



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

**Academic Year 2023-2024**

### **Index**

<b>Sl. No.</b>	<b>List of Courses</b>
1.	<b>BBT301-Cell Biology Genetics</b>
2.	<b>BBT302-Unit Operations+Lab</b>
3.	<b>BBT303-Biochemistry</b>
4.	<b>BBT304-Microbiology</b>
5.	<b>BBTL305-Microbiology Lab</b>
6.	<b>BBT306-Python Programming</b>
7.	<b>BSCCK307-Social Connect and Responsibility</b>
8.	<b>BBT358-Biolab Management &amp; Risk Assesment</b>
9.	<b>BBT401-Molecular Biology &amp; Genetic Engineering</b>
10.	<b>BBT402 - Biostatistics &amp; Tool + Lab</b>

11.	<b>BBT403-Immunotechnology + Lab</b>
12.	<b>BBTL404-Molecular Biology &amp; Genetic Engineering Lab</b>
13.	<b>BBT405-Bioprocess Principles &amp; Stoichiometry</b>
14.	<b>BBT456-Biopesticides &amp; Biofertilizers</b>
15.	<b>BBOK407-Biology for Engineers</b>
16.	<b>BUHK408 - Universal human values course</b>
17.	<b>BNSK459 - National Service Scheme (NSS)</b>
18.	<b>BPEK459 - Physical Education (PE) (Sports and Athletics)</b>
19.	<b>BYOK459 - Yoga</b>
20.	<b>21BT51-Biokinetics &amp; Bioreaction Engg</b>
21.	<b>21BT52-Immunotechnology +Lab</b>
22.	<b>21BT53-Structural Biology &amp; Analytical Techniques</b>
23.	<b>21BT54-Genomics Proteomics And Bioinformatics</b>
24.	<b>21BTL55-Bioinformatics Lab</b>
25.	<b>21RMI56-Research Methodology &amp; IPR</b>
26.	<b>21CIV57-Environmental Studies</b>

27.	<b>21BT584-Good Manufacturing &amp; Laboratory Practices</b>
28.	<b>21BT61-Biobusiness Management &amp; Entrepreneurship</b>
29.	<b>21BT62-Bioprocess Principles Control &amp; Automation Lab</b>
30.	<b>21BT63-Enzyme Technology</b>
31.	<b>21BT644-Stem Cell Technology</b>
32.	<b>21CIV64-Conservation of Natural Resources</b>
33.	<b>21BTL66-Enzyme Technology Lab</b>
34.	<b>21BTMP67-Mini Project</b>
35.	<b>18BT71-Bioprocess Engineering</b>
36.	<b>18BT72-Clinical &amp; Pharmaceutical Biotechnology</b>
37.	<b>18BT731-Process Equipment &amp; Plant Design</b>
38.	<b>18BT741-Bioethics, Biosafety &amp; IPR</b>
39.	<b>18ME751-Energy &amp; Environment</b>
40.	<b>18BTL76- Bioprocess Engineering Laboratory</b>
41.	<b>18BTP77-Project Phase 1</b>
42.	<b>18BT81-Regulatory Affairs In Biotech Industry</b>

<b>43.</b>	<b>18BT823-Industrial Microbiology</b>
<b>44.</b>	<b>18BTP83-Project work</b>
<b>45.</b>	<b>18BTS84-Seminar</b>
<b>46.</b>	<b>18BTI85-Internship</b>



**Course Name: Biochemistry-BBT303**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	2	-	-	-	-	-	-	-	-	-	-	-
C203.2	-	-	-	2	-	-	-	-	-	-	-	-
C203.3	-	-	-	2	-	-	-	-	-	-	-	-
C203.4	-	-	-		-	-	-	-	-	-	-	-

**Course Name: Microbiology –BBT304**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	-	-	1	2	-	-	-	1	-	-	-	-
C204.2	-	-			2	1	-	-	-	-	-	-
C204.3	-	-	1	2	-	-	1	1	-	-	-	-
C204.4	-	1	-	-	-	-	2	1	-	-	-	1
C204.5	-	1	1	-	-	-	2	1	-	-	-	-

**Course Name: BBTL305 Microbiology Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	-	1	2	-	-	-	1	1	-	-	-	-
C205.2	-	1	-	-	-	-	2	1	-	-	-	1
C205.3	-	1	1	-	-	-	2	1	-	-	-	-

**Course Name: BBTL30 Python Programming**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	2	3	2	1	1	-	-	-	-	-	-	1
C206.2	2	2	2	1	2	-	-	-	-	-	-	1
C206.3	1	2	1	1	-	-	-	-	-	-	-	1
C206.4	1	2	1	1	2	-	-	-	-	-	-	1
C206.5	1	2	2	1	1	-	-	-	-	-	-	1

**Course Name: BSCK307 Social Connect and Responsibility**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	1	-	1	-	-	2	-	-	-	-	1	2
C207.2	1	-	1	-	-	3	-	-	-	-	2	2
C207.3	1	-	1	1	-	1	-	-	-	-	2	2
C207.4	1	-	1	-	-	3	-	-	-	-	2	-

**Course Name: BBT358A Biolab Management & Risk Assessment**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C208.1	1	-	2	-	1	-	-	3	-	-	-	-
C208.1	-	-	1	-	1	2	-	2	-	-	-	-
C208.1	-	1	-	2	-	2	-	3	-	-	-	-
C208.1	-	2	-	-	1	2	-	2	-	-	-	-

**Course Name: BBT401 Molecular Biology & Genetic Engineering**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C209.1	1	-	-	-	-	-	-	-	-	-	-	-
C209.2	1	2	-	-	-	-	-	-	-	-	-	-
C209.3	-	-	-	-	2	2	1	-	-	-	-	-
C209.4	-	-	-	-	3	2	2	-	-	-	-	-

**Course Name: BBT402 Biostatistics Tools & Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C210.1	3	3	3	1	-	1	-	-	-	-	-	1
C210.2	3	2	2	1	-	1	-	-	-	-	-	1
C210.3	3	3	2	1	-	1	-	-	-	-	-	1

**Course Name: BBT403 Immunotechnology + Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	2	-	-	-	-	1	-	-	-	-	-	-
C211.2	1	-	3	-	-	-	2	-	-	-	-	1
C211.3	-	-	1	-	-	2	1	-	-	-	-	1

**Course Name: BBTL404 Molecular Biology & Genetic Engineering Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	-	2	-	-	-	-	-	-	-	-	-	-
C212.2	-	2	-	2	3	-	-	-	-	-	-	-
C212.3	-	-	2	-	-	-	-	-	-	1	-	-

**Course Name: BBT405 Bioprocess Principles & Stoichiometry**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	3	-	2	2	2	2	-	2	-	-	2
C213.2	3	3	-	3	3	-	-	-	2	-	-	2
C213.3	3	3	-	2	2	2	2	-	2	-	-	2
C213.4	3	3	-	3	3	-	-	-	2	-	-	2



**Course Name: BBT456 Biopesticides & Biofertilizers**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	-	1	-	2	-	2	-	3	-	-	-	-
C214.2	-	2	-	-	1	2	-	2	-	-	-	-
C214.3	-	1	-	2	-	2	-	3	-	-	-	-

**Course Name: BBOK407 Biology for Computer Engineers**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	2	1	-	-	-	-	-	-	-	-	-	-
C215.2	1	1	-	-	-	-	-	-	2	-	2	-
C215.3	-	-	-	-	2	-	-	-	-	-	-	-
C215.4	-	-	-	-	-	-	-	-	-	-	-	2

**Course Name: BUHK408 Universal Human Values**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	-	-	-	-	-	3	3	-	2	-	-	1
C216.2	-	-	-	-	-	3	3	-	1	-	-	1
C216.3	-	-	-	-	-	3	3	-	1	-	-	1
C216.4	-	-	-	-	-	3	3	-	2	-	-	1
C216.5	-	-	-	-	-	3	3	-	2	-	-	1

**Course Name: 21BT51 Biokinetics & Bioreaction Engg**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	3	3	2	3	-	-	-	-	-	-	-	2
C301.2	3	3	2	3	-	-	-	-	-	2	-	1
C301.3	3	2	3	3	-	-	-	-	-	-	1	2
C301.4	3	3	2	3	-	-	-	-	-	1	1	2

C301.5	3	1	2	1	-	-	-	-	-	-	-	2
--------	---	---	---	---	---	---	---	---	---	---	---	---

**Course Name: 21BT52 Immunotechnology + Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	2	-	-	-	-	1	-	-	-	-	-	-
C302.2	1	-	3	-	-	-	2	-	-	-	-	1
C302.3	-	-	1	-	-	2	1	-	-	-	-	1

**Course Name: 21BT53 Structural Biology & Analytical Techniques**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	3	-	-	2	-	-	-	-	-	-	-
C304.2	-	3	2	-	2	-	-	-	-	-	-	-
C304.3	2	-	-	-	3	-	-	-	-	-	-	-

**Course Name: 21BTL55 Bioinformatics Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	-	-	-	-	-	-	-	-	-	-	-
C305.2	-	1	-	-	3	-	-	-	-	-	-	-
C305.3	-	-	3	-	2	-	-	-	-	-	-	-

**Course Name: 21RMI56 Research Methodology & IPR**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	2	2	1	2	-	-	-	3	-	1	2	2
C306.2	2	2	1	1	1	-	-	2	-	-	2	1
C306.3	2	2		2	1	1	-	-	-	-	1	1

**Course Name: 21CIV57 Environmental Studies**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	-	-	2	1	-	-	3	-	-	-	-	1
C307.2	-	-	2	1	-	-	3	-	-	-	-	1
C307.3	-	-	2	1	-	-	3	-	-	-	-	1
C307.4	-	-	2	1	-	-	3	-	-	-	-	1

**Course Name: 21BT584 Good Manufacturing & Laboratory Practices**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	-	2	-	-	3	-	-	3	2	-	-	-
C308.2	-		3	2	3	-	-	3	2	-	-	-
C308.3	-	2	-	-	-	-	-	3	1	-	-	-

**Course Name: 21BT61 Biobusiness Management & Entrepreneurship**

C309.1	-	-	-	-	-	1	-	1	3	-	3	3
C309.2	-	3	3	3	-	3	-	3	-	-	3	3
C309.3	-	-	-	-	-	3	-	3	-	-	3	3
C309.4	-	-	-	-	-	2	-	2	2	2	3	3
C309.5	-	-	3	-	-	3	-	2	2	2	3	3

**Course Name: 21BT62 Bioprocess Principles Control & Automation Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310.1	3	-	2	-	2	-	-	-	-	-	-	-
C310.2	3	3	2	-	-	-	-	-	-	-	-	-
C310.3	3	3	2	-	2	-	-	-	-	-	-	-

**Course Name: 21BT63 Enzyme Technology**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	1	1	2	2	-	-	2	-	1	2	-	-
C311.2	1	1	2	2	-	-	2	-	1	2	-	-
C311.3	1	1	2	2	-	3	2	-	1	2	-	3
C311.4	3	3	-	-	2	2	3	-	2	2	-	-
C311.5	3	3	-	-	2	2	3	-	2	2	-	-

**Course Name: 21BT644 Stem Cell Technology**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	2	2	-	-	-	-	-	-	-	-	-	-
C312.2	3	3	2	-	-	-	-	-	-	-	-	-
C312.3	3	3	2	-	-	-	-	-	-	-	-	-

**Course Name: 21CIV64 Conservation of Natural Resources**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	3	3	1	-	-	2	-	-	-	1	1
C313.2	3	3	3	2	-	-	2	-	-	-	2	1
C313.3	3	3	3	3	-	-	2	-	-	-	1	1

**Course Name: 21BTL66 Enzyme Technology Lab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	1	-	-	3	1	2	-	-	-	-	-	-
C314.2	-	1	3	2	-	-	-	1	-	-	-	-

**Course Name: 21BTMP67 Mini Project**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	-	3	-	-	-	-	-	-	-	-	-	-
C315.2	-	2	-	2	-	-	2	-	-	-	-	-
C315.3	-	-	3	-	-	3	-	-	-	-	-	-

**Course Name: 18BT71 Bioprocess Engineering**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	3	3	-	-	-	-	-	-	-	-	-
C401.2	-	-	-	-	-	-	2	-	-	-	-	-
C401.3	-	2	-	2	-	-	-	-	-	-	-	-
C401.4	2	-	-	-	-	2	1	-	-	-	-	-
C401.5	-	2	-	2	-	-	-	-	1	-	-	-

**Course Name: 18BT72 Clinical Pharmaceutical Biotechnology**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	2	-	-	-	2	-	-	-	-	-	-	-
C402.2	2	-	-	-	2	-	-	-	-	-	-	-
C402.3	1	-	-	2	-	-	-	-	-	-	-	-
C402.4	1	-	-	-	-	2	-	-	-	-	-	-
C402.5	2	-	-	-	-	3	-	-	-	-	-	-

**Course Name: 18BT731 Process Equipment and Plant Design**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	-	3	-	-	-	-	-	-	-	-	-
C403.2	3	-	3	-	-	-	-	-	-	-	-	-
C403.3	2	2	1	-	-	-	-	-	-	-	2	-
C403.4	-	2	-	-	-	-	-	-	-	-	2	-
C403.5	-	2	-	-	-	-	-	-	-	-	2	-

**Course Name: 18BT741 Bioethics, Biosafety & IPR**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	-	-	-	-	-	-	2	3	-	-	-	-
C404.2	-	-	2	-	-	-	-	3	-	-	-	-
C404.3	-	-	-	-	-	2	2	3	-	-	-	-
C404.4	-	-	-	-	-	-	2	3	-	-	-	-
C404.5	-	-	-	-	-	-	-	-	2	-	2	-

**Course Name: 18ME751 Energy & Environment**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	-	-	-	2	-	-	2	-	-	-	-	-
C405.2	1	-	-		-	-		-	-	-	2	1
C405.3	-	-	-	1	-	-	3	-	-	-	-	-
C405.4	-	-	-	-	-	2	2	-	-	-	-	2
C405.5	-	-	-	-	-	-	-	2	-	-	-	2

**Course Name: 18BTL76 Bioprocess Engineering Laboratory**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSL76.1	3	3	-	-	-	-	-	-	1	-	-	-
CSL76.2	3	3	-	-	-	-	-	-	1	-	-	-
CSL76.3	3	3	-	-	-	-	-	-	1	-	-	-
CSL76.4	3	3	-	-	-	-	-	-	1	-	-	-

**Course Name: 18BTP77 Project Work Phase-1**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	-	3	-	-	-	-	-	-	-	-	-	-
C407.2	-	2	-	2	-	-	2	-	-	-	-	-
C407.3	-	-	3	-	-	3	-	-	-	-	-	-
C407.4	-	-	3	-	3	-	-	-	-	-	-	-
C407.5	-	-	-	-	-	3	3	2	-	-	-	-

**Course Name: 18BT81 Regulatory Affairs In Biotech Industry**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	-	-	-	-	-	2	-	2	-	2	-	-
C408.2	-	-	-	-	-	2	-	2	-	2	-	-
C408.3	-	-	-	-	-	-	2	2	-	-	1	1
C408.4	-	-	-	-	-	-	-	-	2	-	2	-
C408.5	-	-	-	-	-	-	-	-	2	-	2	-

**Course Name: 18BT823 Industrial Microbiology**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C409.1	2	-	-	-	-	-	2	-	-	-	-	-
C409.2	2	-	-	-	3	-	-	-	-	-	-	-
C409.3	-	-	-	-	-	2	3	-	-	-	-	-
C409.4	1	-	-	-	-	2	-	-	-	1	-	-
C409.5	-	-	-	-	-	2	3	-	-	-	-	-

**Course Name: 18BTP83 Project Phase-2**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	-	3	-	-	-	-	-	-	-	-	-	-
C411.2	-	2	-	2	-	-	-	-	-	-	-	-
C411.3	-	-	3	-	-	3	-	-	-	-	-	-
C411.4	-	-	3	-	3	-	-	-	-	-	-	-
C411.5	-	-	-	-	-	3	-	-	-	-	-	-



**Course Name: 18BTS84 Technical Seminar**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	-	2	2	-	2	-	1	-	2	-	-	-
C412.2	-	2	-	1	-	-	1	-	-	-	-	-
C412.3	-	-	-	-	-	-	-	-	-	2	-	-
C412.4	-	-	-	-	-	-	-	-	-	2	-	-
C412.5	-	2	-	-	-	-	-	-	-	-	-	-

**Course Name: 18BT185 Internship**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	-	3	-	-	-	-	-	-	-	-	-	-
C410.2	-	2	-	2	-	-	2	-	-	-	-	-
C410.3	-	-	3	-	-	3	-	-	-	-	-	-
C410.4	-	-	3	-	3	-	-	-	-	-	-	-
C410.5	-	-	-	-	-	3	3	2	-	-	-	-

---



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Academic Year 2023-2024 Index**

<b>Sl. No.</b>	<b>List of Courses</b>
<b>1.</b>	<b>BCS301-Mathematics for Computer Science</b>
<b>2.</b>	<b>BCS302-Digital Design &amp; Computer Organization</b>
<b>3.</b>	<b>BCS303-Operating Systems</b>
<b>4.</b>	<b>BCS304-Data Structures and Applications</b>
<b>5.</b>	<b>BCSL305-Data Structures Lab</b>
<b>6.</b>	<b>BCK307-Social Connect and Responsibility</b>
<b>7.</b>	<b>BCS358A-Data Analytics with Excel</b>
<b>8.</b>	<b>BCS306B-Object Oriented Programming with C++</b>
<b>9.</b>	<b>BCS401-Analysis &amp; Design of Algorithms</b>
<b>10.</b>	<b>BCS402-Microcontrollers</b>

<b>11.</b>	<b>BCS403-DatabaseManagementSystems</b>
<b>12.</b>	<b>BCSL404-Analysis&amp;DesignofAlgorithmsLab</b>
<b>13.</b>	<b>BCS405A-DiscreteMathematicalStructures</b>
<b>14.</b>	<b>BCSL456D-TechnicalWritingusingLATEX</b>
<b>15.</b>	<b>BSCBBOC407-BiologyforComputerEngineers</b>
<b>16.</b>	<b>BUHK408-Universalhumanvaluescourse</b>
<b>17.</b>	<b>BNSK459-NationalServiceScheme(NSS)</b>
<b>18.</b>	<b>BPEK459-PhysicalEducation(PE)(SportsandAthletics)</b>
<b>19.</b>	<b>BYOK459-Yoga</b>
<b>20.</b>	<b>BSC21CS51-AutomataTheoryandcompilerDesign</b>
<b>21.</b>	<b>IPCC21CS52-ComputerNetworks</b>
<b>22.</b>	<b>PCC21CS53-DatabaseManagementSystems</b>
<b>23.</b>	<b>PCC21CS54-ArtificialIntelligenceandMachineLearning</b>
<b>24.</b>	<b>PCC21CSL55-DatabaseManagementSystemsLaboratorywithMiniProject</b>
<b>25.</b>	<b>AEC21XX56-ResearchMethodology&amp;IntellectualPropertyRights</b>
<b>26.</b>	<b>HSMC21CIV57-EnvironmentalStudies</b>

