

2.6.2. Attainment of programme outcomes and course outcomes are evaluated by the institution.

The process of attainment of COs, POs and PSOs starts from writing appropriate COs for each course of the program from first year to fourth year in a four-year engineering degree program. The Course Outcomes are written by the respective faculty member using action verbs of learning levels suggested by Revised Bloom's Taxonomy. Then, a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course in the program including the elective subjects. The written course outcomes and their mapping with POs are reviewed by BOS Chairperson before they are finalized.

In the Outcome Based Education (OBE), assessment is done through one or more than one processes, carried out by the institution that identify, collect and prepare data to evaluate the achievement/attainment of Course Outcomes (COs). Assessment tools are categorized in two methods, to assess the Course Outcomes (COs). They are: 1. Direct Assessment Methods and 2. Indirect Assessment Methods.

Direct Assessment Methods:

- 1. Two Internal/midterm Assessment Tests
- 2. Day- to- Day Lab evaluations
- 3. Tutorials and Assignments
- 4. Project work for final year students
- 5. Seminar for third year students
- 6. Mini Projects
- 7. Semester-End Examination

Target levels or Rubrics for attainment of Course Outcomes (COs) are set by the Department Academic Committee. After the course is delivered and examination results are announced, actual attainment of COs are determined through Faculty Course Assessment Reports (FCARs). If the attainment is not reached the target, then the course coordinator will submit the action plan to attain the target level in the forthcoming year. The BoS chairperson and HOD continuously monitor to ensure the attainment targets for all the courses in the department. If the attainment is reached for a course then the target level is increased for the next offering of the course or by planning suitable improvements in the teaching-learning process, to increase the actual attainment, so as to reach the desired target.

Supporting evidences for our justification is attached herewith for your kind perusal.



PRINCIPAL PRINCIPAL SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS) Sree Sainath Nagar, A. RANGAMPET Chittoor (Dist.) - 517 102, A.P., INDIA.

(B.M. SATISH)



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517102

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SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet - 517102

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

OVERALL PO ATTAINMENT OF (2015-2019) ATTAINMENTS

(2015-'19 batch)												
Examination	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012
Internal	74.67	78.61	94.80	76.60	77.60	79.60	81.00	90.25	92.39	92.11	89.15	83.48
External	75.96	76.25	75.23	77.16	78.93	73.20	83.00	88.75	93.43	88.04	98.03	99.88

Direct Evaluation(through Internal & External Examinations)

Indirect Evaluation(through Surveys)

SURVEYS	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	P09	P010	P011	P012
Alumni Survey	79.7	81.9	87.8	85.6	84.7	89.4	83.8	79.1	80.3	83.1	84.4	82.5
Student Exit Survey	75.09	73.4	74.6	74.39	72.63	73.26	72.84	73.75	72.7	78.74	76.21	76.14
Faculty Survey	80	75.83	75.83	80.42	77.92	80.42	80.83	84.17	83.33	82.92	80.83	81.25
Employer Survey	93.75	90.5	90.3	93.54	94.53	92.5	93.5	91	89.98	91.31	92.1	88.89
total	82.14	80.41	82.13	83.49	82.45	83.90	82.74	82.01	81.58	84.02	83.39	82.20

Overall Attainment

Evaluation type	PO1	PO2	РОЗ	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	
40%-INT	29.87	31.44	37.92	30.64	31.04	31.84	32.40	36.10	36.96	36.84	35.66	33.39	
40%-EXT	30.38	30.50	30.09	30.86	31.57	29.28	33.20	35.50	37.37	35.22	39.21	39.95	
20%-SURVEY	16.43	16.08	16.43	16.70	16.49	16.78	16.55	16.40	16.32	16.80	16.68	16.44	
Final Attainment	76.68	78.02	84.44	78.20	79.10	77.90	82.15	88.00	90.64	88.86	91.55	89.78	
Total PO attainment						83	.78						

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Dr. N. h.D. Professor & Head Department of ECE SREE VIDVANIKETHAN ENGINEERING COLLEGE (Autonomous) Sree Sainath Nagar, TIRUPATI-517 102,



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517 102

Department of Electronics and Communication Engineering

Faculty Course Assessment Report

Course Code:	16BT60409	Program:	III B Tech, II Sem ECE
Course Title:	LIGHTWAVE COMMUNICATIONS (Professional Elective-2)	Acad. Year:	2019-20
Faculty :	Dr. P V RAMANA	Section:	A

Course Outcomes

On successful completion of the course, students will be able to:

- **CO1** CO1. Apply knowledge to understand
 - Mode theory of optical communication.
 - Losses in optical fibers.
 - Optical sources and detectors.
 - Power Launching and coupling techniques.
 - Optical links.
 - WDM concepts.
 - Optical Networks.

CO2 Analyze Problems in analog and Digital Links.

- **CO3** Design and Develop Optical Sources, Detectors and Links.
- **CO4** Provide valid solutions to overcome losses in optical fibers.
- **CO5** Select appropriate optical components to suit advanced optical communications and Networks.
- **CO6** Assess and propose cost effective solutions to minimize the radiation hazards caused by wireless links.

Program Outcomes

Engineering Graduates will be able to:

- **PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2:** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **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.
- **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.
- **PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **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.
- **PO7:** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and 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.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes PSO1: Apply the knowledge of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems to the solutions of real world problems. PSO2: Analyze, Design and Develop solutions in real time in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems. PSO3: Conduct investigations and address complex engineering problems in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems. PSO4: Apply appropriate techniques, resources, and modern tools to complex engineering systems and processes in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.

Mapping of Course to Program Outcomes and Program Specific Outcomes:

	PO1	PO2	PO3	PO4	P05	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3						3			
CO2	2	3						3		
CO3	2	2	3					3		
CO4	2	2	1	3					3	
CO5	2	2			2					3
CO6	2	2	2	2		2				

3: High 2: Medium 1: Low

Course Outcomes Assessment:

	Course Outcomes	Questions	Percen	itage of s	tudents v ma		60% and	above
			CO1	CO2	CO3	CO4	CO5	CO6
CO1	 CO2. Apply knowledge to understand Mode theory of optical communication. Losses in optical fibers. Optical sources and detectors. Power Launching and coupling techniques. Optical links. WDM concepts. Optical Networks. 	M1Q1 M1Q2 M1Q4 M1Q5B M2Q1 M2Q3	63.79 70.18 48.00 75.00 52.54 91.07					
CO2	Analyze Problems in analog and Digital Links.	M1Q3A M1Q5A M2Q2B		80.00 84.62 94.12				
CO3	Design and Develop Optical Sources, Detectors and Links.	M2Q2A			82.98			
CO4	Provide valid solutions to overcome losses in optical fibers.	M1Q3B M2Q4				41.94 88.89		
CO5	Select appropriate optical components to suit advanced optical communications and Networks	M2Q5A					61.11	
CO6	Assess and propose cost effective solutions to minimize the radiation hazards caused by wireless links.	M2Q5B						66.67
	CO Attainment th	rough CIE	66.76	86.24	82.98	65.41	61.11	66.67
	CO Attainment the	rough SEE	79.1	79.1	79.1	79.1	79.1	79.1
	Overall CO Attainment=(CI	E+SEE)/2	72.93	82.67	81.04	72.26	70.11	72.89
Co	urse Attainment=Average of all CO a	ttainment			75.	31		

Course Outcomes	CO1	CO2	CO3	C04	C05	C06
Target for Attainment (%)	60	60	60	60	60	60
CO Attainment (%)	72.93	82.67	81.04	72.26	70.11	72.89
Outcomes satisfied	Yes	Yes	Yes	Yes	Yes	Yes

Program Outcomes and Program Specific Outcomes Assessment:

	P01	PO2	PO3	PO4	P05	P06	PSO1	PSO2	PSO3	PSO4
C01	72.93						72.93			
C02		82.67						82.67		
СО3			81.04					81.04		
CO4				72.26					72.26	
C05					70.11					70.11
CO6						72.89				
Average PO Attainment (%)	72.93	82.67	81.04	72.26	70.11	72.89	72.93	81.86	72.26	70.11
Target for Attainment (%)	65	65	65	65	65	65	65	65	65	65
Outcomes satisfied	Yes									

The process of converting CO/PO/PSO attainment percentage into attainment levels is illustrated in the table below:

COs/POs/PSOs attainment %		Attainment Level
≥ 75	:	3
≥ 60 to < 75	:	2
< 60	•	1

COs, POs & PSOs Attainment:

Course Outcomes	CO1	CO2	CO3	C04	C05	C06
CO Attainment (%)	72.93	82.67	81.04	72.26	70.11	72.89
Level of Attainment	2	3	3	2	2	2

Program Outcomes	PO1	PO2	PO3	PO4	P05	P06	PSO1	PSO2	PSO3	PSO4
PO Attainment (%)	72.93	82.67	81.04	72.26	70.11	72.89	72.93	81.86	72.26	70.11
Level of Attainment	2	3	3	2	2	2	2	3	2	2

Comments

> The COs and corresponding POs for this course, attained the expected level of attainment.

- > After analyzing the performance in the CIE, special emphasize are required on the following
 - ✤ Short answer questions
 - ✤ Losses in optical fibers
 - Methods to minimize losses in fibers.

Recommendations for Improvement

- Formative tests shall be focused more on short answer questions rather than other type for this course.
- Optical losses and methods to minimize losses should be discussed with more pictorial & video presentation for better understanding.

