D. Y. Patil College of Engineering and Technology

Kasaba Bawada, Kolhapur

(An Autonomous Institute) Accredited by NAAC with 'A' Grade

M. Tech Programme Structure

Department of Computer Science and Engineering 2020-21

First Year M. Tech. Computer Science & Engineering

SEMESTER- I

Sr. No.	Course Code	Course Type	Name of the Course	Teaching Scheme per Week					Evaluation Scheme			
				Lecture	Tutorial	Practical	Credits	Total Marks	Type	Max. Marks	Min. Marks for Passing	
1	202CSL601	PC	Mathematical Foundations of Computer Science	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
2	202CSL602	PC	Advanced Data Structures	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
3	202CSL603 202CSL604 202CSL605	PE	Program Elective I	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
4	202CSL608 202CSL609 202CSL610	PE	Program Elective II	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
5	202CSL613	ESC	Research Methodology and IPR	2	-	-	2	50	ISE	50	20	20
6	202CSP614	PC	Laboratory I (Based on Program Core courses)	-	-	4	2	25	ISE - Lab	25	10	10
7	202CSP615	PE	Laboratory II (Based on Program Elective courses)	-	-	4	2	25	ISE - Lab	25	10	10
8	202CSMXXX	HSMC	Audit Course	-	2	-	-	-	-	-	-	-
			Total:	14	2	8	18	500		500		
					24							

ISE: In Semester Evaluation, MSE: Mid Semester Examination, ESE: End Semester Examination

Note: ESE will be conducted for 100 marks and converted to 50 marks

Program Elective-I			Program Elective-II		
1.	202CSL603	Machine Learning	1.	202CSL608	Distributed System and Cloud Computing
2.	202CSL604	Data Preparation and Analysis	2.	202CSL609	Data Storage Technologies and Networks
3.	202CSL605	Block Chain Technology	3.	202CSL610	Smart Technology and Internet of Things

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Teaching and Evaluation Scheme from Year 2020-21

First Year M. Tech. Computer Science & Engineering

SEMESTER- II

Sr. No.	Course Code	Course Type	Name of the Course	Lecture	Tutorial	Practical	Credits	Total Marks	Type	MaxMarks	Min. Marks for Passing	
1	202CSL631	PC	Software Architectures	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
2	202CSL632	PC	Network Engineering and Management	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
3	202CSL633 202CSL634 202CSL635	PE	Program Elective – III	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
4	202CSL638 202CSL639 202CSL640	PE	Program Elective - IV	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
5	202CSP643	PC	Laboratory III (Based on Program Core courses)	-	-	4	2	25	ISE - Lab	25	10	10
6	202CSP644	PE	Laboratory IV (Based on Program Elective courses)	-	-	4	2	25	ISE - Lab	25	10	10
7	202CSP645	PROJ	Pre-Dissertation Seminar	-	2	-	2	50	ISE	50	20	20
8	202CSMYYY	MC	Audit Course	-	2	-	-	-	-	-	-	-
			Total:	**12**	**4**	**8**	**18**	**500**		**500**		
					24							

ISE: In Semester Evaluation, MSE: Mid Semester Examination, ESE: End Semester Examination

Note: ESE will be conducted for 100 marks and converted to 50 marks

	Program Elective-III				**Program Elective-IV**	
1.	202CSL633	Secure Software Design and Enterprise Computing	**1.**	202CSL638	Human and Computer Interaction
2.	202CSL634	Cyber Security and Digital Forensics	**2.**	202CSL639	Knowledge Discovery
3.	202CSL635	Security Assessment and Risk Analysis	**3.**	202CSL640	Quantum Computing

Audit Course

1.	202CSM616	English for Research Paper Writing
2.	202CSM617	Disaster Management
3.	202CSM618	Sanskrit for Technical Knowledge
4.	202CSM619	Value Education
5.	202CSM620	Constitution of India
6.	202CSM621	Pedagogy Studies
7.	202CSM622	Stress Management by Yoga
8.	202CSM623	Personality Development through Life Enlightenment Skills

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Teaching and Evaluation Scheme from Year 2021-22

Second Year M. Tech. Computer Science & Engineering

SEMESTER-III*

Sr. No.	Course Code	Course Type	Name of the Course	Teaching Scheme per Week				Total Marks	Evaluation Scheme			
				Lecture	Tutorial	Practical	Credits		Type	Max.Marks	Min. Marks for Passing	
1	202CSL701	PE	Program Elective – V*	-	2	-	2	100	ISE	100	40	**40**
2	202CSL711	OE	Open Elective*	-	2	-	2	100	ISE	100	40	40
3	202CSP721	PROJ	Dissertation Phase - I	-	-	24	12	100	ISE	50	20	**40**
									ESE-OE	50	20	
			Total:	**0**	**4**	**24**	**16**	**300**		**300**		
					28							

*Students going for Industrial Project/Thesis will complete these courses through MOOCs

Open Elective:

1. 202CSL711 Business Analytics
2. 202CSL712 Industrial Safety
3. 202CSL713 Operations Research
4. 202CSL714 Cost Management of Engineering Projects
5. 202CSL715 Composite Materials
6. 202CSL716 Waste to Energy.

D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KOLHAPUR

Teaching and Evaluation Scheme from Year 2020-21

Second Year M. Tech. Computer Science & Engineering

SEMESTER-IV

Sr. No.	Course Code	Course Type	Name of the Course	Teaching Scheme per Week				Total Marks	Evaluation Scheme		
				Lecture	Tutorial	Practical	Credits		Type	Max.Mark	Min. Marks for Passing
1	202CSP723	PROJ	Dissertation Phase- II	0	0	32	16	**200**	ISE	100	40
									ESE - OE	100	40
			Total:	**0**	**0**	**32**	**16**	**200**		**200**	
					32						

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Note 1:

- Tutorials and practical's shall be conducted in batches with batch size of 9 students.
- For Pre-Dissertation Seminar, work load will be for two students.
- Every student should submit the Dissertation synopsis within first week of S. Y. M Tech, (Sem-III)
- Dissertation Phase-I, Dissertation phase-II work load will be for one student.

Note 2:

- Open Elective course can be chosen from the given list. However, any other Open Elective course can be chosen provided the said course is available is MOOC form and it is to be chosen with prior permission from the department head.
- Program Elective V is to be chosen by the students based on the domain related to the dissertation topic with prior permission from the guide.
- Audit courses in first and second semester are to be chosen by the students from the given list of audit courses, distinct for each semester.

Evaluation Methods:

1. **In Semester Evaluation (ISE-Theory) 20 marks:** ISE-1 and ISE-2 can be done by using following modes
- ✓ Surprise test
- ✓ Self learning topic
- ✓ Case study
- ✓ Assignments
- ✓ Active learning methods

2. **ISE (Lab) 25 marks**: Lab assessment is to be done using continuous assessment method.

3. **Mid Semester Examination (MSE)** will be conducted for 30 marks.

4. **End Semester Examination (ESE) 50 marks: -** ESE will be conducted on entire syllabus for 100 marks for 3 hours duration and converted to 50 marks.