



D. Y. Patil College of Engineering and Technology,

Kasaba Bawada Kolhapur

(An Autonomous Institute)

NBA Accredited

NAAC Accredited with 'A' Grade

Second Year Syllabus

of

**M. Tech. in Computer Science &
Engineering**

**Department of Computer Science &
Engineering**

2024-25

M. Tech. CSE Scheme of Teaching and Examination w. e. f. A. Y. 2024-2025

D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KOLHAPUR
Teaching and Evaluation Scheme from Year 2024-25
Second Year M. Tech. - Computer Science & Engineering
SEMESTER - III

Sr. No.	Course Code	Course Type	Name of the Course	TEACHING SCHEME			CRE DITS	Total Marks	Evaluation Scheme			
				L	T	P			Type	Max. Marks	Minimum Marks For Passing	
1	231CSEL516-231CSEL532+	OEC	Open Elective-II (SWAYAM/NPTEL)	-	2	2	3	100	ESE	100	40	40
2	232CSEP601	ELC	Seminar-III	-	-	2	1	50	ISE	50	20	20
3	232CSEP602	ELC	Dissertation Phase – I	-	-	28	14	200	ISE	100	40	40
									ESE-OE	100	40	40
TOTAL				-	2	32	18	350				

NOTE:-

For **Open Elective-II**: The students can choose course from **Open Elective Bucket** list and study on their own by registering to SWAYAM/NPTEL/NPTEL+ Portal which is multidisciplinary in nature (other than the course related to CSE Stream). The student should complete the course assignments and appear the examination conducted by SWAYAM/NPTEL/NPTEL+. ESE Marks will be mapped as per the score mentioned on the SWAYAM/NPTEL/NPTEL+ Course completion certificate issued by SWAYAM/NPTEL/NPTEL+.

D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KOLHAPUR
Teaching and Evaluation Scheme from Year 2024-25
Second Year M. Tech. - Computer Science & Engineering
SEMESTER - IV

Sr. No.	Course Code	Course Type	Name of the Course	TEACHING SCHEME			CRE DITS	Total Marks	Evaluation Scheme			
				L	T	P			Type	Max. Marks	Minimum Marks for Passing	
2	232CSEP603	ELC	Dissertation Phase– II	-	-	36	18	300	ISE	100	40	40
									ESE-OE	200	80	80
TOTAL				0	0	36	18	300				

SEMESTER-III

Course Title : Open Elective-II	
Course Code : 231CSEL516- 231CSEL532+	Semester : III
Teaching Scheme : L-T-P : 0-2-2	Credits : 3
Evaluation Scheme : ISE+MSE : NA	ESE Marks : 100

- Students should choose Open Elective-II from the list of Open Elective Bucket courses and completed through the SWAYAM/NPTEL/NPTEL+ MOOCs platform.
- The Course should of the duration of 12 weeks and 3 credits.
- Student can also choose any other SWAYAM or NPTEL course of 12 weeks other than the list of Open Elective Bucket courses in multidisciplinary domain other than CSE with prior permission from the department.
- The student should complete the course assignments and appear to the Examination conducted by SWAYAM/NPTEL/NPTEL+. ESE Marks out of 100 will be mapped as per the score mentioned on the Course completion certificate issued by SWAYAM/NPTEL/NPTEL+.
- In case, student fails then he/she should have to enroll again to the same course chosen earlier and complete it with certificate issued by SWAYAM/NPTEL/NPTEL+. In exceptional case, Head of the department is responsible to set the policy of the evaluation marks of ESE.
- Credits can be transferred from the Academic Bank of Credits.

Open Electives Bucket

Course Code	Course Name	Weblinks
231CSEL516	Text, Textuality and Digital Media	https://elearn.nptel.ac.in/shop/nptel/text-textuality-and-digital-media/
231CSEL517	Water and waste water treatment	https://elearn.nptel.ac.in/shop/nptel/water-and-waste-water-treatment/
231CSEL518	Science, Technology and Society	https://elearn.nptel.ac.in/shop/nptel/science-technology-and-society/
231CSEL519	Patent Law For Engineers And Scientists	https://elearn.nptel.ac.in/shop/nptel/patent-law-for-engineers-and-scientists/

231CSEL520	Non-conventional energy Resources	https://elearn.nptel.ac.in/shop/nptel/non-conventional-energy-resources/
231CSEL521	Literature, Culture and Media	https://elearn.nptel.ac.in/shop/nptel/literature-culture-and-media/
231CSEL522	Introduction to Modern Indian Political Thought	https://elearn.nptel.ac.in/shop/nptel/introduction-to-modern-indian-political-thought/
231CSEL523	Introduction to Political Theory	https://elearn.nptel.ac.in/shop/nptel/introduction-to-political-theory/
231CSEL524	Financial Management For Managers	https://elearn.nptel.ac.in/shop/nptel/financial-management-for-managers/
231CSEL525	Ecology and Society	https://elearn.nptel.ac.in/shop/nptel/ecology-and-society/
231CSEL526	Dairy and Food Process and Products Technology	https://elearn.nptel.ac.in/shop/nptel/dairy-and-food-process-and-products-technology/
231CSEL527	Soil Fertility And Fertilizers	Prof. Somsubhra Chakraborty, IIT Kharagpur
231CSEL528	Natural Resources Management	Prof. Sudip Mitra, IIT Guwahati
231CSEL529	Irrigation and Drainage	Prof. Damodhara Rao Mailapalli, IIT Kharagpur
231CSEL530	Municipal Solid Waste Management	Prof. Ajay Kalamdhad, IIT Guwahati
231CSEL531	Introduction To Wireless And Cellular Communications	Prof. David Koilpillai
231CSEL532	Science Of Clothing Comfort	Prof. Apurba Das

Course Title : Seminar-III	
Course Code : 232CSEP601	Semester : III
Teaching Scheme : L-T-P : 0-0-2	Credits : 1
Evaluation Scheme : ISE Marks : 50	

- Each student is required to deliver a seminar presentation on literature review done for the synopsis topic.
- Publish the review paper based on the literature review to the International conference/Journal/National conference.

Course Title : Dissertation Phase – I	
Course Code : 232CSEP602	Semester : III
Teaching Scheme : L-T-P : 0-0-28	Credits : 14
Evaluation Scheme : ISE Marks : 100	ESE- OE Marks : 100

- The students should identify a research topic for dissertation work based from the area of the interest and complete at least 50% of the proposed work as mentioned in the approved synopsis.
- The Dissertation synopsis will be reviewed by Department Research committee (DRC). The reviewed synopsis with inclusion of given suggestions by DRC, will further be forwarded to the Expert Committee for approval.
- In case, the synopsis and title is not approved, the candidate has to prepare a new synopsis with new title as the case may be and submit to the department. Such synopsis shall be reviewed by DRC and will be placed in front of the expert committee meeting in the beginning of next semester.
- Progress report/s should be submitted based on the work done after evaluation in the mid of semester and at the end of the semester.
- ISE marks will be given based on the continuous assessment.
- There shall be ESE-OE for 100 marks and the examination will be conducted by a panel of teachers appointed by HoD.
- **Note:** The Academic Rules and regulations concerned with PG Dissertation (6.16) available on the institute website will be strictly followed.

SEMESTER-IV

Course Title : Dissertation Phase – II	
Course Code : 232CSEP603	Semester : IV
Teaching Scheme : L-T-P : 0-0-36	Credits : 18
Evaluation Scheme : ISE Marks : 100	ESE- OE Marks : 200

- The students should complete the dissertation work as mentioned in the approved synopsis.
- Mid Semester progress presentation will be conducted based on the work done after dissertation phase-I.
- One technical paper is to be prepared and published in Journals of good standard / IEEE Conferences with inclusion of results with consultation of the concerned guide.
- One Copyright/Patent/Book chapter is to be prepared and published with consultation of the concerned guide.
- ISE will be given based on the continuous assessment.
- There shall be ESE-OE for 200 marks and the examination will be conducted by a panel of teachers consisting of an External examiner and the Guide.
- **Note:** The Academic Rules and regulations concerned with PG Dissertation (6.16) available on the institute website will be strictly followed.