COURSE OUTCOMES & CORRESPONDING QUESTIONS

CO1: Apply knowledge to understand

- Mode theory of optical communication.
- Losses in optical fibers.
- Optical sources and detectors.
- Power Launching and coupling techniques.
- Optical links.
- WDM concepts.
- Optical Networks.
- M1Q1 a) Write an expression for snell's law of refraction in terms of refractive indices of dielectrics.b) Write an expression for total number of guided modes in multimode step-index fiber.
 - c) List the types of fiber fabrication methods.
 - d) Draw the index profile of a step index and graded index fiber.
 - e) What are the types of dispersion in optical fiber?
 - f) What is fiber beat length?
- M1Q2 Derive expressions for ray theory transmission and make use of it to obtain Numerical Aperture.
- M1Q4 Categorize and Explain the scattering losses based on linear and non-linear process?
- M1Q5B What is the effect of intermodal delay in multimode fibers?
- M2Q1 a) Which optical source has narrow spectral emission width?
 - b) Write the expression for Responsivity of APD.
 - c) Draw one type of mechanical misalignment of fibers.
 - d) List the types of Fiber Connectors.
 - e) What is power penalty in optical fiber link?
 - f) What is Impact Ionization in avalanche effect?
- M2Q3 Demonstrate how temporary and permanent joints are made between two fibers using splicing techniques?

CO2: Analyze Problems in analog and Digital Links.

- A light wave is travelling in a semiconductor medium (GaAs) of refractive index 3.6. It is incident M1Q3A on a different semiconductor medium (AlGaAs) of refractive index 3.4 and the angle of incidence is 80°. Conclude whether this can result in Total Internal Reflection.
- M1Q5A Analyze how the dispersion limits the capacity of optical fibers.
- M2O2B Compare Optical LED and Laser with any three parameters

CO3: Design and Develop Optical Sources, Detectors and Links.

M2Q2A Design a structure for optical LED to achieve carrier and optical confinements.

CO4: Provide valid solutions to overcome losses in optical fibers.

- M1O3B Analyze how the losses (any two losses) in optical fibers can be minimized.
- M2Q4 Estimate link power budget and rise time budget for point-to-point fiber optic link.

CO5: Select appropriate optical components to suit advanced optical communications and Networks

M2Q5A Select appropriate optical components along with Fiber bragg grating and design optical demultiplexer.

CO6: Assess and propose cost effective solutions to minimize the radiation hazards caused by wireless links.

M2Q5B Mention the optimal solution for reducing cost/hazards for joining two fiber.

Signature of the faculty

COURSE EVALUATION SHEET

Course Code:	16BT60409
	LIGHTWAVE COMMUNICATIONS (Professional Elective-2)
Faculty :	Dr. P V RAMANA

Program:	III B Tech, II Sem ECE
Academic Year:	2019-20
Section:	A

		M1Q1	M1Q2	M1Q3A	M1Q3B	M1Q4	M1Q5A	M1Q5B	M2Q1	M2Q2A	M2Q2B	M2Q3	M2Q4	M2Q5A	M2Q5B
Roll Number			8	3	5	8	4	4	6	5	3	8	8	4	4
17121A0401	ACHUGATLA RAFATH	2	6	3	2				1	5	0	6	6		
17121A0402	ALLAM LOKESH NAIDU					3	3		3	5	3	7	0		
17121A0440	BYNA CHARANTEJ AKRI														
17121A0455	DADU KIRAN KUMAR REDDY	5	7	3	4	3			6	2	3	7	7		
17121A0457	DARAM RAMESH								5			3	2	1	1
17121A0461	DEVATHOTI TONY	5	3			5		2.5	3	0	3	8	8		
17121A0472	EGA PAVAN	4	4			4		2	3	3	2			2	2
17121A0475	ESLAVATH PAAVANI	4	8	3	2	5			1	0	2	8	7		
17121A0481	GOPAVARAM MANOJ KUMAR REDDY	5	6.5			3.5			3	4	3	8	8		
17121A0484	GORRE PREETHIRAJ	5	8	2.5	4	7	3		4	0	3	8		0	3
17121A0492	GULLAKUNTLA YASWANTH	3	7	3	3	4.5			2	2	3	0	0		
17121A0493	GUMMA SATHYA SAI	5	5			5			2	0	0	8	5		
17121A0497	JAKKARAJU DEEPIKA	2	3.5			3.5			4	4	3	8		0	1
17121A04A8	KAMBAKA JAYA SARANYA	3	7.5	3	2	2			5	3	2	7	7		
17121A04B2	KATIKA VISHNUVARDHAN								4			6	7	3	0
17121A04B5	KINNERA VIDYA	5	7.5	3	4	7.5			3	0	3		5	2	2
17121A04C5	KUNDAVARAM PREM SUKUMAR	5	7.5	3	2	3.5			5	2	3	8	8		
17121A04C6	KURABALAKOTA MADHAVI	6	7.5	1	2	3			4	3	3	8	8		
17121A04C9	LAKKAVARAM HEMANTH KUMAR	5	7.5	3		7									
17121A04D4	MALLE ROSHINI	2	5	3		4			3			8	6	3	0
17121A04D7	MANAGHANI MOUNIKA	1.5				1.5									
17121A04F7	NITTURU NEHRUN BEE	4	6	3	2	4.5				4	1				
17121A04G1	PAMIDIKALVA SAIKRISHNA SARATH	5		2.5	2.5	3.5			2		3	7			3
17121A04G8	PENUKONDA SUDHARSHAN														
17121A04H9	RASAPPA GOWTHAM		1							3	2	6	6		

				-		-			-	-	-	-			<u> </u>
17121A04J0	RAVULA SIVA SANKAR	4		2	1	5			3	3	2	6			
17121A04J8	SHAIK MASTHAN SHARIF	4.5	4.5	3	3.5	6.5			5	3	3	8		2	3
17121A04M7	VATTAM MOHAN REDDY	6	6.5	3	3.5	7									
17121A04M9	VEMGAPATI NAGENDRA BABU	3	5	3	2				2		3	7		3	3
17121A04N4	YANADI PRUDHVI	6	8	3	4.5	7.5			5	4	3	8	8		
17121A04N5	YARAMALA LAKSHMI PAVAN KALYAN	2						1.5	3			4	4	3	3
17121A04N9	YELLAM RAJU LIKHITHA	4	7	3	2	4.5			5			8	8		4
17121A04P7	PEDDAKOTLA SIVA SAI	2	1.5	3					3	3	2	4			3
17121A04P8	VENNAPUSA MADHUSUDHAN REDDY									3	3		6		3
17121A04P9	KRISHNA RAJ ROKAYA	4.5	7	3	3	5									
17125A0426	MULA PRAVEEN KUMAR	4	5			4					3				
18125A0401	A S POORNESH	5	7.5	3	2	7			3	3	2				4
18125A0402	AKKUPALLI ANIL KUMAR					1	2		4	5	3	7	7		
18125A0404	AMBATI YASWANTH REDDY	6	7.5	1	2	5.5	3	3	5	3	3	8	8		
18125A0406	AVULA RAMA KRISHNA	3	4	3	2	4			3	5	3	8			
18125A0407	B MEGHANA	4.5	6	2			3		3	3	3	5	5		
18125A0408	B V LAVANYA	5	3		3	5			2	4	3	4	4		
18125A0409	BALA KRISHNA VAMSI								3	3	3	5	5		
18125A0411	BASIREDDY PUJITHA	3	3	1.5	1.5	5			3	4	3	7	6		
18125A0412	BAYAPUREDDY SRILAKSHMI	5	7	3	4	7			6	5	3	6	6		
18125A0413	BOORSU VASU	4	4.5	3	2	7			4	5	3	8		1	3
18125A0414	BOYA YOGESH	5	7		4	5			4	5	3	8	8		
18125A0415	CHALICHEEMALA SIVA PRASANNA	4	7	2		5	3	1.5	5	5	3	7	6		
18125A0417	D JHANSI LAKSHMI	2	3.5	2			3		3	3	3	6	8		
18125A0418	DIBBISA JAYACHANDRA	4	5			5			3			7	7		3
18125A0420	GIRIGILI BALAKRISHNA	5	6	3	3.5		4	3	2	3	2	8			4
18125A0421	GOLLA SURESH	2.5	3		2.5				4	4	3	8			
18125A0422	GOOPURAPPAGARI MANJUNATHA	2.5	5	2		4.5			5	4	3		7		
18125A0423	GUNTIKA SIREESHA	3.5	5		3	3.5	7		6			8	6	4	3
18125A0424	KALVA PURNA SAI	3.5	3	1.5	-	4.5			5			7	8	4	2
18125A0425	KANDUKURI VAMSIKRISHNA		-						-				-		-
	KOMMU PRASAD	3	4	2		2.5			4	3	3	7	8		
	KUNDURU RAMMOHAN REDDY	4	2	1	2	4.5			4	5	3	8	7		
	KUNI HIMASREE	5.5	5.5	-	-			3	3	5	3	7	7		<u>├</u> ──┤
10125/10429		5.5	5.5					5	5	5	5	,	,		

18125A0431	MALLA RAVIPRAKASH REDDY	3	6.5				3		4	1.1.1	3	8	7		
18125A0434	PEMMAKA BALA SRAVANI	6	8	1.18	1.11.11.11.11.1	7.5	3.5	3.5	4	3	3	8		3	3
18125A0435	PITTI NITHEESH KUMAR	3	3.5	11 m	The second	3		8 - Jul 118	1			6	6	3	3
18125A0436	PONNAPATI PAVAN KALYAN		5.5	1.5		3.5		2.5	4	4	3	8		3	2
18125A0437	RAGAVAREDDYGARI ANUSHA	4	7	3		at store a			5	4	3	8	1	3	3
18125A0439	SIRVELU MOUNIKA	3	5	1.5		7.5	2	2.5	2	5	3	6	8		
18125A0440	TALARI RAVI TEJA	3	4.5	3	2	4.5		Lan Ma	5	5	3	6	5		
18125A0442	VANNAPPAGARI YUVAKISHORE REDDY	5	7	1.1	ACREASE.	6		3	4	4	3	7	7		
18125A0443	VARADARAJU JASWANTH				Selection of					and the state					
18125A0444	VINUKONDA UDAYA KIRAN	Physics Providence	5.5	0.5			South Section		4		and the second second	6	7	3	2
18125A0446	YALLALA SWETHA	5	7.5			7	2.5		5			8	6	N. Wald	3
18125A0447	YERRANAGULA PAVAN KUMAR	4	6	10000		4		2.5	3			6	8	1919-28	3

