn how to read, manipulate, and analyze biological sequences, such as DNA, RNA, and protein sequences. Practical exercises involve tasks like sequence alignment, translation, and searching for motifs or patterns. Participants explore how Biopython can be used to work with molecular structures, such as protein structures obtained from PDB files.

The session covers various techniques for handling bioinformatics data efficiently. This includes reading and writing different file formats commonly used in bioinformatics, parsing data from databases like GenBank or UniProt, and performing data manipulation and transformation tasks. Hands-on exercises provide participants with the opportunity to apply their newly acquired skills to real-world biological datasets. These exercises are carefully designed to reinforce concepts learned during the session and encourage active engagement and problem-solving. The session concludes with a Q&A session where participants can seek clarification on any topics covered during the talk or exercises. The speaker may also provide additional resources for further learning and exploration of Biopython and bioinformatics.

39 Students participated in the expert talk and made the event successful.

#### **OUTCOME**:

The course outcomes were evident as students demonstrated proficiency in R Programming and Biopython by the end of the workshop. They gained practical skills in data analysis, statistical modeling, and bioinformatics applications, empowering them to apply these programming languages in their academic and research pursuits. The expert talk successfully provided a platform for students to broaden their programming knowledge and enhance their capabilities in data analysis and bioinformatics using Biopython. By providing participants with a hands-on understanding of Biopython and its applications in bioinformatics research, this expert talk equips them with valuable skills and knowledge that can enhance their proficiency in computational biology and related disciplines.



#### Instagram:

 https://www.instagram.com/p/C4K1pH8rV0H/?igsh=bWwyaWpiZWRtajNy

 Youtube Link:

 https://youtu.be/3vu\_JVm2Imo

 Facebook:

 https://www.facebook.com/share/p/thNwX53PpHuzkWyX/?mibextid=xfxF2i

 Recording link:

 https://youtu.be/3vu\_JVm2Imo

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PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

IIC Coordinatour. B.K. HOP IIC Convener Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 008.

# ATTENDANCE SHEET

# Expert Talk on "StartUp Opportunity in BioPython"

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Resource Person: Mr Vivek Chandramohan Designation: CEO, SCIOmies, Ooty, Tamil Nadu Date: 04/03/2024 Time: 10.00 A.M

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S1.	USN /	Name	Department	Signature
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Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF BIOTECHNOLOGY

(Approved by AICTE & Accredited by NBA & NAAC, New Delhi & Affiliated to VTU, Belgaum)

#### Report on "WORKSHOP ON R PROGRAMMING AND BIOPYTHON FOR BIOLOGISTS"

#### 4/3/2024 TO 5/03/2024

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IMPACT ANALYSIS

Sl.	Торіс	GAP addressed
<b>No</b> 1.	Workshop on R programming and Biopython for Biologists	Data analysis using R and Biopython

SI.	Торіс	<b>PO/PSO</b> Mapping
No		DO(1.0.2.5.0.12)
1.	Workshop on R programming and Biopython for	PO(1,2,3,5,9,12)
	Biologists	PSO(1,2)
	<u> </u>	



The Department of Biotechnology, The Oxford College of Engineering, Bangalore had organized Two days Workshop on R Programming Biopython for Biologists" form 4/5/24 to 5/5/24 by Mr.ViveK ChandraMohan, Sciomics,Ooty and The workshop was organized to provide practical insights and hands-on experience, covered a range of topics to ensure a comprehensive understanding of R Programming and Biopython.

The first day of the workshop focused on R Programming, introducing participants to the fundamentals of data analysis, visualization, and statistical modeling using R. Practical sessions allowed students to apply their knowledge and explore the practical applications of R in various domains. The course equipped participants with the ability to manipulate data, create visualizations, and perform statistical analyses using the R language.

On the second day, the workshop shifted its focus to Biopython, a powerful tool for bioinformatics applications. Participants were introduced to the basics of Biopython programming, including sequence analysis, molecular structure manipulation, and bioinformatics data handling. Practical exercises allowed students to work with real-world biological data, fostering a hands-on understanding of how Biopython can be applied in bioinformatics research.

#### Outcomes:

The course outcomes were evident as students demonstrated proficiency in R Programming and Biopython by the end of the workshop. They gained practical skills in data analysis, statistical modeling, and bioinformatics applications, empowering them to apply these programming languages in their academic and research pursuits. The workshop successfully provided a platform for students to broaden their programming knowledge and enhance their capabilities in data analysis and bioinformatics using R and Biopython.




#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN



#### THE DEPARTMENT OF BIOTECHNOLOGY, THE OXFORD COLLEGE OF ENGINEERING, Bommanhalli, Bengaluru-560068

AND



#### AZYMES BIOSCIENCES PVT LIMITED # 1188/20,3rd Floor, 26th Main Rd, opp. Ragigudda Temple Arch, Jayanagara 9th Block, Jayanagar, Bengaluru, Karnataka 560069

This MoU is executed on 14- JULY -2022 between THE DEPARTMENT OF BIOTECHNOLOGY, THE OXFORD COLLEGE OF ENGINEERING, a premier centre of Excellence, herein after referred to as "**TOCE**" which expression shall mean and include repugnant to context hereof, its successor-ininterest, administrators and assigns

#### AND

Between AZYMES BIOSCIENCES PVT LIMITED, hereinafter referred to as "**ABS**" which expression shall man and include unless repugnant to context hereof, it's successors-interest, administrators and assigns

Whereas

The parties have discussed and deliberated on various items of mutual interest and benefits and have deemed expedient to execute this memorandum of understanding so as to mutually co-operate in Student Training, Contract Research works, workshops, Product validation, Research projects sharing, validating products and assays and joint publication.

#### 1. Sharing of Facilitates and contract research

- 1.1 Both the organizations agree to share their respective R & D facilities in order to promote academic and research interaction.
- 1.2 There will be provision for mutual sharing of experts from "ABS" and resource persons from "TOCE" as collaborator and scientific advisor.

#### 2. Joint R & D Projects

- 2.1 Research projects in the identified areas will be jointly undertaken by "TOCE" and "ABS"
- 2.2 Both "**ABS**" and "**TOCE**" agree to get the tax exemption whenever they provide fund to research and also procure the equipments for R & D purpose.

#### 3. Technology transfer:

3.1 Both "ABS" and "TOCE" agree to share the technology whenever feasible.

#### 4. Joint Seminar/conference/Workshops/Hands on training programmes.

4.1 Both "**ABS**" and "**TOCE**" agree to hold/ conduct whenever feasible, joint Conference/Workshop/Hands on training programmes in "**ABS**" and "**TOCE**".

#### 5. Industrial visits:

5.1. Both "**ABS**" and "**TOCE**" agree to organize industrial visits whenever feasible, for the students, staffs and delegates and also during the Conference /Workshop/Hands on training programmes.

#### 6. Industrial training:

6.1 Both "**ABS**" and "**TOCE**" agree to train the students of Biotechnology or other students and staff of "**TOCE**" by organizing industrial training programmes whenever feasible related to technology, Product development, validation and documentation etc.

#### 7. Internships:

7.1 Both "**ABS**" and "**TOCE**" agree to Provide summer internships to students is another area. This helps in motivating the students, understanding industry environment and practices, job profiles, projects they can undertake besides facilitating them to earn some money to be spent usefully in the next academic year / semester

#### 8. INTELLECTUAL PROPERTY, CONFIDENTIALITY AND NON-DISCLOSURE

8.1 Both parties recognize, accept and agree that all tangible and intangible information obtained or disclosed to the other party or its staff or employees including all details, documents, patient information an particulars and trade secrets (all of which are hereinafter referred to as confidential and / or proprietary information) of such party which may be communicated to other party, its staff / employees who may be privy under or pursuant to this contract and / or in the course of performance of such party's obligations under this contract shall be treated as absolutely confidential and the other party agrees and undertakes to ensure that it and all its staff / employees shall keep the same as secret and confidential and shall not disclose the same, at all in whole or in part to any person at any purpose other than as may be necessary for due performance of the party's obligations herein and only for the benefit of the other party.

#### 9. Duration, Amendment and Termination of MoU

9.1 This MoU shall be valid for a period of 2 years from the date of its signing. During the period of the validity, the MoU can be amended any time by mutual consent of both the parties in writing. The MoU can also be terminated by either party giving the order a written notice of its desire to terminate the MoU by giving three months notice in advance. In the event of such termination both the parties shall cooperate in good spirit for the completion of the ongoing researches.

#### For AZYME BIOSCIENCES PVT LIMITED For THE DEPARTMENT OF BIOTECHNOLOGY THE OXFORD COLLEGE OF ENGINEEERING

Halest: M

Dr.Mahesh M , CEO, Azyme Biosciences Pvt Limited

mpin

Dr.B.K.Manjunath, Professor & Head , Department of Biotechnology, The Oxford College of Engineering,





#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

#### SATYUKT ANALYTICS PVT LIMITED, Sanjayanagara, Bengaluru, Karnataka 560094

#### AND THE DEPARTMENT OF BIOTECHNOLOGY, THE OXFORD COLLEGE OF ENGINEERING, Bommanhalli, Bengaluru-560068

This MoU is executed on 2-AUGUST-2023 between THE DEPARTMENT OF BIOTECHNOLOGY, THE OXFORD COLLEGE OF ENGINEERING, a premier centre of Excellence, herein after referred to as "**TOCE**" which expression shall mean and include repugnant to context hereof, its successor-ininterest, administrators and assigns

#### AND

Between SATYUKT ANALYTICS PVT LIMITED, hereinafter referred to as "SAP" which expression shall man and include unless repugnant to context hereof, it's successors-interest, administrators and assigns

Whereas

The parties have discussed and deliberated on various items of mutual interest and benefits and have deemed expedient to execute this memorandum of understanding so as to mutually co-operate in Student Training, Contract Research works, workshops, Product validation, Research projects sharing, validating products and assays and joint publication.

#### 1. Sharing of Facilitates and contract research

- 1.1 Both the organizations agree to share their respective R & D facilities in order to promote academic and research interaction.
- 1.2 There will be provision for mutual sharing of experts from "SAP" and resource persons from "TOCE" as collaborator and scientific advisor.





#### 2. Joint R & D Projects

- 2.1 Research projects in the identified areas will be jointly undertaken by "TOCE" and "SAP"
- 2.2 Both "SAP" and "TOCE" agree to get the tax exemption whenever they provide fund to research and also procure the equipments for R & D purpose.

#### **3.** Technology transfer:

3.1 Both "SAP" and "TOCE" agree to share the technology whenever feasible.

#### 4. Joint Seminar/conference/Workshops/Hands on training programmes.

4.1 Both "SAP" and "TOCE" agree to hold/ conduct whenever feasible, joint Conference/Workshop/Hands on training programme in "SAP" and "TOCE".

#### 5. Industrial visits:

5.1. Both "SAP" and "TOCE" agree to organize industrial visits whenever feasible, for the students, staffs and delegates and also during the Conference /Workshop/Hands on training programmes.

#### 6. Industrial training:

6.1 Both "SAP" and "TOCE" agree to train the students of Biotechnology or other students and staff of "TOCE" by organizing industrial training programmes whenever feasible related to technology, Product development, validation and documentation etc.

#### 7. Internships:

7.1 Both "**SAP**" and "**TOCE**" agree to Provide summer internships to students is another area. This helps in motivating the students, understanding industry environment and practices, job profiles, projects they can undertake besides facilitating them to earn some money to be spent usefully in the next academic year / semester

#### 8. INTELLECTUAL PROPERTY, CONFIDENTIALITY AND NON-DISCLOSURE

8.1 Both parties recognize, accept and agree that all tangible and intangible information obtained or disclosed to the other party or its staff or employees including all details, documents, patient information an particulars and trade secrets (all of which are hereinafter referred to as





confidential and / or proprietary information) of such party which may be communicated to other party, its staff / employees who may be privy under or pursuant to this contract and / or in the course of performance of such party's obligations under this contract shall be treated as absolutely confidential and the other party agrees and undertakes to ensure that it and all its staff / employees shall keep the same as secret and confidential and shall not disclose the same, at all in whole or in part to any person at any purpose other than as may be necessary for due performance of the party's obligations herein and only for the benefit of the other party.

#### 9. Duration, Amendment and Termination of MoU

9.1 This MoU shall be valid for a period of 2 years from the date of its signing. During the period of the validity, the MoU can be amended any time by mutual consent of both the parties in writing. The MoU can also be terminated by either party giving the order a written notice of its desire to terminate the MoU by giving three months notice in advance. In the event of such termination both the parties shall cooperate in good spirit for the completion of the ongoing researches.

For Satyukt Analytics Pvt Ltd.

Dr.Yukti Gill , Managing Director, Satyukt Analytics Pvt Ltd

For THE DEPARTMENT OF BIOTECHNOLOGY THE OXFORD COLLEGE OF ENGINEEERING

Dr.B.K.Manjunath, Professor & Head, Department of Biotechnology, The Oxford College of Engineering,



CHILDREN'S EDUCATION SOCIETY (REED.) THE OXFORD COLLEGE OF ENGINEERING

# DEPARTMENT OF BIOTECHNOLOGY

(Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi & Approved by A.I.C.T.E. New Delhi, Accredited by NAAC & NBA New Delhi and Recognized by UGC under section 2(f)) Bommanahalli, Hosur Road, Bengaluru –560068. (2): 080 -30219601/602/604/736, Fax: 080 – 25730551/ 30219629 E-mail: engprincipal@theoxford.edu

Web: www.theoxford.edu

Dated:4/07/2023

### CIRCULAR

### Subject: INTERNSHIP Opportunity for the Academic year 2023-24

The Department is organizing Internship in association with the following companies who have MOU with us for the current academic year 2023-24. Interested students are herewith informed to contact the coordinator Mr. Divakara and enroll your name on or before 11/7/2023 List of Companies:

1. Azyme Bioscience Pvt.Ltd,

# 1188/20,3rd Floor, 26th Main Rd, opp. Ragigudda Temple Arch,

Jayanagara 9th Block,

Jayanagar,

Bengaluru, Karnataka 560069

2. Satyukt Analytics Pvt Ltd,

2nd floor, 1A Block, Sanjay Nagar Main Rd, CIL Layout A Block, Judicial Colony, Raj Mahal Vilas 2nd Stage, Sanjayanagara, Bengaluru, Karnataka 560094

- 11 ead of the d epartm B.K. MANJUNATHA Professor & Head Department of Biotechnolow Conford College of English Bengaluru-560 066



. CHILDREN'S EDUCATION SOCIETY (REGD.)

THE OXFORD COLLEGE OF ENGINEERING

# DEPARTMENT OF BIOTECHNOLOGY

(Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi & Approved by A.I.C.T.E. New Delhi, Accredited by NAAC & NBA New Delhi and Recognized by UGC under section 2(f)) Bommanahalli, Hosur Road, Bengaluru –560068. ©: 080 -30219601/602/604/736, Fax: 080 – 25730551/ 30219629 E-mail: engprincipal@theoxford.edu

Web: <u>www.theoxford.edu</u>

Dated: 6/10/23

Flowing are the list of students who have done the Internships and Projects under partnering institution/ industry /research lab as per circular for Internship/Project dated 4/07/2023for the current academic year 2023-24

S.NO	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant Name
1	Student Internship on Tools in Bioinformatics	Azyme Bioscience Pvt.Ltd	19/8/2023	19/9/2023	Pavithra S K
2	Student Internships on – Soil Testing	Satyukt Analytics Pvt Ltd	14/8/2023	14/9/2023	Shanen Sheril,Srinidhi,Pavani

y ci lead of the department

DEP. B.K. MANJUNATHA Professor & Head Department of Biotechnolow Che Oxford College of Englise Bengaluru-560 008-



AZYME BIOSCIENCES PVT. LTD

Date: 3rd May 2023

#### CERTIFICATE

This is to Certify that Ms.Pavithra S K, Student of Department of Biotechnology From The Oxford College of Engineering, Bengaluru has successfully completed Internship on "Tools in Bioinformatics" from 19<sup>th</sup> August 2023 to 19<sup>th</sup> September 2023 at Azymes Biosciences Pvt.Ltd.

Mahesh. M CEC

# Certificate of Internship

Date of Issuance:14th September 2023

This is certify that

# Ms. Shannen Sheril

Has successfully completed 1 month (14<sup>th</sup> August 2023 - 14<sup>th</sup> September 2023) of internship at Satyukt Analytics Pvt Ltd as Agri Intern, who learned and assisted on irrigation advisory, soil nutrient recommendations for major crops. To the best of my knowledge she has performed satisfactory and bears a good moral character.

Dr. Sat Kumar Chief Executive Officer Satyukt Analytics Pvt. Ltd.

Dr. Yukti Gill Managing Director Satyukt Analytics Pvt. Ltd.

# Certificate of Internship

Date of Issuance:14th September 2023

This is certify that

# Ms. Srinidhi N

Has successfully completed 1 month (14<sup>th</sup> August 2023 - 14<sup>th</sup> September 2023) of internship at Satyukt Analytics Pvt Ltd as Agri Intern, who learned and assisted on irrigation advisory, soil nutrient recommendations for major crops. To the best of my knowledge she has performed satisfactory and bears a good moral character.

Dr. Sat Kumar Chief Executive Officer Satyukt Analytics Pvt. Ltd.

Dr. Yukti Gill Managing Director Satyukt Analytics Pvt. Ltd.

# Certificate of Internship

Date of Issuance:14th September 2023

This is certify that

# Ms. Pavani S

Has successfully completed 1 month (14<sup>th</sup> August 2023 - 14<sup>th</sup> September 2023) of internship at Satyukt Analytics Pvt Ltd as Agri Intern, who learned and assisted on irrigation advisory, soil nutrient recommendations for major crops. To the best of my knowledge she has performed satisfactory and bears a good moral character.

Dr. Sat Kumar Chief Executive Officer Satyukt Analytics Pvt. Ltd.

Dr. Yukti Gill Managing Director Satyukt Analytics Pvt. Ltd.

# MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN



## THE OXFORD COLLEGE OF ENGINEERING, DEPARTMENT OF MECHANICAL ENGINEERING AND PRINSTON SMART ENGINEERS

The Memorandum of Understanding is made between Department of Mechanical Engineering, THE OXFORD COLLEGE OF ENGINEERING and PRINSTON SMART ENGINEERS, to promote the cooperation in Workshops, Conferences and Seminars would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- · To conduct the conferences, seminars and workshops.
- Should accommodate the UG students in such a number that industry deems convenient to it for the purpose of imparting industrial training and internships.
- To give the placement opportunities to the students.

The parties anticipate that a number of these initiatives will occur during the period of this MOU i.e (Oct-2020 to Oct-2023).However, neither party is obligated to agree to any minimum number of activities, nor is this MOU intended to preclude either party from entering into similar agreements with other institutions.

The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further greements concerning any program shall provide details concerning the specific commitments made by each party and hall not become effective until they have been reduced to writing, executed by the duly authorized representatives of

SIGNATORIES

This Agreement shall become effective upon being signed by both parties.

HEAD OF TRAINING CHIFF EXECUTIVE OFFICER PRINSTON SMART ENGINEERS

Dr. G. T. RAJU

THE OXFORD OLEGIN NEW PONT The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.

G.H.Reddy

the parties.

Dr. MADHU SUDANA REDDY G PROFESSED HEAD PARTMENT OF MECHANICAL ENGINEERIA E OXFORD COLLEGE OF ENGINEERI BOMMANAHALLI, BANGALORE-560061

> Prof. N HEAD PLACEN THE OXFOR



# Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Department of Mechanical Engineering

The HOD Department of Mechanical Engineering The Oxford College of Engineering Bangalore – 560068

То

HR Prinston Smart Engineers Bangalore

Respected Sir/Madam,

Sub: Permission for pursuing Internship Program

With the reference to above the following 8<sup>th</sup> semester students of this institute would like to do internship in your esteemed organization. As a part of VTU curriculum, they have to undergo mandatory internship for a duration of 4 weeks.

10X20ME004 - Imran Ali Wani

10X20ME005 - Kiran P R

10X20ME006 - Lokesh G

We request you to permit them to do the internship in your organization

G.M. Reday

HOD- MECH

An HVAC (Heating, Ventilation, and Air Conditioning) system is crucial for maintaining a healthy, comfortable, and energy-efficient building environment. Different types of HVAC installations are used depending on the building's location and size, with the three most common types being centralized, packaged, and individual or decentralized systems. Given that HVAC systems are the largest energy consumers in a building, implementing energy efficiency methods is essential to reduce energy consumption, costs, and greenhouse gas emissions.

Students gained knowledge and exposure to the following aspects of HVAC systems:

- The concept of the chilled water system was clearly explained, highlighting its importance in the HVAC industry and applications.
- The primary objective of designing an HVAC system for the building industry is to maintain human comfort values, regardless of the project's location.
- The Heat Load Estimate determines the cooling requirements for a project and provides guidelines for selecting the appropriate machines.
- All equipment is installed according to the manufacturer's recommendations to achieve optimal performance.
- Final layouts for piping and equipment are submitted for approval before site installation.



