

# Government College of Engineering, Karad

## SCHEME OF INSTRUCTION & SYLLABI

Programme: Electrical Engineering

Proposed Scheme of Instructions: Final Year B. Tech. in Electrical Engineering

Semester – VII (Mode-1-Academic) (w.e.f. 2026-27)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PCC	EE3701	Switchgear and Protection	3	--	--	3	3	20	20	60	100
2	PCC	EE3702	EHVAC and HVDC Transmission	3	--	--	3	3	20	20	60	100
3	EL	RM3703	Research Methodology	3	--	--	3	3	20	20	60	100
4	PEC	EE37*4	Industrial/Program Elective -04	2	--	--	2	2	20	20	60	100
5	PEC	EE37*5	Program Elective -05	2	--	--	2	2	20	20	60	100
6	MDM	##	Multi-Disciplinary Minor -05	2	--	--	2	2	20	20	60	100
7	PCC	EE3707	Switchgear and Protection Lab	-	-	2	2	1		25	25	50
8	PCC	EE3708	Power System Lab	--	--	2	2	1	--	25	-	25
9	PEC	EE37*9	Industrial /Program Elective -04 Lab	--	--	2	2	1	--	25	--	25
10	EL	EE3710	Major Project	--	--	08	08	4	-	25	75	100
<b>Total</b>				<b>15</b>	<b>0</b>	<b>14</b>	<b>29</b>	<b>22</b>	<b>120</b>	<b>220</b>	<b>460</b>	<b>800</b>

##:- Any Course offered from Dept. /Inst. level MDM buckets.

L- Lecture

T-Tutorial

P-Practical

MSE- Mid Semester Examination

ISE/CA- In Semester Evaluation/Continuous Assessment

ESE- End Semester Examination (For Laboratory End Semester performance)


Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular program (OE/MDM)	Vocational and Skill Enhancement Course (VSEC)	Humanities Social Science and Management (HSSM)	Experiential Learning (EL)	Co-curricular And Extracurricular Activities (CCA)
Credits	-	-	08	05	02	-	-	07	-
Cumulative Sum	16	14	60	15	20	05	12	10	02

**PROGRESSIVE TOTAL CREDITS: 132+22 =154**

Note:

- Students must choose either Mode 1 or Mode 2 at the beginning of Semester VII.
- Mode-1 students are permitted to enrol in MOOC courses of Semester VIII during Semester VII with prior approval of the respective Head of Department. The results of these MOOC courses will be considered in Semester VIII.
- Students for industrial elective lab will be selected on the basis of merit.



  
**CHAIRMAN**  
 Board of Studies  
 Department Of Electrical Engineering  
 Government College of Engineering, Karad

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## SCHEME OF INSTRUCTION & SYLLABI

Programme: Electrical Engineering

Proposed Scheme of Instructions: Final Year B. Tech. in Electrical Engineering

Semester – VII (Mode-2-Internship) (w.e.f. 2026-27)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PEC	EE3711	MOOC - I	-	-	-	--	3	-		100	100
2	PEC	EE3712	MOOC - II	-	-	-	--	3	-		100	100
3	EL	EE3713	Internship	--	--	--	-	12	-	250	250	500
4	MDM	##	Multi-disciplinary Minor – 05	2	--	--	2	2	20	20	60	100
<b>Total</b>				<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>20</b>	<b>270</b>	<b>510</b>	<b>800</b>

##:- Any Course offered from Dept. /Inst. level MDM buckets.

L- Lecture    T-Tutorial    P-Practical, MSE- Mid Semester Examination  
End Semester Examination (For Laboratory End Semester performance)

ISE/CA- In Semester Evaluation/Continuous Assessment    ESE-


Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular program (OE/MDM)	Vocational and Skill Enhancement Course (VSEC)	Humanities Social Science and Management (HSSM)	Experiential Learning (EL)	Co-curricular And Extracurricular Activities (CCA)
<b>Credits</b>	-	-	--	<b>06</b>	<b>02</b>	-	-	<b>12</b>	-
<b>Cumulative Sum</b>	<b>16</b>	<b>14</b>	<b>52</b>	<b>16</b>	<b>20</b>	<b>05</b>	<b>12</b>	<b>15</b>	<b>02</b>

**PROGRESSIVE TOTAL CREDITS: 132+20 =152**

Note:

- 1: Students must choose either Mode 1 or Mode 2 at the beginning of Semester VII.
2. For MDM 5 Industry mode students, lectures will be conducted in online mode (with the flexibility of sharing recorded lectures) while MSE & ESE evaluation will be in offline mode.