No. of students secured ≥ 60% of marks 37 40 32 13 24 11 9 31 39 48 51 40 11 18 % of students secured ≥ 60% of 63 79 70.18 80.00 41.94 48.00 84.62 75.00 52.54 82.98 94.12 91.07 88.89 61.11 66.67	Total Attempted	58	57	40	31	50	13	12	59	47	51	56	45	18	27
			40	3/	13	24	11	9	31	39	48	51	40	11	18
marks solve rene and solve and	% of students secured \geq 60% of	63.79	70.18	80.00	41.94	48.00	84.62	75.00	52.54	82.98	94.12	91.07	88.89	61.11	66.67

8/27

	C01	C01	C02	CO2	CO3	CO3	CO4	CO4	C05	C05	CO6	C06
	M1Q1	63.79	M1Q3A	80.00	M2Q2A	82.98	M1Q3B	41.94	M2Q5A	61.11	M2Q5B	66.67
	M1Q2	70.18	M1Q5A	84.62		1.11	M2Q4	88.89	1016510	No Const		
	M1Q4	48.00	M2Q2B	94.12	2012044			2.1. 1.1.1			8. W. S. M. M.	
Sector March 1997	M1Q5B	75.00	Sec. La		En algangen	24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1223	2.1.1.1.2.1.2	
	M2Q1	52.54				203316219			12.14.5.65	122.4.81	San Star	
	M2Q3	91.07	124. 12. 17					AN CALE Y	10220110	and the second	1. 1. 1 <u>. 12.</u>	Strain Strain
CO Attainment		66.76	Sec. 5 1.24	86.24		82.98		65.41		61.11		66.67

Continuous Internal Evaluation (CIE)	66.76	86.24	82.98	65.41	61.11	66.67
Semester End Evaluation (SEE)	79.1	79.1	79.1	79.1	79.1	79.1
Average of CIE & SEE	72.93	82.67	81.04	72.26	70.11	72.89
Course Attainment (Average of COs attainment)			75	.31		

(Dr. P.V. RAMANA)



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517 102

Department of Electronics and Communication Engineering

Faculty Course Assessment Report

Course Code:	16BT70431	Program:	IV B.Tech., I-Sem, ECE
Course Title:	Antennas and Microwave Engineering Lab	Acad. Year:	2019-20
Faculty :	Ms. K. Neelima	Section:	A,B,C & D

	COURSE : ANTENNAS AND MICROWAVE ENGINEERING LAB(16BT70431)
Course	Outcomes
CO1	Apply the knowledge of antennas and microwaves to understand the working of various devices. Analyze the characteristics of different microwave components like
CO2	 Attenuators Directional Couplers Horn antennas etc.,
CO3	Design various antennas for different communication needs.
CO4	Solve problems using different antenna designs and microwave devices.
CO5	Apply appropriate tools to design and analyze various antennas.
CO6	Understand the working of various antennas and microwave components and provide engineering solutions for societal use.
C07	Commit to ethical principles in the design of antennas and microwave components.
CO8	Work individually or in a group in the field of antennas and microwaves.
CO9	Communicate effectively in verbal and written form in the area of antennas and microwaves.
-	n Outcomes
Engineer	ring Graduates will be able to:
P01:	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2:	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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.
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.
PO5:	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
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.
P07:	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
P08:	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9:	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
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.

	Project management and finance: Demonstrate knowledge and understanding of the engineering and 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. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
Program	n Specific Outcomes
PSO1:	Apply the knowledge of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems to the solutions of real world problems.
PSO2:	Analyze, Design and Develop solutions in real time in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.
PSO3:	Conduct investigations and address complex engineering problems in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.
PSO4:	Apply appropriate techniques, resources, and modern tools to complex engineering systems and processes in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.

Mapping of Course to Program Outcomes and Program Specific Outcomes:

	PO1	PO2	PO3	PO4	P05	P06	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4
CO1	3									3			
CO2	2	3									3		
CO3	2	1	3								3		
CO4	2	2	2	3								3	
CO5	2	1	1		3								3
CO6	2					3							
CO7	2		2				3						
CO8	1							3					
CO9	2								3				
				3: Hi	gh	2: N	1edium	1:	Low				

Evaluation Rubrics (Microwave Engineering Lab)

Rubric	Excellent (Wt=3)	Good (Wt=2)	Fair (Wt=1)
Experiment write-up (CO1)	Comprehensive write- up	Moderate write-up	Partial write-up
Analyze and use the Microwave Components (CO1 & CO2)	Best analysis and usage of the Microwave Components	Good analysis and usage of the Microwave Components	Moderate analysis and usage of the Microwave Components
Solve Problems in Leakage Power while interconnecting Microwave Components (CO4)	Exact Solution for leakage power while interconnecting Microwave Components	Small deviation in Solution for leakage power while interconnecting Microwave Components	Acceptable deviation Solution for leakage power while interconnecting Microwave Components
Understanding and Usage of Bench Setup (CO5 & CO6)	Optimal understanding and usage of Bench Setup	Alternative understanding and usage of Bench Setup	understanding and usage of Bench Setup without constraints
Follow Ethical Principles while Working and Communicating (C07,C08 & C09)	Perfect Follow up of Ethical Principles while Working and Communicating	Correct Follow up of Ethical Principles while Working and Communicating	Poor Follow up of Ethical Principles while Working and Communicating
Viva-Voce (CO1)	Answered all questions	Answered majority of questions	Answered few questions

Evaluation Rubrics (Antennas Lab)

Rubric	Excellent (Wt=3)	Good (Wt=2)	Fair (Wt=1)
Experiment write-up (CO1)	Comprehensive write- up	Moderate write-up	Partial write-up
Analyze Antennas for Evaluation (CO1 & CO2)	Best analysis of Antennas for Evaluation	Good analysis of Antennas for Evaluation	Moderate analysis of Antennas for Evaluation
Design of various Antennas (CO3)	Precise Design of Antennas	Fine Design of Antennas	Fair Design of Antennas
Solve Problems in design of Structure & Feed for Antennas (CO4)	Exact Solution for design of Structure & Feed for Antennas	Small deviation in Solution for design of Structure & Feed for Antennas	Acceptable deviation Solution for design of Structure & Feed for Antennas
Understanding and Usage of CAD tools (CO5 & CO6)	Optimal understanding and usage of CAD tools	Alternative understanding and usage of CAD tools	understanding and usage of CAD tools without constraints
Follow Ethical Principles while Working and Communicating (CO7,CO8 & CO9)	Perfect Follow up of Ethical Principles while Working and Communicating	Correct Follow up of Ethical Principles while Working and Communicating	Poor Follow up of Ethical Principles while Working and Communicating
Viva-Voce (CO1)	Answered all questions	Answered majority of questions	Answered few questions

Course Outcome Assessment:

	Per	centage	e of stu	dents v	vho got	60%	and ab	ove ma	arks
'	CO1	CO2	CO3	CO4	CO5	CO6	C07	CO8	CO9
CO Attainment through day-to-day evaluation(CIE)	98	99	96	94	98	98	99	99	99
CO Attainment through Internal Examination(CIE)	99	99	99	99	99	99	99	99	99
CO Attainment through SEE	98	98	98	98	98	98	98	98	98
Overall CO Attainment=(CIE+SEE)/3	98.33	98.67	97.67	97.00	98.33	98.33	98.67	98.67	98.67
Course Attainment=Average of all CO attainment					98.26				

Course Outcomes	CO1	CO2	СО3	CO4	CO5	CO6	C07	CO8	CO9
Target for Attainment (%)	60	60	60	60	60	60	60	60	60
CO Attainment (%)	98.33	98.67	97.67	97.00	98.33	98.33	98.67	98.67	98.67
Outcomes satisfied	Yes								

	PO1	PO2	PO3	P04	P05	P06	P08	PO9	P010	PSO1	PSO2	PSO3	PSO4
C01	98.33									98.33			
CO2		98.67						3 . A. S.	9.23 ⁴		98.67		
CO3			97.67								97.67		
CO4				97.00								97.00	
CO5					98.33								98.33
CO6						98.33							
C07		6					98.67			1			
CO8								98.67					
CO9			1						98.67				
Average PO Attainment (%)	98.33	98.67	97.67	97.00	98.33	98.33	98.67	98.67	98.67	98.33	98.17	97.00	98.33
Target for Attainment (%)	60	60	60	60	60	60	60	60	60	60	60	60	60
Outcomes satisfied	Yes	Yes	Yes	Yes	Yes	Yes							

Program Outcome and Program Specific Outcomes Assessment:

The process of converting CO/PO/PSO attainment percentage into attainment levels is illustrated in the table below:

COs/POs/PSOs attainment %		Attainment Level
≥ 75	:	3
≥ 60 to < 75	:	2
< 60	:	1

COs, POs & PSOs Attainment:

Course Outcomes	CO1	CO2	CO3	C04	C05	C06	C07	CO8	CO9
CO Attainment (%)	98.33	98.67	97.67	97.00	98.33	98.33	98.67	98.67	98.67
Level of Attainment	3	3	3	3	3	3	3	3	3

Program Outcomes	PO1	PO2	PO3	P04	PO5	PO6	PO8	PO9	P010	PSO1	PSO2	PSO3	PSO4
PO Attainment (%)	98.33	98.67	97.67	97.00	98.33	98.33	98.67	98.67	98.67	98.33	98.17	97.00	98.33
Level of Attainment	3	3	3	3	3	3	3	3	3	3	3	3	3

Comments

All course outcomes and corresponding program outcomes & Program Specific Outcomes are satisfied with the expected level of attainment.