### course4job Empowering and Inspiri future professionals

### Imran Ali Wani HVAC DESIGN

#### **Certificate Of Internship**

Aug 22" To Sep 22", 2023 THE OXFORD COLLEGE OF ENGINEERING, 10X20ME004 During Internship, Intern was found to be good and disciplined.







ing Services W.L.L Doha, Qatar Co



PRINSTON SMART ENGINEERS



### Kiran P R HVAC DESIGN

#### **Certificate Of Internship**

Aug 22" To Sep 22", 2023 THE OXFORD COLLEGE OF ENGINEERING, 10X20ME005 During Internship, Intern was found to be good and disciplined.





course4job PRINSTON SMART ENGINEERS

and Engle



#### Lokesh G HVAC DESIGN

**Certificate Of Internship** Aug 22" To Sep 22", 2023 THE OXFORD COLLEGE OF ENGINEERING, 10X20ME006 During In hip, Intern was found to be good and disciplined





# Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Department of Mechanical Engineering

The HOD Department of Mechanical Engineering The Oxford College of Engineering Bangalore – 560068

То

HR Prinston Smart Engineers Bangalore

Respected Sir/Madam,

Sub: Permission for pursuing Internship Program

With the reference to above the following 8<sup>th</sup> semester students of this institute would like to do internship in your esteemed organization. As a part of VTU curriculum, they have to undergo mandatory internship for a duration of 4 weeks.

1OX20ME007 - Mallikarjuna M Kummi

1OX20ME008 - Mohammed Hussain

10X20ME009 - Nikhil R

We request you to permit them to do the internship in your organization

G.M. Reday

HOD- MECH

### **Brief Report**

An HVAC (Heating, Ventilation, and Air Conditioning) system is crucial for maintaining a healthy, comfortable, and energy-efficient building environment. Different types of HVAC installations are used depending on the building's location and size, with the three most common types being centralized, packaged, and individual or decentralized systems. Given that HVAC systems are the largest energy consumers in a building, implementing energy efficiency methods is essential to reduce energy consumption, costs, and greenhouse gas emissions.

Students gained knowledge and exposure to the following aspects of HVAC systems:

The concept of the chilled water system was clearly explained, highlighting its importance in the HVAC industry and applications.

The primary objective of designing an HVAC system for the building industry is to maintain human comfort values, regardless of the project's location.

The Heat Load Estimate determines the cooling requirements for a project and provides guidelines for selecting the appropriate machines.

All equipment is installed according to the manufacturer's recommendations to achieve optimal performance.

Final layouts for piping and equipment are submitted for approval before site installation.





# MEMORANDUM OF UNDERSTANDING (MOU)



# BETWEEN

# THE OXFORD COLLEGE OF ENGINEERING, DEPT. OF MECHANICAL ENGINEERING

### AND

# EHAA TECHNOLOGIES

The Memorandum of Understanding is made between Department of Mechanical Engineering, THE OXFORD COLLEGE OFENGINEERING and EHAATECHNOLOGIES, to promote the cooperation in Research, Workshops, Conferences and Seminars would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- Joint research publications with the industry.
- To conduct the conferences, seminars and workshops.
- Should accommodate the UG students in such a number that industry deems convenient to it for the purpose of imparting industrial training and internships.
- The students will carry out part of their UG project at industry depending on the nature of the work as per rules depending on the facilities and requirements.
- To give the placement opportunities to the students.

The parties anticipate that a number of these initiatives will occur during the period of this MOU i.e (Jan-2021 to Jan-2024). However, neither party is obligated to agree to any minimum number of activities, nor is this MOU intended to preclude either party from entering into similar agreements with other institutions.

The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each party and shall not become effective until they have been reduced to writing, executed by the duly authorized representatives of the parties.

SIGNATORIES

This Agreement shall become effective upon being signed by both parties.

G.M. Reddy

Dr. MADHU SUDANA REDDY G PROPENSION & HEAD DEPARTMENT OF MECHANICAL ENGINEERING THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORE-5600 Jorry Human

Prof. NANCY PURING WE OXFORD HEAD PLACEMENT OF HEID ALL OXFORD EDUCATIONAL INSTITUTIONS Mr. SHREYAS U CHIEF EXECUTIVE OFFICER EHA TECHNOLOGIES

The Oxford Oollege of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.



# Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Department of Mechanical Engineering

The HOD Department of Mechanical Engineering The Oxford College of Engineering Bangalore – 560068

То

HR Ehaa Technologies Pvt Ltd Bangalore

Respected Sir/Madam,

Sub: Permission for pursuing Internship Program

With the reference to above the following 8<sup>th</sup> semester students of this institute would like to do internship in your esteemed organization. As a part of VTU curriculum, they have to undergo mandatory internship for a duration of 4 weeks.

10X20ME010 – PRASANTH RANJAN 10X20ME011 – SANDEEP J 10X20ME012 – SIVA P

We request you to permit them to do the internship in your organization

G.M. Reday

HOD- MECH

## **Brief Report**

During the internship, students gained comprehensive knowledge and practical experience in the field of bearing design. The key areas of focus included:

Introduction to Bearing Types and Applications: Students were introduced to various types of bearings, including ball bearings, roller bearings, and plain bearings, and their applications in different industries.

Material Selection and Properties: The importance of selecting the right materials for bearings was emphasized, including considerations for durability, load capacity, and environmental factors.

Design Principles: Fundamental principles of bearing design were covered, such as load distribution, lubrication, and minimizing friction.

Calculation and Analysis: Students learned to perform essential calculations for bearing design, including load ratings, life expectancy, and failure analysis.

Manufacturing Processes: The internship provided insights into the manufacturing processes involved in bearing production, including machining, heat treatment, and quality control.

Software Tools: Practical sessions on using industry-standard software for bearing design and analysis were conducted, enhancing students' technical skills.

Case Studies and Real-world Applications: Real-world case studies were presented to illustrate the application of bearing design principles in solving engineering challenges.

This internship equipped students with the necessary skills and knowledge to contribute effectively to the field of bearing design, preparing them for future careers in mechanical engineering and related disciplines.



#### PRASHANTH RANJAN BEARING DESIGN

Certificate Of Internship Aug 22<sup>er</sup> To Sep 22<sup>er</sup>, 2023 THE OXFORD COLLEGE OF ENGINEERING, 10X20ME010 During Internship, Intern was found to be good and disciplined.





#### SANDEEP J BEARING DESIGN

Certificate Of Internship Aug 22<sup>er</sup> To Sep 22<sup>er</sup>,2023 THE OXFORD COLLEGE OF ENGINEERING, 10X20ME011 During Internship, Intern was found to be good and disciplined.



## SIVA P BEARING DESIGN

Certificate Of Internship Aug 22<sup>erd</sup> To Sep 22<sup>erd</sup>, 2023 THE OXFORD COLLEGE OF ENGINEERING,10X20ME012 During Internship, Intern was found to be good and disciplined.

CHILDREN'S EDUCATION SOCIETY (Regd.)



Administrative Office : 1st Phase, J.P. Nagar, Bengaluru - 560 078. (C): 080 - 61754501 - 502 Fax: 080 2654 8658

#### THE OXFORD OLLEGE OF ENGINEERING (Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi &

Approved by A.I.C.T.E., New Delhi, Accrediated by NAAC & NBA New Delhi and Recognized by UGC under section 2(f)) Bommanahalli, Hosur Road, Bengaluru - 560 068.

C: 080 61754601 / 602 / 604 Fax: 080 25730551 E-mail: engprincipal@theoxford.edu Web: www.theoxford.edu

### **MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (herein after referred to as MoU) is entered into on this date 21-01-2021 between THE OXFORD COLLEGE OF ENGINEERING, BENGALURU and GOVT. TOOL ROOM AND TRAINING CENTRE - Bengaluru.

The scope of the MoU, the roles and responsibilities of the parties.

# Background

This MoU is for the benefits of students for IT / Mechanical / Mechatronics / Automobile / Electrical / Electronics and communication. This MoU is for the conducting internship, Training, Projects, Workshop, Seminars and Faculty development programme for the following Branches.

- 1. Mechatronics Engineering
- 2. Mechanical Engineering
- 3. Electrical and Electronics Engineering
- 4. Electronics and Communication Engineering
- 5. Automobile

1. BENEFITS TO THE, THE OXFORD COLLEGE OF ENGINEERING, BENGALURU 1.1 Opportunity to emerge as one of the competent entities in the academic circles in research and development in the area of Information Technology and Mechatronics.

1.2 Opportunity to be recognized by the industry and academic circles as one of the preferred locations for acquiring training and skills development in latest technology and software.

1.3 Opportunity to utilize the Program to train students on Latest Technology Software products and technologies.

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1.4 Opportunity for the faculty and students of THE OXFORD COLLEGE OF ENGINEERING provide a students of THE OXFORD COLLEGE OF **ENGINEERING, BENGALURU** to design world class curriculum capable of delivering the caliber of IT ability caliber of IT skills required at present and also for the future. 1.5 Students will get 20% discount in course fees, provided with minimum batch quantity of 20

numbers and Fees will be directly deposited to GTTC through institutes.

# 2. BENEFITS FROM GOVT. TOOL ROOM AND TRAINING CENTRE – BENGALURU 2.1. Students and faculty will get the technical support on latest technology along with paper

presentations and live projects.

2.2. Students and faculty will get the coding level workshop program on latest technologies and workshop program will be on hands on work.

2.3. GOVT. TOOL ROOM AND TRAINING CENTRE - BENGALURU will support for student final year academic project with training and development on as per student problem statement and also latest technology.

# MONITORING OF IMPLEMENTATION

A Co-ordination Committee consisting of two faculty members of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU and two officers nominated by GOVT. TOOL ROOM AND TRAINING CENTRE - BENGALURU will do the planning and monitoring of the implementation of the various aspects of this MoU. There will be an annual review, this review would primarily focus on the curriculum progress, faculty availability and certification.

#### GENERAL

1. This MoU may be terminated by either party through a notice of one month. Either party may terminate this MoU if either of the parties is frustrated by reasons beyond its control from going ahead with the implementation of the provision of this MoU. The provision

2 | Page

# SUMMARY:

GOVT. TOOL ROOM AND TRAINING CENTRE - BENGALURU recognizes the significance of the Principal of THE OXFORD COLLEGE OF ENGINEERING BENGALURU initiative to be the leader in the field of Tooling and High Tech Technology related academia in the country. GOVT. TOOL ROOM AND TRAINING CENTRE. BENGALURU proposes to make available the appropriate technology and expertise to develop THE OXFORD COLLEGE OF ENGINEERING, BENGALURU position as a leading institute providing high quality skilled resources. This Memorandum of Understanding is intended to express the broad understanding of the parties regarding their working with each other to the extent possible for their mutual benefit.

Signature with seal, Signature with seal, PRINCIP The Oxford College of Engineering Principal Bommanahalli, Hosur Road Govt. Tool Room & Training Centre Rajajinagar Industrial Estate Bengaluru-560 068. Date GOVE TOOL ROOM AND TRAINING CENT THE OXFORD COLLEGE OF ENGINEERING, BENGALURU **BENGALURU** Witness

UT. Yashode B.S.

**Department of Mechatronics** The Oxford College Of Engineering Bommanahalli, Bangatore - 5L . ......

DL. MADHU SUDAHA R DEPARTMENT OF MECHANIC



# Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Department of Mechanical Engineering

The HOD Department of Mechanical Engineering The Oxford College of Engineering Bangalore – 560068

То

HR KGTTI Bangalore

Respected Sir/Madam,

Sub: Permission for pursuing Internship Program

With the reference to above the following 8<sup>th</sup> semester students of this institute would like to do internship in your esteemed organization. As a part of VTU curriculum, they have to undergo mandatory internship for a duration of 4 weeks.

10X20ME013 – ZULFIKAR ALI

10X21ME400 – CHETHAN K

10X21ME401 – NAGARAJ DEVADIGA

We request you to permit them to do the internship in your organization

G.M. Reday

HOD- MECH

## **Brief Report**

During the internship, students acquired extensive knowledge and hands-on experience in operating CNC (Computer Numerical Control) machines. The key areas of learning included:

Introduction to CNC Technology: Students were introduced to the fundamentals of CNC technology, including the basic principles of computer-controlled machining and its advantages over traditional machining methods.

Types of CNC Machines: The internship covered various types of CNC machines, such as CNC milling machines, CNC lathes, and CNC routers, along with their specific applications and functionalities.

CNC Programming: Students learned the essentials of CNC programming, including G-code and M-code commands, and how to write and interpret CNC programs for different machining operations.

Machine Setup and Calibration: Hands-on sessions were conducted on setting up CNC machines, including tool selection, fixture setup, and machine calibration to ensure precision and accuracy in operations.

Operation and Monitoring: Students gained practical experience in operating CNC machines, monitoring machining processes, and making necessary adjustments to maintain product quality and consistency.

Safety Procedures: Emphasis was placed on understanding and adhering to safety protocols while operating CNC machines to prevent accidents and ensure a safe working environment.

Troubleshooting and Maintenance: The internship included training on identifying common issues in CNC operations, troubleshooting techniques, and routine maintenance procedures to keep machines in optimal condition.

This internship equipped students with the essential skills and knowledge to operate CNC machines effectively, preparing them for careers in manufacturing and precision engineering.



Karnataka Germen Technical Training institute

Zulfikar Ali CNC MACHINE OPERATION Certificate Of Internship Aug 22" To Sep 22", "2023 THE OXFOND COLLEGE OF ENGINEERING, 10X20ME013 During Internship, Intern was found to be good and disciplined.





Karnataka Germen Technical Training institute

Chethan K CNC MACHINE OPERATION Certificate Of Internship Aug 22" to Sep 22", 2023 THE OWFORE COLLEGE OF ENSINEERING, 10X21ME400 During Internship, Intern was found to be good and disciplined.





Karnataka Germen Technical Training institute

Nagaraj Devadiga CNC MACHINE OPERATION Certificate Of Internship

Aug 22" To Sep 22", 2023 THE OXFORD COLLEGE OF ENGINEERING, 10X21ME401 During Internship, Intern was found to be good and disciplined.





#### INDIA NON JUDICIAL

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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 3<sup>rd</sup> November 2023, by and between

**Pantech E Learning Pvt Ltd**, (Herein after Referred to As The "First Party"), 1<sup>st</sup> Floor, Kotta Srinivasiah Charities Building, Thanjavur Road, Near Duraisamy Subway, T Nagar, Chennai - 600017 and as First Party.

**THE OXFORD COLLEGE OF ENGINEERING, BENGALURU**, (hereinafter referred to as the "Second Party") having its permanent address 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru,Karnataka 560068 India and as Second Party.

Statutory Alert:

 The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
The onus of checking the legitimacy is on the users of the certificate.
In case of any discrepancy please inform the Competent Authority. This memorandum of understanding is proposed in order to establish high end technology Training.through this Memorandum of Agreement by & between the two parties and agree to the following.

A steering committee will be set up to monitor the activities of the MoU. The committee will consist of the Mr.Senthil Kumar M. R,Director,Pantech E learning Pvt Ltd and Dr. N KANNAN, Principal, The Oxford College of Engineering, Bengaluru with mutual consent. The steering committee can be expanded toinclude FIVE members from the two institutions. The steering committee will be the supreme body for the implementation of the activities of the MoU, the continuation of the MoU, and termination of the MoU and any other concerned activities.

**Pantech E Learning** will provide trainings on all programs relating to AI, ML, Data Science, Block Chain, Embedded Systems, IoT, VLSI, Electric Vehicle, Renewable Energy, Software Domains and any technology domains that the First Party has expertise through.

Value Added Programs: First Party to train the students of Second Party on the emerging technologies in order to bridge the skill gap and make them to compete in the global market.

**Research and Development:** Both Parties have agreed to carry out the joint research activities in thefields of AI, ML, Data Science, Block Chain, Embedded Systems, IoT, VLSI, Electric Vehicle, Renewable Energy, Software Domains and any technology domains that the Second Party has expertise

in, to guide and collaborate with First Party.

**Guest Lectures & Faculty Development Programs:** First Party to extend the necessary support to deliver guest lectures and coordinate Faculty Development Programs to the Staffs and studentcommunity, who have / will enroll with the Second Party on the technology trends and as per in house requirements.

**Placement of Trained Students:** First Party will actively engage to help the delivery of the training and placement of students into internships/jobs.

Internship: First Party will engage and train the students as per the industrial demands in terms of Internship Programs.

**Projects and Research Work:** First Party will provide the necessary support to the student's community to complete their projects and the research works.

**Pantech E Learning** will provide qualified and excellent trainers for the above trainings and the quality of the program will not be diluted during the training period. If from the side of either party, any of the clauses in the MoU is not fulfilled, the other party can take suitable measures with the mutual discussion between the parties.

**Period of Validity** -This agreement shall be initially valid for Two years from the date of signing theagreement and to be renewed subsequently by mutual consent of both the parties, subjected to satisfactory results of the training.

Publicity through Media: The College does not publicize the event to other external communication about the MoU in electronics or print media without explicit permission

from Pantech E learning. Incase the College/University wants to do so, a prior approval from Pantech E learning is required.

#### **Steering Committee Members:**

- 1. Dr P Bindhu Madhavi, HOD, AIML, TOCE
- 2. Prof. Parvathy, Asst.Prof, Department of AIML
- 3. Prof. Subaranjani T, Asst.Prof, Department of AIML
- 4. Prof. Sathiya Priya K, Asst.Prof, Department of AIML

AGREED:

#### For The Oxford College of Engineering

For Pantech E Learning

03/11/20

Authorized Signatory

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

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#### CHILDREN'S EDUCATION SOCIETY (REGD)

### THE OXFORD COLLEGE OF ENGINEERING



Bommanahalli, Hosur Road, Bangalore – 68 080-30219601, Fax: 080-25730551, 30219629, Website: <u>http://www.theoxford.edu/engineering</u>/

(Approved by AICTE, Accredited by NAAC A& NBA, New Delhi& Affiliated to VTU, Belgaum)

### WORKSHOP Report on "Innovative Opportunities Using Machine Learning."



The Oxford college of Engineering, Bangalore - Institution Innovation Council in association with The Oxford college of Engineering, Bangalore organized "A Workshop on **Innovative Opportunities Using Machine Learning**" on 24<sup>th</sup> May 2024 to 25<sup>th</sup> May 2024 from 9:30 AMby Mr. Vignesh Kumaran A AI Domain Expert, Team Lead: Pantech E learning .

#### **OBJECTIVES:**

The Innovative Opportunities Using Machine Learning workshop helps to the participants understand the basic knowledge and machine learning technique ,algorithms, Innovation projects. Here are some common objectives:

-Overview of Machine Learning: Provide participants with a comprehensive understanding of what machine learning is, its applications, and its significance in various industries.

-Identifying Key Areas of Innovations: Explore diverse domains such as healthcare, transportation, finance, agriculture, and more to identify specific areas where machine learning can drive innovation.

-Case Studies and Success Stories:Present case studies and success stories showcasing how machine learning has been successfully implemented to solve real-world problems and drive business growth.

-Ethical and Social Implications: Address ethical considerations related to machine learning, such as bias in algorithms, privacy concerns, and the societal impact of automation, and encourage discussions on responsible AI development.

Future Trenda And Opportunities:Explore emerging trends in machine learning, such as deep learning, reinforcement learning, federated learning, and their potential implications for future innovation.

#### **OUTCOMES:**

-Participants gain a deeper understanding of machine learning concepts, techniques, and applications across various domains.

-Attendees identify specific opportunities within their respective industries or areas of interest where machine learning can be applied to drive innovation and solve complex problems.

-Participants acquire practical skills in machine learning, including data preprocessing, model building, evaluation, and deployment, through hands-on workshops and interactive sessions.

-Participants gain insights into the challenges and limitations associated with implementing machine learning solutions, including ethical considerations, data privacy issues, and technical constraints.

-Attendees develop an awareness of the ethical implications of machine learning technologies and the importance of responsible AI development, leading to more ethical and socially responsible use of AI.

#### **Engagement and Impact:**

The workshop was about54 students and 3 faculty was participated from the student and from the department.

#### Social Media Link:

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#### Video Link:

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### **Prinston Smart Engineers**

**Engineering, Training & IT Services** 

### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 31-07-2024, by and between

**Prinston Smart Engineers,** (Herein after Referred to as The "First Party"), branchoffice in Begur Main Road, No- 240/3 2<sup>nd</sup> Floor, Above Manya Dental Clinic- 560068 and as First Party.

**DEPARTMENT OF AIML, THE OXFORD COLLEGE OF ENGINEERING, BENGALURU,** (hereinafter referred to as the "Second Party") having its permanent address 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068 India and as Second Party.

This memorandum of understanding is proposed in order to establish high end technology Training. Through this Memorandum of Agreement by & between the two parties and agree to the following.

A steering committee will be set up to monitor the activities of the MoU. The committee will consist of the Mr. Asif, Founder, Prinston Smart Engineers and Dr. H N RAMESH, Principal, The Oxford College of Engineering, Bengaluru with mutual consent. The steering committee can be expanded to include FIVE members from the two institutions. The steering committee will be the supreme body for the implementation of the activities of the MoU, the continuation of the MoU, and termination of the MoU and any other concerned activities.