<b>27.</b>	<b>21CSL581-AngularJSandNodeJS</b>
<b>28.</b>	<b>21CS61-SoftwareEngineering&amp;ProjectManagement</b>
<b>29.</b>	<b>21CS62-FullstackDevelopment</b>
<b>30.</b>	<b>21CS63-ComputerGraphicsandFundamentalsoffImageProcessing</b>
<b>31.</b>	<b>21CS644-DatascienceandVisualization</b>
<b>32.</b>	<b>OEC2RI652-SoftwareOrientedArchitecture(SOA)</b>
<b>33.</b>	<b>21CSL66-ComputerGraphicsandImageProcessingLaboratory</b>
<b>34.</b>	<b>MP21CSMP67-MiniProject</b>
<b>35.</b>	<b>INT21INT68-Innovation/Entrepreneurship/SocietalInternship</b>
<b>36.</b>	<b>18CS71-ArtificialIntelligence&amp;MachineLearning</b>
<b>37.</b>	<b>18CS72-BigDataAnalytics</b>
<b>38.</b>	<b>18CS734-UserInterfaceDesign</b>
<b>39.</b>	<b>18CS744-Cryptography</b>
<b>40.</b>	<b>18EE753-DisasterManagement</b>
<b>41.</b>	<b>18CSL76-ArtificialIntelligenceandMachineLearningLaboratory</b>
<b>42.</b>	<b>18CSP77-ProjectWorkPhase-1</b>

<b>43.</b>	<b>18CS81-InternetofThing</b>
<b>44.</b>	<b>18CS822-StorageAreaNetwork</b>
<b>45.</b>	<b>18CSP83-ProjectPhase-2</b>
<b>46.</b>	<b>18CSS84-TechnicalSeminar</b>
<b>47.</b>	<b>18CS185-Internship</b>

**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi&Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24&Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)



**CO-POMAPPING**

**Academic year 2023-24**

**Course Name: BCS301-Mathematics for Computer Science**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	3	3	1	1	1	-	-	-	-	-	-	-
C301.2	3	2	2	1	2	-	-	-	-	-	-	-
C301.3	3	2	2	1	2	-	-	-	-	-	-	-
C301.4	3	2	1	1	2	-	-	-	-	-	-	-
C301.5	3	2	1	1	1	-	-	-	-	-	-	-
C301.6	3	2	1	1	2	-	-	-	-	-	-	-

**Course Name: BCS302-Digital Design & Computer Organization**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	-	-	-	-	-	-	-	-	-	1	1	1
C302.2	-	-	-	-	-	2	-	-	1	1	1	-
C302.3	1	-	-	-	-	-	-	-	-	-	1	1
C302.4	1	-	-	-	-	-	-	-	-	-	1	1
C302.5	1	-	-	-	-	-	2	-	-	1	1	2







**CourseName:BCS401Analysis&DesignofAlgorithms**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS401.1	3	3	3	2	-	-	-	-	-	-	-	1
CS401.2	3	3	3	3	-	-	-	-	-	-	-	1
CS401.3	3	3	3	2	-	-	-	-	-	-	-	1
CS401.4	3	3	3	2	-	-	-	-	-	-	-	1
CS401.5	3	3	3	3	-	-	-	-	-	-	-	1
CS401.6	3	3	3	3	-	-	-	-	-	-	-	1

**CourseName:BCS402Microcontrollers**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS402.1	2	2	-	-	-	-	-	-	-	-	-	1
CS402.2	2	1	-	-	-	-	-	-	-	-	-	2
CS402.3	2	1	-	-	-	-	-	-	-	-	-	2
CS402.4	1	2	-	-	-	-	-	-	-	-	-	1
CS402.5	2	1	-	-	-	-	-	-	-	-	-	2

**CourseName:BCS403DatabaseManagementSystems**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS403.1	2	1	1	-	-	-	-	-	-	-	-	3
CS403.2	3	2	2	1	-	-	-	-	-	-	-	-
CS403.3	2	1	2	1	3	-	-	-	-	-	-	1
CS403.4	3	2	-	-	-	-	-	-	-	-	-	-
CS403.5	2	2	2	1	1	-	-	-	-	-	-	3
CS403.6	2	2	2	2	1	1	-	-	-	-	-	2

**CourseName:BCSL404Analysis&DesignofAlgorithmsLab**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSL404.1	3	3	3	2	-	-	-	-	-	-	-	1
CSL404.2	3	3	3	3	-	-	-	-	-	-	-	1
CSL404.3	3	3	3	2	-	-	-	-	-	-	-	1
CSL404.4	3	3	3	2	-	-	-	-	-	-	-	1
CSL404.5	3	3	3	3	-	-	-	-	-	-	-	1

**CourseName:BCS405ADiscreteMathematicalStructures**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS405A.1	3	3	3	1	2	-	-	-	-	-	-	2
CS405A.2	3	3	1	1	1	-	-	-	-	-	-	2
CS405A.3	3	-	2	1	1	-	-	-	-	-	-	2
CS405A.4	3	3	1	2	1	-	-	-	-	-	-	2
CS405A.5	3	2	2	2	1	-	-	-	-	-	-	2

**CourseName:BCSL456DTechnicalWritingusingLATEX**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSL456D.1	1	-	-	-	1	-	-	-	-	-	-	1
CSL456D.2	1	-	-	-	-	-	-	-	-	-	-	1
CSL456D.3	1	-	2	-	-	-	-	-	-	-	-	1
CSL456D.4	1	-	-	-	-	-	1	-	-	-	-	1
CSL456D.5	1	-	-	-	-	-	1	-	-	-	-	1

**CourseName:BSCBBOC407BiologyForComputerEngineers**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	2	1	-	-	-	-	-	-	-	-	-	-
C407.2	1	1	-	-	-	-	-	-	2	-	2	-
C407.3	-	-	-	-	-	-	-	-	-	-	-	-
C407.4	-	-	-	-	2	-	-	-	-	-	-	-

**CourseName:BUHK408Universalhumanvaluescourse**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	-	-	-	-	-	3	3	-	2	-	-	1
C408.2	-	-	-	-	-	3	3	-	1	-	-	1
C408.3	-	-	-	-	-	3	3	-	1	-	-	1
C408.4	-	-	-	-	-	3	3	-	2	-	-	1
C408.5	-	-	-	-	-	3	3	-	2	-	-	1

**CourseName:BSC21CS51AutomataTheoryandcompilerDesign**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS51.1	3	2	1	1	-	-	-	-	1	-	-	1
CS51.2	3	3	3	2	-	-	-	-	1	-	-	1
CS51.3	3	3	2	2	-	-	-	-	1	-	-	1
CS51.4	3	2	3	3	-	-	-	-	1	-	-	1
CS51.5	3	2	3	3	-	-	-	-	1	-	-	1

**CourseName:21CS52ComputerNetworks**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS52.1	1	1	-	-	-	-	-	-	2	-	1	1
CS52.2	1	1	-	-	-	-	-	-	2	-	2	1
CS52.3	1	2	-	-	-	-	-	-	2	-	1	1
CS52.4	1	1	-	-	-	-	-	-	2	-	1	1
CS52.5	1	1	-	-	-	-	-	-	2	-	1	1

**CourseName:21CS53DatabaseManagementSystems**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS53.1	3	2	1	-	-	-	-	-	-	-	-	2
CS53.2	2	1	2	1	3	-	-	-	-	-	-	1
CS53.3	2	1	2	1	2	-	-	-	-	-	-	1
CS53.4	2	3	-		1	-	-	-	-	-	-	2
CS53.5	1	1	2	1	-	-	-	-	-	-	-	1

**CourseName:21CS54ArtificialIntelligenceandMachineLearning**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS54.1	1	2	2	2	2	2	2	1	2	2	2	2
CS54.2	2	2	3	1	3	3	2	3	1	2	3	3
CS54.3	3	1	1	3	2	3	1	3	1	3	2	3
CS54.4	2	1	3	3	3	2	3	3	3	1	2	3
CS54.5	3	2	2	2	3	3	1	2	3	3	1	1

**CourseName:PCC21CSL55DatabaseManagementSystemsLaboratorywithMiniProject**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSL55.1	1	1	1	-	-	-	-	-	-	1	-	-
CSL55.2	2	-	1	-	2	-	-	-	-	-	-	2
CSL55.3	2	-	1	-	-	-	-	-	-	-	1	-

**CourseName:AEC21RMI56ResearchMethodology&IntellectualPropertyRights**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
RMI56.1	3	3	3	2	1	-	-	1	-	1	3	3
RMI56.2	3	3	1	2	1	-	-	1	-	1	2	3
RMI56.3	3	2	1	2	1	-	-	1	-	1	1	3
RMI56.4	3	2	1	2	1	-	-	1	-	1	1	3
RMI56.5	3	2	1	2	1	-	-	1	-	1	1	3

**CourseName:HSMC21CIV57EnvironmentalStudies**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CIV57.1	2	-	-	-	-	-	3	-	-	-	-	-
CIV57.2	2	-	-	-	-	-	3	-	-	-	-	-
CIV57.3	2	-	2	-	-	2	3	-	-	-	-	-
CIV57.4	2	2	-	-	-	2	3	-	-	-	-	-
CIV57.5	2	-	-	-	-	2	3	-	-	-	-	-

**CourseName:21CSL581AngularJSandNodeJS**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------

C581.1	2	2	3	3	3	-	-	-	-	1	3	2
C581.2	2	2	3	3	3	-	-	-	-	1	1	2
C581.3	2	2	3	3	3	-	-	-	-	1	1	2
C581.4	2	2	3	3	3	-	-	-	-	1	1	2
C581.5	2	2	3	3	3	-	-	-	-	1	1	2

**CourseName:21CS61SoftwareEngineering&ProjectManagement**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS61.1	3	3	2	2	2	2	-	-	-	2	-	1
CS61.2	2	2	2	-	2	1	-	-	-	2	-	1
CS61.3	2	-	2	-	2	1	-	-	-	2	-	1
CS61.4	2	2	2	-	2	1	-	-	1	2	-	1
CS61.5	2	1	2	1	2	1	-	-	2	2	-	1

**CourseName:21CS62FullstackDevelopment**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS62.1	2	2	1	1	3	-	-	-	1	-	-	-
CS62.2	2	2	1	1	3	-	-	-	1	-	-	-
CS62.3	2	2	3	1	3	-	-	-	1	-	-	-
CS62.4	2	2	3	1	3	-	-	-	1	-	-	-
CS62.5	2	2	3	1	3	-	-	-	1	-	-	-

**CourseName:21CS63ComputerGraphicsandFundamentalsofImageProcessing**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------









**CourseName:18EE753DisasterManagement**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
EE753.1	2	3	-	-	-	-	-	-	-	-	-	-
EE753.2	2	3	-	2	2	-	-	-	-	-	-	-
EE753.3	2	2	3	2	-	-	-	-	-	-	-	-
EE753.4	2	3	3	3	-	-	-	-	-	-	-	-
EE753.5	-	3	3	3	-	-	-	-	-	-	-	2

**CourseName:18CSL76ArtificialIntelligenceAndMachineLearningLaboratory**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSL76.1	3	3	-	-	-	-	-	-	1	-	-	-
CSL76.2	3	3	-	-	-	-	-	-	1	-	-	-
CSL76.3	3	3	-	-	-	-	-	-	1	-	-	-
CSL76.4	3	3	-	-	-	-	-	-	1	-	-	-

**CourseName:18CSP77ProjectWorkPhase-1**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSP77.1	3	3	1	1	-	-	-	-	-	-	-	-
CSP77.2	3	3	3	3	1	-	3	3	3	-	-	-
CSP77.3	3	3	3	1	-	1	1	3	3	1	3	-
CSP77.4	3	1	3	1	-	-	-	-	-	1	-	-

**CourseName:18CS81InternetOfThing**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS81.1	2	-	2	-	-	-	-	-	-	-	2	2
CS81.2	3	2	3	2	3	-	-	-	-	-	2	3
CS81.3	2	2	2	2		-	-	-	-	-	2	3
CS81.4	2	2	3	2	2	-	-	-	-	-	2	2
CS81.5	2	1	3	2	1	-	-	-	-	-	1	1

**CourseName:18CS822StorageAreaNetwork**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS822.1	1	-	-	-	1	-	-	-	-	-	-	1
CS822.2	1	-	-	-	-	-	-	-	-	-	-	1
CS822.3	1	-	2	-	-	-	-	-	-	-	-	1
CS822.4	1	-	-	-	-	-	1	-	-	-	-	1

**CourseName:18CSP83ProjectPhase-2**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSP83.1	3	3	1	1	-	-	-	-	-	-	-	-
CSP83.2	3	3	3	2	3	1	2		3	3	2	3
CSP83.3	3	3	3	1	-	1	1	3	2	3	1	3
CSP83.4	3	1	3	2	1	-	-	-	-	-	1	2

**CourseName:18CSS84TechnicalSeminar**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSS84.1	2	3	-	-	-	-	-	-	-	1	-	2
CSS84.2	2	3	-	1	2	-	-	-	-	-	-	2
CSS84.3	2	2	-	-	2	-	-	-	-	2	-	2
CSS84.4	2	-	-	-	-	-	-	-	-	2	-	2
CSS84.5	2	-	-	-	-	-	-	-	-		-	2

**CourseName:18CS185Internship**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSI85.1	2	2	2	-	-	1	-	-	-	-	-	1
CSI85.2	2	2	2	-	-	1	-	1	2	1	1	1
CSI85.3	2	2	2	-	2	1	-	-	-	-	-	1
CSI85.4	1	-	-	-	-	1	-	1	-	-	-	1

---



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### CO-PO MAPPING Academic Year 2023-24 Index

Sl. No.	List of Courses
1.	BCIV203- Engineering Mechanics
2.	BCV301 - Strength of Materials
3.	BCV302 - Engineering Survey
4.	BCV303- Engineering Geology
5.	BCV304 - Water Supply and Waste water Engineering
6.	BCV305 - Computer Aided Building Planning & Drawing
7.	BCV401 - Analysis Of structure
8.	BCV402- Fluid Mechanics & Hydraulics
9.	BCV403 - Transportation Engg
10.	BCVL404 – Building Materials Testing Lab
11.	21CV51– Hydrology and Water Resources Engineering
12.	21CV52 – Transportation Engg
13.	21CV53 – Design of RC Structural Elements
14.	21CV54– Geotechnical Engineering
15.	21CV55– Geotechnical Engineering Lab
16.	21CV61 – Construction Management & Entrepreneurship
17.	21CV62– Concrete Technology
18.	21CV63 – Design of RC Structural Elements
19.	21CV642 – Alternative Building Material
20.	21CV654 - Conventional Energy Sources
21.	21CVL66 – - Computer Aided Detailing of Structures
22.	18CV71 - Quantity Surveying and Contracts Management
23.	18CV72 - Design of RCC and Steel Structures
24.	18CV73 – Ground Water & Hydraulics
25.	18CV745 – Urban Transportation and Planning
26.	18CVL76 - Computer Aided Detailing of Structures
27.	18CVL77 - Geotechnical Engineering Laboratory
28.	18CVP78 - Project Work

CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)



29.	18CV81 – Design Of Pre- Structure
30.	18CV824 - Rehabilitation & Retrofitting
31.	18CVP83 - Project Work
32.	18CVS84 - Seminar
33.	18CVI85 - Internship

**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi &amp; Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 &amp; Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)**CO-PO MAPPING****ACADEMIC YEAR 2023-24****Course Name: C113 ( BCIV203/ Engineering Mechanics)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113.1	2	3	-	-	-	-	-	-	-	-	-	-
C113.2	2	3	-	-	-	-	-	-	-	-	-	-
C113.3	2	3	-	-	-	-	-	-	-	-	-	-
C113.4	2	3	-	-	-	-	-	-	-	-	-	-
C113.5	2	3	-	-	-	-	-	-	-	-	-	-

**Course Name: BCV301 - Strength of Materials**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2301.1	3	3	2	-	-	-	-	-	-	1	-	-
C2301.2	3	3	3	2	2	-	-	-	2	1	-	-
C2301.3	3	3	3	-	-	-	-	-	-	1	-	-
C2301.4	3	3	3	-	-	-	-	-	-	1	-	-
C2301.5	3	3	1	-	3	-	2	-	-	1	-	3

**Course Name: BCV302 - Engineering Survey)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2302.1	3	2	3	-	3	-	-	-	-	1	-	-
C2302.2	3	2	3	-	3	-	-	-	-	2	-	-
C2302.3	3	2	3	-	3	-	-	-	-	2	-	-
C2302.4	3	2	3	-	3	-	-	-	-	2	-	-
C2302.5	3	2	3	-	3	-	-	-	-	2	-	-

**Course Name: (CBCV303 –Engineering Geology)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2303.1	3	3	2	-	-	3	-	-	-	1	2	2
C2303.2	3	3	3	-	3	-	-	-	-	1	2	2
C2303.3	3	3	2	3	-	-	-	-	-	2	2	2
C2303.4	3	3	2	-	-	-	-	-	-	1	2	2
C2303.5	3	3	-	2	-	-	3	2	-	3	2	2

**Course Name (BCV304- Water Supply and Waste water Engineering )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2304.1	3	3	-	2	-	-	-	2	3	3	-	-
C2304.2	2	3	-	2	-	-	-	2	2	2	-	-
C2304.3	2	3	-	1	-	-	-	2	2	2	-	-

**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi &amp; Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 &amp; Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)**Course Name: (BCV305- Computer Aided Building Planning & Drawing)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2305.1	3	2	-	-	-	-	-	-	-	-	-	-
C2305.2	3	2	-	-	-	-	-	-	-	-	-	-
C2305.3	3	3	-	-	-	-	-	-	-	-	-	-

**Course Name: ( BCV401– Analysis Of structure )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2401.1	3	3	3	-	-	-	1	-	1	-	-	-
C2401.2	3	3	3	-	-	-	1	-	1	-	1	-
C2401.3	3	3	3	-	-	-	1	-	-	-	1	-
C2401.4	3	-	2	-	-	-	1	-	-	-	1	-
C2401.5	3	3	3	-	-	-	1	-	-	-	1	-

**Course Name: (BCV402 Fluid Mechanics & Hydraulics )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2402.1	3	3	2									
C2402.2	3	3	2									
C2402.3	3	3	2									
C2402.4	3	3	2									
C2402.5	3	3	2									

**Course Name: (BCV403– Transportation Engg )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2403.1	-	1	3	2	2	-	-	2	-	-	-	-
C2403.2	3	3	2	1	-	-	-	-	-	3	-	-
C2403.3	-	-	3	-	2	1	2	-	3	2	-	-
C2403.4	3	2	1	3	-	-	-	-	3	1	-	-

