



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.I.C.T.E. New Delhi.

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Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Details of Resource Person



Dr. B.K. Manjunatha

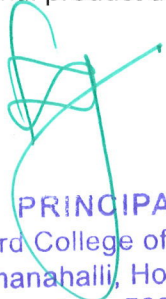
Dr. B.K. Manjunatha, HOD & Dean Research, has developed and patented a bioremediation kit called Petro zap for oil spill treatment funded by Naval Research Board, New Delhi (Patent APP No. 201741042005, CBR no. 36125) Date of Domestic patent filing – 23.11.2017.

Following are the list of Products developed in the Department.

1. Bioremediation kit for oil spill treatment funded by Naval Research Board, New Delhi
 - a. Patent APP No. 201741042005
 - b. CBR no. 36125
 - c. Date of Domestic patent filing – 23.11.2017
1. Prototype of portable bio-digester for bio-gas production was developed.
2. Nutrient rich water and Antioxidant rich water, flavored water

Preparation of flavored water using essential oil, Natural Flavors and Natural Flavoring Substances with less than one percent by weight of the final product and its quality analysis.

1. Potable Flavored water
2. Potable herbal water


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



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3. Enriched water

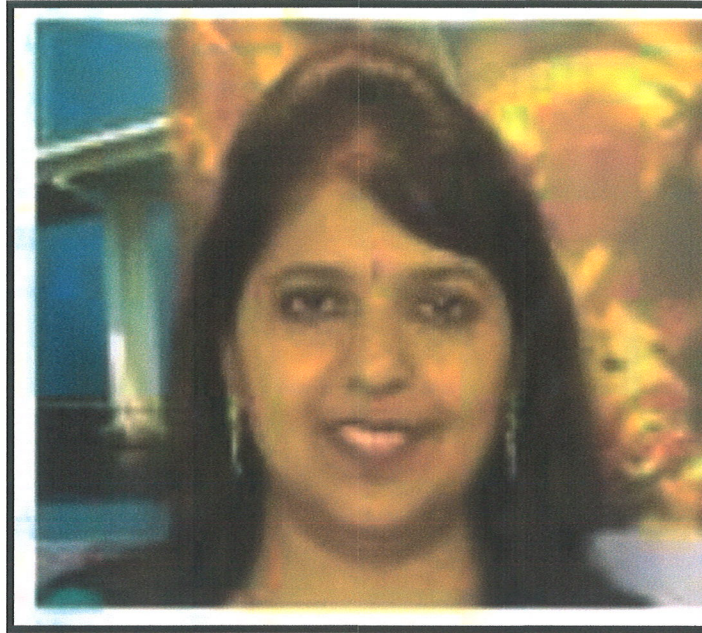
Purified water containing extracts of Herbs, Fruits or parts of Plant origin, flavor concentrates in minute traces, singly or in combination, intended for sale as a ready to serve drink for human consumption

- Herbal tea, Medicated tea
- Oral film for dental applications
- Antibiotic film for sustained release
- Biodiesel



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Dr. Preeta Sharan

Professor, Oxford College of Engineering Basically involved in R&D, specialty in device development.

Experienced Professor skilled in device development for PWD Sensors, Fiber Optics, and Research funding. Strong education professional with a post-Doctoral focused in Characterization and fabrication of Optical fibre Bragg Grating, Optical Sensor from IIT Kharagpur.

- Research coordinator
 - IEEE student Branch councilor.
 - Presently working on the Nano-Photonics like Biosensor and fluid sensors. And also on optical sensor.
 - Currently guiding Ph.D in the domain of Optical Fiber Communication and Optical networking.
 - Six Ph.D students finished Ph.D and 6 are persuading
 - One student from Bhartiya Univ. Tamilnadu.
 - Three students from Amity university , Lucknow
 - Two students from DSU , BLR.
 - Under my supervision 3 students completed Ph.D and 6 are doing .
 - Got funded project from Govt of India demo NRB DRDO, VGST Govt of Karnataka, IEEE, ICMR,AICTE KSCST.



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Mr. Shankar M Mepparambath, did his MBA (Marketing), in 1999 at Univ. of Madras. In 2005 and 2016 Undergone FDP and SFDP respectively at IIM-Ahmadabad, He has work experience in both Academics and Industry, 15 years in Academics and 10 years in Research, training and consultancy respectively. He worked with Satyam computers, Manthan services, and Caterpillar (USA), He has published articles in various national level journal. He trained more than 16,000 participants across India in research methodology and statistical software which includes R, SPSS, SAS, AMOS & SYSTAT. His research materials like "360 degree view of RM and What is Theory" are downloaded by the research communities pan world. He has been enacting as research consultant for various companies such as Valuvox, PPDA Ltd, SPSS South Asia Ltd, Bangalore and Starcomm.