**Prinston Smart Engineers** will provide trainings on all programs relating to AI, ML, Data Science, Block Chain, Embedded Systems, IoT, VLSI, Electric Vehicle, Renewable Energy, Software Domains and any technology domains that the First Party has expertise through.

Value Added Programs: First Party to train the students of Second Party on the emerging technologies in order to bridge the skill gap and make them to compete in the global market.

**Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of AI, ML, Data Science, Block Chain, Embedded Systems, IoT, VLSI, Electric Vehicle, Renewable Energy, Software Domains and any technology domains that the Second Party has expertise in, to guide and collaborate with First Party.

**Guest Lectures & Faculty Development Programs:** First Party to extend the necessary support to deliver guest lectures and coordinate Faculty Development Programs to the Staffs and student community, who have / will enroll with the Second Party on the technology trends and as per in house requirements.

**Placement of Trained Students:** First Party will actively engage to help the delivery of the training and placement of students into internships/jobs.

Address: 1st Cross 16th Main Hongasandra, Behind St Francis school, Begur Road, Bangalore 560068 \$\$9513106196 / 9810188747 = prinston.smart@gmail.com \$\$ www.prinstonsmart.com Internship: First Party will engage and train the students as per the industrial demands in terms of Internship Programs.

**Projects and Research Work:** Second Party will provide the necessary support to the student's community to complete their projects and the research works.

**Prinston Smart Engineers** will provide qualified and excellent trainers for the above trainings and the quality of the program will not be diluted during the training period. If from the side of either party, any of the clauses in the MoU is not fulfilled, the other party can take suitable measures with the mutual discussion between the parties.

**Period of Validity** -This agreement shall be initially valid for Five years from the date of signing the agreement and to be renewed subsequently by mutual consent of both the parties, subjected to satisfactory results of the training.

Publicity through Media: The College does not publicize the event to other external communication about the MoU in electronics or print media without explicit permission from Prinston Smart Engineers. Incase the College/University wants to do so, a prior approval from Prinston Smart Engineers is required.

#### **Steering Committee Members:**

- 1. Dr P Bindhu Madhavi, HOD, AIML, TOCE
- 2. Prof. Shwetha P R, Asst.Prof, Department of AIML
- 3. Prof. Rashmi B, Asst.Prof, Department of AIML
- 4. Prof. Priyanka, Asst.Prof, Department of AIML

### **AGREED:**

For The Oxford College of Engineering

For Prinston Smart Engineers

The OxforthGaled SpinEngineering Bommanahalli, Hosur Road Bengaluru-560 068

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### CHILDREN'S EDUCATION SOCIETY (REGD) THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bangalore – 68 080-30219601, Fax: 080-25730551, 30219629, Website: http://www.theoxford.edu/engineering/ (Approved by AICTE, Accredited by NAAC A Grade & Affiliated to VTU, Belgaum)

### DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

### Workshop Report on "Design Opportunities using ML – A Practical Guide to Machine Learning Classification"



The Department of Artificial intelligence &Machine learning, The Oxford college of Engineering, Bangalore - in association with Institution Innovation Council, organized a Workshop on "Design Opportunities using ML – A Practical Guide to Machine Learning Classification" on 25<sup>th</sup>October 2024 from 10:00 AM by Mr. Ashif Akhter, CEO Prinston Smart Engineers Pvt. Ltd.

### **OBJECTIVES:**

- 1. To introduce participants to core concepts, focusing on how machine learning can impact and enhance design processes.
- 2. To explain types of ML algorithms and their relevance to design opportunities.
- 3. To guide participants in identifying design challenges that could benefit from ML

### **OUTCOMES:**

- Participants will gain a foundational understanding of how machine learning techniques can be applied in various design contexts, including generative design, personalization, predictive modeling, and user experience.
- Participants will learn to recognize design challenges that could benefit from ML solutions and frame these challenges in ways that make them approachable with ML, considering necessary data and objectives.

### **Participants:**

The workshop was well-attended, with enthusiastic participation from student's62and 4 faculty members.

### Social media link: https://www.facebook.com/photo/?fbid=600932439125470&set=pb.100076261560657.-2207520000

### Video Link: -

https://drive.google.com/drive/folders/11vYaJ39YW6EWVwDJGIOavsc4NbU0ru0e?usp=sharin g

### **Photos**













### Attendence

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### ATTENDANCE SHEET

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Memorandum of Understanding .

## THE OXFORD COLEEGE OF ENGINEERING BENGALURU



AND

# **CONSTRUCTION MANAGEMENT TRAINING** INSTITUTE, BENGALURU





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## INDIA NON JUDICIAL

## **Government of Karnataka**

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Certificate No. Certificate Issued Date Account Reference Unique Doc. Reference Purchased by Description of Document Description Consideration Price (Rs.)

Second Party



### Statutory Alert:

 The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid
 The onus of checking the legitimacy is on the users of the certificate





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Now this agreement witness as follows;

1. The First Party is The Oxford College of Engineering, Bengaluru which is a higher education technical institute, approved by AICTE, affiliated to Vishweshwaryya Technology University, Belagavi, to conduct the technical programs at the college site of <u>http://www.theoxford.edu/engineering/</u>

The Second Party is Construction Management Training Institute situated at Jayanagar, Bengaluru
 560011, is into providing employment based value added certified courses for Civil Engineers & Construction professionals for more details <a href="https://www.cmti.co.in/">https://www.cmti.co.in/</a>

3. Both the parties have the common interest of training the students and making them industry ready by the time they come out of the institution. Both the parties believe that close cooperation between the two would be of major benefit to the student community to enhance their skills and knowledge.

4. The First Party shall be providing the infrastructure and other facilities to conduct online trainings seminars, workshops, offline training programs, Practical Trainings

5. The Second Party shall provide assistance in organizing field visits, training the students in various fields, Internships, student projects and any other related programs related to Placements assistance. Second party intended to support with resources from Industries and project works guidance and education on Green Buildings.

6. The Second Party shall support in conducting technical seminars, workshops and conferences etc., organized by the first party on various topics related to industry requirements.

7. The Second Party shall be assisting the students for the placements / Internships / Projects /Entrepreneurship skills

8. The Second Party shall help the First Party to develop the consultancy in the department of civil engineering.

9. This agreement shall come into effect from 07.04.2021

10. The duration of this MOU shall be for period of 5 (FIVE) years from the date of effect, i.e., from 07.04.2021 to 06.04.2026 If not renewed or amended in writing the same shall be considered as expired or terminated.

11. Any alteration, addition or modification in this MOU shall be in writing and signed by both the parties.







12. Any notice, request or other communication required or permitted to be given or made under this agreement to First Party or Second Party, shall be in writing. Such notice or request shall have been given or made when it shall have been delivered by hand, mail with a copy by facsimile to the party to which it is addressed at such party's address specified below or at such other address as such party shall have designed by notice to the party for giving such notice or making such request.

13. The parties hereto acting themselves or through representatives duly authorized, have caused this agreement to be signed in their respective names as of the day &year written above.

### AUTHORISED SIGNATORIES

S.G. MMM

Dr. N. Kannan

Principal The Oxford College of Engineering Bengaluru–560 068.

## Er.S G Ashok Kumar

Founder & CEO

Construction Management Training Institute,

Jayanagar 3rd Block,

Bengaluru - 560011

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Dr.Amarnath.K

DIRECTOR,

THE OXFORD INSTITUTIONS

BANGALORE



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CHILDREN'S EDUCATION SOCIETY (Regd.) THE OXFORD COLLEGE OF ENGINEERING



(Recognised by the Govt. of Karnataka. Affiliated to Visvesvaraya Technological University, Belagavi Approved by A LET TE, New Detor

Recognised by UGC Under Section 2(1) Bommanahalti Hosur Road, Bengelore - 560.055 Ph: 080-61754601/602, Fax: 080 - 25730551 E-mail: engprincipal@theosford.edu Web: www.theosford.engg.org

### Memorandum of Understanding

between

Department of MCA, The Oxford College of Engineering

and

### Kasiaex Solutions Private Limited, Bengaluru

July 1, 2022

This Memorandum of Understanding (MOU) is entered into on this 1<sup>st</sup> day of July, 2022 by and between **Department of MCA**, **The Oxford College of Engineering and Kasiaex Solutions Private Limited** agrees that cooperation in research collaborations and student and faculty exchanges would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- Joint projects and internship, including work by Post Graduate Students at the partner institutions.
- Faculty and student Training based on reciprocity.
- Reciprocal placement of students in paid internships and co-ops, when possible.
- Joint Conferences, Workshops and Faculty Development Programs.
- Team taught courses, including online courses and
- Visits by faculty, Professional Staff, and Students.

The parties anticipate that a number of these initiatives will occur during the period of this MOU. However, neither party is obligated to agree to any minimum number of activities, nor is this MOU intended to preclude either party from entering into similar agreements with other institutions.

The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each party and shall not become effective until they have been reduced to writing, executed by the duly authorized representatives of the parties.

#### **Cooperation in Education and Research**

In order to facilitate student exchanges between Kasiaex Solutions Private Limited and Department of MCA, The Oxford College of Engineering, the following section provides general procedural information under which the exchange of students between the two institutions will take place. Specific procedures, requirements and duties of the parties in connection with student exchanges shall be set forth in a separate written program agreement to be executed by the parties.

Cooperation and exchanges may take place with Post Graduate Students. Each exchange may be for the duration of one academic year, one academic semester, or one intensive course, normally three or four weeks in length, scheduled either between academic terms or during the summer.



### CHILDREN'S EDUCATION SOCIETY (Regd.) THE OXFORD COLLEGE OF ENGINEERING

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Whenever possible, courses will be team taught by one faculty member from Kasiaex Solutions Private Limited and Faculty members from Department of MCA, The Oxford College of Engineering. Courses may be taught at Department of MCA, at, or concurrently at both campuses through online capabilities. Students may engage in Internship Opportunities through placements by the host institution, providing they meet the legal criteria of the host country.

If two faculty members from each institution are engaged in collaborative research projects, Post Graduate Students at one institution may visit and work in the lab of the faculty member at the other institution and incorporate the work done as part of their dissertation research. When connected to funded research projects, the host institution will endeavor to provide a stipend for the visiting doctoral student.

### Responsibilities of home institution for academic semester or academic year exchanges:

The home institution will:

- Register its own students for the duration of the exchange.
- Submit to the host institution the names and academic credentials of students who would like to
  participate in an exchange.
- Provide the host institution with names of courses that are essential to their own students' curricular plan.
- Ask the student to advise the host institution of any circumstances that may affect his or her year abroad (e.g. medical condition, disability status).
- Advise its students about academic and cultural expectations at the host institution.

### Responsibilities of the host institution for academic semester or academic year exchanges:

The host institution will:

- Be responsible for admission decisions of students recommended by the home institution.
- Provide an orientation program for incoming students.
- Endeavor to ensure that students are admitted to courses regarded as essential to their academic
  programs at their home institutions.
- Assign an academic advisor to all incoming students.
- Assist the incoming student in securing housing.
- Inform the incoming student of health insurance requirements.
- Provide the home institution with a final transcript of the student's academic performance.

#### Short intensive courses:

Short intensive courses, offered during the summer or between semesters, will be taught by a faculty member from either Department of MCA, The Oxford College of Engineering or Kasiaex Solutions Private Limited Students will pay no fee to their home institution.

The primary contacts for this MOU are for Kasiaex Solutions Private Limited and Provost for Department of MCA, The Oxford College of Engineering. As previously noted, the parties shallenter into specific written agreements whenever appropriate to clarify and define the nature, extent, and terms of operation for the proposed collaborations, including intellectual property ownership and funding issues.

2



#### CHILDREN'S EDUCATION SOCIETY (Regd.) THE OXFORD COLLEGE OF ENGINEERING

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi Approved by ALC T.E. New Delbi Recognised by UGC Under Section 2(f) i Bommanahalli, Hosur Road, Bangalore - 560.068 Ph: 080-61754601/602, Fax: 080 - 25730551 E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Any agreement entered into by these two institutions will require the approval of appropriate officers from each institution. All agreements and activities covered under this MOU or entered into by the parties must comply with all applicable laws and regulations, including all U.S. and (Country) export control laws and regulations.

For agreed upon activities, both institutions will make available their facilities and staffs. This MOU will take effect on and will be valid for five (5) years from the date noted in the first line of this document unless terminated by one of the parties. Either partymay withdraw from this MOU provided written notification of the withdrawal is given to the other partyat least three (3) months prior to the desired withdrawal date. This MOU may be renewed for another period of five (5) years upon mutual written consent of the parties before the expiration date. Each institution will have copies of this agreement.

The following authorized individuals have signed the present MOU on behalf of their respective institutions:

Dr. MS Shashidhara HOD-MCA The Oxford College of Engineering Bengaluru-560068

Department of MCA The Oxford College of Engineerin, Husur Road, BANGALORE - Divyashree Muddagangaiah Managing Director Kasiaex Solutions Private Limited Bengaluru-560097

### For Kasiaex Solutions Private Limited

Dimashie M Authorized Signatory Children's Education Society ®

### THE OXFORD COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Accredited by NBA, NAAC 'A' Grade, New

Delhi & Affiliated to VTU, Belgaum)

Hosur Road, Bommanahalli, Bengaluru-560 068

Website: www.theoxford.edu

### **Department of MCA**



The Department of MCA at The Oxford College of Engineering successfully organized a one-day hands-on workshop on "Innovative Web App Development with Spring and Spring Boot." On

18/12/2023 . The event aimed to provide students and aspiring web developers with practical insights into modern web application development using these cutting-edge frameworks. The workshop was attended by a diverse group of participants and was characterized by informative sessions, interactive coding exercises, and knowledge sharing.

The "One Day Hands-on Workshop on Innovative Web App Development with Spring and Spring Boot" was a resounding success, bringing together web developers, enthusiasts, and experts for an immersive experience in cutting-edge web app development. The workshop provided valuable insights into the latest trends, techniques, and best practices in the field, with a specific focus on leveraging Spring and Spring Boot frameworks for innovation.

### Introduction:

The workshop aimed to empower participants with the knowledge and skills required to create innovative web applications using Spring and Spring Boot. It offered a combination of informative presentations, hands-on coding sessions, and interactive discussions, ensuring a holistic learning experience for all attendees.

#### Agenda:

The workshop's agenda was well-structured, covering a wide range of topics, including:

- 1. Introduction to Spring and Spring Boot.
- 2. Setting up a development environment.
- 3. Building RESTful APIs with Spring Boot.
- 4. Front-end integration using popular JavaScript frameworks.
- 5. Advanced Spring features for web application development.
- 6. Best practices for security, scalability, and performance.
- 7. Deploying web applications to cloud platforms.
- 8. Case studies of innovative web apps developed with Spring and Spring Boot.

### Key Areas of Innovation:

1. Progressive Web Apps (PWAs): PWAs combine the best of web and mobile apps, offering offline capabilities, fast loading times, and engaging user experiences. They are gaining popularity due to their accessibility and user-centric design.

- 2. Single Page Applications (SPAs): SPAs load content dynamically without full page reloads, providing a smooth and responsive user experience. Frameworks like React and Angular have paved the way for SPA development.
- 3. Serverless Architecture: Serverless computing enables developers to focus on code while abstracting infrastructure management. This approach improves scalability and reduces operational overhead.
- 4. API-First Development: Building applications around well-defined APIs promotes modularity, flexibility, and ease of integration with other services.
- 5. Artificial Intelligence (AI) and Machine Learning (ML): Integrating AI and ML into web apps can enhance user personalization, recommendation systems, and automation.
- 6. Voice and Chatbot Interfaces: Voice-activated and chatbot interfaces offer new interaction paradigms, making web apps more conversational and user-friendly.
- 7. Blockchain Integration: Blockchain technology can improve security, transparency, and trust in web applications, particularly in sectors like finance and supply chain.

### Successful Case Studies:

- 1. Netflix: Netflix's recommendation algorithm, powered by machine learning, has revolutionized content personalization, keeping viewers engaged and satisfied.
- 2. Airbnb: Airbnb's progressive web app provides a seamless booking experience even with slow or unreliable internet connections, increasing user accessibility.
- 3. Uber: Uber's use of real-time geolocation data, combined with AI-driven route optimization, ensures efficient and reliable ride-sharing services.

### **Challenges and Future Outlook:**

While web app development continues to evolve, it also faces challenges, including security threats, data privacy concerns, and the need to adapt to changing web standards. Looking ahead, some key trends are expected to shape the future of web application development:

- 1. WebAssembly (Wasm): Wasm allows running high-performance code written in languages like C and Rust directly in web browsers, opening up new possibilities for web app functionality.
- 2. Edge Computing: Edge computing will reduce latency and improve response times by processing data closer to the end-users, enhancing web app performance.

Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengalura-560 068 Website:www.theoxford.edu

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### Department of MCA

### Workshop on "Advance application development using Spring and Spring Boot" VENUE: MCA LAB 1 & 2

### DATE: 18/12/2023

Participation List

		Signature	Department
SL No	Name of the Participant		McA
٨	Sachin kumar Osha	R RO	1191
		Quillour pp	MCA
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4	Bhoskar Chaudhary	Shoskorehardhory	1.
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	Of L'C kar Bha	Rhaben'	MCA.
9.	BhubanSanzaz	- The	Vert
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	8. Henrowth Kung G:B	11.15	Mct.
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	Dulette R Kudalka	Rucheha	MCH
	4 RUCH THU IS I DUN	Jay	MCA
	15 Jala.s	C dluip K (	MA
	16 Sandhya.k	Jartinger	NAC A
	17 Varshini. D.G.	-Varsheni DG	- CC-
	18 Usha Pani, M	Varshen D.G	MICA
	10 Adea Chaith	ARrill.	MCA
	14 Mysu Shunni	Priti	MCA
_	20 Price Ruman	Fleshore	MCA
	21 Laishram Vileshow Dell		

MCA Horewillust MCA Kumari Bueti Stanthong MCA Shamphavi Shgh 92. Prila 23. MCA A Prija. G Junga. H.S Gonharya. +1.5 MCA Tha. HA 25 Sneha, H.A. MCA 26 lyndus Myna Shree, B MCTI 27 too IP Abhighek. N MCA Rohith.V 29 Met Inp 30 Impon. K.G. Kg MCA Prasharth .# 31 Met MD MADHAN K.V 32 MA () 33 Rachitha MCA Sindhy. N 34 Spirish MCA GIERISHIR 35 MCA DILEEP-V 36 Venel VenuGropal HR MCA 37 1 DM MCA ABHTIASHA DN \$ 38 39 Keerthana HS the HS MeA Lokesh V 40 rees mcA-UMESH .R MCA 41 Ameen Safvan. A Atom 42 MCA Aga 43. Thanin jair G.S. MCA. 44. Jayanth. T. E MCA Kumar. S.R. SRKu 45 MCA Ywasing 46. YUVASHREE . S MCA Herely Namera Bonu 47. MCA 48. Vignesh G MCA

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Augmented Reality (AR) and Virtual Reality (VR): AR and VR technologies will transform web apps into immersive experiences, particularly in e-commerce, gaming, and education education.

4. Enhanced Security: Innovations in web security, including stronger authentication meth. methods and AI-driven threat detection, will safeguard user data and privacy.

## Feedback and Outcomes:

Participants expressed high levels of satisfaction with the workshop, citing its practicality and relevance which enabled them to relevance. They particularly appreciated the hands-on coding sessions, which enabled them to apply their newly acquired knowledge immediately. Innovation is at the heart of web app development's ability to meet the ever-changing needs of users and businesses. Embracing emerging technologies, adopting user-centric design principles, and staying informed about industry trends are essential for creating innovative and successful web applications.

### Key outcomes of the workshop included:

- Enhanced understanding of Spring and Spring Boot for web app development.
- Proficiency in creating RESTful APIs and integrating front-end technologies.
- Knowledge of best practices in security, scalability, and cloud deployment.
- Increased confidence in using Spring and Spring Boot to innovate in web development . projects.

Total of 150 students and 8 Faculties have participated in this event

The Hear Department of MC. The Oxford College of Engineering Hosus Road, BANGALORE -

Principal

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

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### Memorandum of Understanding

Between

M/s. EBiX. BiZ No-343/14, SR Arcade, 2<sup>nd</sup> Floor, Banaswadi, Bengaluru, Karnataka - 560043

and

### **Department** of MCA

The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between the M/s. EBiX. BiZ No-343/14, SR Arcade, 2<sup>nd</sup> Floor, Banaswadi, Bengaluru, Karnataka – 560043 and Department of MCA The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

#### Purpose

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- support development of employability enhancing skills and traits that lead to
  overall success of students, teachers and their institution.
- promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create Placements engagement and development opportunities for students and faculty through programmes, lectures, seminars, conferences, visits, events, study trips, internships.