**Course Name: (BCVL404 – Building Materials Testing Lab)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2404.1	3	3	-	-	-	-	-	-	-	-	-	-
C2404.2	2	3	2	-	2	-	-	-	-	-	-	-
C2404.3	3	3	3	-	-	-	-	3	-	-	-	-

**Course Name: BCV401– Analysis Of structure**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2401.1	2	2	-	-	2	-	-	3	2	3	-	-
C2401.2	2	2	2	-	3	-	-	3	2	3	-	-
C2401.3	2	2	-	3	-	-	3	2	3	-	-	-
C2401.4	-	2	-	-	3	-	-	3	3	3	-	-
C2401.5	-	-	-	3	3	2	-	-	-	-	-	-



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi &amp; Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 &amp; Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)**Course Name: (BCV402 Fluid Mechanics & Hydraulics)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2402.1	2	1	2	-	1	-	-	-	-	2	-	-
C2402.2	1	2	2	-	2	-	-	-	-	1	-	-
C2402.3	2	1	1	-	3	-	-	-	-	2	-	-
C2402.4	2	2	1	-	3	-	-	-	-	3	-	-

**Course Name: BCV403– Transportation Engg**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2403.1	3	2	3	1	1		1	-	-	-	-	-
C2403.2	3	3	2	-	-	-	-	-	-	-	-	-
C2403.3	2	3	3	-	-	-	-	-	-	-	-	-
C2403.4	3	3	3	-	-	-	-	-	-	-	-	-
C2403.5	3	2	3	-	1		1	-	-	-	-	-

**Course Name: (BCVL404 – Building Materials Testing Lab)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C2404.1	2	1	-	-	2	-	-	-	1	2	-	-
C2404.2	-	2	-	-	2	-	-	-	-	-	-	-
C2404.3	2	-	-	-	-	-	-	-	-	-	-	-

**Course Name: (21CV51- Hydrology and Water Resources Engineering)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C351.1	2	3	-	2	-	-	-	2	1	3	-	-
C351.2	3	2	-	1	-	-	-	2	2	3	-	-
C351.3	2	3		2	-	-	-	2	2	3	-	-
C351.4	3	2	-	2	-	-	-	2	3	2	-	-
C351.5	2	3	-	2	-	-	-	2	3	2	-	-

**Course Name: 21CV52– Transportation Engg**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C352.1	2	3	-	-	-	-	-	-	-	-	2	2
C352.2	2	3		-	-	-	-	3	-	-	2	2
C352.3	2	-	-	-	-	-	-	3	-	-	2	2
C352.4	2	-	-	-	-	-	-	-	-	-	1	2

**Course Name: 21CV53 - Design of RC Structural Elements**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C353.1	2	3	-	-	-	-	-	-	-	-	-	2
C353.2	2	-		-	-	-	2	-	-	-	-	2
C353.3	2	3	2	-	-	-	-	-	-	-	-	2
C353.4	2	-	-	-	-	-	2	-	-	-	-	2
C353.5	2	-	-	-	2	-	-	-	-	-	-	2

**Course Name 21CV54 - Geotechnical Engineering**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------

**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)



<b>C354.1</b>	3	3	2	-	-	-	-	-	-	-	-	-
<b>C354.2</b>	3	3	2	-	-	-	-	-	-	-	-	-
<b>C354.3</b>	3	3	2	-	-	-	-	-	-	-	-	-
<b>C354.4</b>	3	3	2	-	-	-	-	-	-	-	-	-
<b>C354.5</b>	3	3	2	-	-	-	-	-	-	-	-	-

**Course Name: (21CV55 - Geotechnical Engineering Lab**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C355.1</b>	3	3	3	-	3	-	-	-	-	3	-	3
<b>C355.2</b>	3	3	2	-	-	-	-	-	-	-	-	-
<b>C355.3</b>	3	2	2	-	-	-	-	-	-	-	-	-
<b>C355.4</b>	3	3	3	-	-	-	-	-	-	2	-	3
<b>C355.5</b>	3	3	3	2	3	-	-	-	-	-	-	-

**Course Name: 21CV61– Construction Management & Entrepreneurship**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>1</b>	2	1	-	1	-	-	1	-	-	-	-	-
<b>C361.2</b>	3	3	-	2	-	-	1	-	-	-	-	-
<b>C361.3</b>	3	2	-	2	-	-	1	-	-	-	-	-
<b>C361.4</b>	3	3	-	3	-	-	1	-	-	-	-	-
<b>C361.5</b>	3	3	-	2	-	-	1	-	-	-	-	-

**Course Name: Course Name: 21CV62 – Concrete Technology**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C362.1</b>	3	1	-	-	1	2	2	-	1	2	-	-
<b>C362.2</b>	3	2	-	-	3	2	1	-	1	2	-	-
<b>C362.3</b>	2	1	-	-	1	1	1	-	1	2	-	-

**Course Name 21CV63 – Design of RC Structural Elements)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C363.1</b>	3	2	2	-	-	1	2	-	-	-	-	-
<b>C363.2</b>	1	2	3	2	1	-	-	-	-	-	-	-
<b>C363.3</b>	-	-	3	2	1	3	3	-	-	-	-	-
<b>C363.4</b>	2	-	2	-	2	1	3	-	-	-	-	-
<b>C363.5</b>	-	-	2	3	-	2	2	-	-	-	-	-

**Course Name: C21V642– Alternative Building Materials)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C364.1</b>	2	2	-	-	2	-	-	3	2	3	-	-
<b>C364.2</b>	2	2	2	-	3	-	-	3	2	3	-	-
<b>C364.3</b>	2	2	-	3	-	-	3	2	3	2	-	-

**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi &amp; Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 &amp; Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)**Course Name: 21CV654 Conventional Energy Sources)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C365.1	3	3	-	-	-	-	1	-	-	-	2	1
C365.2	3	3	-	-	-	-	1	-	-	-	2	1
C365.3	2	3	-	-	-	-	1	-	-	-	2	1
C365.4	3	3	-	-	-	-	1	-	-	-	2	1

**Course Name: 21CVL66 - Computer Aided Detailing of Structures )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C366.1	3	3	1	3	2	-	-	-	2	2	-	-
C366.2	3	3	1	3	2	-	-	-	2	2	-	-
C366.3	3	2	2	2	2	-	-	-	2	2	-	-

**Course Name: C471 (18CV71 - Quantity Surveying and Contracts Management**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C471.1	3	3	-	-	3	-	-	-	-	2	-	2
C471.2	3	3	1	-	3	-	-	-	-	2	-	3
C471.3	3	2	1	-	2	-	-	-	-	1	-	2
C471.4	2	2	1	-	3	-	-	-	-	2	-	3
C471.5	3	3	-	-	3	-	-	-	-	2	-	3

**Course Name: C472 (18CV72 - Design of RCC and Steel Structures**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C472.1	3	3	2	-	-	-	-	3	-	-	-	-
C472.2	3	3	2	-	-	-	-	3	-	-	-	-
C472.3	3	3	2	-	-	-	-	3	-	-	-	-
C472.4	3	3	2	-	-	-	-	3	-	-	-	-
C472.5	3	3	2	-	-	-	-	3	-	-	-	-

**Course Name: C473 (18CV734– Ground water Hydraulics Engg**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C473.1	3	3	3	-	-	-	-	-	-	-	-	3
C473.2	3	3	3	-	-	-	-	-	-	-	-	-
C473.3	3	3	3	-	-	-	-	-	-	-	-	-
C473.4	3	3	3	3	-	-	2	-	-	-	-	3
C473.5	3	3	3	2	-	-	3	-	3	-	-	3

**Course Name: C475 (18CV745) - Urban Transportation and Planning**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C474.1	3	3	3	-	-	-	-	-	1	1	1	-
C474.2	3	3	3	-	-	-	-	-	1	1	1	-

CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

C474.3	3	3	3	-	-	-	-	-	1	1	1	-
C474.4	2	2	2	-	-	-	-	-	1	1	1	-
C474.5	2	1	1						1	1	1	

**Course Name: C476 (18CVL76 Computer Aided Detailing of Structures )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C476.1	3	2	-	-	3	-	-	-	-	-	-	-
C476.2	3	2	-	-	3	-	-	-	-	-	-	-
C476.3	3	2	-	-	3	-	-	-	-	-	-	-

**Course Name: C477 (18CVL77 Geotechnical Engineering Laboratory )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C477.1	3	-	-	-	-	-	-	-	-	-	-	-
C477.2	2	3	-	-	-	-	-	2	3	3	-	-
C477.3	1	-	3	3	-	-	-	2	3	2	-	-
C477.4	1	3	3	-	-	-	-	2	3	3	-	-
C477.5	1	3	-	-	-	-	-	2	3	2	-	-

**Course Name: C478 (18CVP78 - Project Work**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C478.1	3	3	3	-	3	3	-	3	3	2	-	-
C478.2	3	3	3	1	3	3	1	3	3	2	-	-
C478.3	3	3	2	1	2	2	-	3	2	2	-	-
C478.4	2	2	2	1	3	3	1	2	2	2	-	-
C478.5	2	2	2	2	2	-	-	-	2	2	-	-

**Course Name: C481 (18CV81 -**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C481.1	3	3	3	-	-	-	-	-	-	-	-	-
C481.2	3	3	3	-	-	-	-	-	-	-	-	-
C481.3	3	3	3	-	-	-	-	-	-	-	-	-
C481.4	3	3	3	-	-	-	-	-	-	-	-	-
C481.5	3	3	3	-	-	-	-	-	-	-	-	-

**Course Name: C482 (18CV82 - Design of Pre-Stressed Concrete Elements**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C482.1	3	3	3	-	-	-	-	-	-	-	-	3
C482.2	3	3	3	-	-	-	-	-	-	-	-	-
C482.3	3	3	3	-	-	-	-	-	-	-	-	-
C482.4	3	3	3	3	-	-	2	-	-	-	-	3
C482.5	3	3	3	2	-	-	3	-	3	-	-	3

**Course Name: C483 (18CV83 Project Work )**

**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi &amp; Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 &amp; Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C483.1	3	3	3	-	3	3	-	3	3	2	-	-
C483.2	3	3	3	1	3	3	1	3	3	2	-	-
C483.3	3	3	2	1	2	2	-	3	2	2	-	-
C483.4	2	2	2	1	3	3	1	2	2	2	-	-
C483.5	2	2	2	2	2	-	-	-	2	2	-	-
C483.6	3	3	3	-	3	3	-	3	3	2	-	-

**Course Name: C484 (18CVS84 Seminar )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C484.1	3	3	-	3	3	-	1	-	-	2	2	2
C484.2	3	3	1	3	3	1	2	-	2	2	2	3
C484.3	3	2	1	2	2	-	2	1	-	1	1	2
C484.4	2	2	1	3	3	1	3	-	2	2	2	3
C484.5	3	3	-	2	3	-	3	1	-	2	2	3
C484.6	3	3	-	2	3	-	1	1	-	1	1	2

**Course Name: C485 (18CVI85–Internship )**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C485.1	3	3	-	3	3	-	1	-	-	2	2	2
C485.2	3	3	1	3	3	1	2	-	2	2	2	3
C485.3	3	2	1	2	2	-	2	1	-	1	1	2
C485.4	2	2	1	3	3	1	3	-	2	2	2	3
C485.5	3	3	-	2	3	-	3	1	-	2	2	3
C485.6	3	3	-	2	3	-	1	1	-	1	1	2



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### CO-PO MAPPING

Academic Year 2023-2024

#### Index

Sl. No.	List of Courses
1.	Network Theory-18EC32
2.	Electronic Devices-18EC33
3.	Digital System Design -18EC34
4.	Computer organization-18EC35
5.	Power Electronics and Instrumentation-18EC36
6.	Analog Electronics Lab-18ECL37
7.	Digital Electronics Lab-18ECL38
8.	Analog Circuits-18EC42
9.	Control Systems-18EC43
10.	Signals and systems-18EC45
11.	Microcontrollers-18EC46
12.	Microcontroller lab-18ECL47
13.	Analog circuits Lab-18ECL48
14.	Management & Entrepreneurship-18ES51
15.	Digital Signal Processing -18EC52
16.	Principles of communication -18EC53
17.	Information Theory & Coding -18EC54
18.	Electromagnetic waves-18EC55
19.	Verilog HDL-18EC56
20.	DSP Lab-18ECL57
21.	HDL Lab-18ECL58
22.	Digital Communication-18EC61
23.	Embedded Systems-18EC62
24.	Microwave and Antennas-18EC63
25.	Python Applications and Programming-18EC646
26.	Operating systems-18CS654
27.	Embedded Lab-18ECL66
28.	CCN Lab-18ECL67
29.	18ECMP68 – Mini Project
30.	Computer Networks (C401)-18EC71
31.	VLSI Design (C402)-18EC72
32.	Satellite Communication (C403)-18EC73



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

33.	<b>Machine Learning with Python (C404)-18EC745</b>
34.	<b>BMSP(C405)-18MT751</b>
35.	<b>(Advanced Communication Lab)-18ECL76</b>
36.	<b>VLSI Lab-18ECL77</b>
37.	<b>Project Work-18ECP78</b>
38.	<b>Wireless and cellular Communication (C411)-18EC81</b>
39.	<b>Network Security (C412)-18EC821</b>
40.	<b>Radar Engineering (C413)-18EC823</b>
41.	<b>Internship-18ECI84</b>
42.	<b>Project Work-18ECP85</b>
43.	<b>Seminar -18ECS86</b>









CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C212 (Analog Circuits) 18EC42

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	1	1	2	-	-	-	-	-	-	-	-
C212.2	3	2	2	-	-	-	-	-	-	-	-	-
C212.3	3	3	2	2	-	-	-	-	-	-	-	-
C212.4	2	2	3	3	-	-	-	-	-	-	-	-
C212.5	2	2	2	3	-	-	-	-	-	-	-	-
C212.6	3	2	2	3	-	-	-	-	-	-	-	-

### Course Name: C213 (Control Systems-18EC43)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	3	2	2	-	-	-	-	-	-	-	-
C213.2	2	3	2	1	-	-	-	-	-	-	-	-
C213.3	2	2	3	2	-	-	-	-	-	-	-	-
C213.4	2	2	1	2	-	-	-	-	-	-	-	-
C213.5	2	2	2	3	-	-	-	-	-	-	-	-
C213.6	2	2	3	2	-	-	-	-	-	-	-	-

### Course Name: C215 (Signals and Systems-18EC45)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	3	-	2	-	-	-	-	-	-	-	1
C215.2	3	2	2	1	-	-	-	-	-	-	-	-
C215.3	2	2	3	2	-	-	-	-	-	-	-	-
C215.4	2	3	3	2	-	-	-	-	-	-	-	-
C215.5	3	3	3	3	-	-	-	-	-	-	-	-
C215.6	2	2	3	3	-	-	-	-	-	-	-	-

### Course Name: C216 (Microcontroller-18EC46)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	2	3	3	2	-	-	-	-	-	-	-	1
C216.2	3	3	2	-	2	-	-	-	-	-	-	-
C216.3	3	2	-	2	2	-	-	-	-	-	-	-
C216.4	3	2	2	2	-	-	-	-	-	-	-	1
C216.5	3	2	2	2	2	-	-	-	-	-	-	-
C216.6	2	1	2	2	2	-	-	-	-	-	-	1













CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C403 (SatCom-18EC732)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C403.1</b>	3	2	2	1		-	-	-	-	-	-	
<b>C403.2</b>	3	3	2	2		-	-	-	-	-	-	1
<b>C403.3</b>	2	2	3	1		-	-	-	-	-	-	1
<b>C403.4</b>	3	2	2	3		-	-	-	-	-	-	
<b>C403.5</b>	3	2	2	3	2							

### Course Name: C404Python-18EC745)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C404.1</b>	3	2	3	3	3							1
<b>C404.2</b>	3	3	2	3	3							
<b>C404.3</b>	3	2	2	2	2							
<b>C404.4</b>	3	3	2	2	3							

### Course Name: C405 (Biomedical -18MT751)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C405.1</b>	3	2	1	1	2							2
<b>C405.2</b>	3	2	1	1	2							2
<b>C405.3</b>	3	2	2	1	1							2
<b>C405.4</b>	3	2	2	2	3							2

### Course Name: C406 (CN LAB-18ECL76 )

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C406.1</b>	3	3	2	3	3	-	-	-	-	-	-	1
<b>C406.2</b>	3	2	2	2	3	-	-	-	-	-	-	1
<b>C406.3</b>	2	3	3	2	3	-	-	-	-	-	-	1
<b>C406.4</b>	3	3	2	3	3	-	-	-	-	-	-	1
<b>C406.5</b>	3	2	2	2	3	-	-	-	-	-	-	1





**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name:C407 (VLSI Lab-18ECL77)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C407.1</b>	3	2	2	1	3	-	-	-	-	-	-	1
<b>C407.2</b>	3	2	2	2	3	-	-	-	-	-	-	-
<b>C302.3</b>	2	2	2	1	3	-	-	-	-	-	-	-
<b>C407.4</b>	1	2	2	1	3	-	-	-	-	-	-	-
<b>C407.5</b>	2	1	2	2	3	-	-	-	-	-	-	-
<b>C407.6</b>	3	2	2	2	2	-	-	-	-	-	-	-

### **Course Name:C408(Project work-18ECP78)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C408.1</b>	3	3	3	3	3	-	-	-	3	2	2	2
<b>C408.2</b>	3	3	3	3	3	-	-	-	3	2	2	2
<b>C408.3</b>	3	3	3	3	3	-	-	-	3	2	2	2
<b>C408.4</b>	3	3	3	3	2	-	-	-	3	2	2	2
<b>C408.5</b>	3	3	3	2	3	-	-	-	3	2	2	2
<b>C408.6</b>	3	3	3	3	3	--	--	--	3	2	2	2

### **Course Name:C411(LTE &wireless communication 18EC81)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C411.1</b>	3	2	1	2	-	-	-	-	-	-	-	1
<b>C411.2</b>	3	2	2	-	-	-	-	-	-	-	-	-
<b>C411.3</b>	3	2	-	-	2	-	-	-	-	-	1	-
<b>C411.4</b>	2	2	2	-	-	-	-	-	-	-	-	-
<b>C411.5</b>	3	2	2	2	-	-	-	-	-	-	-	1

### **Course Name: C412(Fibre optical networks- 18EC82)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C412.1</b>	3	2	2	2	2					1		2
<b>C412.2</b>	3	3	2	2	2					2	2	2
<b>C412.3</b>	3	2	3	2	3					2	2	2
<b>C412.4</b>	2	2	3	2	2					2	2	2
<b>C412.5</b>	2	2	3	2	2					2	2	2



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name:C413(Radar Engineering-18EC833)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.5	3	2			2	1	1			1		2
C413.5	2	3	2	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	1			2	2	2
C413.5	3	2			2	1	1			1		2