As a consultant, he handled client like HSBC on Branding experience and Alleges for profiling IT human resources, On training, He has been providing training for various corporates like Optimal Strategix group, IBM, Gujarat Gas Limited, Care India, Custlogic and Satvik etc. He enacted, visiting faculty for premium B-schools like Jammu state and Central university, Narsee Monjee, IIM-Trichy and also handle Research session for Doctoral students at AHRD, Ahmedabad His area of interest includes Research Methodology and analytics. Currently he started his own venture in the name of CARES, which focus on Research, Consultancy and training.



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Sangeeta Nagar

Sangeeta Nagar is B. Tech (Electronics & Communication) from IETE. She is working as Scientist 'F' in Patent Facilitating Centre (PFC). She has more than 20 years of

Scientist F, Patent Facilitating Centre (PFC), Technology Information Forecasting and Assessment Council (TIFAC),

experience in the field of IPR. She is also the Coordinating Officer for Women Scientist Scheme-WOS-C (KIRAN-IPR). She got trained in EPO in patent searches in 2009, got training in Germany in the year 2014 on Patent searches related to ICT conducted by C-DAC, EPO & EBTC. She also got training in Intellectual Property Management from Japan in 2015.

(An autonomous institution under Department of Science & Technology (DST), Govt. of India)

'A' Wing, Vishwakarma Bhavan, Shaheed Jeet Singh Marg, New Delhi 110016, India

Ph: +91+(0)11+ 42525802, 9871075662, Fax: +91+(0)11+ 26863866

E-mail: sangeetanagar2005@gmail.com , Web: www.tifac.org. in and www.pfc.org.in



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Dr. Farah Deeba

Dr. Farah Deeba is an Associate Professor at CMR University, Bangalore. Prior to this she has worked with Monsanto Company as a Senior Scientist (1996-2009). Farah has a Ph. D. (Agriculture Entomology & Plant Pathology, 1996) from the G. B. Pant University of Agriculture & Technology, Pant Nagar. She has further specialized in Intellectual Property Protection from Indian Institute of Science, Bangalore (2005). She has more than twenty years of experience in the field of Intellectual Property, Agriculture Biotech, R&D, teaching, research guidance, research communication and scientific outreach. Her areas of work include – IP Protection, Agriculture Biotech, Competitive Intelligence, Technology Prospecting, Knowledge Management and Data Mining. She has several publications in peer reviewed journals including those on Bt-cotton, Bt-corn and IPRs. She is an inventor with patents in Genomics.

Apart from her scientific publications, Farah has literary works to her credit. These include two English novels 'Corporate Curry' and 'Rain Shadow', and other three books on various topics. She is an accomplished vocalist specializing in 'Ghazal' singing and has a music album to her credit."



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Profile of Smt. Prabhavathi Rao

Facilitator, Intellectual Property Rights Cell, at

VTPC, Dept. of Industries & Commerce, Govt. of Karnataka

Smt. Prabhavathi Rao holds a master's degree in economics from the Central University of Hyderabad. She also holds Certifications in Intellectual Property Rights Foundation Course, Patent Cooperation Treaty and more, from the World Intellectual Property Organization (WIPO), Geneva, Switzerland. She brings over two and half decades of career experience, having worked for esteemed Organisations including the Confederation of Indian Industry, the Institute of Chartered Financial Analysts of India, among others. She is also the recipient of the Outstanding Employee Award at India's leading IT Staffing Company, Magna Infotech, a Division of Qess Corp Ltd.

In her current role, since the past 8 years, she facilitates the Intellectual Property Rights initiatives at the Government of Karnataka Centre for Export Promotion, namely the Visvesvaraya Trade Promotion Centre (VTPC), under the aegis of the Department of Industries & Commerce, Government of Karnataka. She has been closely involved in sensitization drives, training and nurturing the Intellectual Property fabric of various stakeholders across the State representing academia, industry, and others, in conjunction with IP specialists in the domain. The training programs have been across varied topics in the IPR spectrum customized to the audience needs. As a catalyst, she has spurred the launch of IP Cells in academic institutions. She has also been closely involved in Policy Initiatives, the recent one being the **Geographical Indications (GI) Policy** for Karnataka which was unfurled in May 2019. Karnataka is the first State in the country to come out with an exclusive GI Policy to protect the traditional legacies of the State.

In her career span in retrospect, as a Corporate Communications Professional, she brings a rich blend of audio, visual and print media experience, having authored several features, editorials, websites, resumes, organised interview sessions for the



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print media for leading magazines and dailies on contemporary topics. Among her soft skills, she was an auditioned Compere for the Youth Channel of All India Radio, Hyderabad during the 1991-1998 period having broadcast and anchored live programmes, produced documentaries and features besides anchoring shows for Corporates and Door darshan.