The Head

12 4 2021

Department of MCA The Oxford College of Engineering HUBUI Road, BANGALORE

# 343/14, SR Arcade, 2<sup>rd</sup> Floor, Banaswadi, Bangalore - 560 043 Email : abbinav@ebixblz.co.in | Website : www.ebixbiz.co.in | Mobile : +91 9740640203 EBiX.BiZ

The above goals will be accomplished by undertaking the following activities. Anyfinancial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

- Co-organise and host international events, conferences, seminars that may include visits by international executive speakers, experts, faculty and students invited by Ureka to your city.
- Co-organise with, international and national conferences, seminars, events etc by means of nominating experts / faculty from the institution as speakers, panelists etc
- Jointly apply for research grants for Innovations
- Anything else not mentioned here but agreed between both parties through a written notification from either party

What does this MOU not provide unless agreed between both parties through a written notification from either party

Any form of financial commitment in the form of payments, discounts, vouchers etc

Assignment of any IPRs, patents, etc

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All financial arrangements to be agreed separately agreed between both parties through a written notification.

### Lapse of MOU

This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

Department of MCA The Oxford College of Engineerin; Hosus Road, BANGALORE -

# 343/14, SR Arcade, 2<sup>nd</sup> Floor, Banaswadi, Bangalore - 560 043 Email : abhinav@ebixbiz.co.in | Website : www.ebixbiz.co.in | Mobile : +91 9740640203



### Duration

3 years from the date of signing. This MOU is at-will and may be modified by both parties through a written notification from authorised officials from each party. This MOU shall become effective upon signature by the authorised officials and will remain in effect until modified or terminated by any one of the partiesthrough a written notification or the end of term of the MOU is reached.'

### Authorised Signatories

### M/s. EBiX. BiZ

No-343/14, SR Arcade, 2nd Floor, Banaswadi, Bengaluru, Karnataka - 560043

 Mr Abhinav M, Team Lead Email: abhinav@ebixbizco.in Telephone: +91-97406-40203

### **Department of MCA**

The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

 Dr. M S Shashidhara , Professor & Head Email : Telephone:080-61754650

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

The Head,

Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE -

# 343/14, SR Arcade, 2<sup>rd</sup> Floor, Banaswadi, Bangalore - 560 043 Email : abhinav@ebixbiz.co.in } Website : www.ebixbiz.co.in } Mobile : +91 9740640203



A letter of agreement will include such items as:

- 1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 2. Any other terms deemed necessary for the efficient management of the activity.

Signatures of concerning officials

or EBiX.BiZ Name: Mr Abhinav M. Texm Lend

Date: 12/04/21

Organization: M/s. EBiX. BiZ Designation: Team Lead

Department of MC Date: Name: Dr. M S Shashidhara Hosur Road, BANGALORE -

Organization: The Oxford College of Engineering Designation: Professor & Head

> # 343/14, SR Arcade, 2<sup>rd</sup> Floor, Banaswadi, Bangalore - 560 043 Email : abhinav@ebixblz.co.in | Website : www.ebixblz.co.in | Mobile : +91 9740640203





Date: 25<sup>th</sup> October, 2023

Name: Harshitha V USN: 10X22MC016 Placement ID: 230CTMLBONE

### Dear Student,

We would like to congratulate you on being selected for the Machine Learning with Python (Research Based) Internship position with Compsoft Technologies, effective Start Date 25<sup>th</sup> October, 2023, All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Machine Learning** with Python (Research Based) through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!.

Sincerely,

Nithin K. S **Project Manager** COMPSOFT TECHNOLOGIES No. 363, 19<sup>th</sup> main road, 1<sup>st</sup> Block Rajajinagar Bangalore - 560010

## 11/12/2020

### MEMORANDUM OF UNDERSTANDING

Between

Ureka Education Group Oxford Science Park, Oxford, OX4 4GP United Kingdom

and

Department of MCA The Oxford College of Engineering Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between the Ureka Education Group (hereby referred as "Ureka") that comprises of Ureka Education Ltd, London and its associate companies in UAE, France and India and MCA/The Oxford College of Engineering.

#### Purpose

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- create international engagement and development opportunities for students and faculty through programmes, lectures, seminars, conferences, visits, events, study trips, internships and initiatives like Data Science, Analytics& Cyber security club or the Global Business Leaders club for students etc

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE -

### What can Ureka Education UK provide

- International Programmes for students that include those cited below and others:
  - Setting up a Data Science, Analytics & Cyber Security Club and / or the Global Business Leaders Club for students, a free of charge initiative of Ureka Foundation
  - IBM, Pearson or University of Oxford Certified Online Training + Virtual Internship in Data Science and Analytics
  - Global Work Experience Programme with optional Certificate from University of Oxford – work on two live international projects in team with students from different countries and travel to UK / France / UAE / Austria for project completion after Covid related travel restrictions are eased.
  - International Management Professional Programme A jobskills programme with Experience Certificate from Ureka UK to prepare those with no or little prior work experience for top MNC jobs post Covid-19.
  - University of Oxford Certified Online Training + Virtual Internship in areas of Marketing, Finance, HR, Product Management, Sports Management and Entrepreneurship
  - Global Immersion Programmes academically rigorous, certified international study trips to California, London, Oxford, Lyon, Dubai, Singapore and Kuala Lumpur
- International Programmes for faculty that include those cited below and others:
  - Harvard Certified Future of Learning programme

Department of MCA The Oxford College of Engineering Hosus Road, BANGALORE -

- · University of Pennsylvania Certified Teaching Online Classes programme
- Arrange international faculty, experts, students visit to campus
- Co-organise international conferences, seminars, events etc
- Provide analytics driven Career Guidance by University of California certified professional
- Anything else not mentioned here but agreed between both parties through a written notification from either party

What can the MCA/The Oxford College of Engineering provide

- Co-brand and Promote Ureka Education UK's services amongst its students using online and offline media on a regular basis.
- Help establish and promote the Data Science, Analytics & Cybersecurity Club and/or the Global Business Leaders Club.
- Co-organise and host international events, conferences, seminars that may include visits by international executive speakers, experts, faculty and students invited by Ureka to your city.
- Co-organise with Ureka, international and national conferences, seminars, events etc by means of nominating experts / faculty from the institution as speakers, panelists etc - Jointly with Ureka, apply for research grants like Innovate UK,
- Anything else not mentioned here but agreed between both parties UKIERI, La French Tech etc
- through a written notification from either party

## What does this MOU not provide unless agreed between both parties through a written notification from either party Any form of financial commitment in the form of payments, discounts,

- vouchers etc
- Assignment of any IPRs, patents, etc

Department of MC The Oxford College of Engineerin; All financial arrangements to be agreed separately agreed between both parties through a written notification.

### Lapse of MOU

 This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

#### Duration

3 years from the date of signing. This MOU is at-will and may be modified by both parties through a written notification from authorised officials from each party. This MOU shall become effective upon signature by the authorised officials and will remain in effect until modified or terminated by any one of the partiesthrough a written notification or the end of term of the MOU is reached.

### Authorised Signatories

Ureka Education Group

 Ms Aamna Sultan, Chief Learning Officer Email: <u>as@ureka.co.uk</u> Telephone: +971 4 501 3917

MCA/The Oxford College of Engineering Dr. M S Shashidhara, Dean PG Studies hodmcatoce@theoxford.edu Telephone: 9845166153

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE -

upon activity Scheduled for specific activity

1 Elaboration of the responsibilities of each institution for the

2 Financial arrangement agreed between both particle for each a two. 3. Any other terms deemed necessary for the efficient management Signatures of concerning officials

Date 12-11-2020

Name Aamna Sultan Organization Ureka Education Group Designation Chief Learning Officer

Date: 11-12-2020

Name DNM S Shashidhara Organization: Department of MCA/The Oxford College of Er and and Designation Dean PG Studies - The Head Department of MCA

the Oxford College of Engineering Husen Road, BANGALORE -

The Head

Department of MCA The Oxford College of Engineerin, Hosm Road, BANGALORE -

### **INTERNSHIP OFFER LETTER**

Name<sup>.</sup> Nandihalli Manjunatha USN/Reg no: 10X22MC025



Dear Student.

We would like to congratulate you on being selected for the Full Stack Web Development Internship position with Dotch Endeavours Private Limited, effective Start Date from **30 October 2023**.

All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part time-job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Full Stack Web Development** through hands-on applications. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!.

Sumiya Sumiya Ahmed R Co-Founder **Dotch Endeavours Private Limited**
## **INTERNSHIP OFFER LETTER**

Name:
Harshitha
USN/Reg no:
10X22MC014



Dear Student.

We would like to congratulate you on being selected for the Full Stack Web Development Internship position with Dotch Endeavours Private Limited, effective Start Date from **30 October 2023**.

All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part time-job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Full Stack Web Development** through hands-on applications. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!.

Sumiya Sumiya Ahmed R Co-Founder **Dotch Endeavours Private Limited** 



## MEMORANDUM OF UNDERSTANDING

Between

### Technizz InfoTech, Bengaluru

### AND

### Department of MCA, The Oxford College of Engineering, Bengaluru

This Agreement made and entered into on this 12 day of January 2021 between Technizz Infotech, Bengaluru Bangalore (hereinafter called TI) situated at Electronics city Bengaluru-560100, and Department of MCA, The Oxford College of Engineering (hereinafter called " Dept. MCA " which expression shall include its successors and permitted assignees) with its registered office at both the Organization. The Validity of MoU is One Year from 12.01.2021.

### 1. OBJECTIVES OF THE MOU

The objective of this Memorandum of Understanding is:

- a. To promote interaction between MTS and Dept. MCA in mutually beneficial areas.
- b. To provide a formal basis for initiating interaction between MTS and DEPT. MCA.

## 2. PROPOSED MODES OF COLLABORATION

MTS and DEPT. MCA propose to collaborate through

- a. Sponsoring student projects / fellowships in MCA.
- Sponsoring eligible employees of DEPT. MCA for doing/ Undertaking Research Oriented Projects. The eligibility criteria for selection will be as per norms of MTS.
- c. Sponsoring R&D projects, which may be carried out wholly at MTS or at premises of DEPT. MCA or partly at MTS and partly at DEPT. MCA?
- d. Training of DEPT. MCA personnel through Continuing Education Programmes conducted by MTS in areas of interest to DEPT. MCA.
- e. Any other appropriate mode of interaction agreed upon between MTS and DEPT. MCA.

Each of the above modes of interaction will be initiated by entering into a separate agreement between the two parties.

## 3. FORMS OF RESEARCH AND DEVELOPMENT PROGRAMS

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The form of any of the said Research and Development Program (hereinafter referred to as "Research Program") will be subject to a separate Research Agreement entered into by the Parties but may also include the following:

a. In their own existing facilities - The performance of research individually by each Party or concurrently by both Parties in mixed groups at their own facilities/Students with regular exchanges of results.

In a separate research and development facility - The performance of research by the technical personnel of both Parties working together in the facilities of one Party or in mixed groups at the facilities supported/ sponsored by either Party.

c. Third parties - The performance of research by the Parties together with one or more third parties.

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## 4. TECHNICAL AREAS OF COLLABORATION

The principal technical areas of collaboration between MTS and DEPT. MCA will be as set

## 5. AGREEMENTS FOR RESEARCH COLLABORATION

- Each research collaboration undertaken by the parties hereunder shall be initiated by the signing of a separate research agreement between the parties, which will describe in detail:
- a. the nature, scope and schedule of the research/Project collaboration.
- c. the estimated cost of the research/Project development collaboration together with the d. the treatment of intellectual property and data rights, including patents, industrial design registration, copyrights and all other proprietary information (including innovations
- not patented, designs not registered etc.) which result from the research collaboration or
- which belong to a party and are used in research collaboration. e. other provisions as may be mutually agreed upon, including provisions covering the

consequences of default or termination by a participant, term, arbitration of disputes

## 6. CONFIDENTIALITY

a. During and for a period of three years from the date of disclosure, each party agrees to consider as confidential all information disclosed by the other party in written or tangible form or, if orally disclosed confirmed in writing within thirty days of disclosure and

- b. The obligations above shall not extend to any confidential information for which the
  - is in the public domain at the time of disclosure or comes within the public domain

  - is already known or become known to the receiving party
  - is received from a third party having no obligations of confidentiality to the disclosing

  - is independently developed by the receiving party; or is required to be disclosed by law or court order.

## 7. NON-EXCLUSIVITY

The relationship of the parties under this MOU shall be nonexclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular research agreement, the participants may agree to limit each party's right to collaborate with others on that subject.

## 8. TERMS AND TERMINATION

This MOU, unless extended by mutual written agreement of the parties, shall expire 3 years after the effective date specified in the opening paragraph. This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any Research Agreement, Confidentiality clause as referenced in clause 6 above, or any other agreement entered into pursuant to this MOU, which obligations shall survive any such termination.

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## 9. RELATIONSHIP

Nothing in this MOU shall be construed to make either party a partner, an agent or legal representative of the other for any purpose.

## **10. ASSIGNMENT**

It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and hence neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.

## 11. COSTS OF THE MOU

Each Party shall bear the respective costs of carrying out the obligations under this MOU.

## **12. SIGNED IN DUPLICATE**

This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

202

On behalf of

Technizz InfoTech, Bengaluru

on behalf of

By

Title

Date

Witness :

Dept. of MCA-TOCE, Bengaluru

Name : Dr. MS Shashidhara

: Prof & Head Pepartment of MCA

: 10.0#2021 Road, BANGALORE -

The Oxford College of Engineering.

Name : Md. Kafee

Title : Director

Date : 10.01.2021

Witness :

2.

1. MUKesh Kunar

SHOKRA 12th Jan - 2021

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## **Certificate of Selection**

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **L Mahesh** will be doing a **Machine Learning With Python** in SkillForge from 02/11/2023 to 13/12/2023

During this period, he/she will work on a project on Internship. We will ensure that he/she exhibits good skills with a self-motivated attitude to learn new things. We will also see to it that his/her performance matches the industry standards.

From SkillForge Pvt. Ltd.

Allamsetty Harshith Date: - 02/11/2023

## SKILLFORGE E- LEARNING SOLUTIONS PRIVATE LIMITED

No. 1537, 5th Main Road, Rajiv Gandhi Nagar, Sector - 7, HSR Layout, Bangalore - 560102



## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered on 18th August, 2020

By & Between

Combined Group of Science & Technology, 65/1, First Floor, G S Palya Road, Konappana Agrahara,E-city post, Bangalore-560100

and

MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between **Combined Group of Science & Technology, 65/1, First Floor, G S Palya Road, Konappana Agrahara,E-city post, Bangalore-560100 and MBA Department , The Oxford College of Engineering**, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

## **Purpose:**

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This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- Support enhancement of research analysis skills, employability skills and traits that lead to overall success of students, teachers and their institution.
- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.

# 65/1, First Floor, G.S. Palya Road, Konappana Agrahara, E-City Post, Bangalore - 560 100. E-mail : info@citguru.com | www.citguru.com | Mob : 9582853809

thorized Signatory

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

- Co-organise and host events, conferences, seminars and Guest lectures that may include nominating experts/visits by executive speakers, experts, faculty and students.
- Anything else not mentioned here but agreed between both parties through a written notification from either party

What does this MOU not provide unless agreed between both parties through a written notification from either party

- Any form of financial commitment in the form of payments, discounts, vouchers etc
- Assignment of any IPRs, patents, etc

All financial arrangements to be agreed separately agreed between both parties through a written notification.

## Lapse of MOU

- This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 48months from the start of the agreement date and each anniversary thereon.

## Duration

Four years from the date of signing and shall be renewed for every year. This MOU is atwill and may be modified by both parties through a written notification from authorised officials from each party. This MOU shall become effective upon signature by the authorised officials and will remain in effect until modified or terminated by any one of the partiesthrough a written notification or the end of term of the MOU is reached. Mrs. Shivani Tanya Director Combined Group of Science & Technology, 65/1, First Floor, G S Palya Road, Konappana Agrahara,E-city post, Bangalore-560100 Mail: <u>info@citguru.com</u> Ph: 89582853809

&

Dr. R V Dhanalakshmi Department of MBA The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068 Email : <u>hodmcatoce@theoxford.edu</u> Telephone:080-61754650

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- 1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 2. Any other terms deemed necessary for the efficient management of the activity.

For CGST 8 2020 ang zed Signatory | 8

12020 For CGST Signatures of concerning officials, 18 Authorized Signatory

Date:

Aug 2020

Name: Mrs. Shivani Tanya Organization: Combined Group of Science & Technology Designation: Director

HOD, Depti. of Business Administration 18/8/2025

Bommanahalh, Hosur Road Bangalore 560 068

18/8/2020 Date:

Name: Dr. R V Dhanalakshmi

HOD-MBA Department of MBA Organization: The Oxford College of Engineering.

Witness:

1. J. Sahan 18/8/2020 (Prog. A. SAHANA 2. MWK- IP/8/1020 Gr. M. Kalthirwan) 2.

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## Department of Business Administration THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

8-01-2024

## CIRCULAR

Dear 3<sup>rd</sup> Semester MBA students, there will be a Guest Lecture on "**RESEARCH METHODOLOGY**" organizing by COMINED GROUP OF SCIENCE & TECHNOLOGY, BANGALORE in association with department of MBA. The details are as follows:

Date: 19-01-2024

Venue: Seminar hall, 6<sup>th</sup> floor, The Oxford College of EngineeringResource Person: Dr. John. M, COMINED GROUP OF SCIENCE & TECHNOLOGY, Bangalore

All are informed to participate.

HOD, Dept. of Business Ad. The Oxford College of Engineering Bommanahall, Hosur Road Bangalore 560 068

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## THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068

25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

List of Students Participated in

## GUEST LECTURE on RESEARCH METHODOLOGY Organized by COMINED GROUP OF SCIENCE & TECHNOLOGY, BANALORE

Date: 19-01-2024

Venue: The Oxford College of Engineering

MBA 3<sup>rd</sup> Semester

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6	10X22BA006	BHANUSHA B M
7	10X22BA007	BHARATHKUMAR V N
8	10X22BA008	CHETHAN K G
9	10X22BA009	CHETHAN R
10	10X22BA010	DARSHAN MAHESH GOWDAR
11	10X22BA011	GANESH C S
12	10X22BA012	GEETHANJALI N
13	10X22BA013	HEMASHREE S
14	10X22BA014	IQRA AKTHAR BANU
15	10X22BA015	JAGADEESHA SHRIPAD HEGDE
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No. of Students Present: 117

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## A REPORT ON GUEST LECTURE on RESEARCH METHODOLOGY

COMINED GROUP OF SCIENCE & TECHNOLOGY, BANALORE

## DEPARTMENT OF BUSINESS ADMINISTRATION THE OXFORD COLLEGE OF ENGINEERING

19<sup>th</sup> January, 2024

A Guest Lecture was organized by THE COMBINED INSTITUTE OF TECHNOLOGY, BANALORE on 19<sup>th</sup> January, 2024,

at The Oxford College of Engineering on the topic "**RESEARCH METHODOLOGY**". Total number of Students Present: 117 MBA students

The main goal of the Guest Lecture on RESEARCH METHODOLOGY is to help students develop research skills and competencies, acquaint them with contemporary real life aspects of Marketing, HR and Finance domains, and improve the effectiveness of their independent research work, which is required for the successful preparation of the term paper and Master's thesis.

In the present day, the world is facing a number of challenges in the engineering, Management, environmental and other sectors. This has led to the need of instilling research at academic level. The Oxford College of Engineering being active in research recognizes the prominence of research to be inculcated among the Management students right from their first semester. To channelize the vigor and passion of Management students, to cultivate their understanding and skills to carry out research, MBA Department in association with Research Post, Bangalore organized a Guest Lecture on "Research Skills" in the Department on 19-01-2024.

There were Presentations on "Becoming a Researcher in the field of Business Management" and "Art of Writing Research Papers and Research Report" by Dr. John.M during the Guest Lecture



Guest Lecture by Dr. John M on Research Skills

The Guest Lecture was attended by 117students from MBA programme.

At MBA programmeThe research seminar allows students to work with prominent researchers and professionals and adjust their individual prospectuses, helps students refine their skills of research, text dispensation, searching scholarly info and presenting their work.

Students also improve their understanding of study proposal, which includes defining the hypothesis, providing a basis for it and selecting a line of argument. Students then write term papers to cabinet and review the results obtained during research seminars. is one of the options.

## Points highlighted by the Speaker:

- 1. Professional orientation of students to help them choose the field and topic of their dissertation
- 2. Inculcating academic skills, including preparing and conducting research
- 3. Involving students in project activities and R&D for government
- 4. Writing and publishing student papers and articles



Guest Lecture by Dr. John M on Research Skills

The students were made aware of the personalities of a virtuous researcher, skills that they need to develop to become a noble researcher and how they can develop a positive perception/attitude towards research during lecture.

The students were also given recommendations to publish their research aftermaths and the students were made conscious of usage of Scopus, Research Gate, and other ICT tools for Research. The Guest Lecture was a memorable learning for the Management students.

D, Dept. Of Business Automatic The Oxford College of Engineering HOD, Dent. Bommanahalla, Hosur Road

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## **MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (MOU) is entered on 5th August, 2020

### By & Between

Plantszone, Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099

and

MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between **Plantszone, Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099 and MBA Department The Oxford College of Engineering**,10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

### **Purpose:**

0

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- Support enhancement of employability skills and traits that lead to overall success of students, teachers and their institution.
- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create Placement engagements and development opportunities for students and faculty through programmes, Guest lectures, seminars, conferences, visits, events, study trips.