Recommendations for Improvement

 As attainment values are highly satisfied, Design of Antennas can be carried out at the various operating frequencies and applications of Circulator and Magic Tee can be done as beyond syllabus experiments.

plema Signature of the faculty

SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous) Sree Sainath Nagar, Tirupati – 517 102 Department of Electronics & Communication Engineering IV B.Tech I Sem. ECE - A,B,C,D AY: 2019-20 ANTENNAS AND MICROWAVE ENGINEERING LAB (16BT70431) Evaluation Sheet (Internal) Awarded Marks = Awarded Weight x Max. Marks /Max. Weight Excellent (Weight=3); Good (Weight=2); Satisfactory (Weight=1); W=Weight; M= Max.Marks Faculty Handling Course: Ms.K.Neelima

								Exp1													Exp2												Exp3	3											Ex	p4					
			R1	R	2	R	3	R4	L I	R	5	R	6		R	1	R	2	R	3	R4	1	R	5	R	6		R1		R2		R3	F	34	R	5	R6			R1		R2		R3		R4	F	R5	R	6	_
S. No	Roll No		CO1	с	02	co	D 4	CO5,0	:06	CO7,C	08,CO	СС	01	Tot.	со	1	СС	2	СС	04	CO5,0	006	CO7,CC 9	08,CO	со	01	Tot.	CO	1	CO2		CO4	CO5	,CO6	CO7,C0 9	08,CO	CO1	Tot	. (01		CO2	(CO4	С	05,CO6	CO7,0	CO8,CO 9	со)1	Tot.
		v	M	w	М	w	М	w	м	w	м	w	м	30	w	м	w	м	w	м	w	м	w	М	w	м	30	w	M N	w	MV	N M	w	м	w	м	w M	1 30	w	Μ	w	N N	ı w	M	I V	V M	w	м	w	м	30
		1	3	3	8	3	6	3	7	3	3	3	3		3	3	3	8	3	6	3	7	3	3	3	3		3	3	3	6	3 8	3	7	3	3	3	3	3	3	3	6	3	8	. 3	3 7	3	3	3	3	
1	14121A0447			2	6	3	6	3	7	3		3	3	28	3	3	2	6	2	4	1	3	3	3	3	3	22	3	3	3	6	1 3	3	7	3	3	3	3 25	3	3	3	6	2	6	(0 0	3	3	3	3	21
2	14121A04D0	_		3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3		_	3	3	6	3	8	3	3 7	3	3	3	3	30
3	14121A04M		, ,	2	6	3	6	3	7	2	2	3	3	27	2	2	3	8	3	6	3	7	3	3	3	3	29	2	2	3	6	2 6	2	5	3	3	3	3 25	-	3	3	6	2	6	3	3 7	3	3	3	3	28
4	15121A04A6		, ,	2	6	3	6	3	7	3	3	3	3	28	3	3	2	6	3	6	3	7	3	3	3	3	28	2	2	3	6	2 6	3	7	3	3	3	3 27	-	3	3	6	3	8	3	3 7	3	3	3	3	30
5	16121A0401		_	3	8	2	4	3	7	3	3	3	3	27	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	_	3	3	6	3	8	3	3 7	3	3	3	3	30
6	16121A0402			2	0	3	0	3	7	3	3	3	3	28 28	3	3	3	8	3	6	1	3	3	3	3	3	26 26	2	2	3	с .	2 0	3	7	3	3	3 .	3 27	-	3	3	0	3	8		3 /	3	3	3	3	30 30
8	16121A040		3	2	0	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	1	3	3	3	3	3	26	3	3	3	6	3 8	3	7	3	3	3	30	-	3	3	6	3	8	3	3 /	3	3	3	3	30
9	16121A040		3	3	0 8	2	4	3	7	3	3	3	2	28	2	2	3	0 8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3		_	3	3	6	3	0		2 7	3	3	3	3	30
10	16121A0400		2	3	8	3	6	3	7	3	3	3	3	29	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	-	2	2	6	2	8		2 7	3	3	3	3	30
10	16121A0408		3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	~	3	3	6	3	8	3	3 7	3	3	3	3	30
12	16121A0410		3	3	8	3	6	3	7	3	3	3	3	30	3	3	2	6	3	6	3	7	3	3	3	3	28	3	3	3	6	1 3	3	7	3	3	3	3 25		3	3	6	3	8	3	3 7	3	3	3	3	30
13	16121A0411		3	2	6	3	6	2	5	3	3	3	3	26	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	3	3	3	6	3	8	3	3 7	3	3	3	3	30
14	16121A0412		3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	3	3	3	6	3	8	3	3 7	3	3	3	3	30
15	16121A041	3 3	3	2	6	3	6	3	7	3	3	3	3	28	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	3	3	3	6	3	8	3	37	3	3	3	3	30
16	16121A0414	4 3	3	3	8	3	6	3	7	3	3	3	3	30	2	2	1	3	3	6	3	7	3	3	3	3	24	3	3	3	6	38	3	7	3	3	3	3 30	3	3	3	6	3	8	3	3 7	3	3	3	3	30
17	16121A0415	5 2	2	3	8	3	6	3	7	3	3	3	3	29	3	3	2	6	3	6	3	7	3	3	3	3	28	3	3	3	6	3 8	3	7	3	3	3	3 30	3	3	3	6	3	8	3	3 7	3	3	3	3	30
18	16121A0416		2	3	8	3	6	3	7	3	3	3	3	29	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	3	3	3	6	3	8	2	2 5	3	3	3	3	28
19	16121A0417	7 3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	2	2	3	3 29	3	3	2	4	3	8	3	3 7	3	3	3	3	28
20	16121A0418		3	3	8	1	2	3	7	3	3	3	3	26	3	3	3	8	3	6	3	7	3	3	3	3	30	2	2	2	4	3 8	3	7	3	3	3	3 27	_	2	3	6	3	8	2	2 5	3	3	3	3	27
21	16121A0419		, ,	2	6	3	6	3	7	3	3	3	3	28	3	3	2	6	3	6	3	7	3	3	3	3	28	3	3	3	6	3 8	3	7	3	3	3 3	3 30	~	3	3	6	2	6	3	37	3	3	3	3	28
22	16121A0420			2	6	2	4	3	7	3	3	3	3	26	3	3	3	8	3	6	3	7	3	3	3	3	30	2	2	3	6	3 8	3	7	3	3	3	3 29		3	3	6	2	6	3	37	3	3	3	3	28
23	16121A0421			3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	-	6	3 8	3	7	3	3	3	3 30	_	3	3	6	3	8	3	3 7	3	3	3	3	30
24	16121A0422) ()	3	8	2	4	3	7	3	3	3	3	25	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3		-	3	3	6	3	8	3	3 7	3	3	3	3	30
25	16121A0423		1	3	8	3	6	2	5	3	3	3	3	26	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	~	3	3	6	3	8	3	3 7	3	3	3	3	30
26 27	16121A0424 16121A0425		5 3	2	6	3	6	3	/	2	2	3	3	27 30	3	3	3	8	3	6	3	/	3	3	3	3	30	3	3	3	6	3 8	3	/	3	3	3 3	3 30 3 28	_	2	3	6	2	6	4	2 5	2	2	3	3	24 27
27	16121A042			3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30 28	3	3	3	6	3 8	2	5	3	3	3	3 28	_	2	3	6	3	8		2 5	3	3	3	3	27
28	16121A0420		, ,	1	2	2	6	2	7	2	2	2	2	25	2	2	3	0	2	4	2	7	2	2	2	2	28	2	2	2	6	2 0	2	7	2	2	2 2	3 30	~	2	2	0	2	0		2 7	2	2	2	2	28
30	16121A0428			3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	2	3	3	3	30	3	3	3	6	3 8	3	7	3	3	2 3	3 30	-	3	3	6	3	8		3 7	3	3	3	3	30
31	16121A0429		, ,	3	8	3	6	3	7	3	3	3	3	30	1	1	2	6	3	6	3	7	3	3	3	3	26	3	3	3	6	3 8	3	7	3	3	3 3	3 30	_	3	3	6	3	8		3 7	3	3	3	3	30
32	16121A0430		3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6 3	2 6	1	3	3	3	3	3 24	_	3	3	6	3	8	3	3 7	3	3	3	3	30
33	16121A0431		3	2	6	3	6	3	7	3	3	3	3	28	3	3	2	6	3	6	3	7	3	3	3	3	28	2	2	3	6	3 8	3	7	3	3	3	3 29	3	3	3	6	2	6	3	3 7	3	3	3	3	28
34	16121A0432		2	2	6	3	6	2	5	3	3	3	3	25	2	2	3	8	3	6	3	7	3	3	3	3	29	0	0	3	6	2 6	3	7	3	3	2	2 24	3	3	3	6	2	6	3	3 7	3	3	3	3	28
35	16121A0433	3 3	3	2	6	3	6	3	7	3	3	3	3	28	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	3	3	3	6	3	8	2	2 5	3	3	3	3	28
36	16121A0434	4 3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	2 6	3	7	3	3	3	3 28	3	3	3	6	3	8	2	2 5	3	3	3	3	28
37	16121A0435	5 3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	2	5	3	3	3	3 28	3	3	3	6	3	8	3	3 7	3	3	3	3	30
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39	16121A0437		3	3	8	3	6	3	7	2	2	3	3	29	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30		3	3	6	3	8	3	3 7	3	3	3	3	30
40	16121A0438		3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	1	2	3 8	3	7	3	3	3	3 26	_	3	3	6	3	8	3	3 7	3	3	3	3	30
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42	16121A0440		, ,	3	8	3	6	3	7	3	3	3	3	30	3	3	3	8	3	6	3	7	3	3	3	3	30	3	3	3	6	3 8	3	7	3	3	3	3 30	-	3	3	6	3	8	3	37	3	3	3	3	30
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275 17125A04		2	2 2	6	3	6	3	7	3	3	2	2 26	_	3	3	8	3	6	3	7	3	3 3	3	30	3	3	2 4	3	8 2	2 5	3 3 3	3	26	3	3 3	6	3	8 2	2 5	3	3 2	2	27
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No of Students							281												281										28									28					
No. of students >6	60%		260		274	27		271		27		279			75	27		280		273		279		279		275		276	274	27			77		248	27		279		273	278	27	
% of students 60)%	92.53		0 9	7.51	98.5		96.4		98.5		99.29		97		97.8	36	99.6	4	97.1	5	99.29	9	9.29		97.8		3.22	97.51			98	8.58		88.26	99.	29	99.29		97.15	98.93	98.	.93
Corresponding Rub	brics		R1		R2	R3	3	R4		R5	5	R6		R	1	R2	2	R3		R4		R5		R6		R1		R2	R3	R4	R5	F	R6		R1	R	2	R3		R4	R5	R	.6
Course Outcome	<u></u>		CO 01	C	0 02	CO	04	CO 05,	CO	CO 07	, CO	CO 01	Tot	. co	01	CO (12	CO (и	CO 05,	CO C	O 07, C	0 0	0 01	Tot.	CO 0	1 0	D 02	CO 04	CO 05	, CO CO 07, C	0	0 01	Tot.	CO 01	со	02	CO 04	CO	05, CO	CO 07, C	со со	01
course outcome	C 3		0001		0.02		0+	06		08, CC	O 09	0001	100		U1	00	02	000	~	06	0	8, CO 0	9	10 01	TOT.			5 02	00 04	06	08, CO 0	9	, ,,	TOL.	0001		02	00 04		06	08, CO 0	J9 CU	01
Drogram Outcom			PO1		PO2	PO			POG F	PO8, F	PO9,	PO1			21	PO	,	PO		PO5, P	P	08, PO	Э,	PO1		PO1		02	PO4	DOC	PO8, PO	Э,	01		PO1	P.0		PO4		DOC	PO8,	PC	21
Program Outcom	ies		101		-02	P0	4	PO5, P	00	PO1	10	PUI		P	01	PU.	2	P04	+	rus, P	00	PO10		rUI		P01	· ^P	02	P04	PO5,	PO10	P	01		PUI	PC	12	PU4	PO	05, PO6	PO9,	PO	11
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Course Outcomes	CO1	CO2	CO3	CO4	CO5	CO6	C07	CO8	CO9
Program Outcomes	P01	PO2	PO3	PO4	PO5	PO6	PO8	PO9	PO10
Overall Attainment(%)	98	99	96	94	98	98	99	99	99

SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous) Sree Sainath Nagar, Tirupati – 517 102 Department of Electronics & Communication Engineering IV B.Tech I Sem. ECE - A,B,C,D AY: 2019-20 ANTENNAS AND MICROWAVE ENGINEERING LAB (16BT70431) Evaluation Sheet (Internal) Awarded Marks =Awarded Weight x Max. Marks /Max. Weight Excellent (Weight=3); Good (Weight=2); Satisfactory (Weight=1); W=Weight; M= Max.Marks

Faculty Handling Course: Ms.K.Neelima

				Exp5						T					Ехр	6					I						E	кр7						1						Exp	8				
R1	R	2	R3	R		R5	Т	R6		R	1	R2	2	R3		- R4	R5		R6	6		R1		R2	R	3	R4		R5	R6	5	R7		F	81	R	2	R3		R4	R5		R6	R7	
C01	со	02	CO4	CO5,	,CO6	07,CO8,C0 9	0	CO1	Tot.	сс	01	со	2	CO4	CO:	5,CO6	CO7,CO 9	8,CO	co	1	Tot.	CO1		CO2	сс)3	CO4	с	:05,CO6	CO7,CO 9	98,CO	CO1	Tot.	C	01	СС	02	CO3		04	CO5,C0	06 ^{CO}	7,CO8,CO 9	C01	Tot.
W M	w	м	W M	W	м	WM	w	M	30	w	м	W	м	W N	w	М	w	м	w	м	30	WN	1 W	M	w	м	W M	νN	w M	w	M	W N	I 30	w	м	w	м	w	мw	М	w	v N	M	w	M 30
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SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous) Sree Sainath Nagar, Tirupati – 517 102

Department of Electronics & Communication Engineering IV B.Tech I Sem. ECE - A,B,C,D AY: 2019-20 ANTENNAS AND MICROWAVE ENGINEERING LAB (16BT70431) Evaluation Sheet (Internal)

Awarded Marks =Awarded Weight x Max. Marks /Max. Weight Awarded Marks =Awarded Weight x Max. Marks /Max. Weight

Faculty Handling Course: Ms.K.Neelima

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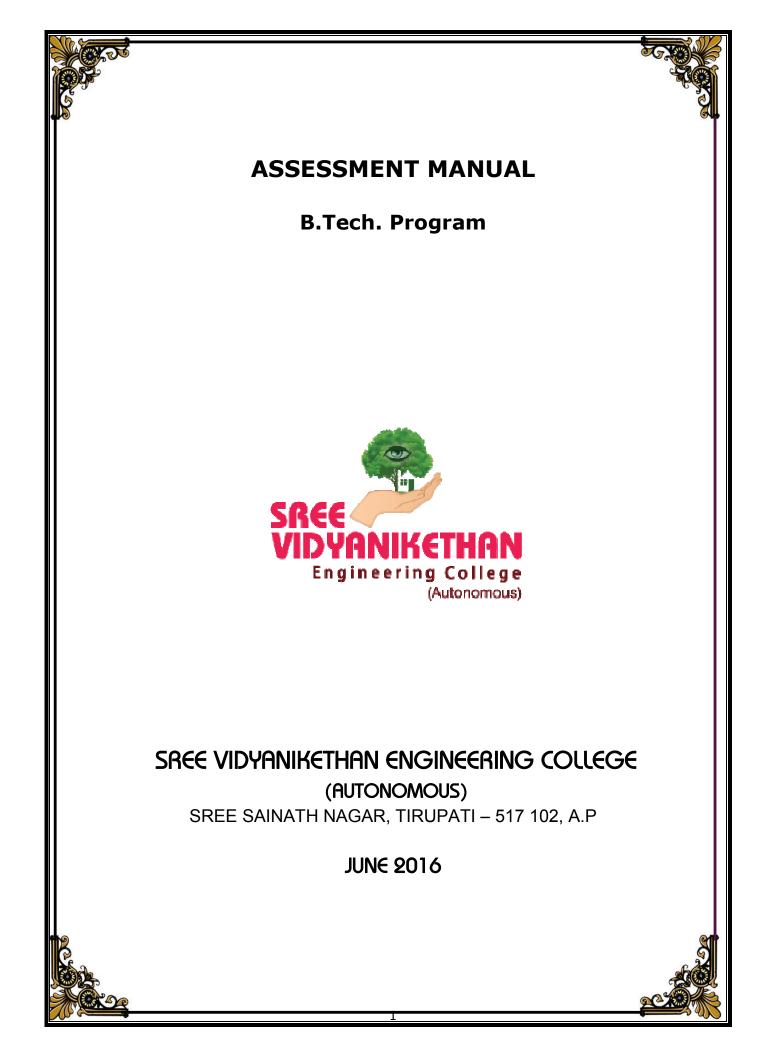
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Sree Vidyanikethan Engineering College (Autonomous)

SREE SAINATH NAGAR, TIRUPATI – 517 102

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- 2. Background
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 Annexure I: Evaluation Rubrics
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1. INTRODUCTION

Assessment:

Assessment is one or more processes, carried out by the institution, that identify, collect, and prepare data to evaluate the achievement of program educational objectives and program outcomes.

This manual presents the assessment system for **B.Tech** program at Sree Vidyanikethan Engineering College. The assessment systems designed have been planned in line with the NBA accreditation criteria. The scope of this assessment procedure is to monitor the performance of the program, to ensure its program educational objectives, assess the program outcomes and to use the data collected for continuous improvement of the program. The manual is intended to provide members of faculty to evolve uniform assessment practices across all the programs and courses and will guide future program improvements.

2. BACKGROUND

Paradigm shift in Education Delivery from Traditional Education to Outcome Based Education (OBE)

Traditional Education

- > Teachers focus on 'covering the content' giving much less thought to the 'learning by the student' and 'teaching methodology'.
- > The content-driven approach to teaching has been referred to as a teacher-centered approach.
- Instructional objectives and learning outcomes are not comprehensively planned and informed to students.
- > Student involvement is at very low level.
- > Too much technical content at the expense of a broader and liberal education.
- > Stress on lower order thinking skills.
- > Student assessment is not aligned to program outcomes.

3. OUTCOME BASED EDUCATION (OBE)

- > Outcome Based Education (OBE) is an educational approach that focuses on the graduate attributes or outcomes after completing an academic program.
- Outcome based approach means knowing what you want to achieve and then taking the steps to do so.
- The desired outcomes are determined first and then program curriculum, teaching and learning methodology and supporting facilities are designed to support the intended outcomes.

Scope of OBE

Focuses on the goals and objectives of the program

- > More directed and coherent curriculum.
- > Graduates will be more "relevant" to industry and other stakeholders
- > Continuous Quality Improvement (CQI) is in place.
- > Evidence of measurements to feed a quality improvement process
- > 'Learner Centric', rather than the traditional 'Teacher Centric'.