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Manikanta Prasad GVN

Professional background -

Currently working as Vice President for University Connect and Data Science Consulting Wing, Handling B2B Sales and Operation across south India and having experience in handling corporate projects into Business Analytics and Data Science.

Having core expertise into Statistical Modelling and Machine Learning worked into domains like Retail Industries and Healthcare Industry also has trained closed to 800+ students and 150+ working professionals into profiles like Business Analyst and Data Scientist across India, US, and Canada.

Prior to Business Toys, was working as Data Analyst at Metro Cash and Carry, was responsible for analyzing customer profiles and their purchase patterns in order to predict / estimate the future revenue and identifying new strategies to increase sales.

Was working closely with Data Science team in order to analyses the footfalls of customers into the stores and to make pricing strategies accordingly and reporting the same to the BODs for Decision Making.

Educational background – Having a master's degree in MBA with Business Analytics as specialization



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Dr. Kavya Shree K M

MBA, Ph.D.

Assistant Professor

Experience: 10 Years

Area: Statistics, Research Methodology, HR analytics, QT and OR, Marketing, Consumer Behavior, General management.

Contact: 9538324465

Mail: kavyamithunkashyap@gmail.com

2019 March: Awarded Ph.D. with thesis entitled "Impact of Information and Communication Technology on Consumer Buying Decision Making Process among Generation Cohorts" from University of Mysore.

2015 August: Registered to Doctoral Program from University of Mysore, Mysore.

Enthusiastic researcher, learner, optimist, and is passionate about serving to the society at large. Using innovative teaching pedagogy like case study analysis, industry interaction programs, subject related industry activities, live mini projects, making students to be a part of outsourced research work, have experience in teaching subjects like Statistics for Managers, Quantitative techniques and Operations



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research, Research Methodology, Consumer behavior, Retail and Services management, and all General management subjects. A challenge seeker ensures that there is proper benchmarking for teaching and self-development and works towards it with a positive attitude. Quickly adapts to changing environment and strictly follows organizational and personal ethics. Is Instrumental in guiding students of MBA, for internships and dissertation studies. Well versed in counselling, mentoring and motivating students to build positive morale in them.

Professional Experience

2019 February, till date working as assistant professor at BNMIT, Bangalore

2015 to 2019: Working as Assistant professor in CIMS B School (MBA Dept.), Bangalore

2015 till date: Working as **research analyst** for **Analyze research solutions**, Bangalore as a freelancer.

2012-2015: Worked as Assistant professor, Apoorva Institute of Management, (M. Com and MBA Dept.), Bangalore.

2009-2012: Worked as Assistant professor, CIMS B School (MBA Dept.), Bangalore.

2009-2012: Worked as Assistant professor, Kamala Nehru Evening College, Bangalore.

2007-08: Worked as HR Recruiter in Nisi InfoTech Pvt Ltd, Bangalore

Worked as visiting faculty- Adarsh Institute of Management, Govt RC college.

Worked as examiner and external evaluator in Dayananda Sagar University, Bangalore.

Corporate trainer in business analytics and HR analytics

Contributions

Paper Publications

International publications

1. Application of Technology Acceptance Model in Consumer Behavior Towards Internet Purchases, **International Journal of Psychology and Cognitive Science**, ISSN: 2472-9450 (Print); ISSN: 2472-9469 (Online)



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2. Perception and Attitudes towards Information and Communication Technology (Internet) for Purchase Decisions among Generation Cohorts, **American Journal of Information Science and Computer Engineering**, Vol. 3, No. 4, 2017, pp. 56-63, ISSN: 2381-7488 (Print); ISSN: 2381-7496 (Online)

National publications

1. Role of Management Education in Entrepreneurship development in India, International Journal of Research and Analytical Reviews (IJRAR), June 2019, Volume 6, Issue 2, (E-ISSN 2348-1269, P- ISSN 2349-5138)
2. Consumer Behavior in New Digital Era: A Paradigm Shift, International Journal of Management Studies, ISSN (Print) 2249-0302 ISSN (Online)2231-2528, <http://www.researchersworld.com/ijms/>, Vol.-V, Issue -3(7), July 2018
3. Exploring the dimensions of perceived risk in using internet for purchase decisions, IJSRD - **International Journal for Scientific Research & Development**, Vol. 5, Issue 04, 2017, ISSN (online): 2321-0613
4. A Conceptual Model on Role of Information and Communication Technology on Buying Decision Making Process among Generation Cohorts, ISBN: 2455-6435