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

- Co-organise and host events, conferences, seminars and Guest lectures that may include nominating experts/visits by executive speakers, experts, faculty and students.



notification from either party Anything else not mentioned here but agreed between both parties through a written

1

notification from either party What does this MOU not provide unless agreed between both parties through a written

- Any form of financial commitment in the form of payments, discounts, vouchers etc
- Assignment of any IPRs, patents, etc

written notification. All financial arrangements to be agreed separately agreed between both parties through a

## Lapse of MOU

This MOU will lapse if there is no activity or engagement between both the parties for a thereon. continuous period of 60 months from the start of the agreement date and each anniversary

## Duration

written notification or the end of term of the MOU is reached. and will remain in effect until modified or terminated by any one of the partiesthrough a from each party. This MOU shall become effective upon signature by the authorised officials and may be modified by both parties through a written notification from authorised officials 5 Years from the date of signing and shall be renewed for every year. This MOU is at-will

# Authorised Signatories:

Plantszone, Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099

Mr. Manoj. D

Founder,

Plantszone

Mail: plantszone.store@gmail.com. Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099.

Ph: 8618141147

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- 9. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 10. Any other terms deemed necessary for the efficient management of the activity.

## Signatures of concerning officials

Wonoj.

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Name: Mr Manoj D

Organization: Plantszone

Designation: Fonder

HOD, Deptt. of Business Administration The Oxford College of Engineering Bommanahalh, Hosur Road Bangalore 560 068

Name: Dr. R V Dhanalakshmi

HOD-MBA

Organization: The Oxford College of Engineering

## Witness:

1. MWV 5/8/2020) (Dr.M. Kathinary)



Date: 05/AUG/2020

Date: 5/8/2020

2. When I a Rami Rodoly



## Department of Business Administration THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

## CIRCULAR

01-12-2023

Dear 3<sup>rd</sup> Semester MBA students, there will be a Work Shop on "DATA SCIENCE" organizing by PLANTS ZONE, BANGALORE in association with department of MBA. The details are as follows:

Date: 08-12-2023

Venue: Seminar hall, 6<sup>th</sup> floor, The Oxford College of Engineering

Resource Person:

Mr.SRIKANTH BALASUBRAMANIAN

Founder & CEO, Best in Town Analytics, Bangalore

&

Mr.RAJKUMAR SANKARAN, Trainer, Best in Town Analytics, Bangalore

All are informed to participate.

HOD, Dent. of Business Adminustration The Oxford College of Engineering Bommanahall, Hosur Road Bangalors 560 068



## THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

List of Students Participated in

## Work Shop on "DATA SCIENCE Organized by PLANTS ZONE, BANALORE

Date: 08-12-2023

## Venue: The Oxford College of Engineering

## MBA 3<sup>rd</sup> Semester

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114	10X22BA110	VINODA VC
115	10X22BA117	
116	10X22BA118	VISHNU KUMAK M
117	10X22BA119	WASEEMA FIRDOUS

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No. of Students Present: 117

HOD, Depat. of Business April Instrace The Oxford College of Bagineering Bommanahali, Hosur Road Bangators 560 068





## A REPORT ON

## Work Shop on "DATA SCIENCE

Organized by PLANTS ZONE, BANALORE

## DEPARTMENT OF BUSINESS ADMINISTRATION THE OXFORD COLLEGE OF ENGINEERING

08-12-2023

## Resource Persons: Mr.Srikanth Balasubramanian & Mr.Rajkumar Sankaran

## Faculty coordinators: Dr. K. THARAKA RAMI REDDY & Prof. VIJAIANAND.A

A workshop on Data Science was organized by Plants Zone, Bangalore on 08-12-2023 and the recourse persons are Mr.Srikanth Balasubramanian & Mr.Rajkumar Sankaran from Best in Town Analytics, Bangalore to develop conceptual and analytical skills, has initiated a drive to upskill its students with the hands-on session on Data Analytics using Excel and SPSS



Business Analytics is a set of tools and techniques that can be used to improve business performance through fact-based decision-making. Data Exploration, Business Intelligence and Data Mining have been there for a while and helped Businesses to create Data Discipline in the organization. Business Analytics is the subset of Business Intelligence, which helps companies to understand the past and predict the future to improve company's effectiveness in the market place.



The Workshop is aimed on to understand the role of business analytics within an organization.

- To gain an understanding of how managers use business analytics to formulate and solve business problems and to support managerial decision making.
- Use analytics in customer requirement analysis, general management, marketing, finance, operations, and HR
- To become familiar with the processes needed to develop, report, and analyze business data.
- To learn how to use and apply Excel and Excel add-ins to solve business problems using Business Analytics.



The session has covered the following:-

- Introduction to Analytics
- Data Science Market Scenario
- Career in Data Science
- Thinking in Analytics

Case Study I – Simple Linear Regression -Tool: Excel



The workshop helped the participants to know, how to perform data analysis using Excel's most popular features, how to create pivot tables from a range with rows and columns in Excel and the power of Excel pivots in action and their ability to summarize data in flexible ways, enabling quick exploration of data and producing valuable insights from the accumulated data.

HOD Admus sincss DD, Dentt

The Oxford College of English Bommanahalli, Hosur Road Bangalore 560 068

## GSTIN : 29AKKPT1362L1ZJ

## **MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (MOU) is entered on 21<sup>st</sup> January, 2022

By & Between

Resarch International, #2, 1<sup>st</sup> Floor, G S Palya Road, Koanappana Agrahara, E-City Post, Bangalore-560100

and

MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between Resarch International, #2, 1<sup>st</sup> Floor, G S Palya Road, anappana Agrahara, E-City Post, Bangalore-560100

and

**MBA Department**, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

## **Purpose:**

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create development opportunities for students and faculty through programmes, Guest lectures, seminars, conferences, visits, events, study trips. The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification. Co-organise and host events, conferences,

# 2, First Floor, G.S. Palya Road, Konappana Agrahara, E-City Post, Bangalore - 560 100 www.ijerp.com 8792451077

notification from either party Anything else not mentioned here but agreed between both parties through a written

# notification from either party What does this MOU not provide unless agreed between both parties through a written

- Any form of financial commitment in the form of payments, discounts, vouchers etc
- Assignment of any IPRs, patents, etc

1

All financial arrangements to be agreed separately agreed between both parties through a written notification.

## Lapse of MOU

thereon. continuous period of 36 months from the start of the agreement date and each anniversary This MOU will lapse if there is no activity or engagement between both the parties for a

## Duration

partiesthrough a written notification or the end of term of the MOU is reached. officials and will remain in effect until modified or terminated by officials from each party. This MOU shall become effective upon signature by the authorised will and may be modified by both parties through a written notification from authorised Three years from the date of signing and shall be renewed for every year. This MOU is atany one of the

# Authorised Signatories:

Post, Bangalore-560100, Ph: 8792451077 Resarch International, #2, 1<sup>st</sup> Floor, G S Palya Road, Konanappana Agrahara, E-City

Ms. Shivani Tanya, Director

## Department of MBA

890 The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560

Dr. K Tharaka Rami Reddy HOD-MBA, Email : <u>hodmcatoce@theoxford.edu</u> Telephone:9741633223

general arrangement following signature by the appropriate authorities of both parties. agreement. Specific details will be set forth in a letter of agreement which will form part of this Through these contact persons, either party may initiate proposals for activities under this

A letter of agreement will include such items as:

- Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 2 Any other terms deemed necessary for the efficient management of the activity

Signatures of concerning officials

For Research tional

Date:

2 ---

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Proprietor Name: Ms. Shivani Tanya

Organization: Combined Institute of Technology Designation: Director

Date: 21 -

Jonenwar .

4044

Name: Dr. K Tharaka Rami Reddy

HOD-MBA Organization: The Oxford College of Engineering HOD, Dept. of Business Administration HOD, Dept. College of Engineering The Oxford College of Engineering

Bommanahalh, Hosur Road Bangalore 560 068

## Department of Business Administration THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

01-02-2024

## Dear 3<sup>rd</sup> Semester MBA students, there will be a Guest Lecture on "**RESEARCH SKILLS AND REPORT WRITING**" organizing by THE RESEARCH INTERNATIONAL, BANGALORE in association with department of MBA. The details are as follows:

CIRCULAR

## Date: 10-022024

Venue: Seminar hall, 6<sup>th</sup> floor, The Oxford College of Engineering Resource Person: Dr. Saibaba, The Research Post, Bangalore

All are informed to participate.

HOD, Deput. of Business Administrations The Oxford College of Engineering Bommanahall, Hosur Road Bangalore 560 068



## THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:www.theoxford.eduEmail :engprincipal@theoxford.edu (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

List of Students Participated in

## GUEST LECTURE on RESEARCH SKILLS AND REPORT WRITING

## Organized by THE RESEARCH INTERNATIONAL, BANALORE

Date: 10-02-2024

Venue: The Oxford College of Engineering

MBA 3<sup>rd</sup> Semester

Sl.	USNo	Name
1	10X22BA001	ADITHYA K N
2	10X22BA002	ADITYA
3	10X22BA003	AKASH GOWDA M
4	10X22BA004	AMRUTHA S
5	10X22BA005	ARCHANA L
6	10X22BA006	BHANUSHA B M
7	10X22BA007	BHARATHKUMAR V N
8	10X22BA008	CHETHAN K G
9	10X22BA009	CHETHAN R
10	10X22BA010	DARSHAN MAHESH
11	10X22BA011	GANESH C S
12	10X22BA012	GEETHANJALI N
13	10X22BA013	HEMASHREE S
14	10X22BA014	IQRA AKTHAR BANU
15	10X22BA015	JAGADEESHA SHRIPAD
16	10X22BA016	KANNAN
17	10X22BA017	KARTHIK C M
18	10X22BA018	KIRAN
19	10X22BA019	KIRAN GOKANVI
20	10X22BA020	KUMARASWAMY R N

21	1OX22BA021	LAXMINARAYAN R
22	10X22BA022	MANOJ R
23	10X22BA023	MARUTHI PRASAD H H
24	10X22BA024	MONIKA S
25	10X22BA025	NAVYASHREE C
26	10X22BA026	NISHANTHI M
27	10X22BA027	NITHIN
28	10X22BA028	NITHIN D GANI
29	10X22BA029	NIVEDITHA L
30	10X22BA030	POOJASHREE S
31	1OX22BA031	PRAJWAL P
32	10X22BA032	PRATHIBHA KM
33	1OX22BA033	PRIYANKA KANAJE
34	10X22BA034	PULI MOUNIKA
35	10X22BA035	RANJITHA R
36	10X22BA036	RATHNAVEL S
37	10X22BA037	RAVI KUMAR S M
38	10X22BA038	RESHMA SK
39	10X22BA039	S N CHANDANA
40	10X22BA040	SAHANA
41	1OX22BA041	SAHANA A
42	10X22BA042	SAI SUSHMA
43	10X22BA043	SANGEETHA K E
44	10X22BA044	SANGEETHA S
45	10X22BA045	SANJAY SHETTY L
46	10X22BA046	SHALINI S M
47	10X22BA047	SHIVAKUMAR M N
48	10X22BA048	SHRUTHI S
49	10X22BA049	SIRISHA V
50	10X22BA050	SNEHA JAYAWANT
51	10X22BA051	SUHANA BANU A
52	10X22BA052	VAMSHI R M
52	10X22BA053	VEERA MANIKANTA K
53	TUA22DA055	
54	10X22BA054	VIKAS M
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55	10X22BA055	VINOD KUMAR S
56	10X22BA056	YASHAVANTHA S
57	10X22BA057	АЈАҮК
58	10X22BA058	AKSHAY DHARSHAN M
59	10X22BA059	AKSHAY S V IGAR
60	10X22BA060	ANANDA N
61	10X22BA061	ANNAPOORNA.R
62	10X22BA062	ANURAG R
63	10X22BA063	ARIKA V
64	10X22BA064	BABU RC
65	10X22BA065	BASKAR B
66	10X22BA066	BHARATH G
67	10X22BA067	BHAVADHARANI S
68	10X22BA068	BRIJIN E
69	10X22BA069	C HARATHI
70	10X22BA070	CHANDRAKANTH S
71	10X22BA071	CHANDRU G
72	10X22BA072	CHETHANA R
73	10X22BA073	DARSHAN S
74	10X22BA074	ERWIN PRINCE
75	10X22BA075	GAJAVARAN C
76	10X22BA076	GIRISH K V
77	10X22BA077	GOKUL PRASATH P
78	10X22BA078	HARINI S
79	10X22BA079	HEMANTH KUMAR C
80	10X22BA080	HEMAVATHI M
81	10X22BA081	KAVANA BC
82	10X22BA082	KAVIARASU T
83	10X22BA083	LIYAKATH BASHA A
84	10X22BA084	LOKESH N
85	10X22BA085	LOKESH KUMAR.P
86	10X22BA086	MAAZ SHARIFF
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87	10X22BA087	MEGANATHAN S
88	10X22BA088	MEGHANA N
89	10X22BA089	MEGHASHREE AH
90	10X22BA090	MOHAN L
91	10X22BA091	MURALI R S
92	10X22BA092	N S SHRAVANAKUMAR
93	10X22BA093	NASEEMA BEGUM
94	10X22BA094	PAVAN M
95	10X22BA095	PAVAN YADAV K S
96	10X22BA096	PRAGATHI H S
97	10X22BA097	PURUSHOTHAM REDDY
98	10X22BA099	RAKSHITH N
99	10X22BA100	RAKSHITHA G
100	10X22BA101	RAVI KUMAR S V
101	10X22BA102	ROBERT REJI
102	10X22BA103	SAHANA H M
103	10X22BA104	SANGEETHA B
104	10X22BA105	SANKETH H U
105	10X22BA106	SANTHOSHNAIKA G N
106	10X22BA107	SHRAVANI N
107	10X22BA109	SUNITHA M V
108	10X22BA110	SURESH B G
109	10X22BA111	VAISHNAVI B
110	10X22BA112	VANITHA S
111	10X22BA113	VARSHINI D
112	10X22BA114	VEERENDRA HP
113	10X22BA115	VENNILA
114	10X22BA116	VIJAY KUMAR B S
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No. of Students Present: 117

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#### A REPORT ON

#### GUEST LECTURE on RESEARCH SKILLS AND REPORT WRITING

Organized by THE RESEARCH INTERNATIONAL, BANALORE

#### DEPARTMENT OF BUSINESS ADMINISTRATION THE OXFORD COLLEGE OF ENGINEERING

10-02-2024

A Guest Lecture was organized by THE RESEARCH INTERNATIONAL, BANALORE on 10-02-2024, at The Oxford College of Engineering on the topic "RESEARCH SKILLS AND REPORT WRITING".

Total number of Students Present: 117 MBA students

The main goal of the Guest Lecture on RESEARCH SKILLS AND REPORT WRITING is to help students develop research skills and competencies, acquaint them with contemporary real life aspects of Marketing, HR and Finance domains, and improve the effectiveness of their independent research work, which is required for the successful preparation of the term paper and Master's thesis.

In the present day, the world is facing a number of challenges in the engineering, Management, environmental and other sectors. This has led to the need of instilling research at academic level. The Oxford College of Engineering being active in research recognizes the prominence of research to be inculcated among the Management students right from their first semester. To channelize the vigor and passion of Management students, to cultivate their understanding and skills to carry out research, MBA Department in association with Research Post, Bangalore organized a Guest Lecture on "Research Skills" in the Department on **10-02-2024** 

There were Presentations on "Becoming a Researcher in the field of Business Management" and "Art of Writing Research Papers and Research Report" by Dr. Saibaba during the Guest Lecture



Introducing the Speaker by Prof. Kalavathy

The Guest Lecture was attended by 71students from MBA programme.

At MBA programmeThe research seminar allows students to work with prominent researchers and professionals and adjust their individual prospectuses, helps students refine their skills of research, text dispensation, searching scholarly info and presenting their work.

Students also improve their understanding of study proposal, which includes defining the hypothesis, providing a basis for it and selecting a line of argument. Students then write term papers to cabinet and review the results obtained during research seminars. is one of the options.

#### Points highlighted by the Speaker:

- 1. Professional orientation of students to help them choose the field and topic of their dissertation
- 2. Inculcating academic skills, including preparing and conducting research
- 3. Involving students in project activities and R&D for government
- 4. Writing and publishing student papers and articles



Guest Lecture by Dr. Saibaba on Research Skills

The students were made aware of the personalities of a virtuous researcher, skills that they need to develop to become a noble researcher and how they can develop a positive perception/attitude towards research during lecture.

The students were also given recommendations to publish their research aftermaths and the students were made conscious of usage of Scopus, Research Gate, and other ICT tools for Research. The Guest Lecture was a memorable learning for the Management students.

T Business Administration

The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore 560 068



#### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered on 18th August, 2020

By & Between

Combined Group of Science & Technology, 65/1, First Floor, G S Palya Road, Konappana Agrahara,E-city post, Bangalore-560100

and

MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between **Combined Group of Science & Technology, 65/1, First Floor, G S Palya Road, Konappana Agrahara,E-city post, Bangalore-560100 and MBA Department , The Oxford College of Engineering**, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

#### **Purpose:**

0

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- Support enhancement of research analysis skills, employability skills and traits that lead to overall success of students, teachers and their institution.
- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
   For CGST

# 65/1, First Floor, G.S. Palya Road, Konappana Agrahara, E-City Post, Bangalore - 560 100. E-mail : info@citguru.com | www.citguru.com | Mob : 9582853809

thorized Signatory

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

- Co-organise and host events, conferences, seminars and Guest lectures that may include nominating experts/visits by executive speakers, experts, faculty and students.
- Anything else not mentioned here but agreed between both parties through a written notification from either party

What does this MOU not provide unless agreed between both parties through a written notification from either party

- Any form of financial commitment in the form of payments, discounts, vouchers etc
- Assignment of any IPRs, patents, etc

All financial arrangements to be agreed separately agreed between both parties through a written notification.

#### Lapse of MOU

- This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 48months from the start of the agreement date and each anniversary thereon.

#### Duration

Four years from the date of signing and shall be renewed for every year. This MOU is atwill and may be modified by both parties through a written notification from authorised officials from each party. This MOU shall become effective upon signature by the authorised officials and will remain in effect until modified or terminated by any one of the partiesthrough a written notification or the end of term of the MOU is reached. Mrs. Shivani Tanya Director Combined Group of Science & Technology, 65/1, First Floor, G S Palya Road, Konappana Agrahara,E-city post, Bangalore-560100 Mail: <u>info@citguru.com</u> Ph: 89582853809

&

Dr. R V Dhanalakshmi Department of MBA The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068 Email : <u>hodmcatoce@theoxford.edu</u> Telephone:080-61754650

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- 1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 2. Any other terms deemed necessary for the efficient management of the activity.

For CGST 8 2020 ang zed Signatory | 8

12020 For CGST Signatures of concerning officials, 18 Authorized Signatory

Date:

Aug 2020

Name: Mrs. Shivani Tanya Organization: Combined Group of Science & Technology Designation: Director

HOD, Depti. of Business Administration 18/8/2025

Bommanahalh, Hosur Road Bangalore 560 068

18/8/2020 Date:

Name: Dr. R V Dhanalakshmi

HOD-MBA Department of MBA Organization: The Oxford College of Engineering.

Witness:

1. J. Sahan 18/8/2020 (Prog. A. SAHANA 2. MWK- IP/8/1020 Gr. M. Kalthirwan) 2.

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#### Department of Business Administration THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

8-01-2024

#### CIRCULAR

Dear 3<sup>rd</sup> Semester MBA students, there will be a Guest Lecture on "**RESEARCH METHODOLOGY**" organizing by COMINED GROUP OF SCIENCE & TECHNOLOGY, BANGALORE in association with department of MBA. The details are as follows:

Date: 19-01-2024

Venue: Seminar hall, 6<sup>th</sup> floor, The Oxford College of EngineeringResource Person: Dr. John. M, COMINED GROUP OF SCIENCE & TECHNOLOGY, Bangalore

All are informed to participate.