### Course Name:C414(Internship-18ECI84)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	2	3	3					3	2	2	2
C414.2	2	3	2	3					3	2	3	2
C414.3	1	3	2	2					3	2	2	2
C414.4	3	2	3	2					3	3	2	2
C414.5	1	1	2	1					3	2	2	2
C414.6	3	1	2	1					3	2	2	2

### Course Name:C415(Project-18ECP85)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	2	2	3	3	3				3	2	2	2
C415.2	2	2	2	3	3				3	2	2	2
C415.3	1	2	2	2	3				3	2	2	2
C415.4	2	2	2	2	2				3	2	2	2
C415.5	1	1	2	1	3				3	2	2	2
C415.6	1	1	2	1	2				3	2	2	2

### Course Name:C416(Seminar-18ECS86)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C416.1	2	3	2	2	-	-	-	-	1	2	2	2
C416.2	2	2	2	1	-	-	-	-	1	2	2	2
C416.3	2	2	3	2	-	-	-	-	1	2	2	2
C416.4	3	1	2	2	-	-	-	-	1	2	2	2
C416.5	2	3	3	1	-	-	-	-	1	2	2	2
C416.6	2	2	2	2	-	-	-	-	1	2	2	2



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

#### **CO-PO MAPPING**

**Batch 2020 - 2024**

#### **Index**

<b>Sl. No.</b>	<b>List of Courses</b>
1.	18EE32 - ELECTRIC CIRCUIT ANALYSIS
2.	18EE33–Transformers and Generators
3.	18EE34 - Analog Electronic Circuits
4.	18EE35– Digital System Design
5.	18EE36 - Electrical & Electronics Measurements
6.	18EEL37–Electrical Machines Lab
7.	18EEL38–Electronics Lab
8.	18EE42 – Power Generation and Economics
9.	18EE43 – Transmission and Distribution
10.	18EE44 – Electric Motors
11.	18EE45 – Electromagnetic Field theory
12.	18EE46 – Operational Amplifiers and Linear ICs
13.	18EEL47 – Electrical Machines Lab – 2
14.	18EEL48 – Opamp & LIC Laboratory
15.	18EE51 – MANAGEMENT & ENTREPRENEURSHIP
16.	18EE52 – Microcontroller
17.	18EE53 – POWER ELECTRONICS
18.	18EE54 – Signals and Systems
19.	18EE55 – ELECTRICAL MACHINE DESIGN
20.	18EE56 – High Voltage Engineering
21.	18EEL57 – Microcontroller Laboratory
22.	18EEL58 – Microcontroller Laboratory
23.	18EE61 – CONTROL SYSTEMS
24.	18EE62 – Power System Analysis – I



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

25.	18EE63 – Digital Signal Processing
26.	18EE647 SENSORS AND TRANSDUCERS
27.	18ME657 Non-Conventional Energy Sources
28.	18EEL66 – Control Systems Laboratory
29.	18EEL67 – Digital Signal Processing Laboratory
30.	18EEMP68 – Mini Project
31.	18EE71 - Power System Analysis-2
32.	18EE72 - Power System Protection
33.	18EE734 – Advanced Control Systems
34.	18EE742 – Utilization of Electrical Power
35.	18AU754 - Introduction to Electric Vehicles
36.	18EEL76-Power System Simulation Lab
37.	18EEL77-High Voltage & Relay Lab
38.	18EEP78-Project Work - 1
39.	18EE81 - Power System Operation and control
40.	18EE821 - FACTS and HVDC Transmission
41.	18EEP85 - Project Work Phase 2
42.	18EES86 - Seminar
43.	18EEI85 - Internship



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### CO-PO MAPPING

#### BATCH 2020 - 2024

##### Course Name: C202 (18EE32 - ELECTRIC CIRCUIT ANALYSIS)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	3	3	-	2	-	-	-	-	-	-	2	-
C202.2	3	3	-	2	-	-	-	-	-	-	2	-
C202.3	3	3	-	2	-	-	-	-	-	-	-	-
C202.4	3	3	-	2	-	-	-	-	-	-	2	-
C202.5	1	-	-	2	-	-	-	-	-	-	-	-
C202.6	1	-	-	2	-	-	-	-	-	-	-	-

##### Course Name: C203 (18EE33–Transformers and Generators)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	3	-	-	-	-	-	-	-	-	-	-	-
C203.2	2	3	-	-	-	-	-	2	3	3	-	-
C203.3	1	-	3	3	-	-	-	2	3	2	-	-
C203.4	1	3	3	-	-	-	-	2	3	3	-	-
C203.5	1	3	-	-	-	-	-	2	3	2	-	-
C203.6	1	3	-	-	-	-	-	2	3	2	-	-

##### Course Name: C204 (18EE34 - Analog Electronic Circuits)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	3	-	2	-	-	-	2	3	3	-	-
C204.2	2	3	-	2	-	-	-	2	2	2	-	-
C204.3	2	3	-	1	-	-	-	2	2	2	-	-
C204.4	3	2	-	2	-	-	-	2	3	3	-	-
C204.5	2	3	-	2	-	-	-	2	3	3	-	-
C204.6	3	3	-	2	-	-	-	-	-	-	-	-

##### Course Name: C205 (18EE35– Digital System Design)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	2	2	-	-	-	-	-	3	3	3	-	-
C205.2	2	2	2	-	-	-	-	3	3	3	-	-
C205.3	2	2	2	-	-	-	-	3	3	3	-	-
C205.4	2	2	3	-	-	-	-	3	3	3	-	-
C205.5	2	-	3	-	-	-	-	3	3	3	-	-
C205.6	-	-	-	-	3	-	-	-	-	-	-	-



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C206 (18EE36 - Electrical & Electronics Measurements)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	3	3	2	-	-	3	-	-	-	1	2	2
C206.2	3	3	3	-	3	-	-	-	-	1	2	2
C206.3	3	3	2	3	-	-	-	-	-	2	2	2
C206.4	3	3	2	-	-	-	-	-	-	1	2	2
C206.5	3	3	-	2	-	-	3	2	-	3	2	2
C206.6	3	1	3	-	-	2	3	2	-	2	2	3

### **Course Name: C207 (18EEL37–Electrical Machines Lab)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	3	3	-	2	-	-	-	2	3	3	-	-
C207.2	2	3	-	2	-	-	-	2	2	2	-	-
C207.3	2	3	-	1	-	-	-	2	2	2	-	-
C207.4	3	2	-	2	-	-	-	2	3	3	-	-
C207.5	2	3	-	2	-	-	-	2	3	3	-	-
C207.6	3	3	-	2	-	-	-	-	-	-	-	-

### **Course Name: C208 (18EEL38–Electronics Lab)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C208.1	2	2	-	-	-	-	-	3	3	3	-	-
C208.2	2	2	2	-	-	-	-	3	3	3	-	-
C208.3	2	2	2	-	-	-	-	3	3	3	-	-
C208.4	2	2	3	-	-	-	-	3	3	3	-	-
C208.5	2	-	3	-	-	-	-	3	3	3	-	-
C208.6	-	-	-	-	3	-	-	-	-	-	-	-



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C212 (18EE42 – Power Generation and Economics)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	3	-	2	-	3	3	2	-	2	2	2
C212.2	3	3	-	-	2	3	-	2	-	2	-	1
C212.3	3	2	-	2	-	2	3	2	-	1	-	2
C212.4	3	3	2	2	-	3	-	1	-	2	1	1
C212.5	3	3	-	2	-	-	3	2	-	2	-	2
C212.6	3	3	-	3	-	1	-	-	-	1	2	1

### Course Name: C213 (18EE43 – Transmission and Distribution)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	1	3	3	3	1	2	-	2	-	-	1
C213.2	3	3	3	3	3	2	1	-	2	-	1	-
C213.3	3	3	2	2	-	1	2	-	1	1	-	2
C213.4	3	2	3	2	1	1	2	-	1	-	1	2
C213.5	3	3	2	2	-	2	2	1	1	-	1	3
C23.6	3	3	2	2	-	2	2	1	1	1	-	2

### Course Name: C214 (18EE44 – Electric Motors)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	-	1	3	2	2	-	-	2	-	-	-	-
C214.2	3	3	2	1	-	-	-	-	-	3	-	-
C214.3	-	-	3	-	2	1	2	-	3	2	-	-
C214.4	3	2	1	3	-	-	-	-	3	1	-	-
C214.5	1	-	-	-	2	2	3	-	2	-	-	-
C214.6	-	3	2	2	-	-	1	1	2	2	-	-

### Course Name: C215 (18EE45 – Electromagnetic Field theory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	3	1	3	2	-	2	-	-	1	-	2
C215.2	3	3	1	3	1	-	1	-	-	1	-	1
C215.3	3	3	2	3	-	-	1	-	-	1	-	2
C215.4	3	3	3	3	2	-	-	-	-	2	-	2
C215.5	3	3	3	3	1	-	-	-	-	1	-	2
C215.6	3	3	2	3	1	-	-	-	-	1	-	2





**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C216 (18EE46 – Operational Amplifiers and Linear ICs)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	2	2	-	-	-	-	-	2	2	2	-	-
C216.2	2	3	2	2	-	-	-	3	2	3	-	-
C216.3	2	3	-	-	-	-	-	3	2	3	-	-
C216.4	-	-	3	2	-	-	-	3	2	3	-	-
C216.5	-	-	2	-	-	-	-	2	2	3	-	-
C216.6	-	-	2	2	-	-	-	3	2	2	-	-

### **Course Name: C217 (18EEL47 – Electrical Machines Lab – 2)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	-	1	3	2	2	-	-	2	-	-	-	-
C217.2	3	3	2	1	-	-	-	-	-	3	-	-
C217.3	-	-	3	-	2	1	2	-	3	2	-	-
C217.4	3	2	1	3	-	-	-	-	3	1	-	-
C217.5	1	-	-	-	2	2	3	-	2	-	-	-
C217.6	-	3	2	2	-	-	1	1	2	2	-	-

### **Course Name: C218 (18EEL48 – Opamp& LIC Laboratory)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	-	1	3	2	2	-	-	2	-	-	-	-
C218.2	3	3	2	1	-	-	-	-	-	3	-	-
C218.3	-	-	3	-	2	1	2	-	3	2	-	-
C218.4	3	2	1	3	-	-	-	-	3	1	-	-
C218.5	1	-	-	-	2	2	3	-	2	-	-	-
C218.6	-	3	2	2	-	-	1	1	2	2	-	-



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C301 (18EE51 – MANAGEMENT & ENTREPRENEURSHIP)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	2	2	-	-	2	-	-	3	2	3	-	-
C301.2	2	2	-	-	3	-	-	3	2	3	-	-
C301.3	2	2	-	3	-	-	3	2	3	-	-	-
C301.4	-	2	-	-	3	-	-	3	3	3	-	-
C301.5	-	-	-	3	3	2	-	-	-	-	-	-
C301.6	-	-	2	2	3	-	-	3	2	3	-	-

### **Course Name: C302 (18EE52 – Microcontroller)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	2	2	-	-	2	-	-	3	2	3	-	-
C302.2	2	2	2	-	3	-	-	3	2	3	-	-
C302.3	2	2	-	3	-	-	3	2	3	-	-	-
C302.4	-	2	-	-	3	-	-	3	3	3	-	-
C302.5	-	-	-	3	3	2	-	-	-	-	-	-
C302.6	-	-	2	2	3	-	-	3	2	3	-	-

### **Course Name: C303 (18EE53 – POWER ELECTRONICS)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	-	-	-	-	1	1	3	-	3	2	3
C303.2	-	3	-	-	-	2	-	3	-	-	-	-
C303.3	3	-	2	-	-	-	-	3	-	-	-	-
C303.4	-	2	1	1	-	-	-	3	-	-	-	-
C303.5	-	-	2	1	-	2	-	3	-	-	2	-
C303.6	2	-	-	2	-	1	-	3	-	-	-	3

### **Course Name: C304 (18EE54 – Signals and Systems)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	3	-	-	-	-	-	-	-	2	-	-
C304.2	2	3	-	2	-	2	-	-	-	3	-	2
C304.3	2	-	-	3	-	-	3	-	-	-	-	-
C304.4	1	-	3	-	-	1	2	-	-	-	1	-
C304.5	1	-	3	-	-	1	3	-	-	-	-	-
C304.6	1	-	3	-	3	-	-	-	-	-	-	-



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C305 (18EE55 – ELECTRICAL MACHINE DESIGN)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	3	-	-	-	-	-	-	-	2	-	-
C305.2	2	3	-	2	-	2	-	-	-	3	-	2
C305.3	2	-	-	3	-	-	3	-	-	-	-	-
C305.4	1	-	3	-	-	1	2	-	-	-	1	-
C305.5	1	-	3	-	-	1	3	-	-	-	-	-
C305.6	1	-	3	-	3	-	-	-	-	-	-	-

### **Course Name: C306 (18EE56 – High Voltage Engineering)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	2	3	-	2	-	-	-	2	1	3	-	-
C306.2	3	2	-	1	-	-	-	2	2	3	-	-
C306.3	2	3	-	2	-	-	-	2	2	3	-	-
C306.4	3	2	-	2	-	-	-	2	3	2	-	-
C306.5	2	3	-	2	-	-	-	2	3	2	-	-
C306.6	2	3	-	3	-	-	-	-	-	-	-	-

### **Course Name: C307 (18EEL57 – Microcontroller Laboratory)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	2	2	-	-	2	-	-	3	2	3	-	-
C307.2	2	2	2	-	3	-	-	3	2	3	-	-
C307.3	2	2	-	3	-	-	3	2	3	-	-	-
C307.4	-	2	-	-	3	-	-	3	3	3	-	-
C307.5	-	-	-	3	3	2	-	-	-	-	-	-
C307.6	-	-	2	2	3	-	-	3	2	3	-	-

### **Course Name: C308 (18EEL58 – Power Electronics Laboratory)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	3	-	-	-	-	1	1	3	-	3	2	3
C308.2	-	3	-	-	-	2	-	3	-	-	-	-
C308.3	3	-	2	-	-	-	-	3	-	-	-	-
C308.4	-	2	1	1	-	-	-	3	-	-	-	-
C308.5	-	-	2	1	-	2	-	3	-	-	2	-
C308.6	2	-	-	2	-	1	-	3	-	-	-	3





**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C315 (18ME657 Non-Conventional Energy Sources)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	2	2	-	-	1	2	-	-	-	-	-
C315.2	1	2	3	2	1	-	-	-	-	-	-	-
C315.3	-	-	3	2	1	3	3	-	-	-	-	-
C315.4	2	-	2	-	2	1	3	-	-	-	-	-
C315.5	-	-	2	3	-	2	2	-	-	-	-	-
C315.6	2	12	-	1	2	13	-	-	-	-	-	-

### **Course Name: C316 (18EEL66 – Control Systems Laboratory)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	3	-	-	3	-	-	2	2	3	-	-
C316.2	2	3	-	-	3	-	-	2	2	3	-	-
C316.3	3	3	3	-	2	-	-	2	2	2	-	-
C316.4	3	3	2	-	3	-	-	2	2	3	-	-
C316.5	2	2	-	-	3	-	-	2	2	2	-	-
C316.6	2	3	-	-	3	-	-	2	2	3	-	-

### **Course Name: C317 (18EEL67 – Digital Signal Processing Laboratory)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	3	-	3	2	-	-	-	2	2	-	-
C317.2	3	3	-	3	2	-	-	-	2	2	-	-
C317.3	-	-	-	2	2	-	-	-	2	2	-	-
C317.4	-	-	-	2	2	-	-	-	2	2	-	-
C317.5	-	-	-	2	2	-	-	-	2	2	-	-
C317.6	-	-	-	2	2	-	-	-	2	2	-	-

### **Course Name: C318 (18EEMP68 – Mini Project)**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	3	3	1	3	2	-	-	-	2	2	-	-
C318.2	3	3	1	3	2	-	-	-	2	2	-	-
C318.3	3	2	2	2	2	-	-	-	2	2	-	-
C318.4	2	3	2	2	2	-	-	-	2	2	-	-
C318.5	2	2	2	2	2	-	-	-	2	2	-	-
C318.6	2	2	1	2	2	-	-	-	2	2	-	-



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C401 (18EE71 - Power System Analysis-2)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	3	-	3	3	-	1	-	-	2	2	2
C401.2	3	3	1	3	3	1	2	-	2	2	2	3
C401.3	3	2	1	2	2	-	2	1	-	1	1	2
C401.4	2	2	1	3	3	1	3	-	2	2	2	3
C401.5	3	3	-	2	3	-	3	1	-	2	2	3
C401.6	3	3	-	2	3	-	1	1	-	1	1	2

### Course Name: C402 (18EE72 - Power System Protection)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	-	-	-	-	-	-	-	-	-	-	-
C402.2	2	3	-	-	-	-	-	2	3	3	-	-
C402.3	1	-	3	3	-	-	-	2	3	2	-	-
C402.4	1	3	3	-	-	-	-	2	3	3	-	-
C402.5	1	3	-	-	-	-	-	2	3	2	-	-
C402.6	1	3	-	-	-	-	-	2	3	2	-	-

### Course Name: C403 (18EE734– Advanced Control Systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	3	-	3	3	-	1	-	-	2	2	2
C403.2	3	3	1	3	3	1	2	-	2	2	2	3
C403.3	3	2	1	2	2	-	2	1	-	1	1	2
C403.4	2	2	1	3	3	1	3	-	2	2	2	3
C403.5	3	3	-	2	3	-	3	1	-	2	2	3
C403.6	3	3	-	2	3	-	1	1	-	1	1	2

### Course Name: C403 (18EE742 – Utilization of Electrical Power)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	3	3	2	3	-	2	2	1	1	1	1	1
C404.2	3	2	3	3	-	2	2	1	1	1	1	1
C404.3	3	3	2	3	-	1	2	1	1	1	1	1
C404.4	2	2	2	2	-	2	2	1	1	1	1	1
C404.5	3	3	3	3	-	2	2	1	1	1	1	1
C404.6	3	3	2	3	-	1	2	1	1	1	1	1



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C405 (18AU754- Introduction to Electric Vehicles)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	3	-	2	-	-	3	-	-	-	-	-	-
C405.2	3	-	2	-	-	2	-	-	-	-	-	-
C405.3	3	2	2	-	1	-	-	-	-	-	-	-
C405.4	2	1	2	-	-	-	-	-	-	-	-	-
C405.5	3	3	3	1	-	-	-	-	-	1	1	1
C405.6	3	3	3	1	-	-	-	-	-	1	1	1

### Course Name: C406 (18EEL76-Power System Simulation Lab)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	2	2	2	-	2	-	-	3	3	3	-	-
C406.2	2	2	2	-	-	-	-	2	2	3	-	-
C406.3	2	2	2	-	2	-	-	2	2	3	-	-
C406.4	2	2	2	-	2	-	-	-	1	3	-	-
C406.5	2	2	2	-	-	-	-	3	3	3	-	-
C406.6	2	2	2	-	-	-	-	-	2	3	-	-