Workshops

1. Three days FDP on "HR Analytics- A tool to unlock the value of Human capital" organized by Department of management studies and research centre, Global Academy of Technology, Bangalore from 11 th July to 13 th July 2019
2. Five Day Faculty Development Program on "**Analytics Using R-Studio**" organised by Department of Management Studies, DSATM, between 28th June and 3rd July 2019
3. One-day Management Development Program (MDP) on "HR analytics" organized by Center for Management Studies (CMS), Presidency College, Bangalore. on 17 June 2019.
4. International workshop on "research and Innovation", ISBR Campus, Bangalore, August 2017
5. Workshop on "writing research-based articles", We School Campus, Bangalore, June 2017
6. National workshop on "Application of SPSS and AMOS in business research", organized by University of Madras, Chennai, June 2017
7. "Methodology of research in Social Sciences", RVIM campus, Bangalore, Oct 2015.



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8. FDP on "Achieving teaching excellence in Management education" at Dayananda Sagar Business School, Sponsored by AICTE, in Jan 2010

Conferences

1. 3rd Annual Convention of ICBE and International conference on Global Entrepreneurship- Emerging opportunities and challenges, January 28th and 29th, 2019.
2. International conference on Innovative practices in management and entrepreneurship organized by department of management studies BNMIT, Bangalore on 27th and 28th December 2018.
3. 30th AIMS Management Education convention, Management education: Connecting the dots, 30th, 31st August and 1st September 2018 organized by Welingkar Institute, at We School and Infosys campus, Bangalore.
4. National seminar on "Rejuvenation of Undergraduate Education in India", 10th and 11th August 2018, organized by **Center for Educational and Social Studies (CESS) at IISC Campus, Bangalore.**
5. International Conference on "Current Trends in Business Practices and management education, 7th April 2018, organized by ISBR Business School, at ISBR campus, Bangalore.
6. "International research conference, 8th Jan 2018, organized by Welingkar Institute, at We School campus Bangalore.
7. International conference on role of e commerce and tourism in creating global brands, December 9th, 2017, organized by AIMS institute, Bangalore, at AIMS Campus, Peenya, Bangalore
8. International conference on contemporary challenges in Business Management, ISBR Campus, March 2017.
9. International Conference "A Road Map to Globalization in the Present Digital Era", March 2017, Pioneer Institute of Professional studies, Indore
10. International conference on Healthcare systems and global business issues, Jan 2017, KIAMS campus, Pune
11. International conference on advances in collaborative research for economics, business, humanities, social science and computer technology. University of Mysore June 2016
12. International conference of Management Education and Practices, Bangalore University, November 2015

Certification

1. Completed online certification course on "Structural equation modelling using Amos: with examples from Udemy, in March 2017.



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2. Hands on experience on SPSS for statistical analysis.
3. Hands on experience in R, smart PLS, Jamovi.

Academic Details

Sl. No	Course	Institute	Year	% Marks
1	Ph.D.	University of Mysore, ISBR Research Centre	2015-2019 (August 2015 Registered)	Awarded in March 2019
2	MBA (Marketing & HR)	Community Institute of Management Studies – Bangalore University	2007 – 2009	70 %
3	B.Sc.	N.M.K.R.V College – Bangalore University	2004 – 2007	78%
4	PUC	Govt Science College – Bangalore University	2002-2004	72%
5	SSLC	St. Josephs convent high School – Karnataka State Board	2001-2002	82 %

Achievements and awards

1. Academic council member for the academic year 2019-21 at ISBR Business school, electronic city, Bangalore.
2. Received “Abhinandana Rising Star Award-2019”, under the category of “Shrama Awards” in recognition for achievement in academic research, at ISBR, organized by BET in association with ELCIA, PR Forum and Book Paradise- Chambers Academy, on 1st May 2019.
3. Won **best paper award** for presenting a paper titled “impact of technological innovations among generation cohorts” at “international conference on Innovative practices in Management and Entrepreneurship” organized at BNMIT, Bangalore in December 2018.
4. Invited as **resource person** to speak about topic “Role of publications and paper presentations in research” at State Level Faculty Development Programme on “Pre-Ph.D. Preparation” on 3rd August 2018, organized by St Teresa's Degree College for Women, Bangalore
5. Won **best paper award** for presenting a paper at international conference on contemporary challenges in Business Management, ISBR Campus, March 2017.



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6. Organized events like "Abhyudaya"- Commerce and Management fest at BMS College for women. "Summit"- National level management fest at CIMS B School.
7. Appreciation for best singing and contribution in sports.
8. Actively involved in volunteering activities for NGOs like Parikrama, Youth for Parivarthan, Abhalashram, Bosco.