HOD, Dept. of Business Ad. The Oxford College of Engineering Bommanahall, Hosur Road Bangalore 560 068

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#### THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068

25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

List of Students Participated in

#### GUEST LECTURE on RESEARCH METHODOLOGY Organized by COMINED GROUP OF SCIENCE & TECHNOLOGY, BANALORE

Date: 19-01-2024

Venue: The Oxford College of Engineering

MBA 3<sup>rd</sup> Semester

SI.	USNo	Name
1	10X22BA001	ADITHYA K N
2	10X22BA002	ADITYA
3	10X22BA003	AKASH GOWDA M PATIL
4	10X22BA004	AMRUTHA S
5	10X22BA005	ARCHANA L
6	10X22BA006	BHANUSHA B M
7	10X22BA007	BHARATHKUMAR V N
8	10X22BA008	CHETHAN K G
9	10X22BA009	CHETHAN R
10	10X22BA010	DARSHAN MAHESH GOWDAR
11	10X22BA011	GANESH C S
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17	10X22BA017	KARTHIK C M
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19	10X22BA019	KIRAN GOKANVI
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26IOX22BA026NISHANTHI M27IOX22BA027NITHIN28IOX22BA028NITHIN D GANI29IOX22BA029NIVEDITHA L30IOX22BA030POOJASHREE S31IOX22BA031PRAJWAL P32IOX22BA032PRATHIBHA KM33IOX22BA033PRIYANKA KANAJE34IOX22BA034PULI MOUNIKA35IOX22BA035RANJITHA R36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA038RESHMA SK39IOX22BA039S N CHANDANA40IOX22BA040SAHANA41IOX22BA041SAHANA A42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA045SANJAY SHETTY L46IOX22BA046SHALINI S M47IOX22BA047SHIVAKUMAR M N48IOX22BA049SIRISHA V50IOX22BA051SUHANA BANU A51IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VINOD KUMAR S55IOX22BA055VINOD KUMAR S56IOX22BA057AJAY K	25	10X22BA025	NAVYASHREE C	
27IOX22BA027NITHIN28IOX22BA028NITHIN D GANI29IOX22BA029NIVEDITHA L30IOX22BA030POOJASHREE S31IOX22BA031PRAJWAL P32IOX22BA032PRATHIBHA KM33IOX22BA033PRIYANKA KANAJE34IOX22BA034PULI MOUNIKA35IOX22BA035RANJITHA R36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA038RESHMA SK39IOX22BA039S N CHANDANA40IOX22BA040SAHANA41IOX22BA041SAHANA A42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA S45IOX22BA045SANJAY SHETTY L46IOX22BA047SHIVAKUMAR M N48IOX22BA049SIRISHA V50IOX22BA050SNEHA JAYAWANT NAIK51IOX22BA051SUHANA BANU A52IOX22BA052VAMSHI R M53IOX22BA054VIKAS M54IOX22BA055VINOD KUMAR S55IOX22BA056KYASHAVANTHA S KORIGANNAVARA56IOX22BA057AJAY K	26	10X22BA026	NISHANTHI M	
28IOX22BA028NITHIN D GANI29IOX22BA029NIVEDITHA L30IOX22BA030POOJASHREE S31IOX22BA031PRAJWAL P32IOX22BA032PRATHIBHA KM33IOX22BA033PRIYANKA KANAJE34IOX22BA034PULI MOUNIKA35IOX22BA035RANJITHA R36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA039S N CHANDANA40IOX22BA040SAHANA41IOX22BA041SAHANA42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA K E45IOX22BA045SANJAY SHETTY L46IOX22BA047SHIVAKUMAR M N48IOX22BA048SHRUTHI S49IOX22BA049SIRISHA V50IOX22BA051SUHANA BANU A51IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VINOD KUMAR S55IOX22BA055VINOD KUMAR S56IOX22BA056KYASHAVANTHA S57IOX22BA057AJAY K	27	10X22BA027	NITHIN	
29IOX22BA029NIVEDITHA L30IOX22BA030POOJASHREE S31IOX22BA031PRAJWAL P32IOX22BA032PRATHIBHA KM33IOX22BA033PRIYANKA KANAJE34IOX22BA034PULI MOUNIKA35IOX22BA035RANJITHA R36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA038RESHMA SK39IOX22BA040SAHANA40IOX22BA040SAHANA41IOX22BA041SAHANA A42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA S45IOX22BA045SANJAY SHETTY L46IOX22BA045SANJAY SHETTY L47IOX22BA048SHRUTHI S49IOX22BA049SIRISHA V50IOX22BA051SUHANA BANU A51IOX22BA051SUHANA BANU A52IOX22BA051SUHANA BANU A53IOX22BA055VINOD KUMAR S54IOX22BA055VINOD KUMAR S55IOX22BA056KARIKANTA K56IOX22BA057AJAY K	28	10X22BA028	NITHIN D GANI	14
30IOX22BA030POOJASHREE S31IOX22BA031PRAJWAL P32IOX22BA032PRATHIBHA KM33IOX22BA033PRIYANKA KANAJE34IOX22BA034PULI MOUNIKA35IOX22BA035RANJITHA R36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA039S N CHANDANA40IOX22BA040SAHANA41IOX22BA041SAHANA A42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA S45IOX22BA045SANJAY SHETTY L46IOX22BA047SHIVAKUMAR M N48IOX22BA048SHRUTHI S49IOX22BA049SIRISHA V50IOX22BA050SNEHA JAYAWANT NAIK51IOX22BA051SUHANA BANU A52IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VINOD KUMAR S55IOX22BA055VINOD KUMAR S56IOX22BA056KYASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	29	10X22BA029	NIVEDITHA L	
31IOX22BA031PRAJWAL P32IOX22BA032PRATHIBHA KM33IOX22BA033PRIYANKA KANAJE34IOX22BA034PULI MOUNIKA35IOX22BA035RANJITHA R36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA039S N CHANDANA40IOX22BA040SAHANA41IOX22BA041SAHANA A42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA S45IOX22BA045SANJAY SHETTY L46IOX22BA046SHALINI S M47IOX22BA048SHRUTHI S48IOX22BA049SIRISHA V50IOX22BA050SNEHA JAYAWANT NAIK51IOX22BA051SUHANA BANU A52IOX22BA053VEERA MANIKANTA K54IOX22BA054VINOD KUMAR S55IOX22BA055VINOD KUMAR S56IOX22BA056KYASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	30	10X22BA030	POOJASHREE S	
32IOX22BA032PRATHIBHA KM33IOX22BA033PRIYANKA KANAJE34IOX22BA033PULI MOUNIKA35IOX22BA035RANJITHA R36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA038RESHMA SK39IOX22BA040SAHANA40IOX22BA041SAHANA41IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA S45IOX22BA045SANJAY SHETTY L46IOX22BA046SHALINI S M47IOX22BA047SHIVAKUMAR M N48IOX22BA048SHRUTHI S49IOX22BA049SIRISHA V50IOX22BA051SUHANA BANU A51IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA055VINOD KUMAR S55IOX22BA056KORIGANNAVARA57IOX22BA057AJAY K	31	10X22BA031	PRAJWAL P	
3310X22BA033PRIYANKA KANAJE3410X22BA034PULI MOUNIKA3510X22BA035RANJITHA R3610X22BA036RATHNAVEL S3710X22BA037RAVI KUMAR S M3810X22BA038RESHMA SK3910X22BA040SAHANA4010X22BA041SAHANA4110X22BA042SAI SUSHMA4310X22BA043SANGEETHA K E4410X22BA044SANGEETHA K E4510X22BA045SANJAY SHETTY L4610X22BA046SHALINI S M4710X22BA047SHIVAKUMAR M N4810X22BA048SHRUTHI S4910X22BA049SIRISHA V5010X22BA051SUHANA BANU A5110X22BA051SUHANA BANU A5210X22BA051SUHANA BANU A5310X22BA055VINOD KUMAR S5410X22BA056KARINIKANTA K5510X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	32	10X22BA032	PRATHIBHA KM	
34       IOX22BA034       PULI MOUNIKA         35       IOX22BA035       RANJITHA R         36       IOX22BA036       RATHNAVEL S         37       IOX22BA037       RAVI KUMAR S M         38       IOX22BA038       RESHMA SK         39       IOX22BA040       SAHANA         40       IOX22BA041       SAHANA         41       IOX22BA042       SAI SUSHMA         42       IOX22BA043       SANGEETHA K E         43       IOX22BA044       SANGEETHA K E         44       IOX22BA045       SANJAY SHETTY L         45       IOX22BA046       SHALINI S M         47       IOX22BA047       SHIVAKUMAR M N         48       IOX22BA048       SHRUTHI S         49       IOX22BA049       SIRISHA V         50       IOX22BA050       SNEHA JAYAWANT         51       IOX22BA051       SUHANA BANU A         52       IOX22BA052       VAMSHI R M         53       IOX22BA054       VIKAS M         54       IOX22BA055       VINOD KUMAR S         55       IOX22BA056       YASHAVANTHA S         56       IOX22BA057       AJAY K	33	10X22BA033	PRIYANKA KANAJE	
35       IOX22BA035       RANJITHA R         36       IOX22BA036       RATHNAVEL S         37       IOX22BA037       RAVI KUMAR S M         38       IOX22BA038       RESHMA SK         39       IOX22BA039       S N CHANDANA         40       IOX22BA040       SAHANA         41       IOX22BA041       SAHANA A         42       IOX22BA042       SAI SUSHMA         43       IOX22BA043       SANGEETHA K E         44       IOX22BA045       SANJAY SHETTY L         45       IOX22BA045       SANJAY SHETTY L         46       IOX22BA045       SANJAY SHETTY L         46       IOX22BA047       SHIVAKUMAR M N         47       IOX22BA046       SHRITH S         49       IOX22BA049       SIRISHA V         50       IOX22BA050       SNEHA JAYAWANT         51       IOX22BA051       SUHANA BANU A         52       IOX22BA052       VAMSHI R M         53       IOX22BA053       VEERA MANIKANTA K         54       IOX22BA054       VIKAS M         55       IOX22BA055       VINOD KUMAR S         56       IOX22BA056       YASHAVANTHA S KORIGANNAVARA         57	34	10X22BA034	PULI MOUNIKA	
36IOX22BA036RATHNAVEL S37IOX22BA037RAVI KUMAR S M38IOX22BA038RESHMA SK39IOX22BA039S N CHANDANA40IOX22BA040SAHANA41IOX22BA041SAHANA A42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA K E45IOX22BA045SANJAY SHETTY L46IOX22BA046SHALINI S M47IOX22BA047SHIVAKUMAR M N48IOX22BA048SHRUTHI S50IOX22BA049SIRISHA V50IOX22BA051SUHANA BANU A51IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VIKAS M55IOX22BA055VINOD KUMAR S56IOX22BA056YASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	35	10X22BA035	RANJITHA R	
37IOX22BA037RAVI KUMAR S M38IOX22BA038RESHMA SK39IOX22BA039S N CHANDANA40IOX22BA040SAHANA41IOX22BA041SAHANA A42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA S45IOX22BA045SANJAY SHETTY L46IOX22BA046SHALINI S M47IOX22BA047SHIVAKUMAR M N48IOX22BA049SIRISHA V50IOX22BA050SNEHA JAYAWANT NAIK51IOX22BA051SUHANA BANU A52IOX22BA052VAMSHI R M53IOX22BA054VIKAS M54IOX22BA055VINOD KUMAR S55IOX22BA056YASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	36	10X22BA036	RATHNAVEL S	
3810X22BA038RESHMA SK3910X22BA039S N CHANDANA4010X22BA040SAHANA4110X22BA041SAHANA A4210X22BA042SAI SUSHMA4310X22BA043SANGEETHA K E4410X22BA044SANGEETHA S4510X22BA045SANJAY SHETTY L4610X22BA046SHALINI S M4710X22BA047SHIVAKUMAR M N4810X22BA048SHRUTHI S4910X22BA049SIRISHA V5010X22BA050SNEHA JAYAWANT NAIK5110X22BA051SUHANA BANU A5210X22BA052VAMSHI R M5310X22BA054VIKAS M5410X22BA055VINOD KUMAR S5510X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	37	10X22BA037	RAVI KUMAR S M	
3910X22BA039S N CHANDANA4010X22BA040SAHANA4110X22BA041SAHANA A4210X22BA042SAI SUSHMA4310X22BA043SANGEETHA K E4410X22BA044SANGEETHA S4510X22BA045SANJAY SHETTY L4610X22BA046SHALINI S M4710X22BA047SHIVAKUMAR M N4810X22BA048SHRUTHI S4910X22BA049SIRISHA V5010X22BA050SNEHA JAYAWANT NAIK5110X22BA051SUHANA BANU A5210X22BA052VAMSHI R M5310X22BA054VIKAS M5410X22BA055VINOD KUMAR S5510X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	38	10X22BA038	RESHMA SK	
4010X22BA040SAHANA4110X22BA041SAHANA A4210X22BA042SAI SUSHMA4310X22BA043SANGEETHA K E4410X22BA044SANGEETHA S4510X22BA045SANJAY SHETTY L4610X22BA046SHALINI S M4710X22BA047SHIVAKUMAR M N4810X22BA048SHRUTHI S4910X22BA049SIRISHA V5010X22BA050SNEHA JAYAWANT NAIK5110X22BA051SUHANA BANU A5210X22BA052VAMSHI R M5310X22BA054VIKAS M5410X22BA055VINOD KUMAR S5510X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	39	10X22BA039	S N CHANDANA	
411OX22BA041SAHANA A421OX22BA042SAI SUSHMA431OX22BA043SANGEETHA K E441OX22BA044SANGEETHA S451OX22BA045SANJAY SHETTY L461OX22BA046SHALINI S M471OX22BA047SHIVAKUMAR M N481OX22BA048SHRUTHI S491OX22BA049SIRISHA V501OX22BA050SNEHA JAYAWANT NAIK511OX22BA051SUHANA BANU A521OX22BA052VAMSHI R M531OX22BA053VEERA MANIKANTA K541OX22BA055VINOD KUMAR S551OX22BA056YASHAVANTHA S KORIGANNAVARA571OX22BA057AJAY K	40	10X22BA040	SAHANA	
42IOX22BA042SAI SUSHMA43IOX22BA043SANGEETHA K E44IOX22BA044SANGEETHA S45IOX22BA045SANJAY SHETTY L46IOX22BA046SHALINI S M47IOX22BA047SHIVAKUMAR M N48IOX22BA048SHRUTHI S49IOX22BA049SIRISHA V50IOX22BA050SNEHA JAYAWANT NAIK51IOX22BA051SUHANA BANU A52IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VIKAS M55IOX22BA055VINOD KUMAR S56IOX22BA056YASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	41	10X22BA041	SAHANA A	
4310X22BA043SANGEETHA K E4410X22BA044SANGEETHA S4510X22BA045SANJAY SHETTY L4610X22BA046SHALINI S M4710X22BA047SHIVAKUMAR M N4810X22BA048SHRUTHI S4910X22BA049SIRISHA V5010X22BA050SNEHA JAYAWANT NAIK5110X22BA051SUHANA BANU A5210X22BA052VAMSHI R M5310X22BA053VEERA MANIKANTA K5410X22BA054VIKAS M5510X22BA055VINOD KUMAR S5610X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	42	10X22BA042	SAI SUSHMA	
441OX22BA044SANGEETHA S451OX22BA045SANJAY SHETTY L461OX22BA046SHALINI S M471OX22BA047SHIVAKUMAR M N481OX22BA048SHRUTHI S491OX22BA049SIRISHA V501OX22BA050SNEHA JAYAWANT NAIK511OX22BA051SUHANA BANU A521OX22BA052VAMSHI R M531OX22BA053VEERA MANIKANTA K541OX22BA054VIKAS M551OX22BA055VINOD KUMAR S561OX22BA057YASHAVANTHA S KORIGANNAVARA571OX22BA057AJAY K	43	10X22BA043	SANGEETHA K E	
451OX22BA045SANJAY SHETTY L461OX22BA046SHALINI S M471OX22BA047SHIVAKUMAR M N481OX22BA048SHRUTHI S491OX22BA049SIRISHA V501OX22BA050SNEHA JAYAWANT NAIK511OX22BA051SUHANA BANU A521OX22BA052VAMSHI R M531OX22BA053VEERA MANIKANTA K541OX22BA054VIKAS M551OX22BA055VINOD KUMAR S561OX22BA056YASHAVANTHA S KORIGANNAVARA571OX22BA057AJAY K	44	10X22BA044	SANGEETHA S	
46IOX22BA046SHALINI S M47IOX22BA047SHIVAKUMAR M N48IOX22BA048SHRUTHI S49IOX22BA049SIRISHA V50IOX22BA050SNEHA JAYAWANT NAIK51IOX22BA051SUHANA BANU A52IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VIKAS M55IOX22BA055VINOD KUMAR S56IOX22BA056YASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	45	10X22BA045	SANJAY SHETTY L	
471OX22BA047SHIVAKUMAR M N481OX22BA048SHRUTHI S491OX22BA049SIRISHA V501OX22BA050SNEHA JAYAWANT NAIK511OX22BA051SUHANA BANU A521OX22BA052VAMSHI R M531OX22BA053VEERA MANIKANTA K541OX22BA054VIKAS M551OX22BA055VINOD KUMAR S561OX22BA056YASHAVANTHA S KORIGANNAVARA571OX22BA057AJAY K	46	10X22BA046	SHALINI S M	
481OX22BA048SHRUTHI S491OX22BA049SIRISHA V501OX22BA050SNEHA JAYAWANT NAIK511OX22BA051SUHANA BANU A521OX22BA052VAMSHI R M531OX22BA053VEERA MANIKANTA K541OX22BA054VIKAS M551OX22BA055VINOD KUMAR S561OX22BA056YASHAVANTHA S KORIGANNAVARA571OX22BA057AJAY K	47	10X22BA047	SHIVAKUMAR M N	
4910X22BA049SIRISHA V5010X22BA050SNEHA JAYAWANT NAIK5110X22BA051SUHANA BANU A5210X22BA052VAMSHI R M5310X22BA053VEERA MANIKANTA K5410X22BA054VIKAS M5510X22BA055VINOD KUMAR S5610X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	48	10X22BA048	SHRUTHI S	
50IOX22BA050SNEHA JAYAWANT NAIK51IOX22BA051SUHANA BANU A52IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VIKAS M55IOX22BA055VINOD KUMAR S56IOX22BA056YASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	49	10X22BA049	SIRISHA V	
5110X22BA051SUHANA BANU A5210X22BA052VAMSHI R M5310X22BA053VEERA MANIKANTA K5410X22BA054VIKAS M5510X22BA055VINOD KUMAR S5610X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	50	10X22BA050	SNEHA JAYAWANT NAIK	
52IOX22BA052VAMSHI R M53IOX22BA053VEERA MANIKANTA K54IOX22BA054VIKAS M55IOX22BA055VINOD KUMAR S56IOX22BA056YASHAVANTHA S KORIGANNAVARA57IOX22BA057AJAY K	51	10X22BA051	SUHANA BANU A	
531OX22BA053VEERA MANIKANTA K541OX22BA054VIKAS M551OX22BA055VINOD KUMAR S561OX22BA056YASHAVANTHA S KORIGANNAVARA571OX22BA057AJAY K	52	10X22BA052	VAMSHI R M	
5410X22BA054VIKAS M5510X22BA055VINOD KUMAR S5610X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	53	10X22BA053	VEERA MANIKANTA K	
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5610X22BA056YASHAVANTHA S KORIGANNAVARA5710X22BA057AJAY K	55	10X22BA055	VINOD KUMAR S	
57 10X22BA057 AJAY K	56	10X22BA056	YASHAVANTHA S KORIGANNAVARA	
	57	10X22BA057	AJAY K	

58	10X22BA058	AKSHAY DHARSHAN M R
59	10X22BA059	AKSHAY S V IGAR
60	10X22BA060	ANANDA N
61	10X22BA061	ANNAPOORNA.R
62	10X22BA062	ANURAG R
63	10X22BA063	ARIKA V
64	10X22BA064	BABU RC
65	10X22BA065	BASKAR B
66	10X22BA066	BHARATH G
67	10X22BA067	BHAVADHARANI S
68	10X22BA068	BRIJIN E
69	10X22BA069	C HARATHI
70	10X22BA070	CHANDRAKANTH S
71	10X22BA071	CHANDRU G
72	10X22BA072	CHETHANA R
73	10X22BA073	DARSHAN S
74	10X22BA074	ERWIN PRINCE
75	10X22BA075	GAJAVARAN C
76	10X22BA076	GIRISH K V
77	10X22BA077	GOKUL PRASATH P
78	10X22BA078	HARINI S
79	10X22BA079	HEMANTH KUMAR C
80	10X22BA080	HEMAVATHI M
81	10X22BA081	KAVANA BC
82	10X22BA082	KAVIARASU T
83	10X22BA083	LIYAKATH BASHA A
84	10X22BA084	LOKESHN
85	10X22BA085	LOKESH KUMAR.P
86	10X22BA086	MAAZ SHARIFF
87	10X22BA087	MEGANATHAN S
88	10X22BA088	MEGHANA N
89	10X22BA089	MEGHASHREE AH
90	10X22BA090	MOHAN L
91	10X22BA091	MURALI R S
92	10X22BA092	N S SHRAVANAKUMAR

and the second division of the second divisio		
93	10X22BA093	NASEEMA BEGUM
94	10X22BA094	PAVAN M
95	10X22BA095	PAVAN YADAV K S
96	10X22BA096	PRAGATHI H S
97	10X22BA097	PURUSHOTHAM REDDY
98	10X22BA099	RAKSHITH N
99	10X22BA100	RAKSHITHA G
100	10X22BA101	RAVI KUMAR S V
101	10X22BA102	ROBERT REJI
102	10X22BA103	SAHANA H M
103	10X22BA104	SANGEETHA B
104	10X22BA105	SANKETH H U
105	10X22BA106	SANTHOSHNAIKA G N
106	10X22BA107	SHRAVANI N
107	10X22BA109	SUNITHA M V
108	10X22BA110	SURESH B G
109	10X22BA111	VAISHNAVI B
110	10X22BA112	VANITHA S
111	10X22BA113	VARSHINI D
112	10X22BA114	VEERENDRA HP
113	10X22BA115	VENNILA
114	10X22BA116	VIJAY KUMAR B S
115	10X22BA117	VINODA YC
116	10X22BA118	VISHNU KUMAR M
117	10X22BA119	WASEEMA FIRDOUS
	and the second se	

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HOD, Dert, of Busmess/Administration The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore 560 068





#### A REPORT ON GUEST LECTURE on RESEARCH METHODOLOGY

COMINED GROUP OF SCIENCE & TECHNOLOGY, BANALORE

#### DEPARTMENT OF BUSINESS ADMINISTRATION THE OXFORD COLLEGE OF ENGINEERING

19<sup>th</sup> January, 2024

A Guest Lecture was organized by THE COMBINED INSTITUTE OF TECHNOLOGY, BANALORE on 19<sup>th</sup> January, 2024,

at The Oxford College of Engineering on the topic "**RESEARCH METHODOLOGY**". Total number of Students Present: 117 MBA students

The main goal of the Guest Lecture on RESEARCH METHODOLOGY is to help students develop research skills and competencies, acquaint them with contemporary real life aspects of Marketing, HR and Finance domains, and improve the effectiveness of their independent research work, which is required for the successful preparation of the term paper and Master's thesis.

