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सत्यमेव जयते



स्वातंत्र्याचा अमृत महोत्सव

Govt. of Maharashtra
GOVT. COLLEGE OF ENGINEERING, KARAD
(An Autonomous Institute of Govt. of Maharashtra)
Vidyanagar, Karad -415124 Dist.- Satara

B. Tech. in Civil Engineering with Honors and Multidisciplinary Minor

Government College of Engineering, Karad

PROPOSED SCHEME OF INSTRUCTION

Programme: Honors and Multidisciplinary Minor

- Selection of the relevant MOOC course should be with the prior permission of Head of Department
- To get B. Tech in Civil Engineering with Honors and Multidisciplinary Minor student need to earn extra 18 credits by completing 5 courses (One course / semester) as mentioned below.
- Honor courses can be completed through online platforms (NPTEL/ SWAYAM).
- Duration of MOOC Course should be 8-12 weeks.
- Students can choose any one specialization given by the department and complete all the assigned courses under the specialization to earn total 194 credits which consists of 176 credits of regular Multidisciplinary Minor courses and 18 credits of Honor courses.
- Student should complete the MOOC course certification and submit the copy of certificate to controller of examinations, GCE, Karad through program coordinator.

Honors basket name	Sr. No.	Course Code	Course Title	Credits	Major Semester
Structural engineering	1	CEHM-0401	Structural vibrations	03	IV
	2	CEHM-0501	Dynamics of structure	04	V
	3	CEHM-0601	Finite element method	04	VI
	4	CEHM-0701	Finite element method and computational structural dynamics	03	VII
	5	CEHM-0801	Major Capstone Project (Design & Development)	04	VIII
Remote sensing and GIS	1	CEHM-0402	Remote sensing essentials	03	IV
	2	CEHM-0502	Remote sensing and GIS	04	V
	3	CEHM-	Remote sensing and GIS	04	VI

		0602	for rural development		
	4	CEHM-0702	Advanced geomatics engineering	03	VII
	5	CEHM-0802	Major Capstone Project (Design & Development)	04	VIII
Geotechnical Engineering	1	CEHM-0403	Geosynthetics and reinforced soil structures	03	IV
	2	CEHM-0503	Subsurface exploration-importance and techniques	04	V
	3	CEHM-0603	Soil dynamics	04	VI
	4	CEHM-0703	Rock mechanics and tunnelling	03	VII
	5	CEHM-0803	Major Capstone Project (Design & Development)	04	VIII
Environmental Management and Engineering	1	CEHM-0404	Plastic waste management	03	IV
	2	CEHM-0504	Municipal solid waste management	04	V
	3	CEHM-0604	Environmental remediation of contaminated sites	04	VI
	4	CEHM-0704	Integrated waste management for smart city	03	VII
	5	CEHM-0804	Major Capstone Project (Design & Development)	04	VIII
Transportation Engineering	1	CEHM-0405	Pavement construction technology	03	IV
	2	CEHM-0505	Geometric design of highways	04	V
	3	CEHM-0605	Traffic engineering	04	VI
	4	CEHM-0705	Sustainable transportation system	03	VII
	5	CEHM-0805	Major Capstone Project (Design & Development)	04	VIII

PROGRESSIVE TOTAL CREDITS: 18



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B. Tech. in Civil Engineering with Honors with Research and Multidisciplinary Minor

Government College of Engineering, Karad

PROPOSED SCHEME OF INSTRUCTION

Programme: Honors with Research and Multidisciplinary Minor

The student will work on Research Project or Dissertation for 18 Credits in the Fourth Year in respective discipline. The distribution of 18 credits for Research project in Sem-VII and Sem-VIII is given below.

To get B. Tech in Civil Engineering with Honors with Research and Multidisciplinary Minor student need to earn total 194 Credits which consists of 176 credits of regular Multidisciplinary Minor courses and 18 credits of Research courses.

(Major: Semester – VII)

Sr. No.	Course Code	Course Title	L	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME		
							PBE-I	PBE-II	TOTAL
1	CEHRO-0701	Research Project Phase -I	--	18	18	09	100	100	200
		Total	--	18	18	09	100	100	200

(Major: Semester – VIII)

Sr. No.	Course Code	Course Title	L	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME		
							PBE-I	PBE-II	TOTAL
1	CEHRO-0802	Research Project Phase -II	--	18	18	09	100	100	200
		Total	--	18	18	09	100	100	200

L- Lecture

P-Practical

FA- Formative Assessment SA - Summative Assessment (For Laboratory End Semester performance) PBE-I- Project-based Examination (For Laboratory Mid Semester Performance)

PBE- II Project-based Examination (For Laboratory End Semester Performance)

PROGRESSIVE TOTAL CREDITS: 18

Guidelines:-

- Selection of the relevant MOOC course should be with the prior permission of Head of Department.
- Duration of MOOC Course should be 8-12 weeks.
- Student should complete the MOOC course certification and submit the copy of certificate to controller of examinations, GCE, Karad through program coordinator.

Students will work on research project for 18 credits in the semester VII –VIII in the respective Major Engineering/Technology discipline. These 18 credits will be

over and above the 176 credits prescribed for four year multidisciplinary bachelor's degree in Engg/Tech Program.



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B. Tech. in Civil Engineering with Double Minors (Multidisciplinary and Specialization Minors)

Government College of Engineering, Karad

PROPOSED SCHEME OF INSTRUCTION

Programme: Double Minors (Multidisciplinary and Specialization Minors)

- Selection of the relevant MOOC course should be with the prior permission of Head of Department.
- To get B. Tech in Civil Engineering with Double Minors (Multidisciplinary and Specialization Minors) student need to earn extra 18 credits by completing minor courses
- Minor courses can be completed through online platforms. (NPTEL/SWAYAM).
- Duration of MOOC Course should be 8-12 weeks.
- Students can choose any one specialization given by the department and completer all the six courses under the specialization to earn total 194 credits which consists of 176 credits of regular Multidisciplinary Minor courses and 18 credits of Honor courses.
- Student should complete the MOOC course certification and submit the copy of certificate to controller of examinations, GCE, Karad through program coordinator.

Double minor basket name	Sr. No.	Course Code	Course Title	Credits	Major Semester
Construction Management	1	CEDM-0401	Basic Construction Materials	03	IV
	2	CEDM-0501	Project planning and control	04	V
	3	CEDM-0601	Construction method and equipment management	04	VI
	4	CEDM-0701	Principles of construction management	03	VII
	5	CEDM-0801	Major Capstone Project (Design & Development)	04	VIII

PROGRESSIVE TOTAL CREDITS: 18

Guidelines: -Students will take up to 5–6 additional courses in another Engineering/ Technology/ Emerging Area of Specialization of 18 credit distributed

over semester III –VIII. These 18 credits will be over and above the 176 credits prescribed for four-year multidisciplinary bachelor's degree in Engg/Tech Program.