

Target is 50% marks
Attainment level 1: 40% students scoring more than 50% marks
Attainment level 2: 45% students scoring more than 50% marks
Attainment level 3: 50% students scoring more than 50% marks

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For Internal Assessment)						
CO'S	CO1	CO2	CO3	CO4	CO5	CO6
Number of Students Scored above 50% marks	48	46	48	48	48	48
Number of Students attempted the test	48	48	48	48	48	48
% OF STUDENTS	100.00	95.83	100.00	100.00	100.00	100.00
Attainment Level	3	3	3	3	3	3

PERCENTAGE OF STUDENTS SCORING > 50% of marks (For University Examination)	
Number of Students Scored above 50 % of Marks	48
Number of Students attempted the Examination	48
% OF STUDENTS	100.00
Attainment Level	3

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	1.00
CO2	0.98
CO3	1.00
CO4	1.00
CO5	1.00
CO6	1.00

CO attainment using Course survey	
CO1	0.87
CO2	0.87
CO3	0.82
CO4	0.84
CO5	0.86
CO6	0.84

Overall CO attainment	
CO1	0.974
CO2	0.961
CO3	0.964
CO4	0.968
CO5	0.972
CO6	0.968

Weghtage for Indirect assessment	
Direct	Indirect
0.8	0.2

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	2	2						2		
CO2	2	2	2	2						2		
CO3	2	2	2	2						2		
CO4	2	2	2	2						2		
CO5	2	2	2	2						2		
CO6	2	2	2	2						2		
Total	12	12	12	12	0	0	0	0	0	12	0	0
PO AVERAGE	2.00	2.00	2.00	2.00						2.00		

PSO MAPPING

CO'S	1	2	3
CO1	2	2	
CO2	2	2	
CO3	2	2	
CO4	2	2	
CO5	2	2	
CO6	2	2	
Total	12	12	0
PSO AVERAGE	2.00	2.00	

ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1.95	1.95	1.95	1.95						1.95		
CO2	1.92	1.92	1.92	1.92						1.92		
CO3	1.93	1.93	1.93	1.93						1.93		
CO4	1.94	1.94	1.94	1.94						1.94		
CO5	1.94	1.94	1.94	1.94						1.94		
CO6	1.94	1.94	1.94	1.94						1.94		
PO AVERAGE	1.94	1.94	1.94	1.94						1.94		

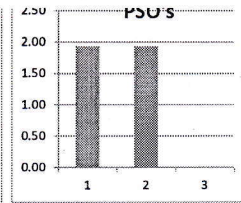
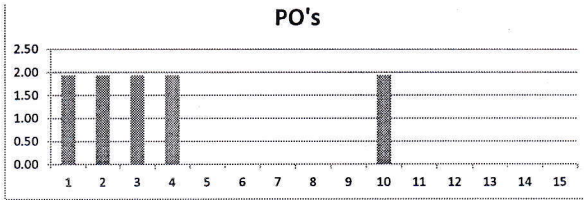
ATTAINMENT

CO'S	1	2	3
CO1	1.95	1.95	
CO2	1.92	1.92	
CO3	1.93	1.93	
CO4	1.94	1.94	
CO5	1.94	1.94	
CO6	1.94	1.94	
PSO AVERAGE	1.94	1.94	

6/11
Held - Teac
Dr. M. PALANISAMY

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2/18/22
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Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F. - 563 120.



Prepared by
Dr. P D Sudersanan, Dr.TTIT, K.G.F.

Vijaya Chaudhri
5/11/2021

Head - I & A C
Dr. K.M. PALANISAMY

18/1/21
PRINCIPAL
Dr. T. Thimmaiah Institute of Tech
Oorgaum, K.G.F. - 563 120.

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Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY
(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120
(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi)

Department of Electronics & Communication Engineering
Mapping of Cos, POs and PSOs for 2020-21 Academic Year

Mapping Weights: 1-Weak, 2- Moderate, 3- Strong


Sl. No.	Sem	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Semester 1	18MAT11	3	2												
2		18PHY12	2	2												
3		18ELE13	3	2										2.25		
4		18CIV14	3	2												
5		18EGDL15	1	1	1		2	1		1		1			1	
6		18EGH18							1				3			
7	Semester 2	18MAT21	3	2												
8		18CHE22	2	1.5	1.67											
9		18CPS23	3	2.8	2.2		1.4									2
10		18ELN24	2.8	2.4	2.4	2										2
11		18ME25	1.8													
12		18EGH28							2.4				2.2			
13	Semester 3	18MAT31	3	2											1	
14		18EC32	3	3	1.4										3	1
15		18EC33	3	1.5	2									3	2	
16		18EC34	3	2								2			3	3
17		18EC35	2	2.25								1			3	2
18		18EC36	2.67	1.6	2.17	1								1.83	1	1.6
19		18MAT41	3	2												