In the present day, the world is facing a number of challenges in the engineering, Management, environmental and other sectors. This has led to the need of instilling research at academic level. The Oxford College of Engineering being active in research recognizes the prominence of research to be inculcated among the Management students right from their first semester. To channelize the vigor and passion of Management students, to cultivate their understanding and skills to carry out research, MBA Department in association with Research Post, Bangalore organized a Guest Lecture on "Research Skills" in the Department on 19-01-2024.

There were Presentations on "Becoming a Researcher in the field of Business Management" and "Art of Writing Research Papers and Research Report" by Dr. John.M during the Guest Lecture



Guest Lecture by Dr. John M on Research Skills

The Guest Lecture was attended by 117students from MBA programme.

At MBA programmeThe research seminar allows students to work with prominent researchers and professionals and adjust their individual prospectuses, helps students refine their skills of research, text dispensation, searching scholarly info and presenting their work.

Students also improve their understanding of study proposal, which includes defining the hypothesis, providing a basis for it and selecting a line of argument. Students then write term papers to cabinet and review the results obtained during research seminars. is one of the options.

#### Points highlighted by the Speaker:

- 1. Professional orientation of students to help them choose the field and topic of their dissertation
- 2. Inculcating academic skills, including preparing and conducting research
- 3. Involving students in project activities and R&D for government
- 4. Writing and publishing student papers and articles



Guest Lecture by Dr. John M on Research Skills

The students were made aware of the personalities of a virtuous researcher, skills that they need to develop to become a noble researcher and how they can develop a positive perception/attitude towards research during lecture.

The students were also given recommendations to publish their research aftermaths and the students were made conscious of usage of Scopus, Research Gate, and other ICT tools for Research. The Guest Lecture was a memorable learning for the Management students.

D, Dept. Of Business Automatic The Oxford College of Engineering HOD, Dent. Bommanahalla, Hosur Road

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#### **MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (MOU) is entered on 5th August, 2020

#### By & Between

Plantszone, Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099

and

MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between **Plantszone, Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099 and MBA Department The Oxford College of Engineering**,10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

#### **Purpose:**

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This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- Support enhancement of employability skills and traits that lead to overall success of students, teachers and their institution.
- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create Placement engagements and development opportunities for students and faculty through programmes, Guest lectures, seminars, conferences, visits, events, study trips.

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

- Co-organise and host events, conferences, seminars and Guest lectures that may include nominating experts/visits by executive speakers, experts, faculty and students.



notification from either party Anything else not mentioned here but agreed between both parties through a written

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notification from either party What does this MOU not provide unless agreed between both parties through a written

- Any form of financial commitment in the form of payments, discounts, vouchers etc
- Assignment of any IPRs, patents, etc

written notification. All financial arrangements to be agreed separately agreed between both parties through a

### Lapse of MOU

This MOU will lapse if there is no activity or engagement between both the parties for a thereon. continuous period of 60 months from the start of the agreement date and each anniversary

### Duration

written notification or the end of term of the MOU is reached. and will remain in effect until modified or terminated by any one of the partiesthrough a from each party. This MOU shall become effective upon signature by the authorised officials and may be modified by both parties through a written notification from authorised officials 5 Years from the date of signing and shall be renewed for every year. This MOU is at-will

# Authorised Signatories:

Plantszone, Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099

Mr. Manoj. D

Founder,

Plantszone

Mail: plantszone.store@gmail.com. Avalahalli, Huskur Post, Anekal Tq. Bangalore-560099.

Ph: 8618141147

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- 9. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
- 10. Any other terms deemed necessary for the efficient management of the activity.

#### Signatures of concerning officials

Wonoj.

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Name: Mr Manoj D

Organization: Plantszone

Designation: Fonder

HOD, Deptt. of Business Administration The Oxford College of Engineering Bommanahalh, Hosur Road Bangalore 560 068

Name: Dr. R V Dhanalakshmi

HOD-MBA

Organization: The Oxford College of Engineering

#### Witness:

1. MWV 5/8/2020) (Dr.M. Kathinary)



Date: 05/AUG/2020

Date: 5/8/2020

2. When I a Rami Rodoly



#### Department of Business Administration THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:<u>www.theoxford.edu</u>Email :<u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

#### CIRCULAR

01-12-2023

Dear 3<sup>rd</sup> Semester MBA students, there will be a Work Shop on "DATA SCIENCE" organizing by PLANTS ZONE, BANGALORE in association with department of MBA. The details are as follows:

Date: 08-12-2023

Venue: Seminar hall, 6<sup>th</sup> floor, The Oxford College of Engineering

Resource Person:

Mr.SRIKANTH BALASUBRAMANIAN

Founder & CEO, Best in Town Analytics, Bangalore

&

Mr.RAJKUMAR SANKARAN, Trainer, Best in Town Analytics, Bangalore

All are informed to participate.

HOD, Dent. of Business Adminustration The Oxford College of Engineering Bommanahall, Hosur Road Bangalors 560 068



#### THE OXFORD COLLEGE OF ENGINEERING

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List of Students Participated in

#### Work Shop on "DATA SCIENCE Organized by PLANTS ZONE, BANALORE

Date: 08-12-2023

#### Venue: The Oxford College of Engineering

#### MBA 3<sup>rd</sup> Semester

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No. of Students Present: 117

HOD, Depat. of Business April Instrace The Oxford College of Bagineering Bommanahali, Hosur Road Bangators 560 068





#### A REPORT ON

#### Work Shop on "DATA SCIENCE

Organized by PLANTS ZONE, BANALORE

#### DEPARTMENT OF BUSINESS ADMINISTRATION THE OXFORD COLLEGE OF ENGINEERING

08-12-2023

#### Resource Persons: Mr.Srikanth Balasubramanian & Mr.Rajkumar Sankaran

#### Faculty coordinators: Dr. K. THARAKA RAMI REDDY & Prof. VIJAIANAND.A

A workshop on Data Science was organized by Plants Zone, Bangalore on 08-12-2023 and the recourse persons are Mr.Srikanth Balasubramanian & Mr.Rajkumar Sankaran from Best in Town Analytics, Bangalore to develop conceptual and analytical skills, has initiated a drive to upskill its students with the hands-on session on Data Analytics using Excel and SPSS



Business Analytics is a set of tools and techniques that can be used to improve business performance through fact-based decision-making. Data Exploration, Business Intelligence and Data Mining have been there for a while and helped Businesses to create Data Discipline in the organization. Business Analytics is the subset of Business Intelligence, which helps companies to understand the past and predict the future to improve company's effectiveness in the market place.



The Workshop is aimed on to understand the role of business analytics within an organization.

- To gain an understanding of how managers use business analytics to formulate and solve business problems and to support managerial decision making.
- Use analytics in customer requirement analysis, general management, marketing, finance, operations, and HR
- To become familiar with the processes needed to develop, report, and analyze business data.
- To learn how to use and apply Excel and Excel add-ins to solve business problems using Business Analytics.



The session has covered the following:-

- Introduction to Analytics
- Data Science Market Scenario
- Career in Data Science
- Thinking in Analytics

Case Study I – Simple Linear Regression -Tool: Excel



The workshop helped the participants to know, how to perform data analysis using Excel's most popular features, how to create pivot tables from a range with rows and columns in Excel and the power of Excel pivots in action and their ability to summarize data in flexible ways, enabling quick exploration of data and producing valuable insights from the accumulated data.

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The Oxford College of English Bommanahalli, Hosur Road Bangalore 560 068

### GSTIN : 29AKKPT1362L1ZJ

#### **MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (MOU) is entered on 21<sup>st</sup> January, 2022

By & Between

Resarch International, #2, 1<sup>st</sup> Floor, G S Palya Road, Koanappana Agrahara, E-City Post, Bangalore-560100

and

MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

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**MBA Department**, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

#### **Purpose:**

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- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create development opportunities for students and faculty through programmes, Guest lectures, seminars, conferences, visits, events, study trips. The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification. Co-organise and host events, conferences,

# 2, First Floor, G.S. Palya Road, Konappana Agrahara, E-City Post, Bangalore - 560 100 www.ijerp.com 8792451077

notification from either party Anything else not mentioned here but agreed between both parties through a written

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- Assignment of any IPRs, patents, etc

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All financial arrangements to be agreed separately agreed between both parties through a written notification.

### Lapse of MOU

thereon. continuous period of 36 months from the start of the agreement date and each anniversary This MOU will lapse if there is no activity or engagement between both the parties for a

### Duration

partiesthrough a written notification or the end of term of the MOU is reached. officials and will remain in effect until modified or terminated by officials from each party. This MOU shall become effective upon signature by the authorised will and may be modified by both parties through a written notification from authorised Three years from the date of signing and shall be renewed for every year. This MOU is atany one of the

# Authorised Signatories:

Post, Bangalore-560100, Ph: 8792451077 Resarch International, #2, 1<sup>st</sup> Floor, G S Palya Road, Konanappana Agrahara, E-City

Ms. Shivani Tanya, Director

## Department of MBA

890 The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560

Dr. K Tharaka Rami Reddy HOD-MBA, Email : <u>hodmcatoce@theoxford.edu</u> Telephone:9741633223

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Signatures of concerning officials

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Date:

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Proprietor Name: Ms. Shivani Tanya

Organization: Combined Institute of Technology Designation: Director

Date: 21 -

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Name: Dr. K Tharaka Rami Reddy

HOD-MBA Organization: The Oxford College of Engineering HOD, Dept. of Business Administration HOD, Dept. College of Engineering The Oxford College of Engineering

Bommanahalh, Hosur Road Bangalore 560 068

#### Department of Business Administration THE OXFORD COLLEGE OF ENGINEERING

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01-02-2024

#### Dear 3<sup>rd</sup> Semester MBA students, there will be a Guest Lecture on "**RESEARCH SKILLS AND REPORT WRITING**" organizing by THE RESEARCH INTERNATIONAL, BANGALORE in association with department of MBA. The details are as follows:

CIRCULAR

#### Date: 10-022024

Venue: Seminar hall, 6<sup>th</sup> floor, The Oxford College of Engineering Resource Person: Dr. Saibaba, The Research Post, Bangalore

All are informed to participate.

HOD, Deput. of Business Administrations The Oxford College of Engineering Bommanahall, Hosur Road Bangalore 560 068



#### THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 25Website:www.theoxford.eduEmail :engprincipal@theoxford.edu (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

List of Students Participated in

#### GUEST LECTURE on RESEARCH SKILLS AND REPORT WRITING

#### Organized by THE RESEARCH INTERNATIONAL, BANALORE

Date: 10-02-2024

Venue: The Oxford College of Engineering

MBA 3<sup>rd</sup> Semester

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# A REPORT ON

# GUEST LECTURE on RESEARCH SKILLS AND REPORT WRITING

Organized by THE RESEARCH INTERNATIONAL, BANALORE

# DEPARTMENT OF BUSINESS ADMINISTRATION THE OXFORD COLLEGE OF ENGINEERING

10-02-2024

A Guest Lecture was organized by THE RESEARCH INTERNATIONAL, BANALORE on 10-02-2024, at The Oxford College of Engineering on the topic "RESEARCH SKILLS AND REPORT WRITING".

Total number of Students Present: 117 MBA students

The main goal of the Guest Lecture on RESEARCH SKILLS AND REPORT WRITING is to help students develop research skills and competencies, acquaint them with contemporary real life aspects of Marketing, HR and Finance domains, and improve the effectiveness of their independent research work, which is required for the successful preparation of the term paper and Master's thesis.

In the present day, the world is facing a number of challenges in the engineering, Management, environmental and other sectors. This has led to the need of instilling research at academic level. The Oxford College of Engineering being active in research recognizes the prominence of research to be inculcated among the Management students right from their first semester. To channelize the vigor and passion of Management students, to cultivate their understanding and skills to carry out research, MBA Department in association with Research Post, Bangalore organized a Guest Lecture on "Research Skills" in the Department on **10-02-2024** 

There were Presentations on "Becoming a Researcher in the field of Business Management" and "Art of Writing Research Papers and Research Report" by Dr. Saibaba during the Guest Lecture



Introducing the Speaker by Prof. Kalavathy

The Guest Lecture was attended by 71students from MBA programme.

At MBA programmeThe research seminar allows students to work with prominent researchers and professionals and adjust their individual prospectuses, helps students refine their skills of research, text dispensation, searching scholarly info and presenting their work.

Students also improve their understanding of study proposal, which includes defining the hypothesis, providing a basis for it and selecting a line of argument. Students then write term papers to cabinet and review the results obtained during research seminars. is one of the options.

#### Points highlighted by the Speaker:

- 1. Professional orientation of students to help them choose the field and topic of their dissertation
- 2. Inculcating academic skills, including preparing and conducting research
- 3. Involving students in project activities and R&D for government
- 4. Writing and publishing student papers and articles



Guest Lecture by Dr. Saibaba on Research Skills

The students were made aware of the personalities of a virtuous researcher, skills that they need to develop to become a noble researcher and how they can develop a positive perception/attitude towards research during lecture.

The students were also given recommendations to publish their research aftermaths and the students were made conscious of usage of Scopus, Research Gate, and other ICT tools for Research. The Guest Lecture was a memorable learning for the Management students.

T Business Administration

The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore 560 068



# Students Project Detail Proof

2023-24

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# **Students Internship Detail Proof**

# 2023-24

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## Mini Project

## 2023-24

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# THE OXFORD COLLEGE OF ENGINEERING

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#### CERTIFICATE

Centrified that the project work entitled "Derign and Implementation of Tech Gloves For Damb People" carried out by Anima Kumari (IOX2015013), Harshavardhini V (IOX2015032), Harshitha K S (IOX2015033) and Kappala Jyothi (IOX2015037), benafide students of The Oxford College Of Engineering, Bengalurus in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project phase 2 report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

MAR Dr. R. Kanagavalli PENCHER ALTI The Oxford College of Engineer BomPrincipal TOS Jar Road 10 188 Asst. Prof. Dept.of ISE Bengalun -560 068 DOM: NO 1. Internal Examiner 2. External Examiner



THE OXFORD COLLEGE OF ENGINEERING (Additional by AICTH, New Delhi, Accredited by NAAC'A', Additional To VTU Belgavi-590 018) Bounmanahalli, Hosur Road, Bangalore — 560068

#### Department of Electronics and Communication Engineering (NBA Accredited) Cally . CERTIFICATE Certified that the Project Report work entitled "IOT BASED AUTOMATIC RAILWAY TRACK CRACK DETECTION SYSTEM" is carried out by Spandana Indira R (1OX20EC064), Vidya P G(1OX20EC073), Sindhu K Reddy (1OX20EC079), Yashika G (1OX20EC076) Bonafide students of THE OXFORD COLLEGE OF ENGINEERING, BANGALORE in fulfilment for the award of the degree of Bachelor of Engineering in Communication Engineering of VISVESVARAYA Electronics and TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2023-2024. It is certified that all corrections/suggestions indicated for internal Assessments have been incorporated in the report deposited in the Department library. The Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree. Iny Principal Guide Dr. N Kandan Dr. Laya Tojo Engineering Profess The Oxford College of Asst. Professor HOD Tile Op Dept. of ECE, TOCE Engineerine Bangalore ECE TOCE 560 068 Bommananalli, The Oxford College of Engineering Bommanahalli, Hosur Road Name of the Examiners Signature with Date68 Dept. ECE TOCE 2023-24 Scanned with CamScanner

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# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE accredited by NAAC-A Grade)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2023-2024

#### CERTIFICATE

Certified that the Project work entitled "DESIGN OF BATTERY THERMAL MANGEMENT SYSTEM FOR ELECTRIC VEHICLES" has been carried out by Mr./Ms. CHANDAN M V (10X20EE003), NAZIM KHAN (10X20EE012), RAKSHITHA K (10X20EE014), RAKSHITHA S (10X20EE015) a bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical and Electronics Engineering under the Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Project report has been approved as it satisfies the academic requirements in respect to technical Project work prescribed for the said degree.

Project work prescribed for the said degree. 127/2/200 Signature of the Principal Name Name & Signature of the f Engg Road Guide DATED XIP GON SHOR Dr. NKANNAN Prof. JAYAKUMAR N Bommanahalli, Hosur R Associate Angeliorer 660 0008 Principal, TOCE Assistant professor PRINCIPAL The Oxford College of Engineering Dept. of EEE, TOCE Dept. of EEE, TOCE Bosigianare with date Road Name of the Examiners engaluru-560 Q68 (1) Dr. KOTHAIANDAL.C c.usr 28 (2) JAYBICOMOR N



> THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengaluru-560068 (Affiliated to VTU and approved by AICTE accredited by NAAC) DEPARTMENT OF MECHANICAL ENGINEERING



#### CERTIFICATE

Certified that the project work entitled "DESIGN AND FABRICATION OF REGENRATIVE BRAKING USING DYNAMO FOR AUTOMOBLIES" has been carried out by Mr. DAANISH MATHEEN (IOX20ME002), IMRAN ALL WANI (10X20ME004), MOHAMMED HUSSAIN (10X20ME008), ZULFIKHAR ALI (1OX20ME013) a bonafide students at THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering under the Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections/ suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to technical Project Work prescribed for the said degree.

Dr. Prasad H. Nayak

Dr. Madhu Sudana Reddy G

Associate Professor

Dr. N. Kannan Principal, TOCE

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Name of the Examiners

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Regulation Of an Escherichia coli Auxotrophic Mutant Through an Aspirin Induced Promoter.

# THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BANGALORE- 560068

(Affiliated to VTU, Belagavi, Approved by AICTE & Accredited 'A' Grade by NBA & NAAC, New Delhi)

#### DEPARTMENT OF BIOTECHNOLOGY



This is to certify that the Project entitled "REGULATION OF AN Escherichia coli AUXOTROPHIC MUTANT THROUGH AN ASPIRIN INDUCED PROMOTER" presented by Ms. Madhushree K V (10X20BT010), Mr. Rakesh B M (10X20BT018), Ms. Supradha N (10X20BT029), Ms. Umme Ayman (10X20BT031) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of the Visvesvaraya Technological University, Belagavi, during the academic year 2023 - 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of the Guide Ms. Tamizharasi Assistant professor Dept of Biotechnology Signature of the HOD Dr. B K Manjunatha HA Professor & Head Depart of BioBiobiologyogy (he Oxford College of Engineering Bengaluru - 560 068 Che C Signature of the Principal Dr. N Kannan Principal of TOCE

The Oxford College of Engineering Bommanahalli, Hosur Road







#### THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068 (Affiliated to VTU and approved by AICTE)

#### **Department of Mechatronics Engineering**



CERTIFICATE

Certified that the Project work entitled "TELEROBOTIC HUMANOID ARM" is a bonafide work carried out by, Mohammed Malhan Rabeet P (1OX20MT002), Pragnya R Rao (1OX20MT003), Rohan Kumar S (1OX20MT006) and S Jayanth (1OX20MT007) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide Dr. Madhura S Dept. of MTE

Signature of Principal Signature atronics The Oxford College Of Engineering

Bomnianahalli, Bangalore - 560 066, Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date Rolich angenest

Dr. N Kannan

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Name of the Examiners:

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(NAAC ACCREDITED) BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering (NBA Accredited)



#### CERTIFICATE

This is to certify that the project work entitled "DESIGN AND IMPLEMENTATION OF AN EFFICIENT FINGERPRINT AUTHENTICATION ALGORITHM USING SHA-512" is a bonafide work carried out by Ms. NIRISHA B P (USN: 10X22LVS01) in partial fulfillment for the award of MASTER OF TECHNOLOGY in VLSI DESIGN AND EMBEDDED SYSTEM under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2023-24. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the dissertation accordingly. The Project phase-2 report has been approved as it satisfies the academic requirements required for the M. Tech degree.

dw hanning Guide and (OD Principal Dr. H. N. Ramesh Dr. Manju Devi Principal, TOCENCIPAL Professor & HOD of ESC Engineering The Oxford College of Engineering Twe Oxford College of Engineering Bommananalli, Hoour Road Bermananali, Bang-tore-560 068 Name of Examiners Sign Reneaturu-500 068 1) pr. 16 2) MX. VICODE JETASEELAN. -



#### THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068 (Affiliated to VTU and approved by AICTE) **Department of Civil Engineering** 



#### CERTIFICATE

This is to certify that the project entitled "Comparative Study of Y-Column and Rectangular Column Structures: Performance and Efficiency Analysis" is a bonafide project work carried out by LAXMIKANTH B PUJARI (USN: 10X22CSE03) in partial fulfillment for the award of MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2023-24. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the dissertation accordingly. The report has been approved as it satisfies the academic requirements required for the M.Tech degree.