Other details:

1. Nationality- Hindu
2. Marital Status- Married
3. Languages known (To read and write)- English, Kannada, Hindi
4. Residential address: #103, SIRI MN Nivas, 1st Cross, Ashwatha Katte road, Chikkalasandra, Bangalore -560061



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**Inaugural Ceremony Of "The Oxford - KSCST - VTPC Centre For Patent and
Technology Transfer" On 18.01.2021**

Following that the Guest of Honor for the Inaugural ceremony Smt. Prabhavathi Rao, Facilitator, Intellectual Property Initiatives and Geographical Indications Cell Visvesvaraya Trade Promotion Centre (Govt of Karnataka Centre for Export Promotion) Department of Industries & Commerce, Bengaluru addressed the gathering. She also appreciated The Oxford College of Engineering in taking Initiative for launching IPR cell for the Oxford Group of Institutions. She shared about the trends in Intellectual Property Ecosystem and also highlighted the Initiatives from Government of Karnataka, Centre for Export Promotion towards this and also mentioned about the golden rule for patenting. The inaugural ceremony is followed by valedictory address by Dr.G.T.Raju, Principal, The Oxford college of Engineering.



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Mrs. Valarmathy K

The FDP included a formal inaugural session compered by Mrs. Valarmathy K of Dept of Biotechnology, with invocation and a lamp lighting ceremony. The distinguished people in the meeting were **Dr. G.T. Raju**, Principal TOCE, and **Dr. Amarnath K**, Director, The Oxford Educational Institutions, also the Chief Guest on the occasion **Dr. Manpreeth Singh Manna**, Former Director, **Sant Longowal** Institute of Engineering and Technology, Punjab, **Dr. B K Manjunath**, HOD, Dept of Biotechnology, The Oxford College of Engineering. Guest of Honour was Smt. **Dr. Rangaswamy**, Registrar evaluation, Visvesvaraya Technological University. The session was presided by the Chairman of The Oxford Educational Institutions, Sri. S N **V L Narasimha Raju garu**.

The welcoming speech was delivered by **Dr. R.V. Praveena Gowda**, Principal TOCE, who briefed about the objectives and the purpose of conducting this program. **Dr. Manjunath**, BT HOD of Biotechnology and the convenor of FDP spoke about the need of pedagogy in Engineering role of a teacher in igniting the young mind towards innovation through advanced teaching methods and highlighted the benefits of collaborative research, innovation and appreciated the kind support extended by VTPC in organizing the FDP.

The programme progressed with the inaugural lecture by the Chief Guest, **Dr. Manpreeth Singh Manna**. In his talk he highlighted the R&D innovations in the perspective of Accreditation. The guest of honor, **Dr. B.E. Rangaswamy**, Registrar, VTU, gave the theme facilitation, where he addressed the importance of the program for the academicians. He also gave a glimpse of the activities going on in the Oxford College of Engineering. The post-lunch session was presented by Dr. Jaganath, Pasteur, Conoor, where he emphasized about vaccine development process and production.

Day 2: 16th February 2021

The second day started off with the lecture of **Dr. B.K. Manjunath**, BT HOD, TOCE. His talk was based on strategies for product development in the current perspective. The next lecture was given by Smt. Prabavathi Rao who talked about VTPC initiative to promote GIs, as an important tool. The programme progressed with the lecture by



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Dr. S. Ayyappan, Chancellor, Central Agricultural University, Imphal, in which he talked about IOT in agriculture.

Day 3: 17th February 2021

The third day started with the lecture of **Dr.R. Rajesh Kumar** who talked on the integrated sustainable agriculture & rural Bio-entrepreneurship. The next lecture was given by **Dr. Paramasivan**, Scientist, ICMR, on the topic of vector borne disease in India and the need for options for innovation. The next talk was about intellectual property as a powerful tool to protect Biotech innovation by **Mr. Vivek Anand Sagar**. KSCST.

Day 4: 18th February 2021

The fourth day started with the lecture about entrepreneurship & Bio - innovation challenges & opportunities by **Dr. Shridhar Hari Krishna Murthy**, Scientific Advisor, VNS Enviro Biotech Pvt Ltd, Chennai. The second talk was delivered by **Dr. T. Srinivas**, IISC, on optical biosensors. As the last session of the day, **Dr. Devaneyan**, Director - Innovation & Entrepreneurship Professor - Sustainable Energy, MAHER - Meenakshi Academy of Higher Education & Research, highlighted about Bio-Innovation products and Entrepreneurial opportunities.