### Course Name: C407 (18EEL77-High Voltage & Relay Lab)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	2	3	-	2	-	-	-	2	1	3	-	-
C407.2	3	2	-	1	-	-	-	2	2	3	-	-
C407.3	2	3	-	2	-	-	-	2	2	3	-	-
C407.4	3	2	-	2	-	-	-	2	3	2	-	-
C407.5	2	3	-	2	-	-	-	2	3	2	-	-
C407.6	2	3	-	3	-	-	-	-	-	-	-	-

### Course Name: C408 (18EEP78-Project Work)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	3	3	1	3	2	-	-	-	2	2	-	-
C408.2	3	3	1	3	2	-	-	-	2	2	-	-
C408.3	3	2	2	2	2	-	-	-	2	2	-	-
C408.4	2	3	2	2	2	-	-	-	2	2	-	-
C408.5	2	2	2	2	2	-	-	-	2	2	-	-
C408.6	2	2	1	2	2	-	-	-	2	2	-	-



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C411 (18EE81 - Power System Operation and control)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	3	-	-	3	-	-	-	-	2	-	2
C411.2	3	3	1	-	3	-	-	-	-	2	-	3
C411.3	3	2	1	-	2	-	-	-	-	1	-	2
C411.4	2	2	1	-	3	-	-	-	-	2	-	3
C411.5	3	3	-	-	3	-	-	-	-	2	-	3
C411.6	3	3	-	-	3	-	-	-	-	1	-	2

### Course Name: C412 (18EE821 - FACTS and HVDC Transmission)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	3	-	-	-	-	-	-	-	-	-	-	-
C412.2	2	3	-	-	-	-	-	2	3	3	-	-
C412.3	1	-	3	3	-	-	-	2	3	2	-	-
C412.4	1	3	3	-	-	-	-	2	3	3	-	-
C412.5	1	3	-	-	-	-	-	2	3	2	-	-
C412.6	1	3	-	-	-	-	-	2	3	2	-	-

### Course Name: C413 (18EEP83-Project Work Phase 2)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3	3	1	3	2	-	-	-	2	2	-	-
C413.2	3	3	1	3	2	-	-	-	2	2	-	-
C413.3	3	2	2	2	2	-	-	-	2	2	-	-
C413.4	2	3	2	2	2	-	-	-	2	2	-	-
C413.5	2	2	2	2	2	-	-	-	2	2	-	-
C413.6	2	2	1	2	2	-	-	-	2	2	-	-

### Course Name: C414 (18EES84 - Seminar)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	3	1	3	2	-	-	-	2	2	-	-
C414.2	3	3	1	3	2	-	-	-	2	2	-	-
C414.3	3	2	2	2	2	-	-	-	2	2	-	-
C414.4	2	3	2	2	2	-	-	-	2	2	-	-
C414.5	2	2	2	2	2	-	-	-	2	2	-	-
C414.6	2	2	1	2	2	-	-	-	2	2	-	-





**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C415 (18EEI85 - Internship)**

<b>CO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>C415.1</b>	3	3	-	3	3	-	1	-	-	2	2	2
<b>C415.2</b>	3	3	1	3	3	1	2	-	2	2	2	3
<b>C415.3</b>	3	2	1	2	2	-	2	1	-	1	1	2
<b>C415.4</b>	2	2	1	3	3	1	3	-	2	2	2	3
<b>C415.5</b>	3	3	-	2	3	-	3	1	-	2	2	3
<b>C415.6</b>	3	3	-	2	3	-	1	1	-	1	1	2



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Gauge)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### CO-PO MAPPING Academic Year 2023-2024 Index

Sl. No.	List of Courses
1.	Mathematics-I For CSE Stream – BMATS101
2.	Physics for CSE stream - BPHYS102
3.	Principles of Programming Using C - BPOPS103
4.	Introduction to Electronics Communication- BESCK104C
5.	Introduction to Internet of Things (IOT)- BETCK105H
6.	Communicative English - BENGK106
7.	Indian Constitution- BICOK107
8.	Innovation and Design Thinking- BIDTK158
9.	Mathematics for CSE Stream –II- BMATS201
10.	Chemistry for CSE Stream- BCHES202
11.	Computer-Aided Engineering Drawing- BCEDK203
12.	Introduction to Electrical Engineering- BESCK204B
13.	Basics to JAVA programming- BPLCK205C
14.	Professional Writing Skills in English- BPWSK206
15.	Sanskrutika Kannada/ Balake Kannada- BKSKK207/ BKBKK207
16.	Scientific Foundations for Health- BSFHK258
17.	Mathematics for Computer Science- BCS301
18.	Digital Design & Computer Organization- BCS302
19.	Operating Systems BCS303
20.	Data Structures and Applications BCS304
21.	Data Structures Lab BCS305
22.	Object Oriented Programming with C++ BCS306
23.	Social Connect and Responsibility- BSCK307
24.	Data Analytics Lab with Excel BCS358A
25.	Analysis & Design of Algorithms - BCS401
26.	Advanced Java BIS402
27.	Database Management Systems BCS403
28.	Analysis & Design of Algorithms Lab BCSL404
29.	Biology for Engineers-21BE45
30.	Discrete Mathematical Structures BCS405A
31.	Technical writing using LATEX BCSL456D
32.	Universal Human Values BUHK408
33.	Automata Theory and Compiler Design -21CS51



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Gauge)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

34.	Computer Networks 21CS52
35.	Database Management System 21CS53
36.	Artificial Intelligence and Machine Learning 21CS54
37.	Database Management System Laboratory 21CSL55
38.	Research Methodology & Intellectual Property Rights 21RM56
39.	Environmental Studies 21CIV57
40.	C# and .Net Framework 21CS582
41.	Software Engineering and Project Management 21CS61
42.	Fullstack Development 21CS62
43.	Software Testing 21IS63
44.	Data science and Visualization 21CS644
45.	Conservation of Natural Resource 21CV654
46.	Software Testing Laboratory 21ISL66
47.	Internship 21INT68
48.	Artificial Intelligence and Machine Learning 21CS71
49.	Big Data Analytics 21CS72
50.	User Interface Design 21CS734
51.	Cryptography 21CS742
52.	Neural Network 21CS754
53.	Artificial Intelligence & Machine Learning Laboratory 21CSL76
54.	Internet Of Things Technology /21CS81
55.	Storage Area Networks 21CS822
56.	PROJECT WORK PHASE 1 & 2 18ISP77 / 18ISP83
57.	Internship 18IS84
58.	Seminar / 18ISS85





CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Gauge)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

**Course Name: C106 (BENGK106- Communicative English)**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2
C106.3	-	-	-	-	-	-	-	-	2	2	-	2
C106.4	-	-	-	-	-	-	-	-	2	2	-	2
C106.5	-	-	-	-	-	-	-	-	2	2	-	2

**Course Name: C107 (BICOK107-Indian Constitution)**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	2
C107.2	-	-	-	-	-	-	-	-	2	2	-	2
C107.3	-	-	-	-	-	-	-	-	2	2	-	2
C107.4	-	-	-	-	-	-	-	-	2	2	-	2
C107.5	-	-	-	-	-	-	-	-	2	2	-	2

**Course Name: C108 (BIDTK158-Innovation and Design Thinking)**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108.1	-	-	-	-	-	-	-	-	2	2	-	-
C108.2	-	-	-	-	-	-	-	-	2	2	-	-
C108.3	2	3	2	2	-	-	-	-	-	-	-	-
C108.4	3	2	3	3	2	-	-	-	-	-	-	-
C108.5	3	3	2	2	2	-	-	-	-	-	-	-

**Course Name: C111(BMATS201-Mathematics for CSE Stream –II)**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111.1	3	2	2	1	1	-	-	-	-	-	-	2
C111.2	3	2	2	1	1	-	-	-	-	-	-	2
C111.3	3	2	3	2	2	-	-	-	-	-	-	2
C111.4	3	2	2	1	2	-	-	-	-	-	-	2
C111.5	3	2	2	1	2	-	-	-	-	-	-	2

**Course Name: C112(BCHE202-Chemistry for CSE Stream)**

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112.1	3	1	1				1					
C112.2	3	1	1				1					
C112.3	3	1	1				1					
C112.4	3	1	1				1					
C112.5	3	1	1				1					



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Gauge)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C113(BCEDK203-Computer-Aided Engineering Drawing)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113.1	2	2	2	-	-	-	-	-	-	-	-	-
C113.2	2	2	2	-	-	-	-	-	-	-	-	-
C113.3	2	2	2	-	-	-	-	-	-	-	-	-
C113.4	3	2	1	-	-	-	-	-	-	-	-	-
C113.5	3	2	1	-	-	-	-	-	-	-	-	-

### Course Name: C114(BESCK204B-Introduction to Electrical Engineering)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114.1	3	2	2	-	-	-	-	-	-	-	-	-
C114.2	2	3	2	-	-	-	-	-	-	-	-	-
C114.3	3	2	2	-	-	-	-	-	-	-	-	-
C114.4	3	2	2	-	-	-	-	-	-	-	-	-
C114.5	3	2	2	-	-	-	-	-	-	-	-	-

### Course Name: C115 (BPLCK205C-Basics to JAVA programming)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115.1	3	2	1	-	2	-	-	-	-	-	-	2
C115.2	2	2	1	-	-	-	-	-	-	-	-	-
C115.3	3	2	1	-	2	-	-	-	-	-	-	2
C115.4	2	2	2	-	2	-	-	-	-	-	-	2

### Course Name: C116 (BPWSK206-Professional Writing Skills in English)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116.1	-	-	-	-	-	-	-	-	2	2	-	-
C116.2	-	-	-	-	-	-	-	-	2	2	-	-
C116.3	-	-	-	-	-	-	-	-	2	2	-	-
C116.4	-	-	-	-	-	-	-	-	2	2	-	-
C116.5	-	-	-	-	-	-	-	-	2	2	-	-

### Course Name: C117 (BKSCK207-Samskrutika Kannada)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C117.1	-	-	-	-	-	-	-	-	2	2	-	-
C117.2	-	-	-	-	-	-	-	-	2	2	-	-
C117.3	-	-	-	-	-	-	-	-	2	2	-	-
C117.4	-	-	-	-	-	-	-	-	2	2	-	-
C117.5	-	-	-	-	-	-	-	-	2	2	-	-













CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

**COURSE NAME: Advanced Java( BIS402)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	2	2	3	-	-	-	-	-	-	-	-	-
C213.2	2	2	3	-	-	-	-	-	-	-	-	-
C213.3	1	2	3		2	-	-	-	-	-	-	-
C213.4	3	-	3	3	3	-	-	-	-	-	-	-
C213.5	3	-	3	3	3	-	-	-	-	-	-	-
C213.6	3	-	3	3	3	-	-	-	-	-	-	-

**COURSE NAME: Database Management Systems( BCS403)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	-	-	-	-	-	-	-	-	-	-	-	-
C214.2		2	-	-	-	-	-	-	-	-	-	-
C214.3	-	-	-	-	2	-	-	-	-	-	-	-
C214.4	-	-	2	-	-	-	-	-	-	-	-	-
C214.5	-	-	2	-	-	-	-	-	-	-	-	-

**COURSE NAME: Analysis & Design of Algorithms Lab( BCSL404)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	2	1	-	-	-	-	-	-	-	-	-	-
C215.2	1	1	-	-	-	-	-	-	2	-	-	-
C215.3	-	-	-	-	2	-	-	-	-	-	-	-
C215.4	-	-	-	-	-	-	-	-	-	-	-	2

**COURSE NAME: Discrete Mathematical Structures( BCS405A)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	3	3	-	-	-	-	-	-	-	-	-
C215.2	3	3	3	-	-	-	-	-	-	-	-	-
C215.3	3	3	2	-	-	-	-	-	-	-	-	-
C215.4	3	3	3	-	-	-	-	-	-	-	-	-
C215.5	3	3	-	-	-	-	-	-	-	-	-	1

**COURSE NAME: Technical writing using LATEX( BCSL456D)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	1	1	-	-	-	-	-	-	-	-	-	1
C215.2	1	-	-	-	-	-	-	-	-	-	-	1
C215.3	1	2	-	-	-	-	-	-	-	-	-	1
C215.4	1	1	-	-	-	-	-	-	-	-	-	1
C215.5	1	1	-	-	1	-	-	-	-	-	-	1



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

COURSE NAME:

**Biology For Computer Engineers( BBOC407)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	-	-	-	-	-	3	3	-	2	-	-	1
C216.2	-	-	-	-	-	3	3	-	1	-	-	1
C216.3	-	-	-	-	-	3	3	-	1	-	-	1
C216.4	-	-	-	-	-	3	3	-	2	-	-	1
C216.5	-	-	-	-	-	3	3	-	2	-	-	1
C216.6	-	-	-	-	-	3	3	-	2	-	-	1

**Universal human values( BUHK408)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	2	2	-	-	-	-	-	-	-	-	2
C216.2	3	2	2	-	-	-	-	-	-	-	-	2
C216.3	3	2	2	-	-	-	-	-	-	-	-	2
C216.4	3	2	2	-	-	-	-	-	-	-	-	2
C216.5	3	2	2	-	-	-	-	-	-	-	-	2
C216.6	3	2	2	-	-	-	-	-	-	-	-	2

Course Name: **Automata Theory and compiler Design(21CS51)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	-	2	-	-	-	-	-	-	2	-	1	-
C301.2	-	-	-	-	-	-	-	-	2	2	2	-
C301.3	-	-	-	-	-	-	-	3	-	2	3	2
C301.4	-	-	-	-	-	-	-	3	-	2	3	2
C301.5	-	-	-	-	-	-	-	3	-	2	3	2

COURSE NAME: **Computer Networks (21CS52)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	2	2	3	-	-	-	-	-	-	3	-	3
C302.2	2	1	3	-	-	-	-	-	-	2	-	2
C302.3	1	3	3	2	1	-	-	-	-	1	-	3
C302.4	3	3	3	2	3	-	-	-	-	3	-	3
C302.5	3	1	2	1	3	-	-	-	-	3	-	3



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

**COURSE NAME: Database Management Systems (21CS53)**

Course Outcomes	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C303.1	3	2	3	2	-	-	-	-	-	-	-	2
C303.2	-	2	-	-	-	-	-	-	-	-	-	2
C303.3	-	2		2	-	-	-	-	-	-	-	1
C303.4	2	2	2	2	-	-	-	-	-	-	-	2
C303.5	2	2	2	2	-	-	-	-	-	-	-	2

**Course Name: Artificial Intelligence and Machine Learning(21CS54)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	2	3	-	-	-	-	-	-	-	-	2
C304.2	1	2	-	-	-	-	-	-	-	-	-	2
C304.3	-	2	-	-	-	-	-	-	-	-	-	1
C304.4	2	2	2	-	-	-	-	-	-	-	-	2
C304.5	2	-	1	-	-	-	-	-	-	-	-	3

**Course Name Database Management Systems Laboratory with Mini Project( 21CSL55)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	2	2	-	-	2	-	-	-	-	-	-	
C305.2	3	3	2	-	2	-	-	-	-	-	-	2
C305.3	3	3	2	-	2	-	-	-	-	-	-	2
C305.4	2	2	2	-	2	-	-	-	-	-	-	2
C305.5	2	3	2	-	2	-	-	-	-	-	-	2

**COURSE NAME: Research Methodology & Intellectual Property Rights(21RM56)**

Course Outcomes	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	2	-	-	-	-	-	-	-	-	-	-	-
C306.2	-	3	-	-	-	-	-	-	-	-	-	-
C306.3	-	2	-	-	-	-	-	-	-	-	-	-
C306.4	2	-	-	-	-	-	-	-	-	-	-	-
C306.5	2	-	-	-	-	-	-	-	-	-	-	-

**COURSE NAME: Environmental Studies( 21CIV57)**

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	2	2	2	-	2	-	-	-	-	-	-	2
C308.2	2	3	3	-	2	-	-	-	-	-	-	2
C308.3	3	3	3	-	3	-	-	-	2	2	-	2
C308.4	3	3	3	-	3	-	-	-	2	2	-	2





CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E., New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordenqg.org](http://www.theoxfordenqg.org)

Course Name		Software Testing( 21IS63)										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	1	-	2	-	-	-	-	-	-	-	-	2
C313.2	1	-	2	-	-	-	-	-	-	-	-	2
C313.3	1	-	-	-	-	-	-	-	-	-	-	2
C313.4	1	-	-	-	-	-	-	-	-	-	-	2
C313.5	1	-	-	-	-	-	-	-	-	-	-	2
COURSE NAME:		Data science and Visualization( 21CS644)										
Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	2	-	1	-	3	1	1	-	-	-	-	-
C315.2	2	-	1	-	3	1	1	-	-	-	-	-
C315.3	2	3	3	-	3	1	1	-	-	-	-	-
C315.4	2	1	1	-	3	1	1	-	-	-	-	-
C315.5	2	1	2	-	3	2	1	-	-	-	-	-

COURSE NAME:		Conservation of Natural Resources(21CV654)													
Course Outcomes	PO 1	PO2	PO3	PO 4	PO5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO 12	PS O1	PS O2	PS O 3
CO1	3	3	3	3	2	-	-	-	-	-	-	3	2		2
CO2	-	2	-		2	-	-	-	-	-	-	3		3	2
CO3	-	2		2	2	-	-	-	-	-	-	3	2	3	
CO4	2	2	2	2	2	-	-	-	-	-	-	2	2	3	2
CO5	3	-	3	-	2	-	-	-	-	-	-	3		3	2
CO6	3	-	3	-	2	-	-	-	-	-	-	3		2	2
Course Outcomes		Software Testing Laboratory( 21ISL66)													
CO1	3	3	3	3	-	-	-	-	-	-	-	3			
CO2	3	3	3	2	-	-	-	-	-	-	-	3			
CO3	3	3	3	3	-	-	-	-	-	-	-	3			
CO4	3	2	2	2	-	-	-	-	-	-	-	3			
CO5	3	3	3	3	-	-	-	-	-	-	-	3			
CO6	3	3	3	3	-	-	-	-	-	-	-	3			
	3	3	3	2	-	-	-	-	-	-	-	3			
Course Outcomes		Innovation/Entrepreneurship/Societal Internship( 21INT68)													
C414.1	2	2	1	-	-	-	-	-	-	-	-	2	3	-	-
C414.2	2	2	2	-	-	-	-	-	-	-	-	2	3	-	-
C414.3	2	2	2	-	-	-	-	-	-	-	-	2	3	-	-
C414.4	2	2	2	-	-	-	-	-	-	-	-	2	3	-	-



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E., New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordenqg.org](http://www.theoxfordenqg.org)