  
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SCHEME OF INSTRUCTION & SYLLABI

Programme: Electrical Engineering

Proposed Scheme of Instructions: Final Year B. Tech. in Electrical Engineering

Semester – VIII (Mode-2-Academic) (w.e.f. 2026-27)

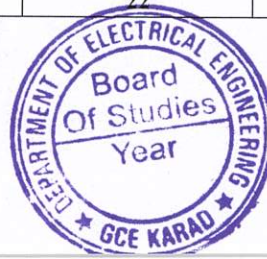
Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PCC	EE3801	Switchgear and Protection	3	--	--	3	3	20	20	60	100
2	PCC	EE3802	EHVAC and HVDC Transmission	3	--	--	3	3	20	20	60	100
3	EL	RM3803	Research Methodology	3	--	--	3	3	20	20	60	100
4	PEC	EE38*4	Industrial /Program Elective -04	2	--	--	2	2	20	20	60	100
5	PEC	EE38*5	Program Elective -05	2	--	--	2	2	20	20	60	100
6	MDM	##	Multi-Disciplinary Minor -06	2	--	--	2	2	20	20	60	100
7	PCC	EE3807	Switchgear and Protection Lab	-	-	2	2	1		25	25	50
8	PCC	EE3808	Power System Lab	--	--	2	2	1	--	25	-	25
9	PEC	EE38*9	Industrial /Program Elective -04 Lab	--	--	2	2	1	--	25	--	25
10	EL	EE3810	Major Project	--	--	08	08	4	-	25	75	100
			<b>Total</b>	<b>15</b>	<b>0</b>	<b>14</b>	<b>29</b>	<b>22</b>	<b>120</b>	<b>220</b>	<b>460</b>	<b>800</b>

##:- Any Course offered from Dept. /Inst. level MDM buckets.

L- Lecture, T-Tutorial, P-Practical, MSE- Mid Semester Examination ISE/CA- In Semester Evaluation/Continuous, Assessment ESE- End Semester Examination (For Laboratory End Semester performance)

Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular program (OE/MDM)	Vocational and Skill Enhancement Course (VSEC)	Humanities Social Science and Management (HSSM)	Experiential Learning (EL)	Co-curricular And Extracurricular Activities (CCA)
Credits	-	-	08	05	02	-	-	07	-
Cumulative Sum	16	14	66	15	22	05	12	22	02

**PROGRESSIVE TOTAL CREDITS: 152+22 =174**



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## SCHEME OF INSTRUCTION & SYLLABI

Programme: Electrical Engineering

Proposed Scheme of Instructions: Final Year B. Tech. in Electrical Engineering

Semester – VIII (Mode-1-Internship) (w.e.f. 2026-27)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PEC	EE3811	MOOC - I	-	-	-	--	3	-		100	100
2	PEC	EE3812	MOOC - II	-	-	-	--	3	-		100	100
3	EL	EE3813	Internship	--	--	--	-	12	-	250	250	500
4	MDM	##	Multi-disciplinary Minor – 06	2	--	--	2	2	20	20	60	100
<b>Total</b>				<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>20</b>	<b>270</b>	<b>510</b>	<b>800</b>

##:- Any Course offered from Dept. /Inst. level MDM buckets.

L- Lecture Assessment

T-Tutorial P-Practical MSE- Mid Semester Examination

ISE/CA- In Semester Evaluation/Continuous

ESE- End Semester Examination (For Laboratory End Semester performance)

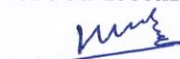
Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular program (OE/MDM)	Vocational and Skill Enhancement Course (VSEC)	Humanities Social Science and Management (HSSM)	Experiential Learning (EL)	Co-curricular And Extracurricular Activities (CCA)
<b>Credits</b>	-	-	--	<b>06</b>	<b>02</b>	-	-	<b>12</b>	-
<b>Cumulative Sum</b>	<b>16</b>	<b>14</b>	<b>60</b>	<b>21</b>	<b>22</b>	<b>05</b>	<b>12</b>	<b>22</b>	<b>02</b>

**PROGRESSIVE TOTAL CREDITS: 154+20 =174**

**Note :**

For MDM 6 Industry mode students, lectures will be conducted in online mode (with the flexibility of sharing recorded lectures) while MSE & ESE evaluation will be in offline mode.



  
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