A. List of Open Electives offered by All the branches of Bachelor of Engineering for the academic year 2023-24

S. No.	Department offered by	Course Name	Course Code	No. of credits	Who can opt
U22OEXXXX--Open Elective-I					
1	Civil	Green Buildings	U22OE 310CE	2	B.E.III Semester all Branches except Civil
2	CSE	Mathematics For Artificial Intelligence	U22OE 310CS	2	B.E.III Semester all Branches except CSE
3	CSE	Basics of Java Programming	U22OE 320CS	2	B.E.III Semester all Branches except CSE
4	ECE	Introduction to Signals and Systems	U22OE 310EC	2	B.E.III Semester all Branches except ECE
	ECE	Sensors for Engineering Applications	U22OE 320EC	2	B.E.III Semester all Branches except ECE
5	EEE	Non-Conventional Energy Sources	U22OE 310EE	2	B.E.III Semester all Branches except EEE
6	IT	Fundamentals of Data Structures	U22OE 310IT	2	B.E.III Semester all Branches except IT
7	IT	Introduction to Linux	U22OE 320IT	2	B.E.III Semester all Branches except IT
8	Mech.	Introduction to Unmanned Aerial Vehicles	U22OE 310ME	2	B.E.III Semester all Branches except Mech
9	Mech.	Introduction to Industrial Robotics	U22OE 320ME	2	B.E.III Semester all Branches except Mech
10	Mech.	Introduction to Automobile Engineering	U22OE 330ME	2	B.E.III Semester all Branches except Mech
11	Maths	Linear Algebra	U22OE 310MA	2	B.E.III Semester all Branches
12	Chemistry	Battery science and Technology	U22OE 310CH	2	B.E.III Semester all Branches
13	Chemistry	Corrosion science and it's application	U22OE 320CH	2	B.E.III Semester all Branches
14	Physics	Smart Materials & Applications	U22OE 310PH	2	B.E.III Semester all Branches
15	H&SS	Learning To Learn	U22OE 310EH	2	B.E.III Semester all Branches
U22OEXXXXX- Open Elective-II					
16	Civil	Solid Waste Management	U22OE 410CE	3	B.E.IV Semester all Branches except Civil
17	CSE	Principles of Python Programming	U22OE 430CS	3	B.E.IV Semester all Branches except CSE
18	ECE	Mathematical Programming for Engineers	U22OE 410EC	3	B.E.IV Semester all Branches except ECE
19	ECE	Principles of Communication Engineering	U22OE 420EC	3	B.E.IV Semester all Branches except ECE
20	EEE	Solar Power and applications	U22OE 410EE	3	B.E.IV Semester all Branches except EEE

S. No.	Department offered by	Course Name	Course Code	No. of credits	Who can opt
21	IT	Introduction to Object Oriented Programming	U22OE410IT	3	B.E.IV Semester all Branches except IT
22	IT	Introduction to Scripting Languages	U22OE420IT	3	B.E.IV Semester all Branches except IT
23	Mech.	Design Principles of UAVs	U22OE410ME	3	B.E.IV Semester all Branches except Mech
24	Mech.	Kinematics and Dynamics of Robotics	U22OE420ME	3	B.E.IV Semester all Branches except Mech
25	Mech.	Optimization Methods	U22OE430ME	3	B.E.IV Semester all Branches except Mech
26	HSS	Critical Thinking	U22OE430EH	3	B.E.IV Semester all Branches
U21OEXXXXX- Open Elective-III					
27	Civil	Spatial Information Technology	U21OE510CE	3	B.E.V Semester all Branches except Civil
28	CSE	Web Designing	U21OE510CS	3	B.E.V Semester all Branches except CSE
29	CSE	Fundamentals of Object-Oriented Programming	U21OE520CS	3	B.E.V Semester all Branches except CSE
30	ECE	Introduction to Biomedical Electronics	U21OE510EC	3	B.E.V Semester all Branches except ECE
31	ECE	Introduction to Communication Systems	U21OE540EC	3	B.E.V Semester all Branches except ECE
32	EEE	Solar Power and applications	U21OE510EE	3	B.E.V Semester all Branches except EEE
33	Mech.	Introduction to Robotics	U21OE510ME	3	B.E.V Semester all Branches except Mech.
34	Mech.	Introduction to Automobile Engineering	U21OE520ME	3	B.E.V Semester all Branches except Mech.
35	Mech.	Basics of Entrepreneurship	U21OE530EH	3	B.E.V Semester all Branches except Mech.
36	IT	Introduction to Database Management Systems	U21OE510IT	3	B.E.V Semester all Branches except IT.
37	IT	Introduction to Statistical Programming	U21OE520IT	3	B.E.V Semester all Branches except IT.
38	Phy.	Thin Film Technology and Applications	U21OE51OPH	3	B.E.V Semester all Branches
39	H&SS	Design Thinking	U21OE530EH	3	B.E.V Semester all Branches
40	HSS	Technical Writing and Professional Presentations	U21OE020EH	3	B.E.V Semester all Branches
U21OEXXXXX--Open Elective-IV					
41	Civil	Project Management	U21OE610CE	3	B.E.VI Semester all Branches except Civil
42	CSE	Introduction to Data Bases	U21OE610CS	3	B.E.VI Semester all Branches except CSE
43	CSE	Introduction to Operating Systems	U21OE620CS	3	B.E.VI Semester all Branches except CSE

S. No.	Department offered by	Course Name	Course Code	No. of credits	Who can opt
	ECE	Internet of Things and Applications	U21OE610EC	3	B.E.VI Semester all Branches except ECE
44	ECE	Introduction to Wireless Communications	U21OE620EC	3	B.E.VI Semester all Branches except ECE
45	EEE	Mathematical Programming for Numerical Computation	U21OE610EE	3	B.E.VI Semester all Branches except EEE
46	IT	Web application development & Security	U21OE610IT	3	B.E.VI Semester all Branches except IT
47	IT	Introduction to Machine Learning	U21OE620IT	3	B.E.VI Semester all Branches except IT
48	IT	Fundamentals of Machine Learning	U21OE630IT	3	B.E.VI Semester all Branches except IT
49	Mech.	Additive Manufacturing and its Applications	U21OE610ME	3	B.E.VI Semester all Branches except Mech.
50	Mech.	Alternative Fuels and Energy Systems	U21OE620ME	3	B.E.VI Semester all Branches except Mech.
51	Mech.	Industrial Administration and Financial Management	U21OE630ME	3	B.E.VI Semester all Branches except Mech.
52	Mech.	Advanced Course in Entrepreneurship	U21OE620EH	3	B.E.VI Semester all Branches except Mech.

B. List of Open Electives offered to all the branches of Postgraduate Engineering students for the Academic Year 2023-24.

S.No.	Department offered by	Course Code	Course Name	No. of credits	Who can opt
P23OE2XXXX--Open Elective					
1	H&SS	P23OE210XX	Business Analytics	3	All Postgraduate Engineering Students
2	Mech	P23OE220ME	Industrial Safety	3	All Postgraduate Engineering Students
3	Mech	P23OE230ME	Operations Research	3	All Postgraduate Engineering Students
4	Mech	P23OE240ME	Cost Management of Engineering Projects	3	All Postgraduate Engineering Students
5	Mech	P23OE250ME	Composite Materials	3	All Postgraduate Engineering Students
6	EEE	P23OE260EE	Waste to Energy	3	All Postgraduate Engineering Students
7	CSE/IT	P23OE270CS	Fundamentals of Python Programming	3	All Postgraduate Engineering Students

C. List of Audit Courses offered to the branches of Postgraduate Engineering students.

S. No.	Department offered by	Course Code	Course Name	No. of credits	Who can opt
P23AC1XXXX- Audit Course-I					
1	H&SS	P23AC 110EH	English for Research Paper Writing	0	All Postgraduate Engineering Students
2	H&SS	P23AC 120XX	Value Education	0	All Postgraduate Engineering Students
3	H&SS	P23AC 130XX	Stress Management by Yoga	0	All Postgraduate Engineering Students
4	H&SS	P23AC 140XX	Sanskrit for Technical Knowledge	0	All Postgraduate Engineering Students
P23AC2XXXX -Audit Course-II					
1	H&SS	P23AC 210EH	Pedagogy Studies	0	All Postgraduate Engineering Students
2	H&SS	P23AC 220XX	Personality Development Through Life Enlightenment Skills	0	All Postgraduate Engineering Students
3	H&SS	P23AC 230XX	Constitution of India	0	All Postgraduate Engineering Students
4	Civil	P23AC 240XX	Disaster Management	0	All Postgraduate Engineering Students