COURSE NAME:		Big Data and Analytics/18CS72													
Course Outcomes	P O 1	PO2	PO3	PO 4	PO5	P O 6	PO 7	PO 8	P O 9	PO 10	PO1 1	PO 12	PSO 1	PSO 2	PS O3
CO1	3	2	1	3	2	-	-	2	2	2	-	3	3	2	3
CO2	2	2	-	2	2	-	-	-	2	2	-	2	2	2	1
CO3	2	2	-	2	1	2	2	-	2	2	-	2	1	2	1
CO4	3	2	3	2	1	2	-	-	2	-	-	2	1	2	1
CO5	2	2	2	2	1	-	-	-	2	2	-	2	1	-	-
COURSE NAME:		Software Architecture and Design Patterns/18CS72													
Course Outcomes	P O 1	PO2	PO3	PO 4	PO5	P O 6	PO 7	PO 8	P O 9	PO 10	PO1 1	PO 12	PSO 1	PSO 2	PS O3
CO1	3	3	3	3	-	-	-	-	-	-	-	2	3	-	-
CO2	3	3	3	2	-	-	-	-	-	-	-	2	2	-	-
CO3	3	3	3	3	-	-	-	-	-	-	-	2	2	-	-
CO4	3	2	2	2	-	-	-	-	-	-	-	2	2	-	-
CO5	3	3	3	3	-	-	-	-	-	-	-	2	3	-	-
COURSE NAME:		Cryptography/18CS744													
Course Outcomes	P O 1	PO2	PO3	PO 4	PO5	P O 6	PO 7	PO 8	P O 9	PO 10	PO1 1	PO 12	PSO 1	PSO 2	PS O3
CO1	2	2	2	-	-	-	-	-	-	-	-	2	3	-	-
CO2	3	2	-	-	-	-	-	-	-	-	-	2	2	-	-
CO3	3	2	-	-	-	-	-	-	-	-	-	2	2	-	-
CO4	2	-	-	-	-	-	-	-	-	-	-	2	2	-	-
CO5	2	-	-	-	-	-	-	-	-	-	-	2	2	-	-





CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordenqq.org](http://www.theoxfordenqq.org)

CO-PO-PSO MAPPING

COURSE NAME:			Neural Network/18EC752												
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2	PSO 3
CO1	3	3	3	3	-	-	-	-	-	-	-	1	3	-	3
CO2	3	3	3	3	-	-	-	-	-	-	-	1	3		3
CO3	3	3	3	3	-	-	-	-	-	-	-	1	2	3	
CO4	3	3	3	3	-	-	-	-	-	-	-	1	2	2	3
CO5	3	2	2	1	-	-	-	-	-	-	-	1	3	2	3
COURSE NAME:			Internet of Things/18CS81												
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2	PSO 3
CO1	3	3	3	3								1	3		3
CO2	3	3	3	3								1	3		3
CO3	3	3	3	3								1	2	3	
CO4	3	3	3	3								1	2	2	3
CO5	3	2	2	1								1	3	2	3
COURSE NAME:			Storage Area Networks/18CS822												
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2	PSO 3
CO1	3	3	3	3								2	3		
CO2	3	3	3	2								2	2		
CO3	3	3	3	3								2	2		
CO4	3	2	2	2								2	2		
CO5	3	3	3	3								2	3		



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E., New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordenqg.org](http://www.theoxfordenqg.org)

COURSE NAME: Seminar/18ISS86

CO No.	P O 1	P O 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
C416.1	1	3	-	-	-	-	-	-	-	1	-	2	1	-	-
C416.2	1	3		1	2	-	-	-	-	-	-	2	2	-	-
C416.3	1	-	-	-	-	-	-	-	-	2	-	2	2	-	-
C416.4	1	-	-	-	-	-	-	-	-	2	-	2	2	-	-

COURSE NAME:18IS84/ Internship

CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
C414.1	2	2	1	-	-	-	-	-	-	-	-	2	3	-	-
C414.2	2	2	2	-	-	-	-	-	-	-	-	2	3	-	-
C414.3	2	2	2	-	-	-	-	-	-	-	-	2	3	-	-
C414.4	2	2	2	-	-	-	-	-	-	-	-	2	3	-	-

COURSE NAME: Project Phase 1 and 2 18ISP77/83

CO No.	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	PO8	PO9	PO 10	PO1 1	PO 12	PSO 1	PSO 2	PSO 3
C415.1	3	3	1	1	-	-	-	-	-	-	-	-	-	-	-
C415.2	3	3	3	2	3	1	2	-	3	3	2	3	2	1	2
C415.3	3	3	3	1	-	1	1	3	2	3	1	3	-	-	-
C415.4	3	1	3	2	1	-	-	-	-	-	1	2	-	-	-



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **DEPARTMENT OF MANAGEMENT STUDIES (MBA)**

### **CO-PO MAPPING -Academic year 2023-24**

#### **Course Name: C111 (Management & Organizational Behaviour - 22MBA11)**

	PO1	PO2	PO3	PO4	PO5
C111.1	1				2
C111.2		2	2		
C111.3				3	
C111.4		2		2	

#### **Course Name: C112 (Entrepreneurship Development- 22MBA12)**

	PO1	PO2	PO3	PO4	PO5
C112.1	2				3
C112.2	1	2			2
C112.3	1		1	2	
C112.4	1				1
C112.5	1		3		1
C112.6	1		1		

#### **Course Name: C113 (Accounting For Managers - 22MBA13)**

	PO1	PO2	PO3	PO4	PO5
C113.1	1				2
C113.2			2		
C113.3				3	

#### **Course Name: C114 (STATISTICS FOR Managers- 22MBA14)**

	PO1	PO2	PO3	PO4	PO5
C114.1	1				2
C114.2		2	2		
C114.3				3	
C114.4		2		2	
C114.5	2	3			



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C115 (Marketing Management - 22MBA15)**

	PO1	PO2	PO3	PO4	PO5
C115.1	1				2
C115.2	1		2		
C115.3				3	
C115.4		2		2	
C115.5		2			2

### **Course Name: C116 (Business Communication - 22MBA16)**

	PO1	PO2	PO3	PO4	PO5
C116.1	1				2
C116.2			2		
C116.3				3	
C116.4		2		2	

### **Course Name: C121 (Human Resource Management -22MBA21)**

	PO1	PO2	PO3	PO4	PO5
C121.1	1				2
C121.2	1		2		
C121.3		2		3	
C121.4	1	2		2	
C121.5		2			2

### **Course Name: C122 (Financial Management -22MBA22)**

	PO1	PO2	PO3	PO4	PO5
C122.1	1				2
C122.2			2		
C122.3				3	
C122.4		2		2	
C122.5	1				2



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C123 (Research Methodology & IPR -22MBA23 )**

	PO1	PO2	PO3	PO4	PO5
C123.1	1				2
C123.2			2		
C123.3				3	
C123.4		2		2	
C123.5	2		3		2

### **Course Name: C124 (Operational Research -22MBA24)**

	PO1	PO2	PO3	PO4	PO5
C124.1	1				2
C124.2		2	2		
C124.3				3	
C124.4		2		2	

### **Course Name: C125 (Strategic Management -22MBA25)**

	PO1	PO2	PO3	PO4	PO5
C125.1	1				2
C125.2			2		
C125.3				3	
C125.4		2		2	

### **Course Name: C126 (Managerial Economics -22MBA26)**

	PO1	PO2	PO3	PO4	PO5
C126.1	3		1		
C126.2	3	2		1	
C126.3	2				1
C126.4	2		3		1
C126.5	2			1	3
C126.6	3			1	



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C231 (LOGISTICS AND SUPPLY CHAIN MANAGEMENT -22MBA301)**

	PO1	PO2	PO3	PO4	PO5
C231.1	1				2
C231.2		2			
C231.3				3	
C231.4	2			2	

### **Course Name: C232 (Information Technology for Managers -22MBA302)**

	PO1	PO2	PO3	PO4	PO5
C232.1	1		-	-	2
C232.2			2		
C232.3			-	3	
C232.4		2			

### **Course Name: C233 (CONSUMER BEHAVIOUR -22MBAMM303)**

	PO1	PO2	PO3	PO4	PO5
C233.1	1	2			2
C233.2			2		
C233.3				3	
C233.4		2	3	2	

### **Course Name: C234 (Sales and Retail Management -22MBAMM304)**

	PO1	PO2	PO3	PO4	PO5
C234.1	1				2
C234.2			2		
C234.3				3	
C234.4		2		2	
C235.5	1		2		3
C235.6		1		2	
C235.7	1		2		



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi&Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24&Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C235 (Strategic Cost Management -22MBAFM303)**

	PO1	PO2	PO3	PO4	PO5
C235.1	1				2
C235.2			2		
C235.3				3	
C235.4		2		2	

### **Course Name: C236 (SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT - 22MBAFM304)**

	PO1	PO2	PO3	PO4	PO5
C236.1	1				2
C236.2			2		
C236.3				3	
C236.4		2		2	

### **Course Name: C237 (RECRUITMENT AND SELECTION -22MBAHR303)**

	PO1	PO2	PO3	PO4	PO5
C237.1	1				2
C237.2		2			
C237.3			2	3	
C237.4		2		2	

### **Course Name: C238 (Industrial Relations And legislations -22MBAHR304)**

	PO1	PO2	PO3	PO4	PO5
C238.1	1				2
C238.2		2	2		
C238.3				3	
C238.4		2		2	



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C239 (Introduction to Python, Data and Control Systems -22MBABA303)**

	PO1	PO2	PO3	PO4	PO5
C239.1	1				2
C239.2		2	2		
C239.3				3	
C239.4		2		2	

### **Course Name: C2310 (EXPLORATORY DATA ANALYSIS FOR BUSINESS - 22MBABA304)**

	PO1	PO2	PO3	PO4	PO5
C2310.1	1				2
C2310.2		2	2		
C2310.3				3	
C2310.4		2		2	

### **Course Name: C2311 (INTERNSHIP- 22MBAIN307)**

	PO1	PO2	PO3	PO4	PO5
C2311.1	3	-	-	-	-
C2311.2	3	-	-	-	-
C2311.3		2	-	-	-
C2311.4		1	-	-	-
C2311.5		1	-	1	-

### **Course Name: C241 (International Business -22MBA401)**

	PO1	PO2	PO3	PO4	PO5
C241.1	1				2
C241.2			2		
C241.3				3	
C241.4		2		2	
C241.5		1			





**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi&Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24&Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C242 (INNOVATION AND DESIGN THINKING -22MBA402)**

	PO1	PO2	PO3	PO4	PO5
C242.1	2	1			2
C242.2			3		
C242.3					
C242.4		2	3	2	

### **Course Name: C243 (STRATEGIC BRAND MANAGEMENT -22MBAMM403)**

	PO1	PO2	PO3	PO4	PO5
C243.1	1				2
C243.2			2		
C243.3				3	
C243.4		2		2	

### **Course Name: C244 (INTEGRATED MARKETING COMMUNICATIONS - 22MBAMM404)**

	PO1	PO2	PO3	PO4	PO5
C244.1	1				
C244.2		1			
C244.3			1		2
C244.4				1	2

### **Course Name: C255 (GLOBAL FINANCIAL MANAGEMENT -22MBAFM403 )**

	PO1	PO2	PO3	PO4	PO5
C245.1	1				2
C245.2			2		
C245.3				3	
C245.4		2		2	



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi&Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24&Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C246 (MERGERS ACQUISITIONS AND CORPORATE RESTRUCTURING -22MBAFM404)**

	PO1	PO2	PO3	PO4	PO5
C246.1	2				
C246.2	1	2			
C246.3	1				
C246.4	1			3	1
C246.5		2			1
C246.6			1	3	1

### **Course Name: C247 (CONFLICT & NEGOTIATION MANAGEMENT -22MBAHR403)**

	PO1	PO2	PO3	PO4	PO5
C247.1	1				3
C247.2			2		
C247.3		1			
C247.4			1		

### **Course Name: C248 (Global HRM -22MBAHR404)**

	PO1	PO2	PO3	PO4	PO5
C248.1	1				2
C248.2			2		
C248.3				3	
C248.4		2		2	

### **Course Name: C249 (Machine learning - 22MBABA403)**

	PO1	PO2	PO3	PO4	PO5
C249.1	1				2
C249.2		2	2		
C249.3				3	
C249.4		2		2	



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi&Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24&Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **Course Name: C2410 (HR Analytics - 22MBABA404)**

	PO1	PO2	PO3	PO4	PO5
C2410.1	1				2
C2410.2		2	2		
C2410.3				3	
C2410.4		2		2	

### **Course Name: C2411 (Project Work -22MBAPR407)**

	PO1	PO2	PO3	PO4	PO5
C2411.1	3	-	-	-	1
C2411.2	2	2	-	-	-
C2411.3	2	-	-	-	-
C2411.4	2	1	-	-	-



**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.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

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

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

**CO-PO MAPPING**  
**Academic Year 2023-2024**  
**Index**

1.	MATHEMATICAL FOUNDATION FOR COMPUTER APPLICATIONS(22MCA11)
2.	OPERATING SYSTEM CONCEPTS(22MCA12)
3.	DATA STRUCTURES WITH ALGORITHMS(22MCA13)
4.	COMPUTER NETWORKS(22MCA14)
5.	DESIGN ANALYSIS OF ALGORITHM(22MCA15)
6.	RESEARCH METHODOLOGY AND IPR(22RMI18)
7.	BASICS OF PROGRAMMING & CO(22MCA110)
8.	DATABASE MANAGEMENT SYSTEM(22MCA21)
9.	OBJECT ORIENTED PROGRAMMING IN JAVA(22MCA22)
10.	SOFTWARE ENGINEERING(22MCA23)
11.	WEB TECHNOLOGIES(22MCA24)
12.	COMPUTER GRAPHICS WITH OPENGL(22MCA251)
13.	DATA MINING AND BUSINESS INTELLIGENCE(22MCA252)
14.	ENTERPRISE RESOURCE PLANNING(22MCA253)
15.	USER INTERFACE DESIGN(22MCA54)
16.	OPTIMIZATION TECHNIQUES(22MCA255)
17.	ARTIFICIAL INTELLIGENCE(22MCA262)
18.	CRYPTOGRAPHY AND NETWORK SECURITY(22MCA261)
19.	MOBILE APPLICATION DEVELOPMENT(22MCA263)
20.	DISTRIBUTED OPERATING SYSTEM(22MCA264)
21.	NATURAL LANGUAGE PROCESSING(22MCA265)
22.	DATA ANALYTICS USING PYTHON(22MCA31)
23.	INTERNET OF THINGS(22MCA32)
24.	BLOCKCHAIN TECHNOLOGY(22MCA331)
25.	CLOUD COMPUTING(22MCA332)
26.	OPERATING SYSTEMS-18CS654
27.	DIGITAL MARKETING(22MCA333)
28.	OBJECT ORIENTED MODELING AND DESIGN(22MCA334)
29.	NOSQL(22MCA335)
30.	KNOWLEDGE ENGINEERING(22MCA343)
31.	SOFTWARE TESTING(22MCA344)
32.	VIRTUAL REALITY(22MCA345)
33.	DEEP LEARNING(22MCA411)
34.	BIG DATA ANALYSIS(22MCA412)
35.	WIRELESS ADHOC NETWORKS(22MCA413)
36.	SOFTWARE PROJECT MANAGEMENT(22MCA414)



**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.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

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

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

37.	SOFTWARE DEFINED NETWORKS(22MCA415)
38.	IT PROJECT MANAGEMENT(22MCA421)
39.	SEMANTIC WEB AND SOCIAL NETWORK(22MCA422)
40.	AGILE TECHNOLOGIES(22MCA424)
41.	SOFTWAREMETRICS&QUALITYASSURANCE(22MCA425)
42.	PROJECT WORK-PHASE I22MCAL35
43.	PROJECT WORK-PHASE II22MCA44
44.	SEMINAR -22MCA43







**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.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

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

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

**Course Name: C202 OBJECT ORIENTED PROGRAMMING IN JAVA(22MCA22)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	3	1	1	2	-	-	-	-	-	-	-	-
C202.2	3	2	2	-	-	-	-	-	-	-	-	-
C202.3	3	3	2	2	-	-	-	-	-	-	-	-
C202.4	2	2	3	3	-	-	-	-	-	-	-	-
C202.5	2	2	2	3	-	-	-	-	-	-	-	-
C202.6	3	2	2	3	-	-	-	-	-	-	-	-

**Course Name: C203 SOFTWARE ENGINEERING(22MCA23)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	3	3	2	2	-	-	-	-	-	-	-	-
C203.2	2	3	2	1	-	-	-	-	-	-	-	-
C203.3	2	2	3	2	-	-	-	-	-	-	-	-
C203.4	2	2	1	2	-	-	-	-	-	-	-	-
C203.5	2	2	2	3	-	-	-	-	-	-	-	-
C203.6	2	2	3	2	-	-	-	-	-	-	-	-

**Course Name: C204 WEB TECHNOLOGIES(22MCA24)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	3	-	2	-	-	-	-	-	-	-	1
C204.2	3	2	2	1	-	-	-	-	-	-	-	-
C204.3	2	2	3	2	-	-	-	-	-	-	-	-
C204.4	2	3	3	2	-	-	-	-	-	-	-	-
C204.5	3	3	3	3	-	-	-	-	-	-	-	-
C204.6	2	2	3	3	-	-	-	-	-	-	-	-

**Course Name: C205 USER INTERFACE DESIGN(22MCA54)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	2	3	3	2	-	-	-	-	-	-	-	1
C205.2	3	3	2	-	2	-	-	-	-	-	-	-
C205.3	3	2	-	2	2	-	-	-	-	-	-	-
C205.4	3	2	2	2	-	-	-	-	-	-	-	1
C205.5	3	2	2	2	2	-	-	-	-	-	-	-
C205.6	2	1	2	2	2	-	-	-	-	-	-	1









## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### CO-PO MAPPING

#### Academic Year 2023-2024 (MECHANICAL)

##### Index

Sl. No.	List of Courses
1.	Elements Of Mechanical Engineering (BEMEM103)
2.	Computer Aided Engineering Drawing (BCEDK105)
3.	Engineering Mathematics III (BMAT31)
4.	Materials Science (BME302)
5.	Basic Thermodynamics(BME304)
6.	Mechanics of Materials(BME301)
7.	Metal Casting and Welding – (BME303)
8.	Computer Aided Machine Drawing(BME305A)
9.	Applied Thermodynamics BME401
10.	Machining Science & Metrology BME402
11.	Fluid Mechanics BME403
12.	Mechanical Measurements and Metrology Lab BME404
13.	Biology For Engineers BBOK407
14.	Theory of Machines 21ME51
15.	Thermo-fluids Engineering 21ME52
16.	Finite Element Analysis 21ME53
17.	Modern Mobility and Automotive Mechanics 21ME54
18.	Design lab 21MEL55
19.	Environmental Studies 21CIV57
20.	Production and Operations Management 21ME61
21.	Heat Transfer 21ME62
22.	Machine design 21ME63
23.	Professional Elective Course-I 21ME64x
24.	CNC Programming and 3-D Printing Lab 21MEL66
25.	Mini Project 21MEMP67
26.	Automation and Robotics 21ME71



## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

27.	Control Engg 21ME72
28.	Professional elective Course-II 21ME73X
29.	Professional elective Course-III 21ME74X
30.	Project work 21MEP76
31.	Professional Elective-II (automobile Engg) (18ME653)
32.	Heat Transfer Lab (18MEL67)
33.	Open Elective-II (Total Quality Management) (18ME664)
34.	Modeling and Analysis Lab (FEA) (18MEL68)
35.	Energy Engineering (18ME71)
36.	Fluid Power Systems (18ME72)
37.	Control Engineering (18ME73)
38.	Professional Elective - III (vibration) (18ME742)
39.	Professional Elective - III (SMART MATERIAL) (17ME745)
40.	Professional Elective-IV (Mechatronics) (18ME753)
41.	Design Lab (18MEL76)
42.	CIM Lab (18MEL77)
43.	Project Phase – I (18MEP78)
44.	Operations Research (18ME81)
45.	Additive Manufacturing (17ME82)
46.	Professional Elective - V Experimental Stress Analysis (17ME832)
47.	Project Phase – II (18ME85)
48.	SEMINAR (18MES86)



## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### CO PSO MAPPING 2023-24 (MECHANICAL)

Course Name: Elements of Mechanical Engineering (BEMEM103)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	2	-	-	-	-	-	-	-	-	1	-	1
C105.2	-	-	1	2	-	2	-	-	-	-	-	2
C105.3	-	2	-	-	-	-	-	-	-	1	-	2
C105.4	-	-	1	3	-	2	-	-	-	-	-	2
C105.5	2	-	-	1	-	3	-	-	-	1	-	2

Course Name: Computer Aided Engineering Drawing (BCEDK105)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	1	2	3	1	-	-	-	-	-	-	-	1
C104.2	2	1	3	2	-	-	-	-	-	-	-	1
C104.3	3	3	1	3	-	-	-	-	-	-	-	1
C104.4	3	1	1	3	-	-	-	-	-	-	-	1
C104.5	2	2	2	2	-	-	-	-	-	-	-	1

Course Name: Engineering Mathematics III (BMAT31)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201.1	3	3	3	2	2	-	-	-	-	-	-	3
C201.2	3	3	2	2	1	-	-	-	-	-	-	2
C201.3	3	3	2	2	1	-	-	-	-	-	-	2
C201.4	3	3	2	1	1	-	-	-	-	-	-	2
C201.5	3	3	3	2	2	-	-	-	-	-	-	3





**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

**Course Name: Computer Aided Machine Drawing (BME305)**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	1	1	-	1	1	-	-	-	-	-	-	1
C206.2	2	2	1	-	-	-	-	-	-	-	-	1
C206.3	3	2	-	1	-	-	-	-	-	-	-	1
C206.4	3	2	-	-	1	-	-	-	-	-	-	1
C206.5	-	-	-	2	-	-	-	-	-	-	-	1

**Course Name: Materials Testing Lab**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	1	1	2			1	-	-	-	-	-	1
C207.2	1	2	1	2		1	-	-	-	-	-	1
C207.3		1	1	1		-	-	-	-	-	-	1
C207.4	1	1				-	-	-	-	-	-	
C207.5		2	2	2		-	-	-	-	-	-	

**Course Name: Foundry and Forging Laboratory**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C208.1	-	1	2	-	-	-	-	-	-	-	-	-
C208.2	-	-	-	1	2	-	3	-	-	-	-	-
C208.3	1	-	2	3	-	-	-	-	-	-	-	-
C208.4	-	1	-	2	-	-	-	-	-	-	-	-
C208.5	-	2	1	-	-	-	-	-	-	-	-	-

**Course Name: Engineering Mathematics IV**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3	3	3	2	2	-	-	-	-	-	-	-
C211.2	3	3	2	2	1	-	-	-	-	-	-	-
C211.3	3	3	2	2	1	-	-	-	-	-	-	-
C211.4	3	3	2	1	1	-	-	-	-	-	-	-











## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: Design of Machine Elements - I

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	3	2	-	-	1	-	1	-	1	1	-
C304.2	3	3	2	-	-	1	-	1	-	1	1	-
C304.3	3	3	2	-	-	1	-	1	-	1	1	-
C304.4	3	3	2	-	-	1	-	1	-	1	1	-
C304.5	3	3	2	-	-	1	-	1	-	1	1	-

### Course Name: Non Traditional Machining (Professional Elective-I)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	1	-	-	-	-	1	-	-	-	-	-	-
C305.2	1	1	1	-	-	1	-	-	-	-	-	-
C305.3	-	1	2	-	-	1	-	-	-	-	-	-
C305.4	-	-	-	-	-	1	-	-	-	-	-	-
C305.5	-	1	2	-	-	1	-	-	-	-	-	-

### Course Name: Energy and Environment (Open Elective-I)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	1	1	1	1	-	1	-	-	-	-	-	-
C306.2	-	2	1	1	-	-	-	-	-	-	-	-
C306.3	1	1	1	2	-	1	-	-	-	-	-	-
C306.4	1	1	1	2	-	-	-	-	-	-	-	-
C306.5	1	2	1	1	-	-	-	-	-	-	-	-

### Course Name: Fluid Mechanics & Machinery Lab

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	2	1	1	3	3	-	-	-	-	-	-	1
C307.2	2	2	1	2	2	-	-	-	-	-	-	1
C307.3	2	1	1	1	1	-	-	-	-	-	-	1
C307.4	2	2	1	1	1	-	-	-	-	-	-	1
C307.5	2	1	1	3	2	-	-	-	-	-	-	1



## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: Energy Lab

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	1	1	1	2	2	1	1	-	-	-	-	1
C308.2	2	2	1	2	2	-	-	-	-	-	-	-
C308.3	2	1	1	1	1	1	1	-	-	-	-	1
C308.4	1	2	1	1	1	1	1	-	-	-	-	1
C308.5	2	1	1	2	2	-	1	-	-	-	-	-

### Course Name: Finite Element Analysis

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	2	1	2	3	1	-	-	-	-	-	-	1
C311.2	2	2	3	1	2	-	-	-	-	-	-	1
C311.3	2	1	2	2	1	-	-	-	-	-	-	2
C311.4	3	1	3	2	3	-	-	-	-	-	-	3
C311.5	3	2	3	2	3	-	-	-	-	-	-	3

### Course Name: Computer integrated manufacturing

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	2	-	-	-	-	-	-	-	-	-	-
C312.2	2	2	1	1	-	-	-	-	-	-	-	-
C312.3	2	3	2	1	-	-	-	-	-	-	-	-
C312.4	2	2	1	1	-	-	-	-	-	-	-	-
C312.5	2	2	2	2	2	-	-	-	-	-	-	1



## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: Heat Transfer

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	2	1	2	1	1	-	-	-	-	-	-	1
C313.2	2	2	3	1	2	-	-	-	-	-	-	1
C313.3	2	1	2	2	1	-	-	-	-	-	-	2
C313.4	3	1	3	2	3	-	-	-	-	-	-	3
C313.5	3	2	3	1	3	-	-	-	-	-	-	3

### Course Name: Design of Machine Elements -II

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	2	2	2	2	2	1	-	-	-	-	-	1
C314.2	1	2	2	2	1	-	-	-	-	-	-	1
C314.3	2	2	2	1	2	1	-	-	-	-	-	1
C314.4	1	2	2	1	1	2	-	-	-	-	-	1
C314.5	2	1	2	1	1	1	-	-	-	-	-	1

### Course Name: Professional Elective-II (automobile Engg)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	2	1	1	1	1	1	-	-	-	-	-	-
C315.2	2	2	1	1	2	-	-	-	-	-	-	-
C315.3	2	1	1	2	1	1	-	-	-	-	-	-
C315.4	3	1	1	2	3	-	-	-	-	-	-	-
C315.5	3	2	1	1	3	-	-	-	-	-	-	-



## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: Open Elective-II (Total Quality Management)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	1	1	1	1	-	1	-	-	-	-	-	-
C316.2	-	2	1	1	-	-	-	-	-	-	-	-
C316.3	1	1	1	2	-	1	-	-	-	-	-	-
C316.4	1	1	1	2	-	-	-	-	-	-	-	-
C316.5	1	2	1	1	-	-	-	-	-	-	-	-

### Course Name: Heat Transfer Lab

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	1	1	3	3	-	-	-	-	-	-	-	-
C317.2	1	2	3	3	-	-	-	-	-	-	-	-
C317.3	1	3	3	3	-	-	-	-	-	-	-	-
C317.4	1	3	1	3	-	-	-	-	-	-	-	-
C317.5	1	2	1	1	-	-	-	-	-	-	-	-

### Course Name: Modeling and Analysis Lab (FEA)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	2	2	1	1	1	-	-	-	-	-	-	-
C318.2	1	2	1	-	2	-	-	-	-	-	-	-
C318.3	1	1	1	1	2	-	-	-	-	-	-	-
C318.4	1	1	2	1	2	-	-	-	-	-	-	-
C318.5	1	2	2	2	2	-	-	-	-	-	-	-



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

**Course Name: Energy Engineering**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	1	2	-	-	-	-	-	-	-	-	1	-
C401.2	2	-	-	1	2	-	2	-	-	-	-	-
C401.3	2	-	2	-	-	-	-	-	-	-	1	-
C401.4	2	-	-	1	3	-	2	-	-	-	-	-
C401.5	2	1	-	-	1	-	3	-	-	-	1	-

**Course Name: Fluid Power Systems**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	1	-	-	1	1	1	-	-	-	-	-	-
C402.2	1	1	1	-	1	1	-	-	-	-	-	-
C402.3	-	1	2	-	-	1	-	-	-	-	-	-
C402.4	-	-	-	-	1	1	-	-	-	-	-	-
C402.5	-	1	2	-	1	1	-	-	-	-	-	-

**Course Name: Control Engineering**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	1	-	1	1	1	1	-	-	-	-	-	-
C403.2	1	1	1	-	1	1	-	-	-	-	-	-
C403.3	1	1	2	-	-	1	-	-	-	-	-	-
C403.4	1	-	-	-	1	1	-	-	-	-	-	-
C403.5	1	1	2	-	1	1	-	-	-	-	-	-

**Course Name: Professional Elective - III (vibration)**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	1	1	-	-	-	-	-	-	-	-	1	-
C404.2	2	2	2	1	2	-	2	-	-	-	-	-
C404.3	3	2	2	2	-	-	-	-	-	-	1	-
C404.4	2	2	1	-	3	-	2	-	-	-	-	-
C404.5	2	2	1	2	1	-	3	-	-	-	1	-



## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: Professional Elective - III (SMART MATERIAL)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	1	2	-	-	-	-	-	-	-	-	-	-
C405.2	2	-	-	1	2	-	2	-	-	-	-	-
C405.3	2	-	2	-	-	-	-	-	-	-	-	-
C405.4	2	-	-	1	3	-	2	-	-	-	-	-
C405.5	2	1	-	-	1	-	3	-	-	-	-	-

### Course Name: Professional Elective-IV (Mechatronics)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	-	-	1	-	-	1	-	-	-	-	-	-
C406.2	-	-	-	1	-	1	2	-	-	-	-	-
C406.3	1	-	2	-	-	-	-	-	-	-	-	-
C406.4	-	-	-	1	-	1	2	-	-	-	-	-
C406.5	1	-	1	-	-	1	3	-	-	-	-	-

### Course Name: Professional Elective-IV (Automotive)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	1	-	-	1	1	1	-	-	-	-	-	-
C407.2	1	1	1	-	1	1	-	-	-	-	-	-
C407.3	-	1	2	-	-	1	-	-	-	-	-	-
C407.4	-	-	-	-	1	1	-	-	-	-	-	-
C407.5		1	2	-	1	1	-	-	-	-	-	-





## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: Design Lab

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	1	-	2	3	-	-	-	-	-	-	-	-
C408.2	3	1	2	2	-	-	-	-	-	-	-	-
C408.3	3	1	3	1	-	-	-	-	-	-	-	-
C408.4	-	1	2	3	-	-	-	-	-	-	-	-
C408.5	-	-	3	2	-	-	-	-	-	-	-	-

### Course Name: CIM Lab

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C409.1	2	2	2	-	2	-	-	-	-	-	-	-
C409.2	2	1	1	1	2	-	-	-	-	-	-	-
C409.3	2	1	1	1	2	-	-	-	-	-	-	-
C409.4	2	1	1	1	2	-	-	-	-	-	-	-
C409.5	2	1	1	1	2	-	-	-	-	-	-	-

### Course Name: Project Phase – I

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	2	1	2	1	-	-	-	1	1	1	1	-
C410.2	2	1	2	1	-	-	-	2	3	-	1	-
C410.3	2	1	2	1	-	-	-	1	2	-	1	-
C410.4	2	1	2	1	-	-	-	2	1	-	1	-
C410.5	2	1	2	1	-	-	-	1	1	-	1	-



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

**Course Name: Operations Research**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	2	1	2	1	1	-	-	-	-	-	-	-
C411.2	2	2	3	1	2	-	-	-	-	-	-	-
C411.3	2	1	2	-	1	-	-	-	-	-	-	-
C411.4	3	1	-	1	3	-	-	-	-	-	-	-
C411.5	3	2	3	-	3	-	-	-	-	-	-	-

**Course Name: Additive Manufacturing**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	-	1	-	1	1	-	-	-	-	-	-	-
C411.2	-	-	1	1	2	-	-	-	-	-	-	-
C411.3	1	1	-	-	1	-	-	-	-	-	-	-
C411.4	-	1	-	1	-	-	-	-	-	-	-	-
C411.5	-	2	3	-	3	-	-	-	-	-	-	-

**Course Name: Professional Elective - V Experimental Stress Analysis**

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	-	1	-	1	1	-	-	-	-	-	-	-
C412.2	-	-	1	1	1	-	-	-	-	-	-	-
C412.3	1	1	-	-	1	-	-	-	-	-	-	-
C412.4	-	1	-	1	-	-	-	-	-	-	-	-
C412.5	-	2	3	-	1	-	-	-	-	-	-	-



## CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: Project Phase – II

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	2	1	2	1	-	-	-	1	1	-	1	-
C413.2	2	1	2	1	-	-	-	2	3	-	1	-
C413.3	2	1	2	1	-	-	-	1	2	1	1	-
C413.4	2	1	2	1	-	-	-	2	1	-	1	-
C413.5	2	1	2	1	-	-	-	1	1	-	1	-

### Course Name: SEMINAR

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	1	2	1	1	1	2	2	-	-	-	-	1
C414.2	1	2	1	1	1	2	-	-	-	-	-	1
C414.3	1	2	2	1	2	-	-	-	-	-	-	1
C414.4	1	2	2	2	2	-	-	-	-	-	-	1
C414.5	1	1	2	2	2	-	-	-	-	1	1	1



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f).

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [enqprincipal@theoxford.edu](mailto:enqprincipal@theoxford.edu) Web: [www.theoxfordenq.org](http://www.theoxfordenq.org)

### CO-PO MAPPING Academic Year 2023-2024 Index

Sl. No.	List of Courses
1.	Network Theory-18EC32
2.	Electronic Devices-18EC33
3.	Digital System Design -18EC34
4.	Computer organization-18EC35
5.	Power Electronics and Instrumentation-18EC36
6.	Analog Electronics Lab-18ECL37
7.	Digital Electronics Lab-18ECL38
8.	Analog Circuits-18EC42
9.	Control Systems-18EC43
10.	Signals and systems-18EC45
11.	Microcontrollers-18EC46
12.	Microcontroller lab-18ECL47
13.	Analog circuits Lab-18ECL48
14.	Management & Entrepreneurship-18ES51
15.	Digital Signal Processing -18EC52
16.	Principles of communication -18EC53
17.	Information Theory & Coding -18EC54
18.	Electromagnetic waves-18EC55
19.	Verilog HDL-18EC56
20.	DSP Lab-18ECL57
21.	HDL Lab-18ECL58
22.	Digital Communication-18EC61
23.	Embedded Systems-18EC62
24.	Microwave and Antennas-18EC63
25.	Python Applications and Programming-18EC646
26.	Operating systems-18CS654
27.	Embedded Lab-18ECL66
28.	CCN Lab-18ECL67
29.	18ECMP68 – Mini Project
30.	Computer Networks (C401)-18EC71
31.	VLSI Design (C402)-18EC72
32.	Satellite Communication (C403)-18EC73
33.	Machine Learning with Python (C404)-18EC745
34.	BMSP(C405)-18MT751
35.	(Advanced Communication Lab)-18ECL76
36.	VLSI Lab-18ECL77



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [enqprincipal@theoxford.edu](mailto:enqprincipal@theoxford.edu) Web: [www.theoxfordenqg.org](http://www.theoxfordenqg.org)

37.	Project Work-18ECP78
38.	Wireless and cellular Communication (C411)-18EC81
39.	Network Security (C412)-18EC821
40.	Radar Engineering (C413)-18EC823
41.	Internship-18ECI84
42.	Project Work-18ECP85
43.	Seminar -18ECS86













CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [enqprincipal@theoxford.edu](mailto:enqprincipal@theoxford.edu) Web: [www.theoxfordenqq.org](http://www.theoxfordenqq.org)

**Course Name: C304 (Computer Organisation-18EC54)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	2	3	1	-	-	-	-	-	-	-	-
C304.2	3	1	2	1	-	-	-	-	-	-	-	-
C304.3	2	3	-	2	-	-	-	-	-	-	-	-
C304.4	2	1	1	1	-	-	-	-	-	-	-	-

**Course Name: C305(EMW-18EC55)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	2	3	-	-	-	-	-	-	-	-	1
C305.2	2	3	3	-	-	-	-	-	-	-	-	-
C305.3	3	2	-	-	-	-	-	-	-	-	-	-
C305.4	3	2	-	-	-	-	-	-	-	-	-	-
C305.5	2	2	-	-	-	-	-	-	-	-	-	-
C305.6	3	2	-	-	-	-	-	-	-	-	-	1

**Course Name: C306(Verilog HDL-18EC56)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	3	3	2	1	-	-	-	-	-	-	-	1
C306.2	2	3	2	2	-	-	-	-	-	-	-	-
C306.3	3	2	2	1	-	-	-	-	-	-	-	-
C306.4	3	2	2	1	-	-	-	-	-	-	-	-
C306.5	2	2	2	1	-	-	-	-	-	-	-	-
C306.6	1	2	2	1	-	-	-	-	-	-	-	-

**Course Name: C307(DSD Lab-18ECL57)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	3	1	2	2	3	-	-	-	-	-	-	1
C307.2	2	3	2	2	2	-	-	-	-	-	-	-
C307.3	2	1	3	2	1	-	-	-	-	-	-	1
C307.4	3	2	3	2	2	-	-	-	-	-	-	-
C307.5	3	1	2	1	1	-	-	-	-	-	-	1
C307.6	2	1	3	2	1	-	-	-	-	-	-	-





CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -6175460/1/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### Course Name: C314(Python Application & Learning - 18EC646)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	3	2	2	2	-	-	-	-	-	-	-	1
C314.2	2	2	2	2	-	-	-	-	-	-	-	1
C314.3	3	2	1	1	-	-	-	-	-	-	-	-
C314.4	3	2	2	3	-	-	-	-	-	-	-	-
C314.5	3	2	2	2	-	-	-	-	-	-	-	-
C314.6	3	2	2	1	-	-	-	-	-	-	-	1

### Course Name: C315(Introduction to OS-18CS654)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	2	3	2	-	-	-	-	-	-	-	1
C315.2	2	3	2	1	-	-	-	-	-	-	-	-
C315.3	3	1	3	3	-	-	-	-	-	-	-	-
C315.4	3	1	1	1	-	-	-	-	-	-	-	1
C315.5	3	3	2	2	-	-	-	-	-	-	-	-
C315.6	2	2	2	2	-	-	-	-	-	-	-	1

### Course Name: C316 (Embedded Systems Lab-18ECL66)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	3	3	2	-	-	-	-	-	-	-	-
C316.2	2	3	1	1	-	-	-	-	-	-	-	-
C316.3	3	2	3	2	-	-	-	-	-	-	-	-
C316.4	1	1	2	2	-	-	-	-	-	-	-	-
C316.5	1	2	3	2	-	-	-	-	-	-	-	-
C316.6	1	2	3	3	-	-	-	-	-	-	-	-

### Course Name: C317(CCN Lab - 18ECL67)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	3	3	2	-	-	-	-	-	-	-	-
C317.2	3	2	2	1	-	-	-	-	-	-	-	-
C317.3	2	2	3	2	-	-	-	-	-	-	-	-
C317.4	2	3	3	2	-	-	-	-	-	-	-	1
C317.5	2	3	3	1	-	-	-	-	-	-	-	1
C317.6	2	2	2	1	-	-	-	-	-	-	-	1

### Course Name: C318 (18ECMP68 – Mini Project)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	3	3	1	3	2	-	-	-	2	2	3	2



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080-61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

C318.2	3	3	1	3	2	-	-	-	2	2	2	2
C318.3	3	2	2	2	2	-	-	-	2	2	2	2
C318.4	2	3	2	2	2	-	-	-	2	2	3	2
C318.5	2	2	2	2	2	-	-	-	2	2	3	2
C318.6	2	2	1	2	2	-	-	-	2	2	3	2

Course Name:C401(Computer Networks-18EC71)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	2	3	2								2
C401.2	3	3	2	2								
C401.3	2	1	3	3								2
C401.4	2	1	2	2								
C401.5	2	3	2	3								2

Course Name:C402(VLSI-18EC72)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	2	3									1
C402.2	3	3	2									
C402.3	3	2	2									
C402.4	3	3	2									

Course Name: C403 (SatCom-18EC732)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	2	2	1		-	-	-	-	-	-	
C403.2	3	3	2	2		-	-	-	-	-	-	1
C403.3	2	2	3	1		-	-	-	-	-	-	1
C403.4	3	2	2	3		-	-	-	-	-	-	
C403.5	3	2	2	3	2							

Course Name: C404Python-18EC745)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	3	2	3	3	3							1
C404.2	3	3	2	3	3							
C404.3	3	2	2	2	2							
C404.4	3	3	2	2	3							

Course Name: C405 (Biomedical -18MT751)



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C405.1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>							<b>2</b>
<b>C405.2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>							<b>2</b>
<b>C405.3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>							<b>2</b>
<b>C405.4</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>							<b>2</b>

### Course Name: C406 (CN LAB-18ECL76 )

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C406.1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	-	-	-	-	-	-	<b>1</b>
<b>C406.2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	-	-	-	-	-	-	<b>1</b>
<b>C406.3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	-	-	-	-	-	-	<b>1</b>
<b>C406.4</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	-	-	-	-	-	-	<b>1</b>
<b>C406.5</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	-	-	-	-	-	-	<b>1</b>

### Course Name:C407 (VLSI Lab-18ECL77)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C407.1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	-	-	-	-	-	-	<b>1</b>
<b>C407.2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	-	-	-	-	-	-	-
<b>C302.3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	-	-	-	-	-	-	-
<b>C407.4</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	-	-	-	-	-	-	-
<b>C407.5</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	-	-	-	-	-	-	-
<b>C407.6</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	-	-

### Course Name:C408(Project work-18ECP78)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C408.1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	-	-	-	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>C408.2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	-	-	-	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>C408.3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	-	-	-	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>C408.4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	-	-	-	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>C408.5</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	-	-	-	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>C408.6</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	--	--	--	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>

### Course Name:C411(LTE & wireless communication 18EC81)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>C411.1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>2</b>	-	-	-	-	-	-	-	<b>1</b>
<b>C411.2</b>	<b>3</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	-	-	-	-
<b>C411.3</b>	<b>3</b>	<b>2</b>	-	-	<b>2</b>	-	-	-	-	-	<b>1</b>	-
<b>C411.4</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	-	-	-	-
<b>C411.5</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	-	-	<b>1</b>

### Course Name: C412(Fibre optical networks- 18EC82)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
--	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [enqprincipal@theoxford.edu](mailto:enqprincipal@theoxford.edu) Web: [www.theoxfordenq.org](http://www.theoxfordenq.org)

C412.1	3	2	2	2	2					1		2
C412.2	3	3	2	2	2					2	2	2
C412.3	3	2	3	2	3					2	2	2
C412.4	2	2	3	2	2					2	2	2
C412.5	2	2	3	2	2					2	2	2

### Course Name:C413(Radar Engineering-18EC833)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.5	3	2			2	1	1			1		2
C413.5	2	3	2	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	1			2	2	2
C413.5	3	2			2	1	1			1		2

### Course Name:C414(Internship-18ECI84)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	2	3	3					3	2	2	2
C414.2	2	3	2	3					3	2	3	2
C414.3	1	3	2	2					3	2	2	2
C414.4	3	2	3	2					3	3	2	2
C414.5	1	1	2	1					3	2	2	2
C414.6	3	1	2	1					3	2	2	2

### Course Name:C415(Project-18ECP85)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	2	2	3	3	3				3	2	2	2
C415.2	2	2	2	3	3				3	2	2	2
C415.3	1	2	2	2	3				3	2	2	2
C415.4	2	2	2	2	2				3	2	2	2
C415.5	1	1	2	1	3				3	2	2	2
C415.6	1	1	2	1	2				3	2	2	2

### Course Name:C416(Seminar-18ECS86)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C416.1	2	3	2	2	-	-	-	-	1	2	2	2
C416.2	2	2	2	1	-	-	-	-	1	2	2	2
C416.3	2	2	3	2	-	-	-	-	1	2	2	2
C416.4	3	1	2	2	-	-	-	-	1	2	2	2
C416.5	2	3	3	1	-	-	-	-	1	2	2	2
C416.6	2	2	2	2	-	-	-	-	1	2	2	2



**CHILDREN'S EDUCATION SOCIETY (Regd.)**

Administrative Office:

1<sup>st</sup> Phase, JP Nagar, Bengaluru – 560 078

☎: 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 A.I.C.T.E. New Delhi & Recognized by UGC Under Section 2(f),

Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24 & Diamond Rating by QS I Guage)

Bommanahalli, Hosur Road, Bangalore –560 068. ☎: 080 -61754601/602

E-mail: [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu) Web: [www.theoxfordengg.org](http://www.theoxfordengg.org)

### **PO MAPPING**

#### **ACADEMIC YEAR 2023-2024**

#### **DEPARTMENT OF SCIENCE AND HUMANITIES**

Sl. No.	List of Courses
1.	MATHEMATICS-I FOR CIVIL ENGG STREAM- BMATC101
2.	MATHEMATICS-I FOR MECHANICAL ENGG STREAM- BMATM101
3.	MATHEMATICS-I FOR CSE ENGG STREAM- BMATS101
4.	MATHEMATICS-I FOR CIVIL ENGG STREAM- BMATC101
5.	PHYSICS FOR CSE STREAM BPHYS102/202
6.	PHYSICS FOR EEE STREAM BPHYE102/202
7.	PHYSICS FOR ME STREAM BPHYE102/202
8.	PHYSICS FOR CIVIL STREAM BPHYC102/202
9.	CHEMISTRY FOR CSE/EE/CV/ME STREAM BCHE*101/102
10.	COMPUTER AIDED ENGINEERING DRAWING- BCEDK103
11.	INTRODUCTION TO ELECTRICAL ENGINEERING BESCK104B
12.	INTRODUCTION TO WEB PROGRAMMING- BPLCK105A
13.	INTRODUCTION TO PYTHON PROGRAMMING-BPLCK105B
14.	COMMUNICATIVE ENGLISH BENGK106
15.	SAMSKRUTHIKA KANNADA-BKSKK107
16.	BALAKE KANNADA-BKBKK107
17.	SCIENTIFIC FOUNDATIONS OF HEALTH-BSFHK158
18.	MATHEMATICS-II FOR CIVIL ENGG STREAM- BMATC201
19.	MATHEMATICS-II FOR MECHANICAL ENGG STREAM- BMATM201
20.	MATHEMATICS-II FOR CSE ENGG STREAM- BMATS201
21.	MATHEMATICS-II FOR CIVIL ENGG STREAM- BMATC201
22.	PROFESSIONAL WRITING SKILLS IN ENGLISH-BPWSK206
23.	BASIC ELECTRONICS- BBEE203
24.	INTRODUCTION TO C PROGRAMMING- BESCK204E
25.	INTRODUCTION TO INTERNET OF THINGS- BETCK205H
26.	INDIAN CONSTITUTION- BICOK207
27.	INNOVATION AND DESIGN THINKING- BIDTK258
28.	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES- 21MAT31
29.	AV MATHEMATICS-III FOR EC ENGINEERING-BMATEC301



<b>30.</b>	MATHEMATICS-III FOR EE ENGINEERING- BMATEC301
<b>31.</b>	MATHEMATICS-III FOR CS ENGINEERING-BCS301
<b>32.</b>	COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS-21MAT41
<b>33.</b>	COMPLEX ANALYSIS, PROBABILITY AND LINEAR PROGRAMMING– 21MATME41
<b>34.</b>	MATHEMATICAL FOUNDATIONS FOR COMPUTING, PROBABILITY AND STATISTIC– 21MATCS41
<b>35.</b>	DISCRETE MATHEMATICAL STRUCTURES-BCS405
<b>36.</b>	BIostatistics AND LAB +TOOLS-BBT402

<b>BMATC101</b>							
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>
<b>CO1</b>	3	2	2	1	-	-	-
<b>CO2</b>	3	2	1	1	-	-	-
<b>CO3</b>	3	3	2	1	1	-	-
<b>CO4</b>	2	2	2	2	-	-	-
<b>CO5</b>	2	2	1	2	-	-	-
<b>Total</b>	2.6	2.2	1.6	1.4	0.2		

<b>BMATM101</b>							
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>
<b>CO1</b>	3	2	2	1	-	-	-
<b>CO2</b>	3	2	1	1	-	-	-
<b>CO3</b>	3	3	2	1	1	-	-
<b>CO4</b>	2	2	2	2	-	-	-
<b>CO5</b>	2	2	1	2	-	-	-
<b>Total</b>	2.6	2.2	1.6	1.4	0.2		

<b>BMATS101</b>							
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>
<b>CO1</b>	3	2	2	1	-	-	-
<b>CO2</b>	3	2	1	1	-	-	-
<b>CO3</b>	3	3	2	1	1	-	-
<b>CO4</b>	2	2	2	2	-	-	-
<b>CO5</b>	2	2	1	2	-	-	-
<b>Total</b>	2.6	2.2	1.6	1.4	0.2		



<b>BPHYC102</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	3	2									2
<b>CO2</b>	3	3	3									2
<b>CO3</b>	3	3	3									3
<b>CO4</b>	3	3	3									3
<b>CO5</b>	3	3	3									3

<b>BPHYM102</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	3	2									2
<b>CO2</b>	3	3	3									2
<b>CO3</b>	3	3	3									3
<b>CO4</b>	3	3	3									3
<b>CO5</b>	3	3	3									3

<b>BCHE*101/102</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	1	1				1					
<b>CO2</b>	3	1	1				1					
<b>CO3</b>	3	1	1				1					
<b>CO4</b>	3	1	1				1					
<b>CO5</b>	3	1	1				1					





**Course Name:C105(BPLCK105B- Introduction to Python Programming)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

**Course Name:C106(BENCK106-Communicative English)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2
C106.3	-	-	-	-	-	-	-	-	2	2	-	2
C106.4	-	-	-	-	-	-	-	-	2	2	-	2
C106.5	-	-	-	-	-	-	-	-	2	2	-	2

**Course Name:C107(SAMSKRUTHIKA KANNADABKSKK107)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-		-	-	-	-	-	2	2	-	-
C107.2	-	-		-	-	-	-	-	2	2	-	-
C107.3	-	-		-	-	-	-	-	2	2	-	-
C107.4	-	-		-	-	-	-	-	2	2	-	-
C107.5	-	-		-	-	-	-	-	2	2	-	-

**Course Name:C107(BALAKE KANNADA-BKBKK107)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	2
C107.2	-	-	-	-	-	-	-	-	2	2	-	2
C107.3	-	-	-	-	-	-	-	-	2	2	-	2
C107.4	-	-	-	-	-	-	-	-	2	2	-	2
C107.5	-	-	-	-	-	-	-	-	2	2	-	2



**Course Name:C108(Scientific Foundations of Health-BSFHK158)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108.1				-	-	-	-	-	3	2	-	2
C108.2				-	-	-	-	-	3	2	-	2
C108.3				-	-	-	-	-	3	2	-	2
C108.4				-	-	-	-	-	3	2	-	2
C108.5				-	-	-	-	-	3	2	-	2

<b>BMATC201</b>												
	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO10	PO11	PO12
<b>CO1</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO2</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO3</b>	3	2	3	2	2	-	-	-	-	-	-	2
<b>CO4</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>CO5</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>Total</b>	3	2	2.2	1	1.6	-	-	-	-	-	-	2

<b>BMATM201</b>												
	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO10	PO11	PO12
<b>CO1</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO2</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO3</b>	3	2	3	2	2	-	-	-	-	-	-	2
<b>CO4</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>CO5</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>Total</b>	3	2	2.2	1	1.6	-	-	-	-	-	-	2

<b>BMATS201</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO2</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO3</b>	3	2	3	2	2	-	-	-	-	-	-	2
<b>CO4</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>CO5</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>Total</b>	3	2	2.2	1	1.6	-	-	-	-	-	-	2

<b>BMATE201</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO2</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO3</b>	3	2	3	2	2	-	-	-	-	-	-	2
<b>CO4</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>CO5</b>	3	2	2	1	2	-	-	-	-	-	-	2
<b>Total</b>	3	2	2.2	1	1.6	-	-	-	-	-	-	2

<b>BPWSK206</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	-	-	-	-	-	-	-	-	2	3	-	1
<b>CO2</b>	-	-	-	-	-	-	-	-	2	3	-	1
<b>CO3</b>	-	-	-	-	-	-	-	-	2	3	-	1
<b>CO4</b>	-	-	-	-	-	-	-	-	3	3	-	2
<b>CO5</b>	-	-	-	-	-	-	-	-	2	3	-	1



**Course Name:C115(BETCK205H-Introduction to Internet of Things (IOT))**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
C115.1	3	2	2	-	-	-	-	-	-	-	-	-
C115.2	2	3	2	-	-	-	-	-	-	-	-	-
C115.3	2	2	2	-	-	-	-	-	-	-	-	-
C115.4	2	2	2	2	-	-	-	-	-	-	-	-
C115.5	2	2	2	2	-	-	-	-	-	-	-	-

**Course Name:C117(BICOK207-Indian Constitution)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
C117.1	-	-	-	-	-	-	-	-	2	2	-	2
C117.2	-	-	-	-	-	-	-	-	2	2	-	2
C117.3	-	-	-	-	-	-	-	-	2	2	-	2
C117.4	-	-	-	-	-	-	-	-	2	2	-	2
C117.5	-	-	-	-	-	-	-	-	2	2	-	2



<b>BMATE301</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	3	3	2	-	-	-	-	-	-	-	2
<b>CO2</b>	3	2	2	1	-	-	-	-	-	-	-	2
<b>CO3</b>	3	2	3	2	1	-	-	-	-	-	-	2
<b>CO4</b>	3	3	2	2	2	-	-	-	-	-	-	2
<b>CO5</b>	3	2	2	2	1	-	-	-	-	-	-	2

<b>BCS301</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	3	1	1	1	-	-	-	-	-	-	-
<b>CO2</b>	3	2	2	1	2	-	-	-	-	-	-	1
<b>CO3</b>	3	2	2	1	2	-	-	-	-	-	-	-
<b>CO4</b>	3	2	1	1	2	-	-	-	-	-	-	1
<b>CO5</b>	3	3	1	1	1	-	-	-	-	-	-	-

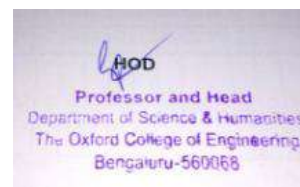
<b>22MAT41</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	3	1	2	2	-	-	-	-	-	-	2
<b>CO2</b>	3	3	2	1	1	-	-	-	-	-	-	2
<b>CO3</b>	3	2	2	2	1	-	-	-	-	-	-	2
<b>CO4</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO5</b>	3	2	2	2	1	-	-	-	-	-	-	2
<b>Total</b>	3	2.4	2	1.6	1.2							2

<b>22MATME41</b>												
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	3	3	1	2	2	-	-	-	-	-	-	2
<b>CO2</b>	3	3	2	1	1	-	-	-	-	-	-	2
<b>CO3</b>	3	2	2	2	1	-	-	-	-	-	-	2
<b>CO4</b>	3	2	2	1	1	-	-	-	-	-	-	2
<b>CO5</b>	3	2	2	2	1	-	-	-	-	-	-	2
<b>Total</b>	3	2.4	2	1.6	1.2							2

22MATCS41												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	1	2	2	-	-	-	-	-	-	2
CO2	3	3	2	1	1	-	-	-	-	-	-	2
CO3	3	2	2	2	1	-	-	-	-	-	-	2
CO4	3	2	2	1	1	-	-	-	-	-	-	2
CO5	3	2	2	2	1	-	-	-	-	-	-	2
<b>Total</b>	3	2.4	2	1.6	1.2							2

BCS405A												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	1	2	-	-	-	-	-	-	2
CO2	3	3	1	1	1	-	-	-	-	-	-	2
CO3	3	1	2	1	1	-	-	-	-	-	-	2
CO4	3	3	1	2	1	-	-	-	-	-	-	2
CO5	3	2	2	2	1	-	-	-	-	-	-	2

BBT402												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	1	-	1	-	-	-	-	-	1
CO2	3	2	2	1	-	1	-	-	-	-	-	1
CO3	3	3	2	1	-	1	-	-	-	-	-	1



**HOD-S&H**