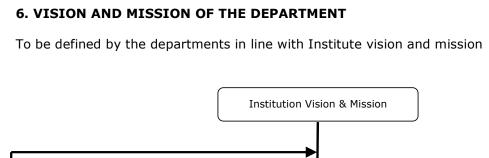
4. MISSION OF NATIONAL BOARD OF ACCREDITATION:

"To stimulate the quality of teaching, self-evaluation, and accountability in the higher education system, which help institutions realize their academic objectives and adopt teaching practices that enable them to produce high- quality professionals and to assess and accredit the programs offered by the colleges or the institutions, or both, imparting technical and professional education."

5. VISION AND MISSION OF THE INSTITUTION

Vision: To be one of the Nations' premier Engineering Colleges by achieving the highest order of excellence in Teaching and Research.

Mission: Through multidimensional excellence, we value intellectual curiosity, pursuit of knowledge building and dissemination, academic freedom and integrity to enable the students to realize their potential. We promote technical mastery of Progressive Technologies, understanding their ramifications in the future society and nurture the next generation of skilled professionals to compete in an increasingly complex world, which requires practical and critical understanding of all aspects.



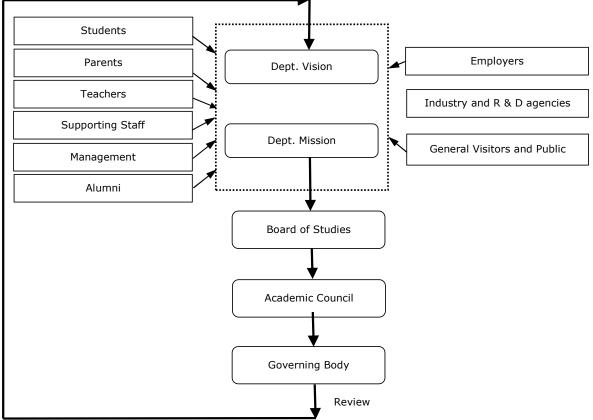


Fig. Process for Defining Vision and Mission of the Department

7. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The Program Educational Objectives (PEOs) are broad statements that describe the career and professional accomplishments that the program is preparing graduates to accomplish. PEOs should be measurable, appropriate, realistic, time bound and achievable. The program educational objectives are formulated on the basis of stakeholders needs and approved by the statutory bodies of the institution.

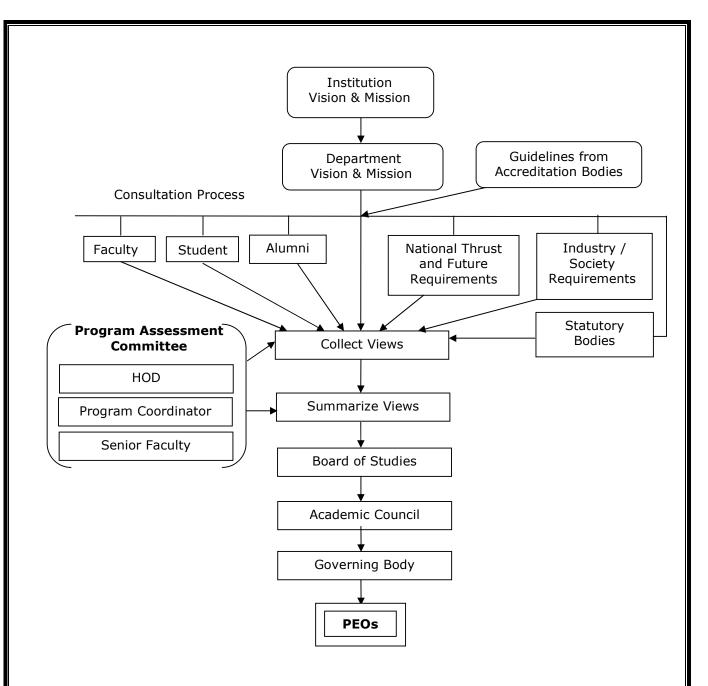


Fig.: Process of Establishing PEOs

Redefining of PEOs

The PEOs shall be redefined by obtaining the inputs from Alumni survey. The quantified data shall be thoroughly analyzed and review the results for redefining the PEOs, curriculum, Teaching-Learning methodologies, student evaluation methods, learning resources and faculty and student development programs.

The following flow chart illustrates the process of redefining PEOs.

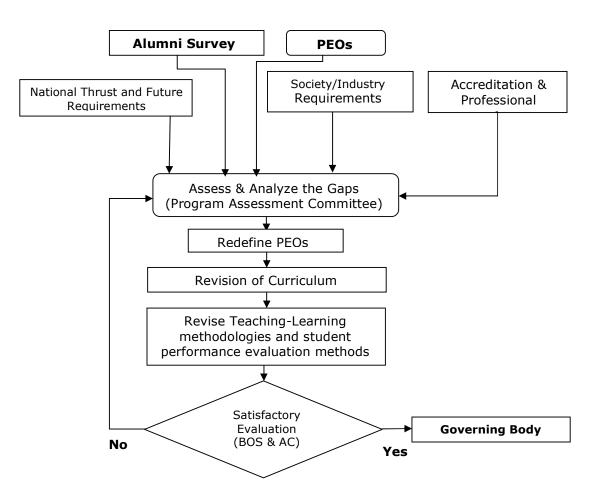


Fig. Process for Redefining PEOs

8. PROGRAM OUTCOMES (POs)

Program Outcomes are narrower statements that describe what students are expected to know and be able to do upon the graduation. These relate to the skills, knowledge, and behavior that students acquire in their matriculation through the program

After Successful completion of the Programme, Graduates will be able to:

- **PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2: Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **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.
- **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
- **PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **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.
- **PO7: Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8: Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **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.
- **PO11: Project management and finance**: Demonstrate knowledge and understanding of the engineering and 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.
- **PO12:** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

9. PROGRAM SPECIFIC OUTCOMES (PSOs)

Program Specific Outcomes are the statements that describe the ability of the graduates of a specific engineering program.

Sample PSOs for B.Tech. Civil Engineering Program is given below:

- **PSO1:** Apply knowledge of Construction Engineering, Environmental Engineering, Geotechnical Engineering, Structural Engineering, Surveying, Transportation Engineering and Water Resources Engineering in real time.
- **PSO2:** Analyse a system, component or process in sub-disciplines of civil engineering in real time problems.
- **PSO3:** Design a system, component, or process in more than one Civil Engineering context.
- **PSO4:** Conduct investigations and address complex civil engineering problems; Utilize and develop novel tools and techniques that are appropriate in civil engineering practice.

10. COURSE OUTCOMES (COs)

Course Outcomes are the statements that describe what students are expected to know, and be able to do at the end of each course. These relate to the skills, knowledge, and behaviour that students acquire in their matriculation through the courses.

11. ASSESSMENT METHODS

Assessment shall be done using Direct and Indirect methods.

Direct Assessment: Direct assessment is for the direct examination or observation of student knowledge or skills against measurable learning outcomes.

Indirect Assessment: Indirect assessment is based on the Course End survey and Graduate Exit survey

12. CO, PO and PSO Assessment

Direct Method:

The internal and external marks of a batch of students secured in a course shall be tabulated as detailed below for assessment of CO, PO and PSO of a course.

The procedure for assessment of a course is illustrated below:

S. No.	Roll No.	Q1	MI Q2	D-I (3 (рм) Q4	Q5	Q1	MII Q2	-11 (30 Q3)M)	Q5	Sem End Exam
		(6M)	(8M)	(8M)	(8M)	(8M)	(6M)	(8M)	(8M)	(8M)	(8M)	(70M)
		CO1	CO1	CO2	СО3	CO4	CO1	CO1	CO2	СОЗ	CO4	
1.	16121AXX01	6	5	3	7	5	3	1	7		4	42
2.	16121AXX02	5	7	4	8	2	5	4	3	8	2	53
3.	16121AXX03	1		6	2	1	4	3	4	6		28
4.	16121AXX04	4	2		7	2	3	3		3	3	18
	•											
				•								
				•		•	•			•		
60	16121AXX60	4	3		6	8	2	4	6		8	46
	students pted(N)	45	43	39	40	39	40	43	49	8	14	45
	students secured 60% and above (A)	35	38	28	25	32	25	40	33	2	2	36
	tudents above 60% \)*100	77.78	88.37	71.79	62.50	82.05	62.50	93.02	67.35	25.00	14.29	80.00

Mapping of Course to Program Outcomes and Program Specific Outcomes:

	P01	PO2	PO3	PO5	PSO1	PSO2	PSO3	PSO5
CO1	3				3			
CO2		3				3		
СОЗ			3				3	
CO4				3				3

Course Outcome Assessment:

	Course Outcomes	Questions		ntage of st 0% and al		2
			CO1	CO2	CO3	C04
C01	Gain Knowledge in: Mode theory of optical communication, Various losses occurring in optical fibers, Optical sources and detectors, Power Launching and coupling techniques, Optical links, WDM concepts & Optical Networks.	M1Q1 M1Q2 M2Q1 M2Q2	77.78 88.37 62.50 93.02			
CO2	Analyze single & multimode fibers and analog & digital links.	M1Q3 M2Q3		71.79 67.35		
CO3	Design and develop Optical sources, Detectors and links.	M1Q4 M2Q4			62.50 67.35	
CO4	Solve problems in optical fibers, sources and detectors for better optical communication systems.	M1Q5 M2Q5				82.05 14.29
I	CO Attainment t	hrough CIE	80.42	69.57	65	48.17
	CO Attainment th	nrough SEE	80	80	80	80
	Overall CO Attainment=(C	IE+SEE)/2	80.21	74.79	72.50	64.09
	Course Attainment (Average of all CO a	ttainment)		72	.90	
						1

Course Outcomes	CO1	CO2	CO3	C04
Target for Attainment (%)	60	60	60	60
CO Attainment (%)	80.21	74.79	72.50	64.09
Outcome Attainment (Yes/No)	Yes	Yes	Yes	Yes

Program Outcome and Program Specific Outcomes Assessment:

	P01	PO2	PO3	P05	PSO1	PSO2	PSO3	PSO5
C01	80.21				80.21			
C02		74.79				74.79		
СО3			72.50				72.50	
CO4				64.09				64.09
Average PO Attainment (%)	80.21	74.79	72.50	64.09	80.21	74.79	72.50	64.09
Target for Attainment (%)	60	60	60	60	60	60	60	60
Outcome Attainment (Yes/No)	Yes							

The process of converting CO/PO/PSO attainment percentage into correlation levels is illustrated in the table below:

COs/POs/PSOs attainment %		Correlation Level
≥ 75	:	3
≥ 60 to < 75	:	2
< 60	:	1

CO Attainment level

	CO1	CO2	СО3	CO4
C01	3			
CO2		2		
CO3			2	
CO4				2

PO and PSO Attainment level

	P01	P02	PO3	P05	PSO1	PSO2	PSO3	PSO5
C01	3				3			
CO2		2				2		
СО3			2				2	
CO4				2				2

Comments and Recommendations

Based on the CO attainment levels the course faculty shall provide the comments and recommendations for improvement.

