B. Tech. in Electronics and Telecommunication Engineering with Honors and Multidisciplinary Minor

(Internet of Things)

Government College of Engineering, Karad
PROPOSED SCHEME OF INSTRUCTION
Programme: Honors and Multidisciplinary Minor
(Internet of Things)

- Selection of the relevant MOOC course should be with the prior permission of Head of Department
- To get B. Tech in Electronics and Telecommunication with Honors and Multidisciplinary Minor (Internet of Things) 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 .

Sr. No.	Course Code	Course Title	Credits	Major Semester
1	EXHM-0401	Introduction to Internet of Things	04	IV
2	EXHM-0501	Introduction to Security of Cyber Physical Systems	04	V
3	EXHM-0601	Sensing, Computing and Communication	04	VI
4	EXHM-0701	Embedded Systems for IoT	03	VII
5	EXHM-0801	IoT with Arduino, ESP, and Raspberry Pi	03	VIII

PROGRESSIVE TOTAL CREDITS: 18

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B. Tech. in Electronics and Telecommunication 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 Electronics and Telecommunication 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	EXHRM-0701	Intellectual Property Rights (MOOC)	--	--	--	03	--	--	--
2	EXHRO-0702	Research Project Phase - I	--	12	12	06	100	100	200
		Total	**--**	**12**	**12**	**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	EXHRO-0801	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.

B. Tech. in Electronics and Telecommunication 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 Electronics and Telecommunication 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

Sr. No.	Course Code	Course Title	Credits	Major Semester
1	EXDM-0401	Signal and Systems	04	IV
2	EXDM-0501	Digital Signal Processing	04	V
3	EXDM-0601	Multi-rate Signal Processing	04	VI
4	EXDM-0701	Image and Video Processing	03	VII
5	EXDM-0801	Speech Processing	03	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 credits 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.