Day 5: 19th February 2021

The fifth day started with talk on the concepts & design intricacies of brain computer interfacing by **Dr. Rama Subba Reddy**, IISC. The day progressed with the next lecture by **Dr. Bijay Kumar Sahu**, NRDC, who emphasized on IP Protection and Tools of IP. The last session was engaged by **Dr. Bharath**, at rimed Pharmaceuticals Ltd, who talked on the need of bioinformatics and highlights of how to cut the cost and break the IP.

Day 6: 20th February 2021

On the sixth day, **Dr. N.G.Lakshmi Narayan**, NRDC, talked about NRDC – Transforming Innovative Research in to Profitable Technology. In the second session, **Dr. Yogamaya**, Deputy Manager, Biotech Consortium India Ltd (BCIL), New Delhi, talked about aligning applied research in Biotech for enhancing commercialization success. The last session was taken over by **Dr.Brinda**, IP attorney Consultant, IISC, who talked on Patenting biotechnological inventions.



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Day 7: 22nd February 2021

The seventh day of the program started with the lecture by Dr. Nandhini, **G.I. Expert Consultant**, Foundation for revitalization for Local Health Traditions, who emphasized on the procedure of patenting. The program progressed with the next lecture by **Dr. Sarasija**, Tutor, Wipro & Advisory member KSCST, who talked about the prior art search related to biotechnology inventions.

Day 8: 23rd February 2021

The eighth day of the program commenced with the technical talk by **Dr. Sundaresan, CMAP** who gave details on medicinal and aromatic plants and about the prospects in cultivation and enterprises. The session was then taken over by **Dr. Farah Deba**, Former Scientist, Monsanto who emphasized on the identification of patents at the early stage of biotech inventions.

Day 9: 24th February 2021

The ninth day of the program began with the lecture by **Dr. Sumitha Mishara**, Amity University on the topic innovative research in thermal imaging for biomedical and agriculture applications. The second session was engaged by **Dr. Padmapriya V Khurana**, KSCST who discussed about Patent Drafting of Bio-Tec Inventions Techniques for biotechnology inventions.

Day 10: 25th February 2021

The tenth day of the program started with technical talk by **Dr. N.Sriram, MSRIT**, who explained about Bio-Innovation: MAKERSPACE-Idea to Prototype. The next talk was on the reply to examination report of patent application related to Bio-Tec Inventions by **K S Dhurgesh, KSCST**.

Day 11: 26th February 2021

The final day of the program started with informative lecture given by **Mr. Gaurav Mishra Banana, KSCST**, who emphasized on Infringement & Exceptions Under Patent Law Bio-Tec Research– Bolar exception and Bioequivalence. This led to the end of the series of lectures in the two weeks program me. The program on the whole was very informative.



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The Valedictory session was presided by **Shri.S.N.V.L Narasimha Raju** ,Chairman ,The Oxford Educational Institutions, **Dr. B.K.Manjunath** gave a detailed summary through presentation about the details of technical talks happened during the 14 days FDP.

AICTE sponsored Phase 2 FDP on" Bio innovation, Patenting and entrepreneurship opportunities in Biotechnology for sustainable environment from 8th to 20th March 2021

The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored two weeks Faculty Development Program titled "Bio innovation, Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment" from 8th to 20th of March 2021, in association with Karnataka state Council for Science and Technology, Government of Karnataka, Bangalore Bio innovation centre and Visvesvaraya Trade Promotion Centre (VTPC), Department of Industries & Commerce, Government of Karnataka, as knowledge partners for the benefit of all the faculty members .

Day1: 8th March 2021

The FDP included a formal inaugural session compered by **Mrs. Valarmathy K** of Dept of Biotechnology, with invocation and a lamp lighting ceremony. The distinguished people in the meeting were Dr. R.V. Praveena Gowda, Principal TOCE, and **Dr. Amarnath K**, Director, The Oxford Educational Institutions, also the Chief Guest on the occasion **Dr. Jitendra Kumar**, Managing Director, Bangalore Bio innovation Centre (BBC), **Dr. B K Manjunath**, HOD, Dept of Biotechnology, The Oxford College of Engineering. Guest of Honor was **Dr. Hrishikesh Damle**, MD & CEO, At rimed Pharmaceuticals and **Dr. Ramaswamy Rajesh Kumar**, Professor, College of Agriculture and Biotechnology, Zhejiang University, China as Keynote speaker. The session was presided by the Chairman of The Oxford Educational Institutions, Sri. **S N V L Narasimha Raju Garu**.



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The first talk was delivered by **Dr. Jitendar Kumar** on "Creating an Innovative Ecosystem in Life Science". **Dr. Kumar** emphasized on various factors that enhance the growth of biotechnology clusters and added a note on the services offered by Bangalore Bio innovation Centre (BBC) in creating an innovation ecosystem.