Assessment of COs, POs & PSOs for Practical, Seminar, Project Work etc., Courses

The performance of students in the courses like Practical, Seminar, Project Work, etc., shall be evaluated through rubrics (Annexure –I). Evaluation rubrics shall be prepared for these courses on a 3-point scale. Each rubric should be mapped to corresponding CO. To assess the COs, rubric weights should be converted into marks.

The assessment of COs, POs and PSOs of these courses shall be assessed by adopting the same procedure used for Theory courses.

Indirect Method:

Indirect assessment shall be made through Graduate Exit Survey and Alumni Survey. Sample survey forms are given in Annexure –II.

13. OVERALL PO AND PSO ASSESSMENT

The attainment of the POs and PSOs for a batch of students in the program of study shall be obtained through Direct and Indirect methods. The following table illustrates the weightage applied to arrive at the final PO and PSO attainment of the program.

In Direct method, average of each PO and PSOs of the courses shall be taken. In Indirect method, the average of the surveys on the POs and PSOs shall be calculated as shown in the table below:

Assessment Method	Weightage	
Direct Assessment	Internal Evaluation (40%)	80%
	External Evaluation (40%)	80%
Indirect Assessment	Graduate Exit Survey (10%)	20%
	Alumni Survey (10%)	20%

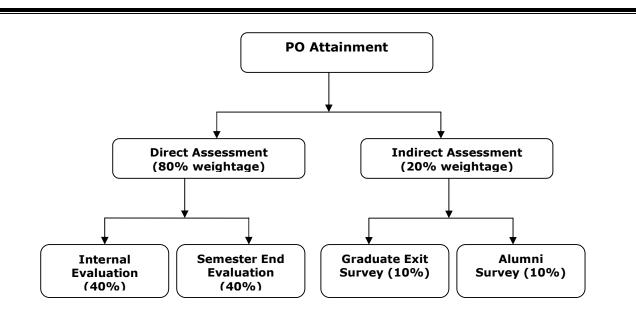


Fig. Weightage for Direct and Indirect assessment

Targets for attainment of COs, POs and PSOs

The targets for attainment of COs, POs and PSOs shall be decided by the Program Assessment Committee and BoS Chairperson of the respective program of study based on the quality of the student input, performance of the students of current batch, attainments of the previous batches.

Impact Analysis

The impact analysis on the results of evaluation of each of the COs, POs & PSOs shall be conducted by the Program Assessment Committee and BoS Chairperson. The weaknesses shall be identified and appropriate measures shall be suggested for improvements in curriculum design, pedagogical initiatives, support system, and student's performance evaluation.

ANNEXURE-I

ASSESSMENT RUBRICS FOR PROJECT WORK

Rubric	Excellent (Wt = 3)	Good (Wt = 2)	Fair (Wt = 1)
Review-1			-
Selection of Topic	Selected a latest topic through complete knowledge of facts and concepts	Selected a topic through partial knowledge of facts and concepts	Selected a topic through improper knowledge of facts and concepts
Analysis and Synthesis	Thorough comprehension through analysis/ synthesis	Reasonable comprehension through analysis/ synthesis	Improper comprehension through analysis/ synthesis
Literature Survey	Extensive literature survey with standard references	Considerable literature survey with standard references	Incomplete literature survey with substandard references
Ethical Attitude	Clearly understands ethical and social practices.	Moderate understanding of ethical and social practices.	Insufficient understanding of ethical and social practices.
Independent Learning	Did literature survey and selected topic with little guidance	Did literature survey and selected topic with considerable guidance	Selected a topic as suggested by the supervisor
Oral Presentation	Presentation in logical sequence with key points, clear conclusion and excellent language	Presentation with key points, conclusion and good language	Presentation with insufficient key points and improper conclusion
Report Writing	Status report with clear and logical sequence of chapters using excellent language	Status report with logical sequence of chapters using understandable language	Status report not properly organized
Continuous Learning	Highly enthusiastic towards continuous learning	Interested in continuous learning	Inadequate interest in continuous learning
Review-2			
Analysis and Synthesis	Thorough comprehension through analysis/ synthesis	Reasonable comprehension through analysis/ synthesis	Improper comprehension through analysis/ synthesis
Design Skills	Best design/modeling for the selected topic	Good design/ modeling for the selected topic	Moderate design/modeling for the selected topic
Literature Survey	Thorough comprehension about what is proposed in the literature papers	Reasonable comprehension about what is proposed in the literature papers	Improper comprehension about what is proposed in the literature
Usage of Techniques & Tools	Clearly identified and has complete knowledge of techniques & tools used in the project work	Identified and has sufficient knowledge of techniques & tools used in the project work	Identified and has inadequate knowledge of techniques & tools used in the project work
Project work impact on Society	Conclusion of project work has strong impact on society	Conclusion of project work has considerable impact on society	Conclusion of project work has feeble impact on society

Rubric	Excellent (Wt = 3)	Good (Wt = 2)	Fair (Wt = 1)
Project work impact on Environment	Conclusion of project work has strong impact on Environment	Conclusion of project work has considerable impact on environment	Conclusion of project work has feeble impact on environment
Ethical attitude	Clearly understands ethical and social practices.	Moderate understanding of ethical and social practices.	Insufficient understanding of ethical and social practices.
Independent Learning	Did literature survey and selected topic with little guidance	Did literature survey and selected topic with considerable guidance	Selected a topic as suggested by the supervisor
Oral Presentation	Presentation in logical sequence with key points, clear conclusion and excellent language	Presentation with key points, conclusion and good language	Presentation with insufficient key points and improper conclusion
Report Writing	Status report with clear and logical sequence of chapters using excellent language	Status report with logical sequence of chapters using understandable language	Status report not properly organized
Time and Cost Analysis	Comprehensive time and cost analysis	Moderate time and cost analysis	Reasonable time and cost analysis
Continuous learning	Highly enthusiastic towards continuous learning	Interested in continuous learning	Inadequate interest in continuous learning
External Exam	ination		
Selection of Topic	Selected a latest topic through complete knowledge of facts and concepts	Selected a topic through partial knowledge of facts and concepts	Selected a topic through improper knowledge of facts and concepts
Analysis and Synthesis	Thorough comprehension through analysis/ synthesis	Reasonable comprehension through analysis/ synthesis	Improper comprehension through analysis/ synthesis
Design Skills	Best design/modeling for the selected topic	Good design/ modeling for the selected topic	Moderate design/modeling for the selected topic
Literature Survey	Thorough comprehension about what is proposed in the literature papers	Reasonable comprehension about what is proposed in the literature papers	Improper comprehension about what is proposed in the literature
Usage of Techniques & Tools	Clearly identified and has complete knowledge of techniques & tools used in the project work	Identified and has sufficient knowledge of techniques & tools used in the project work	Identified and has inadequate knowledge of techniques & tools used in project work
Project work impact on Society	Conclusion of project work has strong impact on society	Conclusion of project work has considerable impact on society	Conclusion of project work has feeble impact on society
Project work impact on Environment	Conclusion of project work has strong impact on Environment	Conclusion of project work has considerable impact on environment	Conclusion of project work has feeble impact on environment
Ethical attitude	Clearly understands ethical and social	Moderate understanding of	Insufficient understanding of ethical and social practices.

