

**Autonomous Program Structure**  
**Final Year B. Tech. Eighth Semester Computer Engineering**  
**Academic Year: 2023-2024 Onwards**

Course Code	Course Title	Teaching Scheme Hours /Week			Examination Scheme				Marks	Credit
		Lecture	Tutorial	Practical	In Semester	End Semester	Oral	Practical		
20CE801	Information Security	3	0	0	50	50	0	0	100	3
20PECE801	Program Elective-IV	3	0	0	50	50	0	0	100	3
20PECE802	Program Elective-V	3	0	0	50	50	0	0	100	3
20OE801	Open Elective-III	3	0	0	50	50	0	0	100	3
20OE802	Open Elective-IV*	3	0	0	50	50	0	0	100	3
20CE801L	Information Security Laboratory	0	0	4	25	0	25	0	50	2
20PECE801L	Program Elective-IV Laboratory	0	0	2	25	0	25	0	50	1
	<b>Total</b>	<b>15</b>	<b>0</b>	<b>6</b>	<b>300</b>	<b>250</b>	<b>50</b>	<b>0</b>	<b>600</b>	<b>18</b>
	<b>Grand Total</b>	<b>21</b>			<b>600</b>					<b>18</b>

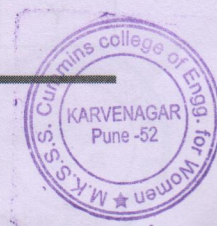
Programme Elective-IV	Programme Elective-IV Laboratory
20PECE801A Introduction to Natural Language Processing	20PECE801LA Introduction to Natural Language Processing
20PECE801B User Experience Design (UX/UI)	20PECE801LB User Experience Design (UX/UI)
20PECE801C Multimedia Systems	20PECE801LC Multimedia Systems
20PECE801D Artificial Intelligence	20PECE801LD Artificial Intelligence
20PECE801E Internet of Things	20PECE801LE Internet of Things

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**APPROVED BY**

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Secretary, Computer Engineering  
MKSSS's Cummins College of Engineering  
For Women, Pune-411052

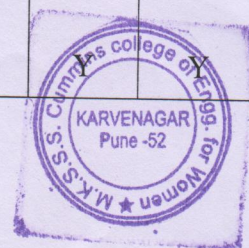
**Chairman Governing Body**  
MKSSS's Cummins College of Engineering  
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Programme Elective-IV	Programme Elective-IV Laboratory
20PECE801A Introduction to Natural Language Processing 20PECE801B User Experience Design (UX/UI) 20PECE801C Multimedia Systems 20PECE801D Artificial Intelligence 20PECE801E Internet of Things	20PECE801LA Introduction to Natural Language Processing 20PECE801LB User Experience Design (UX/UI) 20PECE801LC Multimedia Systems 20PECE801LD Artificial Intelligence 20PECE801LE Internet of Things

Programme Elective-V
20PECE802A Operation Research 20PECE802B Distributed Systems 20PECE802C Information Retrieval 20PECE802D Parallel Computing 20PECE802E Introduction to Blockchain

20OE801 Open Elective-III			Eligible Departments				
Sr. No.	Course Code	Course Title	EnTC	Comp	IT	Mech	Instru
1	20OE801A	Big Data and Analytics	Y	Y	Y	Y	Y
2	20OE801B	Cyber Physical Systems	Y	Y	Y	N	Y
3	20OE801C	Digital Control	Y	N	N	Y	Y
4	20OE801D	Industrial Engineering and Management	Y	Y	Y	Y	Y
5	20OE801E	Introduction to Cyber-crime and Forensics	Y	Y	Y	Y	Y
6	20OE801F	Instrumentation in Food and Agriculture	Y	Y	Y		



7	20OE801G	Medical IoT	Y	Y	Y	N	Y
8	20OE801H	Quantum Computing	Y	Y	Y	N	Y
9	20OE801I	Renewable Energy Sources	Y	Y	Y	Y	Y
10	20OE801J	Soft Computing	Y	Y	Y	Y	Y
11	20OE801K	Software Testing and Quality Assurance	Y	Y	Y	Y	Y

20OE802 Open Elective-IV * Multi-disciplinary Course			Eligible Departments				
Sr. No.	Course Code	Course Title	EnTC	Comp	IT	Mech	Instru
1	20OE802A	Applied statistics with R Programming	Y	N	N	Y	Y
2	20OE802B	Automobile Engineering	Y	Y	Y	N	Y
3	20OE802C	Autonomous Robots	N	Y	Y	Y	N
4	20OE802D	Building Automation and Energy Audit	Y	Y	Y	Y	N
5	20OE802E	Data Analysis and Visualization	Y	N	Y	Y	Y
6	20OE802F	Data Science using Python	Y	N	Y	Y	Y
7	20OE802G	Industrial Drives and Control	Y	Y	Y	Y	N
8	20OE802H	Smart Sensors and Structures	Y	Y	Y	Y	N
9	20OE802I	Wireless Networks	N	Y	Y	N	Y