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Head - JAC
Dr. K. PALANIK


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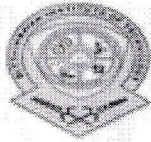
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20	Semester 4	18EC42	3	2															
21		18EC43	2	2								1		1	1.5				
22		18EC44	3	3	2								2		2	1			
23		18EC45	3	2.25	1								2		3	2			
24		18EC46	2.75	2	3	3									2	2			
25	Semester 5	18ES51																2.5	2
26		18EC52									1.33		3	2	3	1.8	1		
27		18EC53	2	2	2		2							2		2		2	2
28		18EC54	2.8	2.6	1.25										2			2	2
29		18EC55	3	3	1.4													1.8	1
30		18EC56	2.6	3	2							1						2	
31		18CIV59															1		
32	Semester 6	18EC61	3	2														3	1
33		18EC62	2	2	2										2			3	1
34		18EC63	2.8	2.4		1									1		1	1	1
35		18EC646	3	2	2		3											3	1
36		18EE653	1								1	3						2	1
37	Semester 7	17EC71	2.67	3	1.67	1.25												1	1
38		17EC72	2	1.5	1.67													2	3
39		17EC73	3	2.75														1	2
40		17EC742	2	2														1	1
41		17EC755	1.3	2	2											1			2
42	Semester 8	17EC81	2	2	2	2					1.25							1.33	
43		17EC82	2.8	1.6	2.4	1										2		2	2
44		17EC834	3	3		2												2	1.6
Average			2.52	2.16	1.87	1.7	1.88	1.3	1.99	2	2	1.86	1.9	1.59		2		1	1.56


 Head - IQAC
 Dr. K.M. PALANIYANDAM

PRINCIPAL
 Dr. T. Thimmaiah Institute of
 Oorgaum, K.G.F. - 562 120.


 8/11/2024



Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY
 (Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120
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Department of Electronics & Communication Engineering
Attainment of Cos, POs and PSOs for 2020-21 Academic Year


Sl. No.	Sem	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
1	Semester 1	18MAT11	1.74	1.16													
2		18PHY12													1.41		
3		18ELE13	1.89	1.25													
4		18CIV14	1.74	1.26											0.58	0.6	
5		18EGDL15															
6		18EGH18							0.73	1.45	1.45	1.45	2.18	1.45	1.45		
7	Semester 2	18MAT21	2.48	1.65													
8		18CHE22	1.47	1.03	1.16												
9		18CPS23	2.2	2.05	1.61		1.03								1.47	1.47	
10		18ELN24	1.78	1.54	1.49	1.27									1.87	1.97	
11		18ME25	1.47	0.85					1.09	0.8					1.81		
12		18EGH28							2.23	1.86	1.11	1.3	2.04		1.82		
13	Semester 3	18MAT31	1.552	1.0346667													
14		18EC32	1.452856	1.452856	0.6771										1.45286	0.48201	
15		18EC33	1.6405	0.8161667	1.0764									1.718	1.09		
16		18EC34	1.638	1.092								1.092			1.638	1.638	
17		18EC35	1.028	1.134								0.514			1.542	1.028	
18		18EC36	1.44	0.86	1.16	0.53									0.6	0.85	
19	Semester 4	18MAT41	1.9784	1.3189333													
20		18EC42	1.7872	1.1914667											0.595733	0.69533	0.907667
21		18EC43	1.2113	1.2113			0.60565					1.2113			1.2113	0.60565	
22		18EC44	1.68955	1.68955	1.1264							1.1263667			1.68955	1.126367	
23		18EC45	1.98344	1.49986	0.6434										1.42053	1.4148	
24		18EC46	1.1895	0.6686667	1.2873	1.30867									1.16733	0.784667	
25	Semester 5	18ES51						1.01679	2.2526	1.50173	2.2525946	1.33156	0.750865				
26		18EC52	0.99266249	0.9926625	0.9927		0.99266					0.9926625	0.992662		0.99266	0.992662	
27		18EC53	1.2	1.2	1.2	1.2							1.2		1.2	1.2	
28		18EC54	1.48244324	1.4114595	0.6584										0.94933	0.533114	
29		18EC55	1.99262667	1.9926267	0.9308				0.66444						1.32842		
30		18EC56	1.79840162	2.0612732	1.3742										0.699056	0.699056	
31	18CIV59								2.50589					1.670595			
32	Semester 6	18EC61	0.85621622	0.5708108								0.5708108			0.85622	0.285405	
33		18EC62	1.52633514	1.4643243	1.5096							0.7631676		0.763168	0.76317	0.763168	
34		18EC63	2.03091892	1.7460541		0.73541									2.178	0.671622	
35		18EC64	2.22525405	1.4835027	1.4835		2.22525								1.483503	0.74175	0.741751
36		18EE653	0.82195829						0.82196	2.46587					0.821958	0.82196	

Head - I & A c
Dr. Vikram PALANISAMY

18/1/22
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37	Semester 7	17EC71	2.06444444	2.32	1.2822	0.96167						1.54933	1.549333	2.32		
38		17EC72	1.578	1.186	1.3127							0.789				
39		17EC73	1.83	1.67								0.61	0.61			
40		17EC742	1.76	1.76						0.88			1.76			
41		17EC755	1.23	1.88	1.88						1.14			1.23		
42	Semester 8	17EC81	1.93555556	1.9355556	1.9356	1.93556						1.93556	1.935556	1.93556	1.935556	
43		17EC82	2.2212	1.2692	1.904	0.793						1.32267	1.5868	0.794	1.2688	
44		17EC834	2.4744852	2.4744852			1.6699							1.649657	0.82483	
Average			1.67	1.41	1.27	1.16	1.21	1.18	1.57	1.6	1.42	1.3	1.33	1.17	1.26	1


 Head - I & A C
 DV. K. M. PALANI


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 Dr. T. Thimmaiah Institute of Techno...
 Oorgaum, K.G.F. - 563 120.
 5/11/2021



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Department of Electronics and Communication Engineering

Action plan for POs and PSOs

Sl. No	PO/PSO	Description of PO/PSO	Target %	Attainment %	Attainment YES/NO	Action plan to reach target / improvement
1	PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.	60	66.27	YES	Maintain teaching and assessment method and set the target of 80 %.
2	PO2	Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	60	65.28	YES	Maintain teaching and assessment method and set the target of 80 %.
3	PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations	60	67.91	YES	Maintain teaching and assessment method and set the target of 80 %.
4	PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions	60	68.24	YES	Maintain teaching and assessment method and set the target of 80 %.

Head - Dept
Dr. K.M. DALANU

18/1/20
PRINCIPAL
Dr. T. Thimmaiah Institute of Tech
Oorgaum, K.G.F. - 563 120.



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5	PO5	Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations	60	64.36	YES	Maintain teaching and assessment method and set the target of 80 %.
6	PO6	The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice	60	90.77	YES	Maintain teaching and assessment method and set the target of 80 %.
7	PO7	Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of need for sustainable development	60	78.89	YES	Maintain teaching and assessment method and set the target of 80 %.
8	PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	60	80	YES	Maintain teaching and assessment method and set the target of 80 %.
9	PO9	Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	60	71	YES	Maintain teaching and assessment method and set the target of 80 %.
10	PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions	60	69.89	YES	Maintain teaching and assessment method and set the target of 80 %.
11	PO11	Project Management and Finance: Demonstrate knowledge and understanding of the engineering and	60	70	YES	Maintain teaching and assessment method and set the target of 80 %.

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Head - JETC
Dr. K. PALANJ

15/11/2021
PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F. - 563 120.

Vijaya Chennappa
5/11/2021



Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

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		management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments				
12	PO12	Life-long learning: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	60	73.58	YES	Maintain teaching and assessment method and set the target of 80 %.
13	PSO1	Apply the knowledge of signal processing and VLSI in communication and networking field	60	65.63	YES	Maintain teaching and assessment method and set the target of 80 %.
14	PSO2	Apply modern tools for problem solving in electronic system design	60	64.1	YES	Maintain teaching and assessment method and set the target of 80 %.

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b.p.
Head - IQAC
Dr. K.M. PALANISAMY

PRINCIPAL

Dr. T. Thimmaiah Institute of Tech
Oorgaum, K.G.F. - 563 120.

Vijayar Chennathri
5/11/2021



Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY
(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120
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Department of Electronics & Communication Engineering

Overall PO and PSO Attainment

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Mapping Average	2.52	2.16	1.87	1.7	1.88	1.3	1.99	2	2	1.86	1.9	1.59	1.92	1.56
Attainment Average	1.67	1.41	1.27	1.16	1.21	1.18	1.57	1.6	1.42	1.3	1.33	1.17	1.26	1
Overall Attainment	0.6627	0.6528	0.6791	0.6824	0.6436	0.9077	0.7889	0.8	0.71	0.6989	0.7	0.7358	0.6563	0.641
Overall Attainment %	66.27	65.28	67.91	68.24	64.36	90.77	78.89	80	71	69.89	70	73.58	65.63	64.1
Target	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Attained YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

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Head - IEC
D. Vikraman

PRINCIPAL
Dr. T. Thimmaiah Institute of
Oorgaum, K.G.F. - 563 120.

Vijaya Shanthi
5/11/2021