Rubric	Excellent (Wt = 3)	Good (Wt = 2)	Fair (Wt = 1)
		practices.	
Independent Learning	Did literature survey and selected topic with little guidance	Did literature survey and selected topic with considerable guidance	Selected a topic as suggested by the supervisor
Oral Presentation	Presentation in logical sequence with key points, clear conclusion and excellent language	Presentation with key points, conclusion and good language	Presentation with insufficient key points and improper conclusion
Report Writing	Status report with clear and logical sequence of chapters using excellent language	Status report with logical sequence of chapters using understandable language	Status report not properly organized
Time and Cost Analysis	Comprehensive time and cost analysis	Moderate time and cost analysis	Reasonable time and cost analysis
Continuous learning	Highly enthusiastic towards continuous learning	Interested in continuous learning	Inadequate interest in continuous learning

ASSESSMENT RUBRICS FOR SEMINAR

Rubric	Excellent (Wt=3)	Good (Wt=2)	Fair (Wt=1)
Selection of Topic	Selected a latest topic through complete knowledge of facts and concepts	Selected a topic through partial knowledge of facts and concepts	Selected a topic through improper knowledge of facts and concepts
Analysis and Synthesis	Thorough comprehension through analysis/ synthesis	Reasonable comprehension through analysis/ synthesis	Improper comprehension through analysis/ synthesis
Literature Survey	Extensive literature survey with standard references	Considerable literature survey with standard references	Incomplete literature survey with substandard references
Identification of Techniques & Tools	Clearly identified and has complete knowledge of techniques & tools used in the literature pertaining to seminar topic	Identified and has sufficient knowledge of techniques & tools used in the literature pertaining to seminar topic	Identified and has inadequate knowledge of techniques & tools used in the literature pertaining to seminar topic
Independent Learning	Did literature survey and selected topic with little guidance	Did literature survey and selected topic with considerable guidance	Selected a topic as suggested by the supervisor
Oral Presentation	Presentation in logical sequence with key points, clear conclusion and excellent language	Presentation with key points, conclusion and good language	Presentation with insufficient key points and improper conclusion
Report Writing	Report with clear and logical sequence of chapters using excellent language	Report with logical sequence of chapters using understandable language	Report not properly organized
Continuous learning	Highly enthusiastic for continuous learning	Interested in continuous learning	Inadequate interest in continuous learning

ASSESSMENT RUBRICS FOR COMPREHENSIVE VIVA-VOCE

Rubric	Excellent (Wt = 3)	Good (Wt = 2)	Fair (Wt = 1)
Knowledge in the Program Domain	Sound knowledge in the program domain	Adequate knowledge in the program domain	Inadequate knowledge in the program domain
Analysis	Thorough comprehension through analysis/ synthesis	Reasonable comprehension through analysis/ synthesis	Improper comprehension through analysis/ synthesis
Design Skills	Clear demonstration of design/modeling	Moderate demonstration of design/modeling	Partial demonstration of design/modeling
Problem Solving	Exhibit strong problem solving skills	Exhibit average problem solving skills	Exhibit limited problem solving skills
Usage of Tools &Techniques	Clearly identify and has complete knowledge of techniques & tools used in the program	Identify and has sufficient knowledge of techniques & tools used in the program	Identify and has inadequate knowledge of techniques & tools used in the program
Solution to Society needs	Clearly propose solution to the society needs	Propose reasonable solution to the society needs	Propose partial solution to the society needs
Environment & sustainability	Very conscious about giving solution with concerns on Environmental impacts and sustainability	Reasonably conscious about giving solution with concerns on Environmental impacts and sustainability	Limited conscious about giving solution with concerns on Environmental impacts and sustainability
Ethical attitude	Clearly understands ethical and social practices.	Moderate understanding of ethical and social practices.	Insufficient understanding of ethical and social practices.
Function Individually	Strong enough to face situations.	Reasonably strong to face situations.	Fair to Face situations
Presenting views persuasively	Presenting views clearly and accurately	Presenting views reasonable	Presenting views inadequately
Exhibit professionalism	Exhibit competent Professional manners for career progression	Exhibit reasonable Professional manners for career progression	Exhibit ordinary Professional manners for career progression

Note: The evaluation rubrics for practical courses shall be formulated by the Department based on the Course Outcomes of respective courses.

ANNEXURE-II



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI-517 102

		<u>GRADUATE EXIT SURVEY (UG)</u>
Name: Roll Nur Year/Se		Department: Branch: er:
the app	ropriat	ested to give your prudent feedback on the following by marking ($$) in te box. and 5 is high
I.	KNO	WLEDGE
	i.	Knowledge in the courses studied provides the depth for course progression
		and are relevant to career aspirations.
	ii.	Teaching methods adopted help to acquire the knowledge.
	iii.	The quality of teaching in linking the knowledge content to application.
II.	SKIL	.LS
Theor	ry and	Laboratory courses contain the content to develop:
	a. s	kills to Analyze problems and cases in the course / program
		1 2 3 4 5
	b. D	esign and development of systems and processes
		1 2 3 4 5
	с. Р	roblem solving skills in the domain.
		1 2 3 4 5
	d. S	kills in devising experiment protocols/reports and communicate well with the
	d	omain experts.
	1	
III.		LICATION
	i.	Ability to apply new tools and software relevant to your laboratory sessions or
	1.	in project work.
	ii.	Ability to write case studies relevant to the course domain.
		1 2 3 4 5

IV. ATTITUDE

IV. A		UDE
	a.	Ability to work individually and in a team in a lab session and executing a
		project.
	b.	Course content prepares you to plan solutions for societal needs.
	с.	Course content help you understand and create eco- friendly solutions
	d.	Awareness to ethical code and practice.
	e.	Courses/Program stimulates you to further acquire skills and knowledge in the
		domain.
		1 2 3 4 5
Suggestions curriculum:	for	inclusion of new courses/technologies/tools etc to be included in the

Date:

Time:

	(Autonomous)	SREE SAINATH NAGAR, TIRUPATI-517 102
-	n & Disc Graduat	-
nd cur he app	riculum ropriate	
I.		and 5 is high VLEDGE
	i.	The extent of knowledge of mathematics and basic sciences useful in yo career exploration and progression.
	ii.	Depth of core courses relevant to your professional aspiration.
		1 2 3 4 5
	iii.	The diversity of electives offered helped in expanding the breadth knowledge.
		1 2 3 4 5
II.	SKILL	_S
	The le	vel of competence to
		alyze complex engineering problems acquired during the program for providilutions in your career.
		esign solutions, system components or processes for complex engineer oblems to meet the specified needs
		nthesis of knowledge, design skills and analysis and interpretation of data ovide valid conclusions
		1 2 3 4 5
		e level of communication skills developed during the program useful in yo ofession.
III.	APPL	
	i.	Competency to apply modern tools and technologies in your profession.
	ii.	The level of comfort in decision making and project management skills your profession.
		1 2 3 4 5

IV.	ATTI	TUDE
	i.	Function effectively as an individual and as a member or leader in diverse teams
		1 2 3 4 5
	ii.	Awareness to societal responsibilities relevant to the profession while providing solutions.
	iii.	Understanding of the impact of the professional engineering solutions in compliance to environmental consciousness
	iv.	Application of ethical principles and code in profession
	v.	Attitude to upgrade your skills and knowledge through quality improvement programs and higher education.
		1 2 3 4 5
uggesti ırriculu		inclusion of new courses/ technologies/ tools etc to be included in the

Date:

Time:

SREE VIDYAN Engi	neering College (Autonomous)	(AUTONOMOUS) SREE SAINATH NAGAR, TIRUPATI-517 102
		EMPLOYER SURVEY (UG)
lame: Designa	tion:	Organization: Experience:
urricul	um and	sted to peruse the program education objectives, program outcomes d quality of students recruited in your organization for giving you lock on the following by marking ($$) in the appropriate box.
Note: 1	is low a	and 5 is high
I.	KNOW	VLEDGE
	i.	Program covers all the requisite knowledge content suitable for employment
	ii.	Broad curricular areas help the student in gaining knowledge for securing job and subsequent progression.
	iii.	Elective courses offered are contemporary enough to suit the needs of th
		organization.
II.	SKILL	.s
	i.	The standard of quality of skills to implement the project upon induction.
		a. Analysis of critical real time problems
		b. Design and development of systems, models and processes
		1 2 3 4 5
		c. Problem solving abilities to arrive at feasible solutions
	ii.	Curricular components – projects, seminars help the students in gaining skill
		to prepare project proposals and reports.
III.		
	i.	Recruitee's ability to apply their knowledge, skills and modern tools an software for appropriate solutions in the assigned project domain.
	ii.	Applying managerial, administrative principles with financial literacy for successful project execution

i.	The extent of individual skills and contribution to the Recruitee's team in the project.
ii.	Recruitee's sensitivity to social needs in bringing innovative proposal and ideas
	1 2 3 4 5
iii.	Awareness to environmental issues, if any while implementing the project.
	1 2 3 4 5
iv.	Commitment and ethical values of the Recruitee
	1 2 3 4 5
۷.	Recruitee shows enthusiasm to upgrade the skill set and knowledge for new assignments and professional development.

Suggestions for inclusion of new courses/ technologies/ tools etc to be included in the curriculum:

Date:

Time:

VIDYANIKETHAN Engineering College (Autonomous)		S	REE S	AINATH NAC		MOUS) TIRUPATI-5	17 102			
		<u>9</u>	COUI	RSE-END	SUR	VEY (UG	i)			
Name: Roll Number: Year/Semester:						Depa Bran Cour		ent:		
You are request the appropriate <i>Note: 1 is low a</i>	box	•	ır pr	udent fe	edba	ack on tl	ne fol	lowing t	oy markin	g (√) in
Course Content	and	organizati	on							
i. Course objective	es we	ere clear an	d we	re specifie	ed in	the begir	ning			
	1		2		3		4		5	
ii. Attainment of c	ours	e objectives	s ach	ieved						
	1		2		3		4		5	
Learning enviro	nme	nt and tea	chin	g metho	ds					
i. The learning and	d tea	ching meth	ods e	encourage	ed pa	rticipatior	ı			
	1		2		3		4		5	
ii. Overall environ	ment	t in the clas	s wa	s conduciv	ve fo	r learning				
	1		2		3		4		5	
Learning resour	ces									
i. The provision of	lear	ning resour	ces i	n the libra	ary w	as adequ	ate ar	nd approp	riate	
	1		2		3		4		5	
Quality of delive	ery									
i. Course stimulat	ed in	terest and	thoug	ght on the	sub	ject area				
	1		2		3		4		5	
ii. Ideas and conc	epts	were prese	nted	clearly						
A	1		2		3		4		5	
Assessment i. The method of a	15505	sment was	reac	onable						
	1		2		3		4		5	
ii. Feedback on as	sess	ment was h	elpfu	ıl						
									5	

competitive e		3	E etc.) were	covered during the
		3	4	5
		3	4	5
improvement:	:			

Place: