Internal Quality Assurance Cell

(IQAC)

The Internal Quality Assurance Cell (IQAC) was Established at the Sri Indu College of Engineering & Technology, Sheriguda, Ibrahimpatnam, Hyderabad on 05-08-2016. The IQAC Committee includes all stakeholders of the Institute, i.e. students, alumni, all Department and Section Heads also including the Library, Sports, Students Hostel, Examination & Evaluation, co-curricular and extra-curricular activities, members of the Management and Administration, and members of local community and industry experts.

Objectives

The Primary aim of IQAC is

- To develop a system for conscious, consistent, and catalytic action to improve the academic and administrative performance of the institution.
- To create a good quality culture
- To channelize the efforts and measures of the institution towards academic excellence.

Strategies

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
- Optimization and integration of modern methods of teaching and learning.
- To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.
- The relevance and quality of academic and research programmes.
- The credibility of evaluation procedures.

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Functions

Some of the functions expected of the IQAC are

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
- Organization of workshops, seminars on quality-related themes and promotion of quality circles.
- Development of Quality Culture in the institution.
- Dissemination of information on the various quality parameters of higher education.
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
- Acting as a nodal agency of the institution for quality-related activities.
- Preparation of the Annual Quality Assurance Report (AQAR) to be submitted to NAAC based on the quality parameters.

Benefits

IQAC will facilitate / contribute

- Ensure heightened level of clarity and focus in institutional functioning towards quality enhancement.
- Ensure enhancement and coordination among various activities of the institution and institutionalize all good practices.
- To provide a sound basis for decision making to improve institutional functioning
- Act as a dynamic system for quality changes in HEIs

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- To improve internal communication.

Outcomes of IQAC Activities

- To improve internal communication.
- Accreditation – NAAC, NBA
- National Ranking – NIRF
- International Ranking
- AICTE Approval for professional courses
- UGC Graded autonomy
- Media Rankings
- MHRD All India Survey for Higher Education
- Swachh Bharat Summer Internship Program
- Swachhta Ranking
- Feedback from stakeholders
- Curriculum for Applied Learning
- Promoting Technology Enhanced Learning – MOOC
- Annual Quality Assurance Report

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Signature with Seal
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Internal Quality Assurance Cell (IQAC)/ Internal Quality Assurance System (IQAS) has contributed significantly for institutionalizing the quality assurance strategies and processes, by constantly reviewing the teaching-learning process, structures & methodologies of operations and learning outcomes, at periodic intervals Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives

Some of the Key aspects mentioned are:

1. Motivating Faculty and Students to participate in NPTEL-like MOOC Courses. To Encourage this, Fee reimbursement has been implemented. Also, it has been given a choice in the Regulations for students to opt for credit transfer against elective courses in the regulations.
2. Based on the observations in the past years a detailed checklist has been prepared for the preparation of Course Files for each subject in consultation with all the senior faculty.
3. A procedure has been devised to prepare handouts for all subjects in a particular semester.
4. Workshops are conducted regularly to calculate the Course Outcomes and Attainments.
5. CO-PO Attainment awareness is created through the PAC and DAC of the departments.
6. The target value for the current year is arrived at based on the previous year's attainments and targets. Attainments on outcomes of each course are calculated based on Direct and Indirect Attainments.
7. The Overall Outcomes of each batch are calculated and necessary inputs were obtained to make improvements in the forthcoming years.

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8. To improve the performance of students in placement, necessary advice is given for the conduct of CRT Programmes which includes company-specific training, weekly Aptitude tests, Comprehension Viva part of regular course work to be conducted every week etc.
9. Regulations and syllabus should be updated whenever there is requirement or once in 2 years
10. NEP should be included and implemented wherever there is apossibility
11. To Enhance students creative thinking and Innovative Ideas Hackathons to be conducted once in a year
12. Regular Training programme and workshops on recent technologies should be executed by the Departments
13. To make the students societal consciousness, Outreach programmes on various topics which is need for the general publics to be executed. In this students groups should be motivated on the importance of being social conscience
14. Derived the action plan for Participation in NIRF, ARIIA, Times Report and on various other Ranking systems
15. To inform parents about the progress of their wards

The IQAC is continuously ensuring various quality assurance steps at all levels of the institution functioning as Teaching Learning process – Outcome Based Education (OBE), Institute Innovation Council (IIC), Utilization of ICT Tools, Industrial tie-ups, Learning Resources, Research Publications and Patents, participation of faculty in FDP/STTP and Micro, Small & Medium Enterprises Host Institute (MSME-HI).

Teaching Learning process –OBE

The OBE systems are flexible and holistic curriculum development process with stakeholders' participation, Avoiding the gap between formal education and career training, Significant skill development among the learners, Learner-centered classroom approach rather than Teacher-centric, Activity-based curriculum in which the teacher performs and the learner manipulates, Measure of learner's actual performance, Collaborative and blen

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skills, Emphasis on much needed soft skills like, interpersonal skills, analytical skills and working attitude.

Institute Innovation Council (IIC)

The IIC includes various entrepreneurial and innovative activities, Organizing regular workshops/seminars, Identifying and rewarding innovations through mini-projects in emerging areas, interactions through successful entrepreneurs, investors and offering mentoring support for student innovators, Conducting project expo among various domain students and motivating participants in the Hackathons, idea competition, startup ideas, mini-challenges and Intellectual Property Rights (IPR) Cell etc.

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NBA & NAAC Accredited, Approved by AICTE and Permanently Affiliated to JNTUH.
Sheriguda(V), Ibrahimpatnam(M), R.R Dt.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Sample Co & Po Attainment

S.NO	CONTENT LIST
1	Subject list
2	CO Statememts
3	Performance Indicators
4	PO/PSO Tables
5	CO Attriculation Matrix
6	CO Assessment Tools
7	Revised Bloom's Taxanomy
8	CO 80% of CIE Attainment
9	CO SEE Attainment
10	CO Rubrics
11	CO Direct Attainments
12	CO Indirect Attainment Sample responses
13	CO Indirect Attainments
14	CO Overall Attainment
15	Percentage of Students Attained CO
16	PO Assessment Tools
17	PO/PSO Direct Attainments
18	Alumni Survey Format
19	Exit Students Survey Format
20	PO/PSO Indirect Attainments
21	PO/PSO Overall Attainment
22	PO/PSO Target Attainment
23	Course outcome attainment
24	CO CIE attainment

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Department of Electronics and Communication Engineering

2019-23 Subjects List

S.No	Course Code	Course Title
		I Year – I Semester
1	R18MTH1101	Mathematics–I
2	R18EAP1101	(LinearAlgebraandCalculus)
3	R18CSE1101	AppliedPhysics
4	R18MED1102	Programming forProblemSolving
5	R18EAP12L1	EngineeringGraphics
6	R18CSE12L1	AppliedPhysicsLab
7	R18HAS1102	ProgrammingforProblemSolvingLab
8	R18IPG1101	EnvironmentalScience
		I Year – II Semester
9	R18MTH1201	Mathematics – II
10	R18ECH1101	Chemistry
11	R18EEE1101	BEE
12	R18MED1101	Engineering Workshop
13	R18HAS1101	English
14	R18ECH12L1	EC Lab
15	R18HAS12L1	ELCS Lab
16	R18EEE12L2	BEE Lab
		II Year – I Semester
17	R18ECE2101	ElectronicDevicesandCircuits
18	R18EEE2107	NetworkTheory
19	R18ECE2102	DigitalLogicDesign
20	R18ECE2103	SignalsandSystems
21	R18ECE2104	ProbabilityTheoryandStochasticProcesses
22	R18ECE21L1	ElectronicDevicesandCircuitsLab
23	R18ECE21L2	DigitalLogic DesignLab
	R18ECE21L3	BasicSimulationLab
24	R18MAC2100	GenderSensitizationLab
		II Year – II Semester
25	R18MTH2201	LaplaceTransforms, NumericalMethods& Complex Variables
26	R18ECE2201	ElectromagneticTheoryAndTransmission Lines
27	R18ECE2202	AnalogandDigitalCommunications
28	R18ECE2203	Linear andDigitalICApplications
29	R18ECE2204	ElectronicCircuitAnalysis
30	R18ECE22L1	AnalogandDigitalCommunicationsLab
31	R18ECE22L2	ICApplicationsLab
	R18ECE22L3	ElectronicCircuitAnalysisLab
	R18MAC2200	IntellectualPropertyRights
		III Year – I Semester
33	R18MBA2201	BusinessEconomics&FinancialAnalysis
34	R18ECE3101	Microprocessors&Microcontrollers
35	R18INF3103	DataCommunicationsand Networks
36	R18EEE2202	ControlSystems
37	R18CSE3114	ComputerOrganization&OperatingSystems
38	R18ECE31L1	Microprocessors&MicrocontrollersLab
39	R18INF31L2	DataCommunicationsandNetworksLab
40	R18HAS31L1	AdvancedCommunicationSkills Lab
		III Year – II Semester
41	R18ECE3201	AntennasandWavePropagation
42	R18ECE3202	DigitalSignalProcessing
43	R18ECE3203	VLSIDesign

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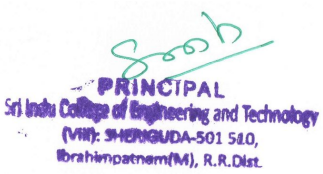
44	R18ECE3221	EmbeddedSystemDesign
45	R18ECE3273	ConsumerElectronics
46	R18ECE32L1	DigitalSignalProcessing Lab
47	R18ECE32L2	e–CADLab
IV Year – I Semester		
49	R18ECE4101	MicrowaveandOpticalCommunication
50	R18HAS4101	ProfessionalPractice,Law&Ethics
51	R18ECE4131	Digital Image Processing
52	R18ECE4131	Cellular and Mobile Communications
53	R18ECE4183	Principles of Modern Communication Systems
55	R18ECE41L1	Microwave&OpticalCommunicationsLab
IV Year – II Semester		
57	R18ECE4251	Satellite Communications
58	R18ECE4261	WirelessCommunication&Networks
59	R18ECE4293	Audio andVideoEngineering



SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

COURSE OUTCOMES

I YEAR ECE SEMESTER - I (REGULATION – R18)

ACADEMIC YEAR: 2019- 2023

Course Code & Name: R18MTH1101 – Mathematics–I

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C111.1	Write the matrix representation of a set of linear equations and to analyze the solution of the system of equations (L4-Analyse)
C111.2	Reduce the quadratic form to canonical form using orthogonal transformations (L3-Apply)
C111.3	Analyse the nature of sequence and series (L4-Analyse)
C111.4	Solve the applications on mean value theorems (L3-Apply)
C111.5	Evaluate the improper integrals using Beta and Gamma functions (L5-Evaluate)
C111.6	Find the extreme values of functions of two variables with / without constraints (L3-Apply)

Course Code & Name: R18EAP1101 – AppliedPhysics

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C112.1	The concepts would be able to learn the fundamental concepts on Quantum behavior of matter in its micro state and dual nature. (L3-Applying).
C112.2	The knowledge of fundamentals of the semiconductors, semiconductor diodes and transistors. (L3-Applying).
C112.3	Analyzing the principle and working of various optoelectronic devices like solar cell, photo diode, etc. (L4-Analyzing).
C112.4	Study about characteristics of lasers and transmission of signal in optical fiber.(L4-Analyzing)
C112.5	Evaluate the polarization phenomenon in dielectrics and magnetization in magnetic materials and principles of electromagnetism. (L5 -Evaluating).
C112.6	Able to Design and characterize to study the properties of materials help to prepare new materials for engineering applications. (L6-Creating).

Course Code & Name:R18CSE1101 PROGRAMMING FOR PROBLEM SOLVING (113)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C113.1	Formulate algorithms/flowcharts there by translating them into programs using variables with various data types , looping and selection statements.(L6-create)
C113.2	Implement logic building techniques using control statements and arrays (L3-apply)
C113.3	Construct modular and structure programming using functions, strings and structures.(L3-Apply)
C113.4	Analyze the iteration with recursion and implementation macros. (L4-Analyze)
C113.5	Illustration of pointers and implement memory management techniques and file handling approach. (L4-Analyze)
C113.6	Implement search and sort operations on arrays.(L3-Apply)

Course Code & Name: R16CSE1101 – Computer Programming

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C114.1	Formulate simple algorithms and translate the algorithms to programs using C language. (L3-Apply)
C114.2	Develop a c program by using problem solving techniques. (L6-Create)
C114.3	Implement operators, decision making and loop statements to solve the given problem. (L3-Apply)
C114.4	Categorize the given data to solve the problem by applying arrays, pointers and strings. (L4-Analyze)
C114.5	Decompose a problem into functions and to develop modular reusable code. (L4-Analyze)
C114.6	Analyze the usage of structures and union. (L4-Analyze)

Course Code & Name: R18MED1102 ENGINEERING GRAPHICS

Upon the completion of the course, Students will be able to:

Course Name	**Course outcomes**
C115.1	Acquire requisite basic knowledge, techniques for the study of engineering graphics.(L4)
C115.2	Comprehend the basics of orthographic projections and deduce orthographic projections of a points, lines and planes at different orientations.(L3)
C115.3	Imagine orthographic views of various solid objects at different orientations. (L5)
C115.4	Understanding the meaning of sectioning and to anlalyse the internal details of solids.(L3)
C115.5	Develop the surfaces and Intersection of right regular solids.(L4)
C115.6	Recognize the significance of isometric and perspective views to relate 2D with 3D and to create 2D sketches by Auto CAD package.(L4)

Course Code & Name: R18EAP12L1 APPLIED PHYSICS LAB (115)

Upon the completion of the course, Students will be able to:

Course Name	**Course outcomes**
C116.1	The concepts would be able to learn the fundamental concepts on Quantum behavior of matter in its micro state and dual nature. (L3-Applying).
C116.2	The knowledge of fundamentals of the semiconductors, semiconductor diodes and transistors. (L3-Applying).
C116.3	Analyzing the principle and working of various optoelectronic devices like solar cell, photo diode, etc. (L4-Analyzing).
C116.4	Study about characteristics of lasers and transmission of signal in optical fiber.(L4-Analyzing).
C116.5	Evaluate the polarization phenomenon in dielectrics and magnetization in magnetic materials and principles of electromagnetism. (L5 -Evaluating).
C116.6	Able to Design and characterize to study the properties of materials help to prepare new materials for engineering applications. (L6-Creating).

Course Code & Name: R18CSE12L1 PROGRAMMING FOR PROBLEM SOLVING LAB

Upon the completion of the course, Students will be able to:

Course Name	**Course outcomes**
C117.1	Formulate algorithms/flowcharts there by translating them into programs using variables with various data types , looping and selection statements.(L6-create)
C117.2	Implement logic building techniques using control statements and arrays (L3-apply)
C117.3	Construct modular and structure programming using functions, strings and structures.(L3-Apply)
C117.4	Analyze the iteration with recursion and implementation macros. (L4-Analyze)
C117.5	Illustration of pointers and implement memory management techniques and file handling approach. (L4-Analyze)
C117.6	Implement search and sort operations on arrays.(L3-Apply)

COURSE OUTCOMES
I YEAR ECE SEMESTER - II (REGULATION – R16)
ACADEMIC YEAR: 2017 – 2018

Course Code & Name: R18MTH1201) MATHEMATICS– II(ADVANCEDCALCULUS)(121)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C121.1	Apply the methods to solve the first order differential equations and its applications **(L3-Apply)**
C121.2	Analyze the methods to solve the higher order differential equations and its applications **(L4-Analyse)**
C121.3	Evaluating multiple integrals in Cartesian and polar forms **(L5-Evaluate)**
C121.4	Apply the multiple integrals to find the areas, volumes, centre of mass and gravity for cubes and spheres **(L3-Apply)**
C121.5	Solving vector and scalar point functions- Gradient, Divergence, Curl **(L3-Apply)**
C121.6	Evaluate the line, surface, volume integrals and converting them from one to another **(L5-Evaluate)**

Course Code & Name: R18ECH1101 CHEMISTRY(122)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C122.1	Illustrate the molecular orbital energy level diagram of different molecular species(L3-Applying)
C122.2	Analyze the impurities present in the water for industrial and domestic applications.(L4-Analyzing)
C122.3	Describe and understand the operation of electrochemical cells for the production of electric energy, i.e. batteries(L3-Applying)
C122.4	Summarise the effects of corrosion to indicate the use of alloys in various metallic structures(L3-Applying)
C122.5	The knowledge of configurational and conformational analysis of molecules and reaction mechanisms.(L4-Analyzing)
C122.6	Identify & recognize the role of polymers and lubricants in various fields (L3-Applying)

Course Code & Name: R18EEE1101 BASIC ELECTRICAL ENGINEERING (113)

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Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C123.1	To analyze and solve electrical circuits using network laws and theorems.(L3 & L4- Applying & Analyze)
C123.2	To understand and analyze basic Electric and Magnetic circuits(L4- Analyze)
C123.3	To study and design the transformer. (L3&L6-Applying & Create)
C123.4	Summarize the regulation and efficiency of Transformer. (L5- Evaluating)
C123.5	To study the working principles of Electrical Machines and design. . (L3&L6-Applying & Create)
C123.6	To introduce components of Low Voltage Electrical Installations.(L3-Applying)

Course Code & Name: R18MED1101 ENGINEERING WORKSHOP (101)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C124.1	Ability to design and model different prototypes in the carpentry trade such as crossl apjoint,dovetail joint etc.
C124.2	Identify and apply suitable tools for difeferent trades if Engineering processes including drilling ,material removing ,measuring,chiseling in fitting(L3 Applying)
C124.3	Identify Tools and Techniques Used for Sheet Metal Fabrication. (**L3applying**)
C124.4	Apply the Skills of basic electrical engineering for house wiring practice. (**L3applying)**
C124.5	Practice on manufacturing of components using workshop trades including Black smithy and Foundry. .(**L3applying)**
C124.6	Use Welding Equipment to join the structures.(**L3applying)**

Course Code & Name: R18HAS1101 ENGLISH(115)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C125.1	Developing the language proficiency of students in English with an emphasis on vocabulary, grammar and pronunciation **(Create L6)**.
C125.2	Understand the given texts and respond appropriately.(**Understand L2)**
C125.3	Communicate and integrate confidently in various contexts and different cultures **(Create L6**)
C125.4	Acquire basic proficiency in English in describing, reading, listening comprehension, writing and speaking skills **(Remember L1)**.
C125.5	Develop an awareness in the students about the significance of silent reading, analyzing and comprehending (**Analyze L4)**.
C125.6	use English language effectively in spoken and written forms in both formal and informal situations**.(Apply L3**).

Course Code & Name: R18ECH12L1 ENGINEERING CHEMISTRY LAB (126)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C126.1	DeDetermination of parameters like hardness and chloride content in water(L2-Understanding)
C126.2	Determine the strength of solutions by the property of conductance(L2-Understanding)
C126.3	Determine the concentration of solutions by emf potentiometrically. (L1-Remembering)
C126.4	Estimate the ions present in the given solution by potentiometrically. (L5-Evaluating)
C126.5	Evaluate the percentage of yield of drug molecules by organic synthesis (L5-Evaluating)
C126.6	Determine the physical properties of liquids (L2-Understanding)

Course Code & Name: R18HAS12L1 ENGLISHLANGUAGEANDCOMMUNICATIONSKILLS LAB(117)	
Upon the completion of the course, Students will be able to:	

Course Name	Course outcomes
C127.1	Students will be able to speak effectively in English, through a well developed vocabulary**(Evaluate, L5)**
C127.2	Students will be able to express and communicate fluently and appropriately in social professional context**(Analyze L4)**
C127.3	The development of comprehensive ability through English Language enables the Students in understanding and assimilating other Engineering subjects **(Evaluate, L5)**
C127.4	The awareness of English Lab enriches their communication and soft skills contributing to their overall development and success. **(Analyze L4)**
C127.5	Students will be able to draft various letters and reports for all official purposes. **(Analyze L4)**
C127.6	facilitate computer assisted multimedia instructions enabling individualized and independent language learning **(Analyze L4)**

Course Code & Name: R18EEE12L2 BASIC ELECTRICAL ENGINEERING LAB(118)	
Upon the completion of the course, Students will be able to:	

Course Name	Course outcomes
C128.1	Get an exposure to basic electrical laws.L1 APPLYING
C128.2	Understand the response of different types of electrical circuits to different excitation.L3 UNDERSTANDING
C128.3	Understand the measurement and calculation of Resonance. L3 UNDERSTANDING
C128.4	Understand the efficiency and regulation of transformers. L3 UNDERSTANDING
C128.5	Evaluate the powers of transformers.L1APPLYING
C128.6	Understand the characteristics and efficiency of electrical machines. L3 UNDERSTANDING

COURSE OUTCOMES
II YEAR ECE SEMESTER - I (REGULATION – R18)
ACADEMIC YEAR: 2018 – 2019

Course Name & Code: :(R18ECE2101) ELECTRONIC DEVICES AND CIRCUITS(211)	
Upon completion of the course, students will be able to:	
	Course outcomes
C211 [1]	Identify the construction, operation and characteristics of electronic devices like P-N- Junction and special Purpose diodes (K3-Applying).
C211 [2]	Function the application of diode as a rectifier (K4-Analyzing)
C211 [3]	Select the transistors as amplifier and Compare the CE,CB,CC amplifier configurations (K5-Evaluating)
C211 [4]	Analyse the Biasing circuits and stabilization using BJT Transistor Amplifier Circuit (K4-Analyse)
C211 [5]	Interpret the construction, operation and characteristics of FET (K5-Evaluating)
C211 [6]	Select using FET for CS,CD Amplifiers (K4-Analyse)

Course Code & Name: R18EEE2107) NETWORK THEORY (212)	
Upon completion of the course, Students will be able to:	
	Course outcomes
C212 [1]	Identify the basic of Magnetic Circuits (K3-Apply)
C212 [2]	Analyse the planar networks by using Graph Theory (K4-Analysing)
C212 [3]	Analyse the three phase circuits using Star Delta connection(K4-Analysing)
C212 [4]	Evaluate Transient Response, Steady State response by using Laplace Transform method(K5-Eveluting)
C212 [5]	Evaluate Two Port network parameter and analyse the transmission line and transistor network(K5-Evulauting)

C212 [6]	Compare and explain different filters (K5-Evaluting)

Course Code & Name:(R18ECE2102) DIGITAL LOGIC DESIGN (213)	
Upon completion of the course, Students will be able to:	
C213 [1]	Illustrate the given Boolean expressions by using theorems &properties for SOP&POS forms and K-maps, BCD, Code Conversions. (K3-Apply)
C213 [2]	Design &analyze combinational logic circuits. (K6-Create)
C213 [3]	Explain the operation &timing constrains for Latches &Flip-Flops, Registers and counters. (K5- Evaluting)
C213 [4]	Design &analyze sequential circuits. (K6-Create)
C213 [5]	Classify the different logic families &Programmable logic devices. (K4-Analyse)
C213 [6]	Use HDL &appropriate EDA tools for digital logic design &simulation. (K3-Apply)

Course Code & Name: :(R18ECE2103) SIGNALS AND SYSTEMS (214)	
Upon Completion of the course, the students will be able to:	
	Course outcomes
C214 [1]	Interpret any signal in terms of complete sets of orthogonal functions and understands the principles of basic signals.(K-Evaluting)
C214 [2]	Analyse Fourier spectrum by using Fourier series and Fourier transforms. (K4-Analysing)
C214 [3]	Make use of sampling theorem to reconstruct signal from its samples.(K3-applying)
C214 [4]	Design a distortion less LTI system and derive filter characteristics of a system. (K6-Create)
C214 [5]	Explain parsevals theorem and concepts convolution, correlation in time domain and frequency domain.(K5-Evaluting)
C214 [6]	Analyze Lapalce Transforms, Fourier Transforms and Z-Transforms.(K4-Analyze)

Course Code & Name:R18ECE2104) PROBABILITY THEORY AND STOCHASTIC PROCESSES (215)	
Upon Completion of the course, the students will be able to:	
	Course outcomes
C215 [1]	Illustrate and formulate fundamental probability distribution and density functions, as well as functions of random variables (K3- Applying)
C215 [2]	Explain the concepts of expectation and conditional expectation, and describe their properties (K5- Evaluting)
C215 [3]	Analyze continuous and discrete-time random processes (K4-Analyzing)
C215 [4]	Explain the concepts of stationary and wide-sense Stationarity, and appreciate their significance (K5- Evaluting
C215 [5]	Apply the theory of stochastic processes to analyze linear systems (K3- Applying)
C215 [6]	Apply the above knowledge to solve basic problems in filtering, prediction and smoothing (K3- Applying)

Course Code & Name:(R18ECE21L1) ELECTRONIC DEVICES AND CIRCUITS LAB.(216)	
Upon Completion of the course, the students will be able to:	
	Course outcomes
C216 [1]	Determine the P-N-Junction diode & Zener diode characteristics (K3-Apply).
C216 [2]	Calculate the Input and Output characteristics of BJT and FET (K3-Apply).
C216 [3]	Evaluate Half Wave and Full Wave Rectifier with and without filters (K5-Evaluate).
C216 [4]	Compare Measurement of h-parameters of transistor in CB, CE, CC configurations (K4-Analyse).
C216 [5]	Analyse the Frequency response of CE, CC and Common Source FET Amplifier (K4-Analyse).
C216 [6]	Measure SCR and UJT characteristics (K5-Evaluate).

Course Code & Name:(R18ECE21L2) DIGITAL LOGIC DESIGN LAB (217)	
Upon the completion of the course, Students will be able to:	
	Course outcomes
C217 [1]	Explain theory of Boolean Algebra & the Underlying features of various number systems. (K5-Evaluting)
C217 [2]	Make Use of the concepts of Boolean Algebra for the analysis &design of various combinational logic circuits. (K3-Apply)
C217 [3]	Make use of the concepts of Boolean Algebra for the analysis &design of various sequential logic circuits. (K3-Apply)
C217 [4]	Design various logic gates starting from simple ordinary gates to complex Programmable logic devices & arrays. (K6-Create)
C217 [5]	Analyze the various coding schemes are the part of the digital circuit design. (K4 -Analyse)
C217 [6]	Design of various circuits with the help of VHDL coding techniques. (K6-Create)

Course Code & Name: :R18ECE21L3) BASIC SIMULATION LAB (218)	
Upon the completion of the course, Students will be able to:	
	Course outcomes
C218 [1]	Interpret any signal in terms of complete sets of orthogonal functions and understands the principles of basic signals. (K5-Evaluting)
C218 [2]	Model the Fourier spectrum by using Fourier series and Fourier transforms. (K3-Apply)
C218 [3]	Apply sampling theorem to reconstruct signal from its samples. (K3-Apply)
C218 [4]	Design a distortion less LTI system and derive filter characteristics of a system. (K6-Create)
C218 [5]	Determine convolution, correlation in time domain and frequency domain. (K5- Evulating)
C218 [6]	Analyze Laplace Transforms, Fourier Transforms and Z-Transforms. (K4-Analyze)

Course Code & Name:(R18MAC2100) GENDER SENSITIZATION LAB (219)	
Upon Completion of the course, the students will be able to:	
	Course outcomes
C216 [1]	Identify the important issues related to gender in contemporary India.(K3-Appying)
C216 [2]	Predict basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.(K6-Create)
C216 [3]	Explain a finer grasp of how gender discrimination works in our society and how to counter it.(K5-Evaluting)
C216 [4]	Show insight into the gendered division of labour and its relation to politics and economics.(K2-Understanding)
C216 [5]	Justify Men and women students and professionals will be better equipped to work and live together as equals.(K5-Evaluting)
C216 [6]	Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.(K2-Understang)

COURSE OUTCOMES
II YEAR ECE SEMESTER - I I(REGULATION – R16)
ACADEMIC YEAR: 2018 – 2019

Course Name & Code: : (R18MTH2201) LAPLACE TRANSFORMS, NUMERICAL METHODS & COMPLEX VARIABLES (221)	
Upon completion of the course, students will be able to:	
	Course outcomes
C211 [1]	Make use of the Laplace transforms techniques for solving ODE's (k3-apply)
C211 [2]	Develop the root of a given Equation (k3-apply)
C211 [3]	Determine the value for the data using interpolation. (k5-Evaluting)
C211 [4]	Evaluate the numerical solutions for a given ODE's (k5- evaluate)
C211 [5]	Analyse the complex function with reference to their analyticity, integration using Cauchy's integral and residue theorems (k4-analyse)

C211 [6]	Dertermine complex functions in Taylor’s series & Laurent’s series (k5- Evaluting)

Course Code & Name: R18ECE2201) ELECTROMAGNETIC THEORY AND TRANSMISSION LINES (222)	
Upon completion of the course, Students will be able to:	
	Course outcomes
C212 [1]	Distinguish the electric and magnetic field intensity ,flux density and maxwell’s equations for electric and magnetic static fields (K4-Analysing).
C212 [2]	Apply time varying maxwell’s equations and their applications in electromagnetic propagation (K3-Apply).
C212 [3]	Select maxwell’s equations to describe the propagation of electromagnetic waves in vacuum and dielectric media (K5-Evaluting).
C212 [4]	Identify the reflection and refraction of waves at boundaries (K3-Apply).
C212 [6]	Measure the input and output impedances of transmission lines (K5-Evaluate).

Course Code & Name: (R18ECE2202) ANALOG AND DIGITAL COMMUNICATIONS(223)	
Upon completion of the course, Students will be able to:	
C213 [1]	Distinguish the various elements, processes, and parameters in communication systems, and describe their functions, effects, and interrelationship (K4-Analysing).
C213 [2]	Analyze and compare different analog modulation schemes for their efficiency and Bandwidth (K4-Analyse).
C213 [3]	Illustrate the behavior of a communication system in presence of noise (K3-Apply).
C213 [4]	Describe pulse modulation system and analyze their system performance (K4-Analyse).
C213 [5]	Analyse different digital modulation schemes and to compute the bit error performance (K4- Analyse).

C213 [6]	Identify basic knowledge of optimum demodulation of digital signals (K3-Applying).

Course Code & Name: :(R18ECE2203) LINEAR AND DIGITAL IC APPLICATIONS(224)

Upon Completion of the course, the students will be able to:

	Course outcomes
C214 [1]	Interpret the operational amplifiers with linear integrated circuits (K5-Evaluting).
C214 [2]	Identify the operational amplifiers for various applications (K3-Apply)
C214 [3]	Interpret the circuits based on analog to digital and digital to analog converters (K5- Evaluating).
C214 [4]	Make use of the different families of digital integrated circuits and their characteristics (K3- Applying).
C214 [5]	Analyze the concepts of combinational and sequential circuits (K4-Analyse).
C214 [6]	Evaluate the characteristics of memory and their classification (K5-Evaluate).

Course Code & Name: (R18ECE2204) ELECTRONIC CIRCUIT ANALYSIS(225)

Upon Completion of the course, the students will be able to:

	Course outcomes
C215 [1]	Interpret the single stage amplifiers and multi stage amplifiers. (K5-Evaluting)
C215 [2]	Analyze the DC bias circuitry of BJT and FET. (K4-Analyze)
C215 [3]	Identify the types of amplifier operation and characteristics. (K2-Understand)
C215 [4]	Test the operation of oscillators. (K6-Create)
C215 [5]	Determine efficiency of power amplifier. (K5-Evaluating)
C215 [6]	Design tuned amplifiers and bandwidth by using BJT. (K6-Create)

Course Code & Name: (R18ECE22L1) ANALOG AND DIGITAL COMMUNICATIONS LAB (226)

Upon Completion of the course, the students will be able to:

	Course outcomes
C216 [1]	Experiment with AM wave and calculate the modulation index of AM wave and predict the modulation index (β) of FM wave and simulate (K3-Applying).
C216 [2]	Organize the values of gain in Pre-Emphasis& De-Emphasis and analyse and simulate various pulse modulation techniques (K3-Applying)
C216 [3]	Analyze the AM and FM signals using spectrum analyser and verify the sampling theorem (K4-Analyze)
C216 [4]	Interpret the input and output characteristics of AGC receivers ,sampling and analyze simulate TDM and FDM multiplexing methods. (K5-Evaluating)
C216 [5]	Identify the basic components of digital communication systems and evaluate the base band data transmission techniques (K5-Evaluating)
C216 [6]	Analyze the generation and detection of the digital modulation techniques (K4- Analyze)

Course Code & Name:(R18ECE22L2) IC APPLICATIONS LAB (227)

Upon the completion of the course, Students will be able to:

	Course outcomes
C217 [1]	Apply the Operational amplifier for – Adder, Subtractor, Comparators (K3-Applying).
C217 [2]	Interpret the operational amplifiers with integrated circuits. (K5- Evaluting).
C217 [3]	Apply the operational amplifiers for LPF,HPF.(K3-Apply).
C217 [4]	Make use of operational amplifier for wave form generation(K3-Applying)
C217 [5]	Make use of IC 555, for multivibrator, IC 565 for PLL applications(K3-Applying).
C217 [6]	Experiment with voltage regulator, three terminal voltage regulator (K3-Applying)

Course Code & Name: :(R18ECE22L3) ELECTRONIC CIRCUIT ANALYSIS LAB(228)	
Upon the completion of the course, Students will be able to:	
	Course outcomes
C218 [1]	Determine the gain and bandwidth of common emitter and common base amplifier by using BJT (K5-Evaluating).
C218 [2]	Calculate the gain and bandwidth of common emitter and common source and common gate amplifier by using FET (K3-Analysing).
C218 [3]	Distinguish between gain and bandwidth of the single stage and two stage RC coupled amplifiers (K4- Analysing).
C218 [4]	Analyze the values of gain in feedback amplifiers techniques (current shunt and voltage series) (K4-Analysing).
C218 [5]	Distinguish between the theoretical and practical values of operating frequency in oscillators using transistors (K4-Analysing).
C218 [6]	Measure the efficiency of class A and class b power amplifiers (K5-evaluate).

COURSE OUTCOMES
III YEAR ECE SEMESTER - I (REGULATION – R16)
ACADEMIC YEAR: 2019 – 2020

Course Code & Name: (R18MBA2201) BUSINESS ECONOMICS & FINANCIAL ANALYSIS(311)	
Upon completion of the course, students will be able to:	
	Course outcomes
C311.1	Identify the market demand and supply analysis and pricing in different market structures (K3-applying).
C311.2	Analyze hoe production functions are carried out and analyze the cost (K4-Analysing).
C311.3	Compare the different markets and types of business organization (K4-Analysing).
C311.4	Analyze how capital budgeting decisions are carried out (K4-Analyse).
C311.5	Make use of the framework for both manual and computerized accounting process (K3- Applying).
C311.6	Analyze and interpret financial statements through ratio analysis (K4-Analyse).

Course Code & Name:(R18ECE3101) MICROPROCESSORS AND MICROCONTROLLERS (C312)	
Upon completion of the course, Students will be able to:	
	Course outcomes
C312.1	Describe the internal details of microprocessors 8086
C312.2	Interpret the various types of instruction sets of microprocessor 8086 to write programs.
C312.3	Analyze and apply different interfacing techniques to interface I/O devices with microprocessor 8086.
C312.4	Describe the internal details of microcontroller 8051
C312.5	Interpret the various types of instruction sets of microcontroller 8051 to write programs.
C312.6	Analyze and apply different programming techniques to control its supporting peripheral devices in real time.

Course Code & Name::(R18INF3103) DATA COMMUNICATIONS AND NETWORKS(313)

Upon the completion of the course, students will be able to:

	Course outcomes
C313.1	Identify the terminology and concepts of the OSI reference model and the TCP-IP reference model. (K3-Applying)
C313.2	Explain the transmission media, design issues and determine the CRC codes. (K5-Evaluting)
C313.3	Classify the various protocols of physical layer and MAC layer. (K4-Analysing)
C313.4	Explain the design issues, switching and evaluate the routing algorithms of network layer. (K5-Evaluating)
C313.5	Interpret the various Internetworking and Internet Transport protocols. (K5-Evaluating)
C313.6	Interpret the various application layer protocols. (K5-Evaluting)

Course Code & Name: (R16EEE2202) CONTROL SYSTEMS (314)

Upon Completion of the course, the students will be able to:

	Course outcomes
C314.1	Classify the control systems and feedbacks (K4-Analyse)
C314.2	Construct the block diagram of electrical systems and signal flow graphs (K3-Apply)
C314.3	Analyse the time response and transient response of first order, second order systems proportional derivative proportional integral systems stability of control systems in S- domain through RH criteria (K4-Analyse)
C314.4	Determine the root locus by adding poles and zeros (K5-Evaulating)
C314.5	Analyse the frequency response of system from bode plots, polar plots and nyquist plots (K4- analyse)
C314.6	Compare the state transition matrix with transfer function (K5-Evaluate)

Course Code & Name::(R18CSE3114) COMPUTER ORGANIZATION AND OPERATING SYSTEMS (315)

Upon the completion of the course, Students will be able to:

	Course outcomes
C315.1	Explain the basic structure of computer, register transfer language and micro operations. (K5-Evaluting)
C315.2	Identify the working process and design of micro programmed control unit. (K3- Applying)
C315.3	Interpret the concepts of memory, input-output organization. (K5-Evaluting)
C315.4	Discuss about functions, services of operating system. (K6-Create)
C315.5	Explain the memory management, dead lock and file management concepts. (K5-Evaluting)
C315.6	Discuss about file system interference and implementation of operating system (K6-Creating)

Course Code & Name: :(R18ECE31L1) MICROPROCESSORS AND MICROCONTROLLERS LAB (316)

Upon the completion of the course, Students will be able to:

	Course outcomes
C316.1	Develop the programs for 16-bit arithmetic operation, sorting, searching, string manipulations on 8086 microprocessor. (K6-Creating)
C316.2	Design and develop program for digital clock, parallel communication using 8255 and serial communication using 8251. (K6-Creating)
C316.3	Identify and write program for interfacing ADC, DAC and stepper motor to 8086. (K3- apply)

C316.4	Develop the programs for arithmetic, logical and bit manipulation instructions of 8051 and verify Timer/counter, interrupt handling in 8051 microcontroller. (K6-Creating)
C316.5	Intrepret the interfacing of LCD and Matrix/keyboard to 8051 and communication between 8051 kit and PC. (K5-Evaluting)
C316.6	Develop the program for UART and data transfer program from peripheral to memory through DMA controller 8237/8257. (K6-Creating)

Course Code & Name: (R18INF31L2) DATA COMMUNICATIONS AND NETWORKS LAB(317)

Upon the completion of the course, Students will be able to:

	Course outcomes
C317.1	Apply appropriate algorithm for the finding of shortest route. (K3-Apply)
C317.2	Develop the routing table System / Software Requirement. (K6-Create)
C317.3	Analysis the performance of various protocols in different layers. (K4-Analyze)
C317.4	Create communication between two desktop computers. (K6-Create)
C317.5	Apply appropriate algorithm for the finding of shortest route. (K3-Apply)
C317.6	Use appropriate network tools to build network topologies. (K3-Apply)

Course Code & Name: (R18HAS31L1) ADVANCED COMMUNICATION SKILLS (318)

Upon the completion of the course, Students will be able to:

	Course outcomes
C318.1	Speak effectively (K3-Apply)
C318.2	Express and communicate fluently and appropriately in social professional contexts (K3-Apply)
C318.3	The development of comprehensive ability through English language enables the students in understanding and assimilating other engineering subjects (K2-Understand)
C318.4	The awareness of English lab enriches their communication and soft skills contributing to their overall development and success(K4-Analyze)
C318.5	Draft various letters and reports for all official purpose (K6-Create)
C318.6	Take part in social and professional communication (K3-Apply)

COURSE OUTCOMES
III YEAR ECE SEMESTER - II (REGULATION – R16)
ACADEMIC YEAR: 2019 – 2020

Course Code & Name: (R18ECE3201) ANTENNAS AND WAVE PROPAGATION (321)

Upon the completion of the course, Students will be able to:

	Course outcomes
C321.1	Explain basic terminology and concepts of Antennas (K5-Evaluting).
C321.2	Discuss the basic parameters those are considered in the antenna design process and the analysis (K6-Create).
C321.3	Identify the electric and magnetic field emission from various basic antennas and mathematical formulation of the analysis (K3-apply).
C321.4	Select designed antenna and field evaluation under various conditions(K3-Applying).
C321.5	Design antennas that suits the propagation of the waves at different frequencies through different layers in the existing layered free space environment structure (K6-Creating).
C321.6	Design the bench setup for antenna parameter measurement of testing for their effectiveness (K6-Creating).

Course Code & Name:(R18ECE3202) DIGITAL SIGNAL PROCESSING (322)

Upon the completion of the course, Students will be able to:

	Course outcomes
C322.1	Identify time, frequency and Z - transform analysis on signals and systems. (K3-Applying)
C322.2	Distinguish between the inter-relationship between DFT and various transforms. (K2 Understand)
C322.3	Analyse the Fast computation of DFT and appreciate the FFT processing (K4 Analyze)

C322.4	Analyze IIR Digital Filters for a given specifications (K4 Analyze)
C322.5	Design FIR Digital filters using Window Techniques. (K6 Create)
C322.6	Evaluate the multi rate DSP techniques and finite word length effects. (K5 Evaluate)

Course Code & Name:(R18ECE3203) VLSI DESIGN (323)

Upon the completion of the course, Students will be able to:

	Course outcomes
C323.1	Identify the fabrication process of integrated circuit using MOS transistors. (K3-Applying)
C323.2	Choose an appropriate inverter depending on specifications required for a circuit. (K6- Create)
C323.3	Identify the layout and estimate parasitics of any logic circuit. (K3-Apply)
C323.4	Design different types of logic gates using CMOS inverter. (K6- Create)
C323.5	Design building blocks of datapath using gates and memories using MOS transistors. (K6- Create)
C323.6	Design Programmable logic devices and interpret the concept of testing to improve testability of system. (K6-Create)

Course Code & Name:(R18ECE3221) EMBEDDED SYSTEM DESIGN (324)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C324.1	Classify the embedded systems and explain the characteristics, applications ,quality attributes and purpose of embedded systems(K5-Evaluting)
C324.2	Discuss about the core of the embedded systems and categorize the types of memories and memory selection sensors and actuators and communication interfaces (K6-Create)
C324.3	Apply the various embedded systems hardware circuits and embedded firmware design approaches and Development languages (K3-Apply)
C324.4	Discuss the basics of Operating systems and RTOS and explain multitasking and multiprocessing. (K6-Create)
C324.5	Select the task communication via shared memory Message Passing, Remote Procedure Call and Sockets and explain the Device Drivers (K5-Evaluting)
C324.6	Predict the Task Communication/Synchronization Issues and Techniques, and choose an RTOS. (K5-Evaluating)

Course Code & Name::(R18ECE3273) CONSUMER ELECTRONICS(325)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C325.1	Make use of consumer electronics fundamentals and explain about microprocessors and microcontrollers, energy management and intelligent building perspective (K3- Apply)
C325.2	Categorize the Audio systems, Display systems, video systems and recording systems (K4-Analyse)
C325.3	Explain the smart Home, Home Virtual Assistants, Home security systems and Different types of sensors (K5-Evaluate)
C325.4	Perceive the home enablement systems like RFID Home, kitchen electronics and smart alarms, smart toilet, smart floor and smart locks. (K5-Evaluate)
C325.5	Discuss cordless telephones, Fax machines PDA's TABLETs Smart phones and Smart watches.(K6-Create)
C325.6	Compare and explain Android and iOS and demonstrate Video conferencing systems,Internet enabled systems, Wi-Fi, Li-Fi, GPS and Tracking systems. (K5-Evaluate)

Course Code & Name: :(R18ECE32L1) DIGITAL SIGNAL PROCESSING LAB(326)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C326.1	Determine the sinusoidal waveforms on recursive difference equation and through filtering and DTMF signals. (K5-Evlauting)
C326.2	Intrepret the characteristic of FFT of a given sequence for LP FIR,HP FIR,LP IIR,HP IIR filters.(K5-Evlauting)
C326.3	Calculate the DFT/IDFT of given DT signal and show the frequency response of given system.Impulse response of first order and second order systems. (K3-Apply)
C326.4	Determine the power spectrum of a given sequence. (K5-Evaluting)
C326.5	Inspect Decimation, Interpolation and I/D sampling rate converters. (K4- Analyse)

C326.6	Experiment with the audio application and noise removal. (K3-Apply)

Course Code & Name: R16ECE1207&MICROPROCESSORS AND MICROCONTROLLERS LAB (C327)	
Upon the completion of the course, Students will be able to:	
Course Name	Course outcomes
C327.1	Develop the programs for 16-bit arithmetic operation, sorting, searching, string manipulations on 8086 microprocessor. (K3-apply)
C327.2	Design and develop program for digital clock, parallel communication using 8255 and serial communication using 8251. (K6-Creating)
C327.3	Develop program for interfacing ADC, DAC and stepper motor to 8086. (K6-Creating)
C327.4	Develop the programs for arithmetic, logical and bit manipulation instructions of 8051 and verify Timer/counter, interrupt handling in 8051 microcontroller. (K3-apply)
C327.5	Develop program for interfacing of LCD and Matrix/keyboard to 8051 and communication between 8051 kit and PC. (K6-Creating)
C327.6	Develop the program for UART and data transfer program from peripheral to memory through DMA controller 8237/8257. (K6-Creating)

Course Code & Name:(R18ECE32L2) E-CAD LAB(328)	
Upon the completion of the course, Students will be able to:	
Course Name	Course outcomes
C328.1	Identify the Verilog hardware description languages (HDL) (K3-Appplying).
C328.2	Design various logic gates using HDL. (K6-Create)
C328.3	Make use of the concepts of Boolean algebra for the analysis &design of various combinational logic circuits. (K3-Apply)
C328.4	Make use of the concepts of Boolean algebra for the analysis &design of various sequential logic circuits. (K3-Apply)
C328.5	Design Entry, simulation of flip-flop circuits with test bench & functional verification. (K6- Create)
C328.6	Evaluate the Finite state machine (K5-Evaluating).

COURSE OUTCOMES
IV YEAR ECE SEMESTER - I (REGULATION – R16)
ACADEMIC YEAR: 2020-21

Course Code & Name: (R18ECE4101) MICROWAVE AND OPTICAL COMMUNICATION(411)	
Upon completion of the course, students will be able to:	
Course Code	Course outcomes
C411 [1]	Analyze the (microwave active devices) various Microwave solid state devices, Bipolar transistors, FET, & microwave tubes. (K4- ANALYZE)
C411 [2]	Identify the (microwave active devices) waveguide multiport junctions, ferrite devices. (K3- APPLY)
C411 [3]	Measure the scattering matrix and microwave parameters using Microwave Bench setup (K5- EVALUATE)
C411 [4]	Describe the constructional parameters of optical fibers and calculate the losses. (K3-Apply)
C411 [5]	Explain the optical sources and choose the optical detectors. (K4-Analyse)
C411 [6]	Evaluate optical system, power budget analysis and networking. (K5-Evaluate)

Course Code & Name: :(R18HAS4101) PROFESSIONAL PRACTICE, LAW & ETHICS(412)	
Upon completion of the course, students will be able to:	
Course Code	Course outcomes
C412 [1]	Justify the use of Professional, Personal Business and Engineering Ethics governing their profession(K5-Evaluating)
C412 [2]	Examine the laws relating to contracts management, Dispute Resolution Mechanisms(K4-Analyzing)
C412 [3]	Importance of IPR like patents,trademarks,copymarks and designs(K5-Evaluating)
C412 [4]	Creating value to the society as practitioner of Engineering Profession(K6-Creating)
C412 [5]	Assess the ideas of the legal aspects of their profession (K5-Evaluating)

C412[6]	Identify the role of narious stakeholders in professional practice(K3-Applying)

Course Code & Name: R18ECE4131) DIGITAL IMAGE PROCESSING (413)

Upon the completion of the course, students will be able to:

Course Code	Course outcomes
C413 [1]	Identify the basics of images and analyse the various advanced image transforms and Properties. (K3-Apply).
C413 [2]	Discuss different techniques employed for the enhancement (spatial and frequency domain and restoration of images. (K6-Create).
C413 [3]	Determine degradation model and calculate various restoration techniques. (K5-Evaluting).
C413 [4]	Analyze the concepts of segmentation and various basic morphological operations in im processing. (K4-Analyse).
C413[5]	Determine the various compression techniques and explain redundancies and their rem methods. (K5-Evaluting).
C413[6]	Evaluate various compression coding techniques and compare JPEG standards. (K5-Evaluate)

Course Code & Name: (R18ECE4141) CELLULAR & MOBILE COMMUNICATIONS (414)

Upon Completion of the course, the students will be able to:

Course Code	Course outcomes
C414 [1]	Analyse the fundamental techniques to overcome the difficult fading effects(K4-Analyse)
C414 [2]	Interpret the cellular concepts /Frequency reuse (K5 –Evaluating)
C414 [3]	Identify the co-channel and non co channel interferences (K3-Applying)
C414 [4]	Interpret the cell coverage for signal and traffic, diversity techniques and mobile antennas (K5-Evlauting)
C414 [5]	Interpret the frequency management and channel assignment (K5-Evlauting)
C414 [6]	Explain the types of handoff and handoff's strategies (K5-Evaulating)

Course Code & Name: (R18ECE4183) PRINCIPLES OF MODERN COMMUNICATION SYSTEMS (415)

Upon Completion of the course, the students will be able to:

Course Code	Course outcomes
C415 [1]	Distinguish between the various elements, processes, and parameters in communication systems, and describe their functions, effects, and interrelationship (K4-Analysing).
C415 [2]	Interpret the mobile cellular concepts, standards and all generations of cellular systems. (K5- Evaluating)
C415 [3]	Explain the existing and emerging wireless standards and Compare various wireless networks and their specifications. (K5-Evaluate)
C415 [4]	Identify the history of Satellite communication, applications and orbit concepts, Placement of a Satellite in a Geo-Stationary orbit and GPS concept (K3- Apply)
C415 [5]	Interpret the radar fundamentals and analysis of the radar signals. (K5- Evaluitng)
C415 [6]	Explain the Navigation systems (K5-Evaluting).

Course Code & Name:(R18ECE41L1) MICROWAVE ENGINEERING AND OC LAB (416)

Upon Completion of the course, the students will be able to:

Course Code	Course outcomes
C416 [1]	Analyze the characteristic of microwave tubes and compare them (K4- Analyze)
C416 [2]	Explain the various Microwave solid state devices. (K5-Evlauting)
C416 [3]	Measure the scattering matrix and microwave parameters using Microwave Bench setup (K5- Evaluate)
C416 [4]	Determine the power dividing properties of various Microwave junctions, directional couplers & ferrite devices.(K5-Evlauting)
C416 [5]	Analyze the optical sources like LED and LASER diode (K4-Analyze)

C416 [6]	Determine the Data rate for Digital Optical Link, NA and losses in Analog Optical Link. (K5-Evaluting)

COURSE OUTCOMES
IV YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2021-22

Course Code & Name: R18ECE4251) SATELLITE COMMUNICATIONS (C421)	
Upon the completion of the course, Students will be able to:	
Course Code	Course outcomes
C421 [1]	Identify the history, frequency allocations, applications and orbit concepts and Placement of a Satellite in a Geo-Stationary orbit (K3- Applying)
C421 [2]	Discuss about satellite Subsystems like Attitude and Orbit Control system, Telemetry, Tracking, Command Satellite Antenna Equipment.(K6-Create)
C421 [3]	Apply the system Noise Temperature and G/T ratio, Link and Interference Analysis, and design of satellite Links for a specified C/N, Link Budget .(K3-Apply)
C421 [4]	Explain the different attenuations and classify the multiple access systems (K5 -Evaluating)
C421 [5]	Intrepret the earth station technology, Power Test Methods, Lower Orbit Considerations.Navigation and GPS (K5-Evaluting)
C421 [6]	Compare the different satellite packet communications (K5-Evaluating)

Course Code & Name: (R18ECE4261) WIRELESS COMMUNICATION & NETWORKS (C422)	
Upon the completion of the course, Students will be able to:	
Course Code	Course outcomes
C422 [1]	Explain the cellular concepts and all design fundamentals. (K5-Evaluating)
C422 [2]	Discuss about the Radio wave propagation indoor and outdoor propagation models. (K6-Create)
C422 [3]	Intrepret the small scale fading and multipath measurements. (K5-Evaluating)
C422 [4]	Analyze the various Equalization & Diversity techniques used in wireless communication.(K4- Analyze)
C422 [5]	Discuss about some of the existing and emerging wireless standards. (K6-Create)
C422 [6]	Compare various wireless area networks and their specifications. (K5-Evaluate)

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Course Code & Name: (R18ECE4293) AUDIO & VIDEO ENGINEERING(423)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C423 [1]	Compare the different amplifiers, and explain the graphic equalizer and Dolby NR recording systems (K4-analazing)
C423 [2]	Interpret the TV fundamentals like concept of aspect ratio, image continuity etc Color theory(K5-Evaluating)
C423 [3]	Discuss about composite video signal ad CCIR B standard for color signal Transmission and reception (K6-Create)
C423 [4]	Discuss monochrome TV transmitter and receivers, Color TV transmitter and compare TV camera tubes, Color picture tube (K6-Create)
C423 [5]	Identify the color TV receivers (PAL-D) and Distinguish between NTSC PAL and SCAM systems (K4-Analyse)
C423 [6]	Explain about cable Television, MATV, CATV, CCTV, Cable TV network and DTH (K5-Evaluating)

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SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY
Department of Electronics and Communication Engineering

Course Outcome Program Outcomes Mapping using - Competencies-Performance Indicators.
Subject Code / Name :

PO/ CO	Competency		Performance Indicators		CO1	CO2	CO3	CO4	CO5	CO6
PO1: Engineering Knowledge: apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.	1.1	Demonstrate competence in mathematical modeling	1.1.1	Apply mathematical techniques such as linear algebra, differential calculus, differential equations and integral calculus to solve problems						
			1.1.2	Apply concepts of Complex Variable, probability, linear algebra, vector integration and transformation techniques to model and solve electronics engineering problems.						
	1.2	Demonstrate competence in basic sciences	1.2.1	Apply laws of natural science to an engineering problem						
	1.3	Demonstrate competence in engineering fundamentals	1.3.1	Apply engineering fundamentals						
	1.4	Demonstrate competence in specialized engineering knowledge to the program	1.4.1	Apply electronics engineering concepts to solve engineering problems						
				Average						
				Average Final						
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.	2.1	Demonstrate an ability to identify and formulate complex engineering problem	2.1.1	Articulate problem statements and identify objectives.						
			2.1.2	Identify engineering systems, variables, and parameters to solve a problem						
			2.1.3	Identify the mathematical, engineering and other relevant knowledge that applies to a given problem						
	2.2	Demonstrate an ability to formulate a solution plan and methodology for an engineering problem	2.2.1	Reframe complex problems into interconnected sub-problems.						
			2.2.2	Identify, assemble and evaluate information and resources						
			2.2.3	Identify existing solution/methods for solving the problem, including forming justified approximations and assumptions						
			2.2.4	Compare and contrast alternative solution/methods to select the best methods.						
	2.3	Demonstrate an ability to formulate and interpret a model	2.3.1	Combine scientific principles and engineering concepts to formulate model/s (mathematical or otherwise) of a system or process that is appropriate in terms of applicability and required accuracy.						
			2.3.2	Identify assumptions (mathematical and physical) necessary to allow modeling of a system at the level of accuracy required.						
	2.4	Demonstrate an ability to execute a solution process and analyze results	2.4.1	Apply engineering mathematics to implement solution						
			2.4.2	Analyze and interpret the results using contemporary tools.						
			2.4.3	Identify the limitations of the solution and sources/causes of error.						
			2.4.4	Arrive at conclusions with respect to the objectives.						
				Average						
				Average Final						
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.	3.1	Demonstrate an ability to define a complex/open-ended problem in engineering terms	3.1.1	Recognize that need analysis is key to good problem definition						
			3.1.2	Able to identify and document system requirements from stakeholders.						
			3.1.3	Ability to review state of the art literature to synthesize requirements.						
			3.1.4	Extract engineering requirements from relevant engineering codes and standards defined by ISO/IEC/IEEE.						
			3.1.5	Explore and synthesize engineering requirements considering health, safety, risks, environment, cultural and societal issues						
			3.1.6	Determine design, objectives, functional requirements and arrive at specifications						
	3.2	Demonstrate an ability to generate a diverse set of alternative design solutions	3.2.1	Ability to explore design alternatives.						
			3.2.2	Build models/prototypes to develop diverse set of design solutions						
			3.2.3	Identify suitable criteria for evaluation of alternate design solutions						
	3.3	Demonstrate an ability to select optimal design scheme for further development	3.3.1	Ability to perform systematic evaluation of the degree to which several design concepts meet the criteria.						
			3.3.2	Consult with domain experts and stakeholders to select candidate engineering design solution for further development						
	3.4	Demonstrate an ability to advance an engineering design to defined end state	3.4.1	Refine a conceptual design into a detailed design within the existing constraints (of the resources)						
			3.4.2	Generate information through appropriate tests to improve or revise design						
PO4: Conduct Investigation of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.	4.1	Demonstrate an ability to conduct investigations of technical issues consistent with their level of knowledge and understanding	4.1.1	Define a problem for purpose of investigation,its scope and importance						
			4.1.2	Choose appropriate methods, algorithms, hardware/software tools and techniques of experiment design, system calibration, data acquisition, analysis and presentation						
			4.1.3	Apply appropriate hardware/software tools to conduct the experiment						
			4.1.4	Establish a relationship between measured data and underlying physical principles						
	4.2	Demonstrate an ability to design experiments to solve open ended problems	4.2.1	Design and develop experimental approach, specify appropriate equipment and procedures						
			4.2.2	Understand the importance of statistical design of experiments and choose an appropriate experimental design plan based on the study objectives						
	4.3	Demonstrate an ability to analyze data and reach a valid conclusion	4.3.1	Use appropriate procedures, tools and techniques to collect and analyze data						
			4.3.2	Critically analyze data for trends and correlations, stating possible errors and limitations						
			4.3.3	Represent data (in tabular and/or graphical forms) so as to facilitate analysis and explanation of the data, and drawing of conclusions						
			4.3.4	Synthesize information and knowledge about the problem from the raw data to reach appropriate conclusions						
PO5: Modern Tools 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.	5.1	Demonstrate an ability to identify/create modern engineering tools, techniques and resources	5.1.1	Identify modern engineering tools techniques and resources for engineering activities						
			5.1.2	Create/adapt/modify/extend tools and techniques to solve engineering problems						
	5.2	Demonstrate an ability to select and apply discipline specific tools, techniques and resources	5.2.1	Identify the strengths and limitations of tools for (i) acquiring information (ii) modeling and simulating (iii) monitoring system performance, and (iv) creating engineering designs						
			5.2.2	Demonstrate proficiency in using discipline specific tools						
	5.3	Demonstrate an ability to evaluate the suitability and limitations of tools used to solve	5.3.1	Discuss limitations and validate tools, techniques and resources						
			5.3.2	Verify the credibility of results from tool use with reference to the accuracy and limitations,and the assumptions inherent in their use.						
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.	6.1	Demonstrate an ability to describe engineering roles in a broader context, e.g. pertaining to the environment, health, safety, legal and public welfare	6.1.1	Identify and describe various engineering roles; particularly as pertains to protection of the public and public interest at global, regional and local level.						
	6.2	Demonstrate an understanding of professional engineering regulations, legislation and standards	6.2.1	Interpret legislation, regulations, codes, and standards relevant to professional engineering practice and explain its contribution to the protection of the public.						

PO7: Environment & Sustainability: understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	7.1	Demonstrate an understanding of the impact of engineering and industrial practices on social, environmental and in economic	7.1.1	Identify risks/impacts in the life-cycle of anengineering product or activity							
			7.1.2	Understand the relationship between the technical, socioeconomic and environmental dimensions of sustainability							
	7.2	Demonstrate an ability toapply principles of sustainable design and development	7.2.1	Describe management techniques for sustainable development							
			7.2.2	Apply principles of preventive engineering and sustainable development to anengineering activity or product relevant to thediscipline							

PO8: Ethics: apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.	8.1	Demonstrate an ability to recognize ethical dilemmas	8.1.1	Identify situations of unethical professional conduct and propose ethical alternatives							
	8.2	Demonstrate an ability to apply the code of ethics	8.2.1	Identify tenets of code of ethics given by theprofessional bodies like IEEE.							
			8.2.2	Examine and apply moral & ethical principles to known case studies							

PO9: Individual & Team work: function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.	9.1	Demonstrate an ability to form a team and define a role for each member	9.1.1	Recognize a variety of working and learning preferences; appreciate the value of diversity on a team							
			9.1.2	Implement the norms of practice (e.g. rules, roles, charters, agendas etc.) of effective team work, to accomplish a goal							
	9.2	Demonstrate effective individual and team operations—communication, problem solving, conflict resolution and leadership skills	9.2.1	Demonstrate effective communication, problem solving, conflict resolution and leadership skills							
			9.2.2	Treat other team members respectfully							
			9.2.3	Listen to other members							
			9.2.4	Maintain composure in difficult situations							
	9.3	Demonstrate success in a team based project	9.3.1	Present results as a team, with smooth integration of contributions from all individual efforts							

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.	10.1	Demonstrate an ability to comprehend technical literature and document project work	10.1.1	Read, understand and interpret technical and non-technical information							
			10.1.3	Create flow in a document or presentation- a logical progression of ideas so that the main point is clear							
	10.2	Demonstrate competence in listening, speaking and presentation	10.2.1	Listen to and comprehend information, instructions, and viewpoints of others							
			10.2.2	Deliver effective oral presentations to technical and nontechnical audiences							
	10.3	Demonstrate the ability to integrate different modes of communication	10.3.1	Create engineering-standard figures, reports and drawings to complement writing and presentations							
			10.3.2	Use a variety of media effectively to convey a message in a document or a presentation							

PO11: Project management & 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.	11.1	Demonstrate an ability to evaluate the economic and financial performance of an engineering activity	11.1.1	Describe various economic andfinancial costs/benefits of an engineering activity							
			11.1.2	Analyze different forms of financial statements to evaluate the financial status of an engineering project							
	11.2	Demonstrate an ability to compare and contrast the costs/benefits of alternate proposals for an engineering activity	11.2.1	Analyze and select the most appropriate proposal based on economic and financial considerations							
	11.3	Demonstrate an ability to plan/manage an engineering activity within time and budget constraints	11.3.1	Identify the tasks required to complete an engineering activity and the resources required to complete the tasks							
			11.3.2	Use project management tools to schedule an engineering project so it is completed on time and on budget							

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.	12.1	Demonstrate an ability to identify gaps in knowledge and a strategy to close these gaps	12.1.1	Describe the rationale for requirement for continuing professional development							
			12.1.2	Identify deficiencies or gaps in knowledge and demonstrate an ability to source information to close this gap							
	12.2	Demonstrate an ability to identify changing trends in engineering knowledge and practice	12.2.1	Identify historic points of technological advance in engineering that required practitioners to seek education in order to stay current							
			12.2.2	Recognize the need and be able to clearly explain why it is vitally important to keep current regarding new developments in your field.							
	12.3	Demonstrate an ability to identify and access sources for new information	12.3.1	Source and comprehend technical literature and other credible sources of information							
			12.3..2	Analyze sourced technical and popular information for feasibility, viability, sustainability etc.							

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Department of Electronics and Communication Engineering

COURSE OUTCOMES
I YEAR ECE SEMESTER - I (REGULATION – R18)
ACADEMIC YEAR: 2019- 2023

COURSE NAME & CODE: (R18MTH1101) MATHEMATICS–I
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C111.1	2	3	3	1	-	-	-	-	-	-	-	2	2	2	2
C111.2	3	2	2	1	-	-	-	-	-	-	-	1	3	2	3
C111.3	1	3	3	2	-	-	-	-	-	-	-	1	2	2	1
C111.4	3	2	1	1	-	-	-	-	-	-	-	1	3	2	3
C111.5	1	2	2	3	-	-	-	-	-	-	-	2	2	2	1
C111.6	3	2	2	2	-	-	-	-	-	-	-	1	3	2	3
C111	**2.17**	**2.33**	**2.17**	**1.67**								**1.33**	**2.5**	**2**	**2.17**

COURSE NAME & CODE: (R18EAP1101) APPLIED PHYSICS (112)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C112.1	3	1	1	1	1	-	2	-	-	-	-	1	1	2	3
C112.2	2	2	2	1	2	-	2	-	-	-	-	2	1	2	1
C112.3	1	3	3	3	1	-	2	-	-	-	-	2	1	2	1
C112.4	1	3	3	3	1	-	2	-	-	-	-	2	1	1	-
C112.5	1	1	2	1	2	-	2	-	-	-	-	1	1	1	1
C112.6	1	2	2	2	2	-	2	-	-	-	-	1	1	3	1
C112	**1.5**	**2**	**2.1**	**1.8**	**1.5**	**-**	**2**	**-**	**-**	**-**	**-**	**1.5**	**1**	**1.8**	**1.4**

COURSE NAME & CODE: (R18CSE1101) PROGRAMMING FOR PROBLEM SOLVING (113)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C113.1	2	2	2	-	3	-	-	-	1	-	-	-	1	2	-
C113.2	1	2	2	-	3	-	-	-	-	-	-	-	1	1	-
C113.3	1	2	2	1	3	-	-	-	1	-	-	-	-	1	-
C113.4	1	2	2	1	3	-	-	-	1	-	-	-	1	1	-
C113.5	1	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C113.6	1	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C113	1.16	2	2	1	3	-	-	-	1	-	-	-	1	1.25	-

COURSE NAME & CODE: (R18MED1102) ENGINEERING GRAPHICS (114)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C114.1	3	2	3	-	3	-	-	-	-	-	-	3	3	3	2
C114.2	3	2	3	-	3	-	-	-	-	-	-	3	3	3	2
C114.3	3	2	3	-	3	-	-	-	-	-	-	3	3	3	2
C114.4	3	2	3	-	3	-	-	-	-	-	-	3	3	3	2
C114.5	3	2	3	-	3	-	-	-	-	-	-	3	3	3	2
C114.6	3	2	3	-	3	-	-	-	-	-	-	3	3	3	2
C114	3	2	3		3							3	3	3	2

COURSE NAME & CODE: (R18EAP12L1) APPLIED PHYSICS LAB (115)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C115.1	3	1	1	1	1	-	2	-	-	-	-	1	1	2	3
C115.2	2	2	2	1	2	-	2	-	-	-	-	2	1	2	1
C115.3	1	3	3	3	1	-	2	-	-	-	-	2	1	2	1
C115.4	1	3	3	3	1	-	2	-	-	-	-	2	1	1	-
C115.5	1	1	2	1	2	-	2	-	-	-	-	1	1	1	1
C115.6	1	2	2	2	2	-	2	-	-	-	-	1	1	3	1
C115	**1.5**	**2**	**2.1**	**1.8**	**1.5**	**-**	**2**	**-**	**-**	**-**	**-**	**1.5**	**1**	**1.8**	**1.4**

COURSE NAME & CODE: (R18CSE12L1) PROGRAMMING FOR PROBLEM SOLVING LAB (116)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C116.1	2	2	2	-	3	-	-	-	1	-	-	-	1	2	-

C116.2	1	2	2	-	3	-	-	-	-	-	-	-	1	1	-
C116.3	1	2	2	1	3	-	-	-	1	-	-	-	-	1	-
C116.4	1	2	2	1	3	-	-	-	1	-	-	-	1	1	-
C116.5	1	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C116.6	1	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C116	1.16	2	2	0.6	3	-	-	-	0.5	-	-	-	0.5	0.83	-

COURSE OUTCOMES
I YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2018 – 2019

Course Code & Name: R16MTH1102 – Mathematics - II(ADVANCEDCALCULUS)(121)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C121 .1	3	2	2	2	3	1	-	-	-	-	1	2	3	2	3
C121 .2	2	3	3	2	-	1	-	-	-	-	1	2	2	2	2
C121 .3	2	2	1	3	3	1	-	-	-	-	1	2	2	1	1
C121.4	3	2	2	2	3	2	-	-	-	-	1	2	3	2	3
C121.5	3	1	1	1	3	1	-	-	-	-	-	2	3	1	3
C121 .6	2	2	1	3	3	2	-	-	-	-	1	2	2	2	2
C121	**2.5**	**2**	**1.67**	**2.17**	**3**	**1.33**					**0.83**	**2**	**2.5**	**1.67**	**2.33**

COURSE NAME & CODE: (R18ECH1101) CHEMISTRY(122)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C122.1	3	2	2	-	-	-	1	-	-	-	-	-	1	-	-
C122.2	2	2	3	-	-	-	2	-	-	-	-	-	2	2	-
C122.3	2	3	2	-	-	-	2	-	-	-	-	-	2	2	-
C122.4	2	2	2	-	-	-	2	-	-	-	-	-	1	1	-
C122.5	2	1	2	-	-	-	2	-	-	-	-	-	1	1	-
C122.6	2	2	2	-	-	-	3	-	-	-	-	-	2	2	-
C122	**2.1**	**2**	**2.1**	-	-	-	**2**	-	-	-	-	-	**1.5**	**1.6**	-

COURSE NAME & CODE: (R18EEE1101) BASIC ELECTRICAL ENGINEERING (113)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C123.1	3	2	2	2	-	1	2	-	2	1	-	2	2	2	3
C113.2		3	1	1	-	2	1	2	-	2	-	1	3	2	2
C113.3	2		2		1	2	2	-	1	1	2	3	2	3	2
C113.4	2	2			2	2	2	2	3	2	3	3	2	2	2
C113.5	3	3		2	3	1	2	1	2	2	3	2	2	3	3
C113.6	3		3	3	2	3	3	3	3	3	2	3	3	2	3
C113	2.6	2.5	2	2	2	1.8	2	2	2.2	1.8	2.5	2.3	2.3	2.3	2.5

COURSE NAME & CODE: (R18MED1101) ENGINEERING WORKSHOP (101)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101 [1]	3	2	1	-	2		-	1	-	-	-	-	3	-	3
C101 [2]	3	1	-	-	-	-	-	-	-	-	-	-	3	-	3
C101 [3]	3	2	2	1	1	-	-	1	-	-	2	-	3	-	3
C101 [4]	3	1	-	1	1	-	-	2	-	-	-	-	3	-	3
C101 [5]	3	1	1	1	1	-	-	1	-	-	2	-	3	-	3
C101 [6]	3	1	-	-	1	-	-	1	-	-	-	-	3	-	3
C101	3	1.3	1.3	1	1.3			1.2			2		3		3

COURSE NAME & CODE: (R18HAS1101) ENGLISH(115)
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C115.1	-	-	2	-	3	2	-	-	-	3	-	3	-	-	-
C115.2	-	-	-	3	3	3	3	3	3	2	-	3	-	-	-
C115.3	-	-	3	-	3	3	-	-	-	3	-	2	-	-	-
C115.4	-	-	3	3	-	3	3	3	3	2	-	3	-	-	-
C115.5	-	-	3	-	3	-	3	-	-	2	-	2	-	-	-
C115.6	-	-	-	3	3	3	-	3	3	2	-	3	-	-	-
C115	-	-	**2.8**	**3**	**3**	**2.8**	**3**	**3**	**3**	**2.3**	-	**2.7**	-	-	-

COURSE NAME & CODE: (R18ECH12L1) ENGINEERING CHEMISTRY LAB
Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C126.1	3	2	-	-	-	2	2	-	2	-	-	2	2	3	-
C126.2	2	3	-	-	-	2	2	-	2	-	-	2	1	2	-
C126.3	2	2	-	-	-	1	3	-	2	-	-	2	2	2	-
C126.4	2	2	-	-	-	2	2	-	2	-	-	1	2	1	-

C126.5	2	2	-	-	-	2	2	-	2	-	-	2	2	1	-
C126.6	2	2	-	-	-	1	2	-	2	-	-	1	2	1	-
C126	**2.1**	**2.1**	**-**	**-**	**-**	1.6	**2.1**	-	2	-	-	**1.6**	**1.8**	**1.6**	-

COURSE NAME & CODE: (R18HAS12L1) ENGLISHLANGUAGEANDCOMMUNICATIONSKILLS LAB(117)

Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C117.1	--	2	--	--	--	--	--	--	--	2	--	3	--	2	--
C117.2	--	--	--	--	--	--	--	--	2	3	2	2	--	2	--
C117.3	2	2	2	--	--	2	2	2	2	3	2	3	2	2	2
C117.4	--	2	2	2	--	2	2	2	3	3	2	3	--	2	2
C117.5	--	--	--	2	--	2	--	--	--	3	2	3	--	2	2
C117.6	--	2	--	--	--	--	--	--	--	2	--	3	--	2	--
C117	**2**	**2**	**2**	**2**	**--**	**2**	**2**	**2**	**2.3**	**2.8**	**2**	**2.8**	**2**	**2**	**2**

COURSE NAME & CODE: (R18EEE12L2) BASIC ELECTRICAL ENGINEERING LAB(118):

Upon the completion of the course, Students will be able to:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C118.1	3	2	-	-	-	2	2	-	2	-	-	2	2	3	-
C118.2	3	2	-	-	-	2	2	-	2	-	-	2	2	3	-
C118.3	2	3	-	-	-	3	3	-	2	-	-	3	3	3	-
C118.4	3	2	-	-	-	2	2	-	2	-	-	2	2	3	-
C118.5	3	2	-	-	-	2	2	-	2	-	-	2	2	3	-
C118.6	2	2	-	-	-	3	3	-	3	-	-	3	3	2	-
C118	2.6	2.1	-	-	-	2.3	2.3	-	2.1	-	-	2.1	2.1	2.8	-

COURSE OUTCOMES

II YEAR ECE SEMESTER - I (REGULATION – R18)

ACADEMIC YEAR: 2019 – 2020

Course Name & Code: (R18ECE2101) ELECTRONIC DEVICES AND CIRCUITS(211)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C211.1	3	2	1	-	1	-	-	-	-	-	-	-	2	-	2
C211.2	2	1	-	-	2	-	1	-	-	-	-	-	3	1	-
C211.3	3	1	-	-	2	-	-	-	1	-	-	-	3	1	-
C211.4	-	-	2	1	3	-	-	-	-	1	-	-	-	-	1
C211.5	2	1	-	3	2	-	-	-	-	-	-	-	-	3	2
C211.6	1	3	-	-	2	-	-	1	1	-	-	-	1	-	1
C215	**2.2**	**1.6**	**1.5**	**2**	**2**	-	**1**	**1**	**1**	**1**	-	-	**2.3**	**1.7**	**1.5**

Course Code & Name:(R18EEE2107) NETWORK THEORY (212)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12	PSO1	PSO2	PSO3
C212.1	2	1	-	1	2	-	-	-	-	-	-	-	-	-	2
C212.2	2	2	1	1	2	-	1	-	-	-	-	-	-	-	1
C212.3	1	3	1	2	1	-	1	-	-	-	-	-	-	-	-
C212.4	1	2	-	1	1	-	-	-	-	-	-	-	-	-	2
C212.5	1	2	-	1	-	-	1	-	-	-	-	-	-	-	2
C212.6	2	2	1	-	1	-	-	-	-	-	-	-	-	-	1
C212	**1.5**	**2**	**1**	**1.2**	**1.4**	-	**1**	-	-	-	-	-	-	-	**1.6**

Course Code & Name: (R18ECE2102) DIGITAL LOGIC DESIGN (213)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	2	2	1	2	2	-	-	-	-	-	-	2	3	-	2
C213.2	2	2	3	2	2	-	1	-	1	-	-	-	2	3	-
C213.3	3	2	-	1	2	1	-	-	-	-	-	1	2	-	-
C213.4	2	2	3	1	1	-	-	-	-	-	-	1	2	-	2
C213.5	2	-	-	-	1	-	-	-	-	-	-	1	1	-	1
C213.6	1	-	2	2	3	-	-	-	-	-	-	1	2	2	1
C213	2	2	2.3	1.6	1.8	1	1	-	1	-	-	1.2	2	2.5	1.5

Course Code & Name: (R18ECE2103) SIGNALS AND SYSTEMS (214)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C214.1	-	3	-	1	2	-	-	-	-	-	-	-	-	1	2
C214.2	3	1	-	-	2	-	-	-	-	-	-	-	3	-	-
C214.3	2	1	-	-	3	-	-	1	1	-	-	-	2	-	1
C214.4	-	-	3	2	1	-	1	-	-	-	1	-	-	3	-
C214.5	3	2	-	-	1	-	-	-	-	-	-	-	1	-	-
C214.6	-	3	-	1	2	-	-	1	1	-	-	-	-	1	2
C214	2.6	1.8	3	1.5	1.8	-	1	1	1	-	1	-	2	2	1.5

Course Code & Name: (R18ECE2104) PROBABILITY THEORY AND STOCHASTIC PROCESSES (215)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

C215.1	3	2	-	-	1	-	1	-	-	-	-	-	3	-	1
C215.2	1	3	-	-	2	1	-	-	-	-	-	-	1	1	2
C215.3	-	2	1	1	-	-	1	1	-	-	-	-	1	1	2
C215.4	-	2	-	1	2	-	-	-	1	-	-	-	-	2	1
C215.5	2	1	-	-	3	-	1	-	-	-	-	-	3	-	-
C215.6	3	1	-	-	1	1	-	1	-	1	-	-	3	1	-
C215	**2.3**	**1.8**	**1**	**1**	**1.8**	**1**	**1**	**1**	**1**	**1**	-	-	**2.2**	**1.3**	**1.5**

Course Code & Name: (R18ECE21L1) ELECTRONIC DEVICES AND CIRCUITS LAB.(216)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C216.1	2	2	-	-	3	1	1	1	1	1	-	-	3	1	-
C216.2	3	1	-	-	2	1	1	1	1	1	-	-	3	-	-
C216.3	-	-	1	2	3	1	1	1	1	1	-	-	-	1	3
C216.4	1	3	-	-	2	1	1	1	1	1	-	-	1	-	2
C216.5	-	2	-	1	1	1	1	1	1	1	-	-	1	-	2
C216.6	1	3	1	-	1	1	1	1	1	1	-	-	-	1	3
C216	1.8	2.2	1	1.5	2	1	1	1	1	1	-	-	2	1	2.5

Course Code & Name: (R18ECE21L2) DIGITAL LOGIC DESIGN LAB (217)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C217.1	2	1	-	1	2	-	1	-	1	-	-	-	3	1	-
C217.2	2	1	2	-	2	-	-	1	2	-	-	1	2	1	1
C217.3	2	1	2	-	2	-	-	1	2	-	-	1	2	1	1
C217.4	3	-	1	2	1	-	1	-	-	1	-	-	2	1	-
C217.5	-	-	2	-	3	-	-	1	1	-	-	1	1	2	1
C217.6	1	-	2	3	2	-	1	-	1	-	-	-	1	2	-
C217	2	1	1.8	2	2	-	1	1	1.4	1	-	1	1.8	1.3	1

Course Code & Name: (R18ECE21L3) BASIC SIMULATION LAB (218)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C218.1	-	2	-	1	3	1	1	1	1	1	-	-	1	1	3
C218.2	3	1	-	-	2	1	1	1	1	1	-	-	3	1	-
C218.3	2	3	-	-	1	1	1	1	1	1	-	-	3	-	-
C218.4	-	-	3	2	1	1	1	1	1	1	-	-	-	3	-
C218.5	1	3	-	1	2	1	1	1	1	1	-	-	1	1	3
C218.6	-	1	2	-	1	1	1	1	1	1	-	-	2	-	1
C218	**2**	**2**	**2.5**	**1.5**	**1.4**	**1**	**1**	**1**	**1**	**1**	-	-	**2.3**	**1.7**	**2**

Course Code & Name: (R18MAC2100) GENDER SENSITIZATION LAB (219)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C219.1	-	-	-	-	-	2	-	2	1	-	-	-	-	-	-
C219.2	-	-	-	-	-	2	2	1	-	2	-	-	-	-	-
C219.3	-	-	-	-	-	1	-	2	-	1	-	-	-	-	-
C219.4	-	-	-	-	-	2	1	-	-	2	-	-	-	-	-
C219.5	-	-	-	-	-	2	-	2	2	-	-	-	-	-	-
C219.6	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-
C219	-	-	-	-	-	1.8	1.5	1.8	1.7	1.8	-	-	-	-	-

COURSE OUTCOMES
II YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2019 – 2020

Course Code & Name: (R18MTH2201) LAPLACE TRANSFORMS, NUMERICAL METHODS & COMPLEX

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C221.1	2	2	-	2	2	-	-	-	-	-	-	1	-	-	-
C221.2	2	2	2	1	1	-	-	-	-	-	-	-	-	-	-
C221.3	3	2	-	1	2	-	-	-	-	-	-	1	-	-	-
C221.4	2	3	2	-	2	-	-	-	-	-	-	-	-	-	-
C221.5	2	3	-	2	2	-	-	-	-	-	-	1	-	-	-
C221.6	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-
C221	2.2	2.4	2	1.4	1.7	-	-	-	-	-	-	1	-	-	-

Course Code & Name: (R18ECE2201) ELECTROMAGNETIC THEORY AND TRANSMISSION LINES (222)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C222.1	1	3	-	-	1	-	1	-	1	-	-	-	2	-	1
C222.2	3	1	-	-	2	-	-	-	-	-	-	-	1	-	-
C222.3	1	3	-	-	-	1	-	1	-	-	-	-	-	-	3
C222.4	2	-	1	-	3	-	-	-	-	-	-	-	3	-	-
C222.5	-	2	-	1	-	-	1	-	1	-	-	-	-	2	-
C222.6	-	-	2	1	3	-	-	-	-	1	-	-	-	1	2
C222	**1.8**	**2.3**	**1.5**	**1**	**2.3**	**1**	**1**	**1**	**1**	**1**	-	-	**2**	**1.5**	**2**

Course Code & Name: (R18ECE2202) ANALOG AND DIGITAL COMMUNICATIONS(223)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C223.1	2	2	-	1	2	-	-	-	-	-	-	-	-	-	1
C223.2	2	3	-	-	2	-	1	-	-	-	-	-	-	-	2
C223.3	1	3	-	2	1	-	-	-	-	-	-	-	1	-	2
C223.4	1	2	-	1	2	-	-	-	-	-	-	-	-	-	-
C223.5	2	2	-	1	2	-	1	-	-	-	-	-	2	-	1
C223.6	1	1	-	-	2	-	-	-	-	-	-	-	-	-	1
C223	**1.5**	**2.2**	-	**1.3**	**1.8**	-	**1**	-	-	-	-	-	**1.5**	-	**1.4**

Course Code & Name:(R18ECE2203) LINEAR AND DIGITAL IC APPLICATIONS(224)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C224.1	-	3	-	-	2	-	-	-	-	-	-	-	-	-	**2**
C224.2	3	-	-	-	1	-	-	-	-	-	-	**1**	2	-	-
C224.3	-	-	3	-	-	-	-	**1**	**1**	-	-	-	-	2	-
C224.4	-	-	1	2	-	-	-	-	-	**1**	-	-	-	-	**1**
C224.5	1	3	-	-	-	-	-	-	-	-	**1**	-	-	-	-
C224.6	-	-	-	-	3	-	-	**1**	**1**	-	-	**1**	-	1	-
C224	**2**	**3**	**2**	**2**	**2**	-	-	**1**	**1**	**1**	**1**	**1**	**2**	**1.5**	**1**

Course Code & Name: (R18ECE2204) ELECTRONIC CIRCUIT ANALYSIS(225)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C225.1	-	3	-	1	1	-	-	-	-	-	-	-	1	-	2
C225.2	1	2	-	-	1	-	-	1	1	-	1	-	-	2	-
C225.3	-	1	1	3	-	-	-	-	-	1	-	1	1	-	-
C225.4	-	-	2	1	2	-	-	-	-	-	-	-	-	2	1
C225.5	3	2	-	-	1	-	-	-	-	-	1	-	3	-	-
C225.6	-	-	3	2	1	-	-	1	1	-	-	-	-	2	1
C222	**2**	**1.7**	**2**	**2**	**1.3**	-	-	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**1**

Course Code & Name: (R18ECE22L1) ANALOG AND DIGITAL COMMUNICATIONS LAB (226)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C226.1	2	2	1	1	2	-	-	-	2	1	-	-	-	-	1
C226.2	1	2	2	2	1	-	-	-	2	2	-	-	1	-	1
C226.3	2	3	1	1	2	-	-	1	1	-	-	-	1	2	-
C226.4	2	-	1	-	1	-	-	-	-	1	-	-	2	-	1
C226.5	2	1	-	-	2	-	-	-	2	1	-	-	1	-	2
C226.6	2	3	1	-	1	-	-	-	1	-	-	-	1	-	-
C226	**1.8**	**2.2**	**1.2**	**1.3**	**1.5**	-	-	**1**	**1.6**	**1.3**	-	-	**1.2**	**2**	**1.3**

Course Code & Name: (R18ECE22L2) IC APPLICATIONS LAB (227)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C227.1	2	1	1	2	1	-	-	1	1	1	-	-	2	1	2
C227.2	2	1	-	1	2	-	1	-	2	1	-	-	1	-	-
C227.3	1	2	1	2	1	-	-	1	-	1	-	-	1	-	2
C227.4	2	-	-	1	2	-	1	-	1	-	-	-	-	1	-
C227.5	2	1	1	2	1	-	1	1	2	-	-	-	2	1	2
C227.6	1	-	-	1	2	-	-	-	-	1	-	-	-	1	-
C227	**1.7**	**1.3**	**1**	**1.5**	**1.5**	-	**1**	**1**	**1.5**	**1**	-	-	**1.5**	**1**	**2**

Course Code & Name:(R18ECE22L3) ELECTRONIC CIRCUIT ANALYSIS LAB(228)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C228.1	2	2	1	-	1	-	-	1	1	1	-	-	2	-	1
C228.2	2	2	1	-	1	-	1	-	2	1	-	-	2	-	1
C228.3	1	1	-	2	2	-	-	1	-	1	-	-	1	-	-
C228.4	1	2	1	1	1	-	1	-	1	-	-	-	1	-	1
C228.5	2	2	-	-	1	-	1	1	2	-	-	-	2	-	1
C228.6	1	1	1	-	2	-	-	-	-	1	-	-	1	-	-
C228	**1.5**	**1.7**	**1**	**1.5**	**1.3**	-	**1**	**1**	**1.5**	**1**	-	-	**1.5**	-	**1**

COURSE OUTCOMES
III YEAR ECE SEMESTER - I (REGULATION – R18)
ACADEMIC YEAR: 2020-2021

Course Code & Name: (R18MBA2201) BUSINESS ECONOMICS & FINANCIAL ANALYSIS(311)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C311.1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
C311.2	-	-	-	-	-	-	-	1	1	-	-	1	-	1	-
C311.3	-	-	1	-	1	-	1	-	-	1	2	-	-	-	-
C311.4	-	-	-	-	-	-	-	-	-	1	2	-	-	-	1

C311.5	-	1	-	-	1	-	1	1	1	-	2	1	-	1	-
C311.6	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-
C311	**-**	**1**	**1**	**-**	**1.3**	**-**	**1**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**

Course Code & Name: (R18ECE3101) MICROPROCESSORS AND MICROCONTROLLERS (C312)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C312.1	1	3	1	-	-	-	-	-	-	-	-	-	-	-	2
C312.2	3	-	-	1	1	1	-	-	-	-	1	1	3	-	-
C312.3	-	2	-	-	-	-	-	1	1	-	-	-	-	1	-
C312.4	-	-	3	2	1	-	-	-	-	1	-	-	1	1	3
C312.5	-	-	1	1	2	-	-	-	-	-	-	-	-	-	1
C312.6	1	1	-	-	-	1	-	1	1	-	1	1	1	-	-
C312	**1.7**	**2**	**1.7**	**1.3**	**1.3**	**1**	**-**	**1**	**1**	**1**	**1**	**1**	**1.7**	**1**	**2**

Course Code & Name:(R18INF3103) DATA COMMUNICATIONS AND NETWORKS(313)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12	PSO1	PSO2	PSO3
C313.1	3	-	-	-	1	-	-	-	-	-	-	-	3	-	3
C313.2	-	2	1	2	2	-	-	-	-	-	1	-	-	1	-
C313.3	2	2	2	-	-	-	-	1	1	-	-	-	2	-	1
C313.4	-	-	1	1	2	-	-	-	-	1	-	1	-	1	-
C313.5	-	1	1	2	2	-	-	-	-	-	-	-	-	1	-
C313.6	-	-	1	2	2	-	-	1	1	-	-	-	-	1	-
C313	**2.5**	**1.7**	**1.2**	**1.8**	**1.8**	**-**	**-**	**1**	**1**	**1**	**1**	**1**	**2.5**	**1**	**2**

Course Code & Name: (R18EEE2202) CONTROL SYSTEMS (314)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12	PSO1	PSO2	PSO3
C314.1	1	3	-	-	1	-	-	-	-	-	-	-	1	-	-
C314.2	3	-	-	-	1	-	-	-	-	-	-	-	3	-	-
C314.3	-	2	-	-	-	-	-	1	1	1	-	-	-	1	2
C314.4	2	1	1	-	-	1	-	-	-	-	-	-	-	1	-
C314.5	-	3	-	1	2	-	-	-	1	1	-	-	-	-	1
C314.6	1	2	-	-	3	-	-	1	1	1	-	-	1	-	3
C314	**1.8**	**2.2**	**1**	**1**	**1.8**	**1**	**-**	**1**	**1**	**1**	**-**	**-**	**1.7**	**1**	**2**

Course Code & Name:(R18CSE3114) COMPUTER ORGANIZATION AND OPERATING SYSTEMS (315)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12	PSO1	PSO2	PSO3
C315.1	3	-	-	-	2	-	-	-	-	-	-	-	2	-	-
C315.2	-	-	2	3	1	-	1	-	-	-	-	-	-	-	1
C315.3	-	2	-	-	3	-	-	1	1	-	-	-	-	1	-
C315.4	1	1	-	2	1	-	-	-	-	-	-	-	-	1	-
C315.5	-	-	3	-	-	-	-	-	-	-	1	-	-	-	2
C315.6	1	1	-	-	3	-	-	1	1	-	-	-	-	2	-
C315	**1.7**	**1.3**	**2.5**	**2.5**	**2**	**-**	**1**	**1**	**1**	**-**	**1**	**-**	**2**	**1.3**	**1.5**

Course Code & Name:(R18ECE31L1) MICROPROCESSORS AND MICROCONTROLLERS LAB (316)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C316.1	3	1	-	-	2	-	-	-	-	-	-	-	3	-	2
C316.2	-	-	3	2	1	1	-	-	-	1	-	1	-	3	-
C316.3	-	-	1	3	-	1	-	1	1	-	-	-	1	-	1
C316.4	2	-	-	-	-	-	-	-	-	1	-	1	2	1	-
C316.5	-	1	2	1	1	-	-	1	1	-	-	-	-	-	2
C316.6	-	2	1	1	2	-	-	-	-	-	1	1	1	3	1
C316	**2.5**	**1.3**	**1.8**	**1.8**	**1.5**	**1**	**-**	**1**	**1**	**1**	**1**	**1**	**1.8**	**2.3**	**1.5**

Course Code & Name: (R18INF31L2) DATA COMMUNICATIONS AND NETWORKS LAB(317)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C317.1	3	-	-	-	1	1	-	1	1	-	-	-	3	-	2
C317.2	-	1	1	-	2	1	-	1	1	-	-	-	-	2	-
C317.3	2	3	2	-	1	1	-	1	1	-	-	-	2	-	1
C317.4	-	1	1	-	2	1	-	1	1	1	-	-	-	2	-
C317.5	3	-	-	-	1	1	-	1	1	-	-	-	3	-	2
C317.6	3	-	-	-	1	1	-	1	1	1	-	1	3	-	2
C317	**2.8**	**1.7**	**1.3**	**-**	**1.3**	**1**	**-**	**1**	**1**	**1**	**-**	**1**	**2.8**	**2**	**1.8**

Course Code & Name: (R18HAS31L1) ADVANCED COMMUNICATION SKILLS LAB(318)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C318.1	-	-	-	-	1	-	-	-	1	2	-	1	-	-	1
C318.2	-	1	-	-	-	-	-	-	1	2	1	-	-	-	1

C318.3	-	-	-	-	2	-	-	1	1	2	1	1	-	-	1
C318.4	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1
C318.5	-	1	-	-	1	-	-	1	1	3	1	1	-	-	1
C318.6	-	-	-	-	2	-	-	-	1	3	1	1	-	-	1
C318	-	**1**	-	-	**1.7**	-	-	**1**	**1**	**2.2**	**1**	**1**	-	-	**1**

COURSE OUTCOMES
III YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2020-2021

Course Code & Name: (R18ECE3201) ANTENNAS AND WAVE PROPAGATION

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C321.1	-	-	1	2	3	-	-	-	-	-	-	-	2	-	-
C321.2	1	3	-	-	-	-	-	-	-	-	-	1	-	-	-
C321.3	3	-	-	-	2	-	-	1	1	-	-	-	-	1	-
C321.4	-	3	-	-	-	-	-	-	-	1	-	-	1	1	-
C321.5	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1
C321.6	-	-	1	3	2	-	-	1	1	-	-	1	-	-	2
C321	**2**	**3**	**1.3**	**2.5**	**2.3**	-	-	**1**	**1**	**1**	-	**1**	**1.5**	**1**	**1.5**

Course Code & Name: (R18ECE3202) DIGITAL SIGNAL PROCESSING (322)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C322.1	3	-	-	-	2	1	-	-	-	-	-	-	3	-	-
C322.2	1	3	-	-	1	-	-	-	-	1	-	1	-	2	-
C322.3	-	-	-	-	3	-	-	1	1	1	-	-	-	-	3
C322.4	-	-	3	2	-	1	-	-	-	-	1	1	2	-	-
C322.5	1	2	-	-	2	-	-	-	-	-	-	1	-	-	-
C322.6	-	1	1	3	1	-	-	1	1	1	-	-	-	1	3
C322	**1.7**	**2**	**2**	**2.5**	**1.8**	**1**	-	**1**	**1**	**1**	**1**	**1**	**2.5**	**1.5**	**3**

Course Code & Name: (R18ECE3203) VLSI DESIGN (323)

Course Outcome	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C323.1	-	1	-	3	2	-	-	-	-	-	-	-	1	-	3
C323.2	1	3	-	-	1	-	1	-	-	-	-	1	-	-	-
C323.3	3	-	-	-	1	1	-	1	1	-	1	-	3	-	-
C323.4	-	-	3	1	-	-	-	-	-	-	-	-	-	2	-
C323.5	1	-	2	3	1	-	-	-	-	-	1	1	-	2	-
C323.6	-	1	1	2	-	-	-	1	1	-	-	-	1	-	-
C323	**1.7**	**2**	**2**	**2**	**1**	**1**	**1**	**1**	**1**	-	**1**	**1**	**2**	**2**	-

Course Code & Name: (R18ECE3221) EMBEDDED SYSTEM DESIGN (324)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C324.1	-	3	-	1	2	-	-	-	-	-	-	-	-	1	2
C324.2	2	-	1	-	2	-	-	1	-	2	-	-	2	-	-
C324.3	3	-	-	1	1	-	1	-	1	1	1	-	1	2	1
C324.4	2	1	1	-	-	-	-	-	-	-	-	-	3	-	-
C324.5	-	2	-	2	-	-	-	1	-	1	-	-	-	1	**1**
C324.6	-	-	1	3	3	-	1	-	-	-	2	-	1	2	**3**
C324	**2.3**	**1.5**	**1**	**2**	**2**	-	**1**	**1**	**1**	**1.3**	**1.5**	-	**1.8**	**1.7**	**1.7**

Course Code & Name:(R18ECE3273) CONSUMER ELECTRONICS(325)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C325.1	3	1	-	-	1	-	-	-	-	-	-	-	3	-	3
C325.2	2	2	1	-	-	-	-	-	-	-	1	-	2	-	2
C325.3	-	1	2	1	1	-	-	1	1	-	-	-	-	1	1
C325.4	-	-	2	1	-	-	-	-	-	1	-	-	-	1	1
C325.5	-	-	2	-	2	-	-	-	-	-	-	-	-	2	-
C325.6	-	-	2	1	1	-	-	1	1	-	-	-	-	1	1
C325	**2.5**	**1.3**	**1.8**	**1**	**1.3**	-	-	**1**	**1**	**1**	**1**	-	**2.5**	**1.3**	**1.6**

Course Code & Name :(R18ECE32L1) DIGITAL SIGNAL PROCESSING LAB(326)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C326.1	-	1	3	1	2	1	-	-	-	1	-	-	-	-	1
C326.2	3	-	2	1	3	-	-	-	-	-	1	1	-	1	-
C326.3	1	-	-	-	-	-	-	1	1	-	-	-	2	-	-
C326.4	2	3	-	-	1	-	-	-	-	1	-	-	3	-	2
C326.5	-	3	-	-	1	1	-	1	1	-	1	1	-	3	-
C326.6	2	1	1	-	3	-	-	-	-	-	-	-	-	-	-
C326	**2**	**2.3**	**1.5**	**1**	**2**	**1**	-	**1**	**1**	**1**	**1**	**1**	**2.5**	**2**	**2**

Course Code & Name: (R18ECE32L2) E-CAD LAB(327)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C327.1	3	-	-	-	1	-	-	-	-	-	-	-	3	-	2
C327.2	-	-	-	1	2	-	-	-	1	-	-	-	-	2	-
C327.3	3	-	-	-	1	-	-	-	-	-	-	-	3	-	2
C327.4	3	-	-	-	1	-	-	1	-	1	-	-	2	-	2
C327.5	-	-	-	1	2	-	-	-	-	-	-	-	-	2	-
C327.6	1	1	-	2	1	-	1	-	1	-	-	-	-	1	1
C327	**2.5**	**1**	-	**1.3**	**1.3**	-	**1**	**1**	**1**	**1**	-	-	**2.7**	**1.7**	**1.8**

COURSE OUTCOMES
IV YEAR ECE SEMESTER - I (REGULATION – R18)
ACADEMIC YEAR: 2021-2022

Course Code & Name: (R18ECE4101) MICROWAVE AND OPTICAL COMMUNICATION(411)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C411.1	2	2	2	1	1	1	-	-	-	-	-	-	1	-	1
C411.2	3	-	-	-	-	-	-	-	-	-	-	-	3	-	2
C411.3	1	1	-	2	2	-	-	-	1	-	-	-	-	-	-
C411.4	2	2	3	1	1	1	-	-	-	-	-	-	1	-	1
C411.5	1	1	-	2	2	1	-	-	-	-	-	-	-	-	-
C411.6	1	1	-	2	2	-	-	-	1	-	-	-	-	-	-
C411	1.7	1.4	2.5	1.6	1.6	1	-	-	1	-	-	-	1.7	-	1.3

Course Code & Name:(R18HAS4101) PROFESSIONAL PRACTICE, LAW & ETHICS(412)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C412.1	-	-	-	-	-	2	1	2	1	1	1	2	-	-	-
C412.2	-	-	-	-	-	1	1	3	1	-	1	-	-	-	-
C412.3	-	-	-	-	-	2	1	1	2	2	1	-	-	-	-
C412.4	-	-	-	-	-	1	1	2	1	2	1	2	-	-	-
C412.5	-	-	-	-	-	3	2	1	1	2	1	2	-	-	-
C412.6	-	-	-	-	-	1	1	1	1	1	1	2	-	-	-