<u>Aleyan</u> B.S GUIDE Nayana B.S Assistant Professor TOCE

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Dr. Malleshaigh T Strengt PRINCIPAL Dr. Malleshaigh T Strengtheering TOCE The Oxford for the of Engineering PRINCIPAL PRINCIPAL The Oxford College of Engineer Rangalore-568 068. Bommanahalli, Hosur Road Internal

1) Ramush. B.M.

Name of Examiners

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#### CERTIFICATE

This is to certify that Mr. Girish K V bearing USN: 10X22BA076 is a bonafide student of Master of Business Administration course of the Institute (Batch 2022 - 24) affiliated to Visvesvaraya Technological University, Belgaum. The Project report on "A STUDY ON IMPACT OF CAPITAL STRUCTURE ON THE PERFORMANCE OF SHAKTHI INFRA DEVELOPERS" is prepared by him under the guidance of Dr. V LAKSHMI SUNEETHA, Asst. Prof, Department of MBA in partial fulfilment of the requirement for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University. Belgaum, Karnataka.

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HOD-MBA

HCD: Dept of Business Ar The Onford Collage of Engrace and Bommanahalli Hosur Road Bangalore-560068

Rdulli

Director -MBA & MCA DIRECTOR - MBA & MCA The Oxford College of Engineering Bommanahalli, Hosur Road, Bengaluru - 560068.

1) Dr. Libersh PC 15th 2) Dr V Lakehmi Suneetha







THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560068 (Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi) Department of Computer Science and Engineering CERTIFICATE Certified that the Internship work entitled "Social Innovation through Field Visit" carried out by Hemanth Gowda A (1OX21CS057), bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Computer Science And Engineering in the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements concerning the Internship work prescribed for the said Degree. Dr. E. Saravaj Kumar H.N. Ramesh Prof. Vinotha D Head of Department Principal TOCE Internship guide Dept of CSE The Oxford College of Engineeri Dept of CSE Bommanahalli, Hosur Road Head of The Department Department of Computer Science and Engineering The Oxford College of Engineering Bengaluru-960 068 BENGALURU-560368

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# THE OXFORD COLLEGE OF ENGINEERING

Hover Hand, Bounnamahalli, Bengahara-Sounce (Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi) Department of Information Science and Engineering



#### CERTIFICATE

Certified that the Internship work entitled "Detecting Fake News with Python and Machine Learning"" carried out by VIKAS B S, bonafide student of The Oxford College of Engineering. Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University. Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated for the Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

Ms. Abidhu	Dr. R. Kanagavalli Dr. R. Kanagavalli	Dr. N. Kaman Principal
Prof & Head, Dept. of I	SE Profe & index BebriorsEn	Bonnicipal, TOKE
3. Internal Examiner:		
2. External Examiner P	Mary Mr.	



# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore - 560068

(Affiliated To VTU and approved by AICTE)

# Department of Electronics and Communication Engineering



#### CERTIFICATE

Certified that the Internship Report work entitled "DROWSINESS DETECTION" is carried out by A Navya Sree (IOX20EC001) bonafide student of THE OXFORD COLLEGE OF ENGINEERING, BANGALORE in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the report deposited in the Department library. The Internship Report has been approved as it satisfies the academic requirements concerning work prescribed for the said degree.

Principal Dr. Chetana Reddy Dr. Manju Devi Dr. N.Kannan Head of the department The Oxford College of Assistant Professor Profilsaor & Prot. of ECE Englanoring Engineering, Bengaluru Dept. of ECE PRINCIPAL Tan Oxford Colume of Calaring High Skilord College of Engineering Pleantanental, usagulo.e. Sco USbomm Signature with Dates Name of the Examiners Bengalury :660 003 TEFAT FATTON DY. STAGADEESHA



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DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING



2023-2024

#### CERTIFICATE

This is to certify that the internship entitled "UPS AND BATTERY MANAGEMENT" is a bonafide work carried out by BHARATH KUMAR A (IOX20EE002), GIRISH S U (IOX21EE403), JENUPRASAD V P(IOX21EE404), SINCHANA R (IOX20EE019) in partial fulfillment of internship in 8<sup>th</sup> semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2023-2024. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Internal Guide

Prof Jayakumar N Assistant professor Dept of EEE, TOCE

Name of the Examiners D Rajath. S.R. 2. Dr.Nisha. C. Rami

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LCA TEJAS DIVISION BANGALORE COMPLEX HINDUSTAN AERONAUTICS LIMITED Post Box No: 3791, Marathahalii Post, Bengaluru - 560 037, India Ph. (2000) 20232 3812, 2232 3811, 2232 3595

No. LCA/HR/TM/46/2423/2023

Date: 30.09.2023

www.hal-india.com

# **CERTIFICATE**

# TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Prajwalkumar Sadanand Mutnale, 7<sup>th</sup> Semester, BE (Mechanical Engineering), The Oxford College of Engineering, has undertaken an Internship in partial fulfillment of his academic requirement at LCA Tejas Division from 30.08.2023 to 30.09.2023.

His conduct during the above training period was Good.

Wishing him all the best for future endeavors.

(Artika Upadhyay) Senior Manager (HR) LCA

ें पंजीकृत कार्यालय : 15/1, कव्यन रोड, बॅगलूरु - 560 001, भारत Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India CIN: U35301KA1963GO1001622

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# DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the Internship entitled "NEUROMICROBIOLOGY" is presented by Pavana B N (IOX20BT015) bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi during the academic year 2023-2024.

Signature of Internal Guide Dr. B K Manjunatha Professor and Head Dept. of Biotechnology

Signature of HODUNATH Signature of the Principal Dr. B KManjunathand Therefessor and Headechnology Dep Biotechnologygineering TOCE-Bengaluru

Dr. N Kannan Principal

External Viva

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PRINCIPAL The Oxford College of Engineerin Bommanahalli, Hosur Roan Signature with date on



# THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

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(Approved by AB-17, New Delta, Associated by NAR Caseds, A.A. (Billioted to VII) Belogard)



#### CERTIFICALE

this activity officially reported topic conflict "Internship at National Highway Authority of Indus" has been successfully carried out by MOHAN G V (IOX20CV006) is a bonafide student STHE OXFORD COLLEGE OF ENGINEERING in partial taltillment forward of Bachelor of engeneering in CIVIET NGINFERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Delagave during for academic year 2023-2024. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Internship presented for BT Depree Nor BS PRINCIPAL Dr. N KANNAN DE MALLESHALAHTS Head of the Department Men. Nayana B S PRINTE Department of Chul Engineering And Professor & Grande The Osdard College of Edgineering Dept of Civil Engineering, 10(1) Bangalore - 568 068. Name of the External Viva Examiner Signature 1) Harris 1 Se 2) Madhzudhan.s



# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068 (Alfihated to VII) and approved by AICTE)

Department of Mechatronics Engineering



#### CERTIFICATE

This is to certify that the Internship work entitled "Design of OPC UA Server For Temperature and Vibration Measurement of HYST Feed Drive Through DAQ Interfaced with NI LabView Max" is a Bonafede work carried out by DEEPAK NS (IOX21MI7405) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report and deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the said degree.

angen Julon 124 Signature of Guide

Dr. Madhura S DEPT OF MTE

Name of the Examiners: 1. ModAuro S.

2. Sanderf.K

The engrant poleta Signature of HOD

Dr. Manjula C DEPTOL WI HOD Department of Mechatronics The Oxford College Of Engineering Bommanahalli, Bompatore - Sa

Signature of Principal Dr. N Kannan

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THE OXFORD COLLEGE OF ENGINEERING (NAAC ACCREDITED) BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068 (Affiliated to VTU and approved by AICTE) Department of Electronics and Communication Engineering CERTIFICATE This is to certify that the Internship work is a bonafide work carried out by Mrs. NIRISHA B P (USN: 10X22LVS01) in partial fulfillment for the award of MASTER OF TECHNLOGY in VLSI DESIGN AND EMBEDDED SYSTEM under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2023-24. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the dissertation accordingly. The internship report has been approved as it satisfies the academic requirements required for the M.Tech degree. Internal Guide 3 242 HOR Principal Dr. ManjulDevi Dr. Manju Devi Dr. N Kannan Professor & HOD of ESC Engineering Head of Department Principal, TOCE TOCE Line Oxford College of Engineering PRINCIPAL Bommanahalli, Bangalore - 560 068 Bommanahalli, Bangalore - 560 068 Bommanahalli, Bangalore - 560 068 Bermonahalli, Hasar H icd. Bongaluru-560 068 Name of Examiners 1) DJ. Kanalerayu R. 20. Dr Ha



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#### CERTIFICATE

This is to certify that SHRAVANI N bearing USN:10X22BA107, is a bonafide student of Master of Business Administration course of the Institute (Batch 2022-2024) affiliated to Visvesvaraya Technological University, Belagavi. The Internship report on "RITTAL INDIA PVT LTD" is prepared by her under the guidance of Dr. V Lakshmi Suneetha, Assistant Professor, Department of MBA, in partial fulfilment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

Sureetha Signature of Internal Guide

Signature of Director- MBA/MCA

DIRECTOR - MBA & MCA The Oxford College of Engineering Bommanahalli, Hosur Road, Bengaluru-560 068.

1) A. Sahar 19/4/24


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THE ONFORD COLLEGE OF ENGINEERING

Bommanakalli, Horne Rood, Bengahirin, Karnataka Sounda ware theoreteed edu Department of Master of Computer Applications

#### CERTIFICATE



This is to certify that the Internship work entitled

#### FULLSTACK WEB DEVELOPMENT

Submitted in partial fulfillment of the requirement for the award of the degree

#### MASTER OF COMPUTER APPLICATIONS

Of Visvesvaraya Technological University, Belgaum, Karnataka Is a result of the bonafide work carried out

By

#### KOUSHIK G 10X22MC078

During the academic year 2022-2023

Guide Signature Ashok B P Assistant Professor Dept. of MCA Signature of HOD Dr. PUJA SHASHI

> Prof & HOD Dept of MCA

The Head Department of MCA The Oxford College of Engineering Husur Road, BANGALORE



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# DEPARTMENT OF MECHANICAL ENGINEERING



Hosur Road, Bommanahalli, Bangalore-560068

(Approved by AICTE, New Delhi, Accredited by NBA & NAAC, New Delhi & Affiliated to VTU, Belagavi)

# CERTIFICATE

that the Report entitled "SOCIAL CONNECT AND Certified RESPONSIBILITY" carried out by CHANDAN R (10X22ME002) Bonafide student of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, for the academic year 2023-24.

G.T. Hang

HEAD OF THE DEPARTMENT

Prd S med Dr. Madhu Sudhan Reddy Gunnies

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UNDER THE GUIDANCE

Dr. Madhu Sudhan Reddy G

Professor & HOD

Professorie HOD angaiore 580 000 Dept. of ME

Dept. of ME



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# THEOXFORDCOLLEGEOFENGINEERING

HosurRoad,Bommanahalli, Bengaluru-56006 (Affiliated to VISVESVARAYATECHNOLOGICALUNIVERSITY, Belagavi) Department of Biotechnology



CERTIFICATE

Certified that the report entitled "SOCIAL CONNECT AND RESPONSIBILITY" carried out by Abhinay Y B with USN-10X22BT001, bonafide student of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Biotechnology of the Visvesvaraya Technological University, Belagavi, for the academic year 2023-24.

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Assot. Professor

.Manjunath ofessor &HOD

Ur, B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-500.000.

Dr.N.Kannan Principal, TOCE

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Read Bengaluru-560 068

Name Of Examiner: 1<u>Do. R.K. M</u>anjunath 2<u>. Do. Valax</u>mathy · k.

Signature with Date Abhinay Y B (1OX22BT001)



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#### DEPARTMENT OF MECHATRONICS ENGINEERING



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#### CERTIFICATE

Certified that the report entitled "SOCIAL CONNECT AND RESPONSIBILITY" carried out by Nachu mahesh kumar (10X22MT007) Bonafide student of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Degree of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi, for the academic year 2023-24.

UNDER THE GUIDA

Mr. Jaideep R

Assistant professor

Dept. of MTE

-12/3/2024 HEAD OF THE DEPARTMENT

Prof. & HOD Dr. Machathant of Mechatronics The Oxford College Of Engineering Professor & HODI, Bangalore - Sec 408

Dept. of MTE



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THE OXFORD COLLEGE OF ENGINEERING. Hosur Read. Bemmanahalli, Bengaluru-560063; (Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi) Department of Artificial Intelligence and Machine Learning वेद्या सर्वत्र शोभते. CERTIFICATE Certified that the report entitled "SOCIAL CONNECT AND RESPONSIBILITY" carried out by Syed Mohammed Ali with USN-IOX22A1054 bonafide student of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of з Engineering in Artificial Intelligence and Machine Learning of the Visvesvaraya Technological University, Belagavi, for the academic year 2023-24. Dr. N Kannan Prof. Saturya Priya K Dr. P.Bindh dhavi Professor & HOD Asst. Professor Principal, TOCE the Oxford College of Eng HEAD OF THE DEPARTMENT Bon your manufacture the DEPARTMENT OF AIML э RE OXFORD COLLEGE OF ENGINEERING Bengaluru-560068 3 Э Name of the Examiners Signature with das 9 SYED MOHAMMED ALI Э (IOX22A1049) 3 3 Э Q 3



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THE OXFORD COLLEGE OF ENGINEERING Honor Robot TECHNOLOGICAL UNIVERSITY, Beloging Department of Information Science and Engineering



# CERTIFICATE

Certified that the Mini Project work entitled "Quiz Application Using Kneth Sharmag" Certified that the stant A (IOX211S065), Moulys Javali (IOX211S066), Nekkans Sal carried out by standard (IOX211S071), Rakshitha CD(IOX211S086) bonafide student of The Galard College of Engineering, Bengaluru in partial fulfillment for the award of Degree of Racheler of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all correctional tuggest indicated for the assessment have been incorporated in the report deposited in the depart library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

rof. Kavya K R

ssistant Professor

Dr. R Kanagayallint E.K.Head DEMOGINE The Oxford College Of Englowering Bomman Heili, Hosur Main Road, time wate and and

Dr. H N Ramen Principal, TOCE. PRINCIPAL The Oxford Gallege of Engin Bommanahalit, Hopur Road Bengaluru-560 068



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#### THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068 (Affiliated to VTU and approved by AICTE)

Department of Electronics & Communication Engineering



Certified that the Project work entitled "Structural Analysis of Freight Wagon Wheel Failure Detection" carried out by Sagar G K (IOX21EC079), Vaibhavi Gummed (IOX21EC102), Yallamma (IOX21EC109) a bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2023-2024. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department library. The Mini Project report has been approved as it satisfies the academic requirements for the above said degree.

N-Guide Dr. MANJU DEVI

Professor & H.O.D

HOD

Dr. MANJU DEVI Dept. of ECE PRINCIPAL Prolessor 80400 of E&C Engineering PRINCIPAL The Oxford College of Engineering Bommanahalti, Hosur Read Tire Oxford College of Engineering Bommanahalti, Hosur Read Bommanenalli, Bangalore - 560 068

Principal Dr. H N RAMESH

Signature with Date

Name of Examiner



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BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068 (Affiliated to VTU and Approved by AICTE, Accredited by NAAC-A Grade)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE 2023-2024

Certified that the Mini Project entitled "Design and Simulation of a SEPIC Converter for Solar Powered Electric Vehicle Battery Charging" has been carried out by SNEHA (IOX21EE015), JNANIKA. B (IOX22EE402), THRUPTHI B N (IOX22EE410), the bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical and Electronics Engineering under the Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Project report has been approved as it satisfies the academic requirements in respect to technical Project work prescribed for the said degree.

Name

Guide

Mrs. Sumitha T L

Dept. of EEE, TOCE

24 Name & Signature of the HOD

Dr. Devi Vighneshwari. B Dept. of EEE, TOCE

Professor & Head EEE The Oxford College of Engg Bommanahalli, Hosur Road Bangalore-560 068 Signature of the Principal Dr. Ramesh H N

Principal, TOCE

PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru 560 (16)



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#### DEPARTMENT OF MECHANICAL ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF SAND BLASTING WITH COLLECTING EQUIPMENT" carried out by DEENADHAYALAN S, FARHA FATHIMA, KESHAVAN S, NIKHIL JONATHAN C bearing USN: 1OX21ME002, 1OX21ME003, 1OX21ME005, 1OX21ME011 respectively in bonafide student of THE OXFORD COLLEGE OF ENGINEERING, in partial fulfilment to the award of Bachelor of Engineering in Mechanical of the Visveswaraya Technological University, Belagavi during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Signature of the Guide Signature of the HOD Dr.Prasad H Nayak

C. m. M.

Dr. Madhu Sudhana Reddy

menu Dr. H N Ramesh PRINCIPAL

2

Signature of the Principal

Apartment of Mechanical Engineers The Oxford College of Engin It-s Collecter Callage of Beginteeting Bengaluvu-560 068 Rommanussis, Bangatore 580.061

Dept. of ME, TOCE



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(Affiliated to VTU, Belagavi, Approved by AICTE& Accredited by NAAC & NBA ,New Delhi)



DEPARTMENT OF BIOTECHNOLOGY

#### CERTIFICATE

This is to certify that the project work entitled SCREENING AND EVALUATION OF PHOTO-CONSTITUENTS OF LITHOSPERMUM OFFICINALE FOR THYROID DRUG TARGETS carried out by Gagan KC(10X21BT009), Govindaraju HN(10X21BT010), Harini R(10X21BT011), Kowshalya C(10X21BT015), bonafide student of THE OXFORD COLLEGE OF ENGINEERING, in partial fulfillment to the award of Bachelor of Engineering in Biotechnology of the Visveswaraya Technological University, Belagavi during the year 2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Signature of the Guide Dr.Amulya Giridasappa Signature of the HOD Sign Dr. B.K. Manjunatha I F. B.K. MANJUNATHA

ignature of the Principal Dr. H N Ramesh PRINCIPAL

Professor & Head Department of Biotechnology Fhe Oxford College of Engineering Bangaluru-560 068 Bangaluru-560 068



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#### THE OXFORD COLLEGE OF ENGINEERING

#### DEPARTMENT OF CIVIL ENGINEERING

Hosur Road, Bornmanahalli, Bangalore-560068 (Approved by AICTE, New Delhi, Accredited by NBA, NAAC Grade 'A', New Delhi& Affiliated to VTU, Belugavi)



#### CERTIFICATE

This is to certify that the report on Mini Project on topic entitled "PERVIOUS CONCRETE " has been successfully carried out by VICTORY S (IOX22CV403), VIJAY KUMAR A (IOX21CV016), JAYARAM BIDAKAR (IOX22CV400), VINOD REDDY (IOX22CV404) are bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2023-24. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Mini Project prescribed for B.E Degree.

INTERNAL GUIDE

Name of The External Viva Examiner

ya.sk

Mr. Prashanth T S Asst. Professor

1) 2) Head Department Department of Civil Engineering The Oscill Middlary Mouley Sheering Department Sheering

PRINCIPAL Dr.H. N RAMESH TOCE

Signature

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## THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068 (Affiliated to VTU and approved by AICTE)

#### **Department of Mechatronics Engineering**



## CERTIFICATE

Certified that the Project work entitled "UNDERWATER OBJECT DETECTION THROUGH AREIAL USING IMAGE PROCESSING WITH A VTOL DRONE" is a bonafide work carried out by, Achyutha S.S (10X21MT001), Akshay Krit K (10X22MT400), Eshu H R (10X21MT004) and Madhu Chandan K Chari (10X21MT008) in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-24. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The Mini-Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide Dr. Madhura S Dept. Of MTE Signature of HOD Dr. Madhura S Dept. Of MTE Signature of Principal Dr. H N Ramesh TOCE



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Bommanahalli, Bangalore 560068



#### CERTIFICATE

This is to certify that the Mini-Project entitled "MULTIPLE DISEASE PREDICTION SYSTEM" carried out by HEMANTH N B, 10X21AI010 of Vlth Semester students of The Oxford College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Artificial Intelligence and Machine Learning of Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. The Mini-Project report has been approved as it satisfies the academic requirements in respect of Mini-Project work prescribed for the said Degree.

Signature of the Child and HOD Dr. P. Bridho Mathavi Professor & HOD, Dept. of AIML TOCE, Bangalore MEAC OF THE DEPARTMENT DEPARTMENT OF AND SECONDECT OF END AND FROM AND ACT OF Name of the Examiners:

2 2 2

Signature of the Principal

Dr. H N Ramesh Principal TOCE, Bangalore

PRINCIPAL Indizenture with Date opineering Bommanahalit, Hosur F., Bengaluru-560 069