

# Government College of Engineering, Karad

## SCHEME OF INSTRUCTION & SYLLABI

Programme: Electrical Engineering

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

Semester – I(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	BSC	EE3101	Engineering Chemistry	3	--	--	3	3	20	20	60	100
2	BSC	EE3102	Linear algebra and Calculus	3	1	--	4	4	20	20	60	100
3	ESC	EE3103	Basic Electronics Engineering	3	--	--	3	3	20	20	60	100
4	ESC	EE3104	Programming for problem solving	3	--	--	3	3	20	20	60	100
5	ESC	EE3105	Design Thinking	1	--	2	3	2	-	50	-	50
6	ESC	EE3107	Programming for problem solving Lab	--	--	2	2	1	-	25	25	50
7	HSSM	EE3108	Professional Communication Skills	1	--	2	3	2	-	50	25	75
8	CCA	EE3110	Yoga	--	--	2	2	1	-	50	-	50
9	VSEC	MS3112	Maker Space Lab-I	--	--	4	4	2	-	75	25	75
10	BSC	EE3113	Engineering Chemistry Lab	--	--	2	2	1	-	50	25	75
			<b>Total</b>	<b>14</b>	<b>1</b>	<b>14</b>	<b>29</b>	<b>22</b>	<b>80</b>	<b>380</b>	<b>340</b>	<b>800</b>

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)
<b>Credits</b>	<b>08</b>	<b>09</b>	-	-	-	<b>02</b>	<b>02</b>	-	<b>01</b>
<b>Cumulative Sum</b>	<b>08</b>	<b>09</b>	-	-	-	<b>02</b>	<b>02</b>	-	<b>01</b>

**PROGRESSIVE TOTAL CREDITS: 00+22 =22**

# Government College of Engineering, Karad

## SCHEME OF INSTRUCTION & SYLLABI

### Programme: Electrical Engineering

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

#### Semester – II (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	BSC	EE3201	Differential and Integral Calculus	3	1	--	4	4	20	20	60	100
2	BSC	EE3202	Engineering Physics	3	--	--	3	3	20	20	60	100
3	ESC	EE3203	Engineering Mechanics	3	--	--	3	3	20	20	60	100
4	PCC	EE3204	DC and AC Circuits	3	--	--	3	3	20	20	60	100
5	HSSM	EE3205	Indian Knowledge Systems(MOOC)	--	--	--	--	2	-	-	100	100
6	BSC	EE3207	Engineering Physics Lab	--	--	2	2	1	-	25	25	50
7	PCC	EE3208	DC and AC Circuits Lab	--	--	2	2	1	-	25	25	50
8	CCA	EE3210	NCC/NSS/CSP/E-Cell	--	--	2	2	1	-	50	-	50
9	VSEC	MS3212	Maker Space Lab-II	--	--	4	4	2	-	50	50	50
10	ESC	EE3213	Computer Aided Design and Drafting Lab	--	--	2	2	1	-	25	-	25
11	VSEC	EE3214	Programming language C++	--	--	2	2	1	-	25	-	25
			<b>Total</b>	<b>12</b>	<b>1</b>	<b>14</b>	<b>27</b>	<b>22</b>	<b>80</b>	<b>305</b>	<b>415</b>	<b>800</b>

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)
<b>Credits</b>	<b>08</b>	<b>04</b>	<b>04</b>	-	-	<b>03</b>	<b>02</b>	-	<b>01</b>
<b>Cumulative Sum</b>	<b>16</b>	<b>13</b>	<b>04</b>	-	-	<b>05</b>	<b>04</b>	-	<b>02</b>

**PROGRESSIVE TOTAL CREDITS: 22+22 =44**