The next session was by **Dr. Hrishikesh Damle** on "Starting your own company". **Dr. Damle** discussed in detail the qualities needed to be an entrepreneur along with the difficulties faced during the initial times of his company, At rimed Pharmaceuticals.

Keynote speech was delivered by **Dr. Ramaswamy Rajesh Kumar** on "Integrated sustainable agriculture and rural bio-entrepreneurship". **Dr. Kumar** elaborated on the global challenges arising from various anthropological activities and the inventions related to sustainable agriculture.

Day 2: 9th March 2021

The second day started off with an interesting speech on "Plant specialized metabolism and its engineering for commercial production of high value metabolites" by **Girinath G. Pillai**, Ph.D. Sir spoke of evolution of plant genome. The next session was delivered by **Dr. K.S. Jagadeesh** on "Towards development of a bio stimulant using forest genetic resources for use in agriculture". **Dr. Jagadeesh** discussed about bio stimulants, production, advantages of bio stimulants over chemical fertilizers and their market potential. The last session of day 2 was handled by **Dr. Srinivasa Mutalik** on "Nanocarriers as drug delivery vehicles: overview and case studies". **Dr. Mutalik** gave a detailed lecture on the use of nanotechnology in drug delivery system.

Day 3: 10th March 2021

The third day started with technical talk by **Dr. N. Sriram** who delivered a speech on "Bio-innovation: MAKERSPACE- Idea to prototype". **Dr. Sriram** spoke of different inventions in the field of health sciences and wearable electronics. Session 2 was engaged by **Dr. Ramakanth** from Nishant Aromas Pvt. Ltd. Sir elaborated on various MSME opportunities on aromatic plants.



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Session 3 was handled by **Dr. Srinivas B V** from Aspartika Biotech Pvt Ltd. Sr. Srinivas spoke on various innovative ideas for startups.

Day 4: 12th March 2021

The fourth day began with a talk on “Role of MSME in Indian economy” by Dr. Gopinath Rao from MSME Development Institute, Govt. of India. Dr. Gopinath talked us through various schemes offered by the Govt. of India along with a number of challenges faced by MSMEs. Session 2 for the day was engaged by **Dr. Kailash Chandra Khulbe** from CSIR- Indian Institute of Toxicology Research, on “Entrepreneurship: commercialization of scientific knowledge base”. **Dr. Khulbe** elaborated on various probabilities to commercialize a scientific idea. Session 3 was engaged by **Dr. Pradeep Kumar Verma** from NMRL on “Innovations in marine biotechnology”. **Dr. Verma** introduced the audiences to various aspects of marine biotechnology, creation of novel products from marine ecosystems and plenty of opportunities marine biotechnology has to offer to the young minds.

Day 5: 13th March 2021

The fifth day started with talk on the concept “Plant viral diseases and their management through biotechnological interventions” by Dr. Basava Prabhu L Patil. He elaborated on various plant viral diseases, their causative agents, development of disease resistant varieties. Session 2 was engaged by **Dr. Nivedan** on “Areca tea value added products from arecanut”. **Dr. Valarmathy K** handled session 3 for the day on “Biotech entrepreneurship ideas and opportunities”. **Dr. Valarmathy** talked us through various products developed and those which have successfully been commercialized



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Day 6: 15th March 2021

The sixth day started with a talk on “Hidden healthcare informatics data exploration as an entrepreneurial niche” by **Dr. Vidya Niranjana**. **Dr. Vidya** pointed out the importance of data analytics in healthcare, elements and attributes pertaining to data analytics as well as different steps of data analytical processes. Session 2 was on “Art of writing research proposal for successful funding” by Dr. Preetha Sharan. Dr. Preetha elaborated on various terminologies like H index, i-10 index and ORCID ID along with their importance and relevance in publishing research articles. Session 3 was handled by Dr. B K Manjunath on “Technologies and funding opportunities”. Dr. Manjunath spoke on various technology transfer opportunities in the field of biotechnology, production, and commercialization of biopesticides and start up schemes of Govt. of India.

Day 7: 16th March 2021

The seventh day of the program started with a talk on “Isolation and characterization of anti-cancer compounds from natural sources” by Dr. Shama Prasada K. Sir discussed different cancer treatment options and different types of assays for diagnosing cancer cells. Session 2 was engaged by Dr. A Srinivas Rao on “Pesticides and their metabolites analysis: Environmental and biomarkers of human exposures and health issues”. The next session was on the topic “Biotech patent case laws defining patentability criterion in different jurisdictions” by Smt. Ekta Prasad, Patent Agent, KSCST.

Day 8: 17th March 2021

The eighth day of the program commenced with the technical talk by **Dr. Sarasija**, Tutor, WIPO & Advisory member, KSCST, who gave details on the topic “Hands on training –Prior art search related to Biotechnology Inventions”. The session was then taken over by **Dr. C.R. Patil**, Professor, University of Agricultural Sciences, Karnataka, who emphasized on the types of microbial inoculants, current status, future prospects and quality standards.



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Day 9: 18th March 2021

The ninth day of the program began with the lecture by Ms. Ankita Puranik, Innovation and Ecosystem Development Officer, BBC, on the topic "Startup ecosystem and funding opportunities". The second session was engaged by Dr. Meher Prakash, Cofounder, VNIR Biotechnologies Pvt Ltd, who discussed about "My journey, back and forth between academics and startup". The last session of the day was about the overview of government and non-government funding agencies for research and development by **Dr. B. K. Manjunath**.

Day 10: 19th March 2021

The tenth day of the program started with technical talk about the opportunities for starting a science-driven business by **Dr. Raghuveer Ramachandra**, Founder and Director, Galore TX Pharmaceuticals Pvt Ltd. The last session was about 3D Bioprinting in India and about how it is shaping up healthcare and medicine by **Mr. Piyush Padmanabhan**, Cofounder, Next Big Innovation labs, Bangalore.

Day 11: 20th March 2021

The eleventh day of the program started with informative lecture given by **Dr. Arvind Vishwanath**, CEO, Pitch Scientific, Bangalore, who emphasized on patent searching and analysis with reasons, data sources and methods. The second session was about newer avenues and skill sets for biotech entrepreneurship given by **Dr. Pratima Kanderwal**, Lead Facilitator. The last session of the technical talk was by **Dr. Raju**, Professor and Head of Department of Automobile Engineering, TOCE, on the topic "Biodiesel- a potent option for Entrepreneurship".



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Day 12: 22nd March 2021

The last day of the FDP started with technical talk delivered by Dr. Nagendra, Professor & Head of the Department of Biotechnology, Sir M Visvesvaraya Institute of Technology, Bangalore, on the topic "Role of Educational Institutions in Promoting Innovations and Entrepreneurship development". The second session was on the topic "IOT in Agro production, Processing and retailing" by Dr. Manpreet Singh Manna. The Valedictory session was presided by Shri. **S.N.V. L Narasimha Raju**, Chairman, The Oxford Educational Institutions, and the Chief guest was Dr. Manpreet Singh Manna, Former Director, AICTE, Associate Professor, Department of Electrical and Instrumentation Engg, SLIET, Longwall, Punjab and Guest of Honor was Dr. **H.G.Nagendra**, Professor & Head, Department of Biotechnology, Sir **M.Visveswaraya** Institute of Technology. Dr. **B.K.Manjunath** gave a brief presentation about the details of technical talks happened during the 14 days FDP and the participants were overwhelmed with the FDP and they expressed their happiness during the feedback session and the 14 days event was ended with the vote of thanks by **Dr. K. Valarmathy**, Associate Professor, Department of Biotechnology, The Oxford College of Engineering.



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The speaker of the session -1, **Mr. Vivek Anand Sagar** discussed about the importance of strong patent systems for the growth of industry, the basis of rejections due to non-fulfillment of patentability criteria and about compulsory licensing.


The speaker of the session-2, **Mr. Nagarjun M G**, inspired the audience by lively interacting on topics such as the patentability criteria for any inventions such as novelty, non-obviousness, industrial applicability, non- patentable based on morality, public order, or human rights consideration of each country. He also emphasized on the substantive examination process focusing the first examination report (FER).

The speaker of the session-3, **Ms. Brinda Verma**, discussed about the history of patent law in India along with detailed explanation about the procedure for grant of a patent in India including filing of application, pre-grant opposition, post-grant opposition, the different grounds of opposition, term of patent, payment and restoration, compulsory licensing, maintainability of secrecy by the Indian Patent law.

The speaker of the session-4, **Ms. Parul Chaturvedi**, discussed about the tips and techniques for evaluating and determining a prior art. The speaker also explained on how to perform a prior art search which requires preparing a search strategy using relevant keywords, preparing queries, and executing the queries on multiple available search databases Various aspects such as classification search, assignee search, inventor search, and keyword search also was clearly discussed.

The speaker of the session, **Dr. Farah Deeba**, insisted on the need for researchers to comply with strict ethical guidelines in preparing dissertations or publications. She also explained in detail about research integrity, management of research data and records and about Intellectual property rights policy.

The speaker of the session, **Shri Lokesh Venkataswamy**, interacted with the audience in an inspiring way by discussing about the art of systematic thinking, a step-by-step method with a complete set of tools, principles, and workflows. He briefed about the role of knowledge and ideas in obtaining new levels of innovation through real life examples and situations.


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