Course Code & Name: (R18ECE4131) DIGITAL IMAGE PROCESSING (413)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C413.1	-	3	-	-	2	-	-	-	-	-	-	1	3	1	2
C413.2	3	-	-	-	-	-	-	-	1	-	2	-	1	1	-
C413.3	-	-	2	2	1	-	1	1	-	1	1	-	2	2	2
C413.4	-	2	-	-	-	-	-	-	-	-	-	1	1	3	1
C413.5	2	-	-	-	-	-	-	-	1	-	2	-	1	1	-
C413.6	-	-	1	1	3	-	1	1	-	1	-	1	3	1	3
C413	**2.5**	**2**	**1.5**	**1.5**	**2**	-	**1**	**1**	**1**	**1**	**1.7**	**1**	**1.6**	**1.6**	**2**

Course Code & Name: (R18ECE4141) CELLULAR & MOBILE COMMUNICATIONS (414)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C414.1	-	3	-	1	2	-	-	-	-	-	-	-	-	1	2
C414.2	2	-	1	-	2	-	-	1	-	2	-	-	2	-	-
C414.3	3	-	-	1	1	-	1	-	1	1	1	-	1	2	1
C414.4	-	3	-	1	2	-	-	-	-	-	-	-	-	1	2
C414.5	-	2	-	2	-	-	-	1	-	1	-	-	-	1	1
C414.6	-	-	1	3	3	-	1	-	-	-	2	-	1	2	2
C414	2.5	2.5	1	1.8	2	-	1	1	1	1.3	1.5	-	1.3	1.5	1.5

Course Code & Name: (R18ECE4183) PRINCIPLES OF MODERN COMMUNICATION SYSTEMS (415)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C415.1	2	2	2	-	-	-	-	-	-	-	-	-	1	-	1
C415.2	-	-	-	2	1	-	-	-	-	1	-	-	-	1	-
C415.3	-	1	1	1	-	-	-	1	1	-	-	-	-	1	-
C415.4	3	-	-	-	1	-	-	-	1	-	-	-	2	-	2
C415.5	-	-	1	2	-	-	-	-	-	-	-	-	-	1	-
C415.6	-	1	-	1	1	-	-	1	1	-	-	-	-	1	-
C415	2.5	1.3	1.3	1.5	1	-	-	1	1	1	-	-	1.5	1	1.5

Course Code & Name: (R18ECE41L1) MICROWAVE ENGINEERING AND OC LAB (416)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C416.1	1	3	1	-	2	-	-	-	1	1	-	-	1	-	1

C416.2	3	-	-	-	-	-	1	-	1	1	-	-	-	1	-
C416.3	-	2	1	1	3	-	-	1	1	1	-	-	-	1	-
C416.4	-	1	1	2	2	-	-	1	1	1	-	-	-	1	-
C416.5	1	2	2	-	-	-	1	1	1	1	-	-	1	-	1
C416.6	-	1	1	2	2	-	-	-	1	1	-	-	-	1	-
C416	1.7	1.8	1.2	1.7	2.3	-	1	1	1	1	-	-	1	1	1

COURSE OUTCOMES
IV YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2021-2022

Course Code & Name: (R18ECE4251) SATELLITE COMMUNICATIONS (C421)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C421.1	-	1	-	1	3	-	-	-	-	-	-	-	1	2	1
C421.2	3	-	-	-	-	-	2	-	-	-	1	-	2	1	-
C421.3	2	1	-	-	1	-	-	1	1	-	-	-	3	-	1
C421.4	1	3	-	-	-	-	-	-	1	1	-	-	-	2	-
C421.5	-	1	3	1	2	-	-	-	-	-	-	-	-	-	2
C421.6	-	-	-	3	1	-	-	1	1	-	1	-	1	1	3
C421	2	1.5	3	1.7	1.8	-	2	1	1	1	1	-	1.8	1.5	1.8

Course Code & Name: (R18ECE4261) WIRELESS COMMUNICATION & NETWORKS (C422)

Course Outcome	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C422.1	-	-	-	-	3	-	1	-	-	-	-	-	1	1	3
C422.2	-	3	-	1	-	-	-	1	1	-	1	-	-	1	-
C422.3	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-
C422.4	-	2	-	1	-	-	-	-	1	1	1	-	1	-	1
C422.5	-	-	1	-	1	-	-	1	1	-	-	-	-	1	-
C422.6	-	1	1	2	2	-	-	-	-	-	1	-	-	-	2
C422	-	2	1	1.3	2	-	1	1	1	1	1	-	1.3	1	2

Course Code & Name: (R18ECE4293) AUDIO & VIDEO ENGINEERING(423)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
C423.1	2	1	-	-	1	-	-	-	-	-	-	-	1	-	2
C423.2	2	1	-	-	-	-		-	-	-	-	-	-	-	1
C423.3	-	1	-	1	2	-	1	-	-	-	-	-	-	-	-
C423.4	2	-	-	1	1	-	1	-	-	-	-	-	1	-	2
C423.5	2	1	-	-	-	-	1	-	-	-	-	-	1	-	2
C423.6	2	1	-	1	1	-	1	-	-	-	-	-	1	-	2
C423	2	1	-	1	1.3	-	1	-	-	-	-	-	1	-	1.8

SRI INDU COLLEGE OF ENGG. & TECH.

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

Department of Electronics and Communication Engineering																	
2019-23 CO-PO Articulation Table																	
S.No	**Course Code**	**Course Title**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
1	Mathematics – I	R18MTH1101	2.17	2.33	2.17	1.67	-	-	-	-	-	-	-	1.33	2.5	2	2.17
2	Applied Physics	R18EAP1101	1.5	2	2.1	1.8	1.5	-	2	-	-	-	-	1.5	1	1.8	1.4
3	PPS	R18CSE1101	1.16	2	2	1	3	-	-	-	1	-	-	-	1	1.25	-
4	Engineering Graphics	R18MED1102	3	2	3	-	3	-	-	-	-	-	-	3	3	3	2
5	Applied Physics Lab	R18EAP12L1	1.5	2	2.1	1.8	1.5	-	2	-	-	-	-	1.5	1	1.8	1.4
6	PPS LAB	R18CSE12L1	1.16	2	2	0.66	3	-	-	-	0.5	-	-	-	0.5	0.83	-
7	Mathematics – II	R18MTH1201	2.5	2	1.67	2.17	2.5	1.33					0.83	2	2.5	1.67	2.33
8	Chemistry	R18ECH1101	2.1	2	2.1	-	-	-	2	-	-	-	-	-	1.5	1.6	-
9	BEE	R18EEE1101	2.1	1.6	1.3	1.3	1.3	1.8	2	1.3	1.8	1.8	1.6	2.3	2.3	2.3	2.5
10	Engineering Workshop	R18MED1101	3	1.3	0.6	0.5	1	-	-	1	-	-	0.6	-	3	-	3
11	English	R18HAS1101	-	-	2.8	3	3	2.8	3	3	3	2.3	-	2.7	-	-	-
12	EC Lab	R18ECH12L1	2.1	2.1	-	-	-	1.6	2.1	-	2	-	-	1.6	1.8	1.6	-
13	ELCS Lab	R18HAS12L1	0.33	1.33	0.67	0.67	-	1	0.67	0.67	1.17	2.67	1.33	2.83	0.33	2	1
14	BEE Lab	R18EEE12L2	2.6	2.1	-	-	-	2.3	2.3	-	2.1	-	-	2.1	2.1	2.8	-
15	EDC	R18ECE2101	2.2	1.6	1.5	2	2	-	1	1	1	1	-	-	2.3	1.7	1.5
16	Network Theory	R18EEE2107	1.5	2	1	1.2	1.4	-	1	-	-	-	-	-	-	-	1.6
17	Digital Logic Design	R18ECE2102	2	2	2.25	1.6	1.83	1	1	-	1	-	-	1.2	2	2.5	1.5
18	Signals and Systems	R18ECE2103	2.6	1.75	3	1.5	1.8	-	1	1	1	-	1	-	2	2	1.5
19	PTSP	R18ECE2104	2.3	1.8	1	1	1.8	1	1	1	1	1	-	-	2.2	1.3	1.5
20	EDC Lab	R18ECE21L1	1.8	2.2	1	1.5	2	1	1	1	1	1	-	-	2	1	2.5
21	DLD Lab	R18ECE21L2	2	1	1.8	2	2	-	1	1	1.4	1	-	1	1.8	1.3	1
22	BS Lab	R18ECE21L3	2	2	2.5	1.5	1.4	1	1	1	1	1	-	-	2.3	1.7	2
23	GS Lab	R18MAC2100	-	-	-	-	-	1.8	1.5	1.8	1.67	1.75	-	-	-	-	-
24	LT, NM & CV	R18MTH2201	2.2	2.4	2	1.4	1.7	-	-	-	-	-	-	1	-	-	-

25	EMTL	R18ECE2201	1.8	2.3	1.5	1	2.3	1	1	1	1	1	-	-	2	1.5	2
26	ADC	R18ECE2202	1.5	2.2	-	1.3	1.8	-	1	-	-	-	-	-	1.5	-	1.4
27	LDIC	R18ECE2203	2	3	2	2	2	-	-	1	1	1	1	1	2	1.5	1
28	ECA	R18ECE2204	2	1.7	2	2	1.3	-	-	1	1	1	1	1	2	2	1
29	ADC Lab	R18ECE22L1	1.8	2.2	1.2	1.3	1.5	-	-	1	1.6	1.3	-	-	1.2	2	1.3
30	ICA Lab	R18ECE22L2	1.7	1.3	1	1.5	1.5	-	1	1	1.5	1	-	-	1.5	1	2
31	ECA Lab	R18ECE22L3	1.5	1.7	1	1.5	1.3	-	1	1	1.5	1	-	-	1.5	-	1
32	BEFA	R18MBA2201	-	1	1	-	1.3	-	1	1	1	1	2	1	1	1	1
33	MPMC	R18ECE3101	1.7	2	1.7	1.3	1.3	1	-	1	1	1	1	1	1.7	1	2
34	DCN	R18INF3103	2.5	1.7	1.2	1.8	1.8	-	-	1	1	1	1	1	2.5	1	2
35	CS	R18EEE2202	1.8	2.2	1	1	1.8	1	-	1	1	1	-	-	1.7	1	2
36	COOS	R18CSE3114	1.7	1.3	2.5	2.5	2	-	1	1	1	-	1	-	2	1.3	1.5
37	MPMC Lab	R18ECE31L1	2.5	1.3	1.8	1.8	1.5	1	-	1	1	1	1	1	1.8	2.3	1.5
38	DCN Lab	R18INF31L2	2.8	1.7	1.3	-	1.3	1	-	1	1	1	-	1	2.8	2	1.8
39	ACS Lab	R18HAS31L1	-	1	-	-	1.7	-	-	1	1	2.2	1	1	-	-	1
40	AWP	R18ECE3201	2	3	1.3	2.5	2.3	-	-	1	1	1	-	1	1.5	1	1.5
41	DSP	R18ECE3202	1.7	2	2	2.5	1.8	1	-	1	1	1	1	1	2.5	1.5	3
42	VLSI Design	R18ECE3203	1.7	2	2	2	1	1	1	1	1	-	1	1	2	2	-
43	ESD	R18ECE3221	2.3	1.5	1	2	2	-	1	1	1	1.3	1.5	-	1.8	1.7	1.7
44	CE	R18ECE3273	2.5	1.3	1.8	1	1.3	-	-	1	1	1	1	-	2.5	1.3	1.6
45	DSP Lab	R18ECE32L1	2	2.3	1.5	1	2	1	-	1	1	1	1	1	2.5	2	2
46	e-CAD Lab	R18ECE32L2	2.5	1	-	1.3	1.3	-	1	1	1	1	-	-	2.7	1.7	1.8
47	MWE & OC	R18ECE4101	1.7	1.4	2.5	1.6	1.6	1	-	-	1	-	-	-	1.7	-	1.3
48	PPLE	R18HAS4101	-	-	-	-	-	1.7	1.2	1.7	1.2	1.6	1	2	-	-	-
49	DIP	R18ECE4131	2.5	2	1.5	1.5	2	-	1	1	1	1	1.7	1	1.6	1.6	2
50	CMC	R18ECE4141	2.5	2.5	1	1.8	2	-	1	1	1	1.3	1.5	-	1.3	1.5	1.5
51	PMCS	R18ECE4183	2.5	1.3	1.3	1.5	1	-	-	1	1	1	-	-	1.5	1	1.5

52	MWE & OC Lab	R18ECE41L1	1.7	1.8	1.2	1.7	2.3	-	1	1	1	1	-	-	1	1	1
53	SC	R18ECE4251	2	1.5	3	1.7	1.8	-	2	1	1	1	1	-	1.8	1.5	1.8
54	WCN	R18ECE4261	-	2	1.7	1.8	1.8	-	-	1	1	1	1	-	1.7	1.3	1.8
55	AVE	R18ECE4293	2	1	-	1	1.3	-	1	-	-	-	-	-	1	-	1.8
	Curriculam average mapping		**2.01**	**1.82**	**1.69**	**1.57**	**1.78**	**1.30**	**1.31**	**1.09**	**1.17**	**1.21**	**1.13**	**1.45**	**1.83**	**1.61**	**1.68**
	No.of. courses mapped		**49**	**52**	**47**	**46**	**48**	**21**	**32**	**39**	**44**	**35**	**23**	**27**	**49**	**44**	**45**

SRI INDU COLLEGE OF ENGG. & TECH. Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501 510.

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Sri Indu College of Engineering and Technology
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Ibrahimpatnam(M), R.R.Dist.

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

CO Assessment Tools

S. No.	Theory course		
	Tool Used	Frequency	Parameter of assessment
1	Assignment Test	2 tests per semester	Students scored above the Target Value
2	Internal Assessment Test	2 tests per semester	Students scored above the Target Value
3	End Semester Exams	1 test per semester	Students scored above the Target Value
	Laboratory course		
4	Lab day-to-day evaluation	conduction of the lab every week	Students scored above the Target Value
5	Internal Evaluation of Lab	2 tests per semester	Students scored above the Target Value
6	Semester Lab End Examination	1 test per semester	Students scored above the Target Value
7	Seminar	1 time per program	Students scored above the Target Value
8	Comprehensive viva	1 time per program	Students scored above the Target Value
9	Mini project	1 time per program	Students scored above the Target Value
10	Major project	1 time per program	Students scored above the Target Value

	Tool Used	Frequency	Parameter of assessment
1	CO Feedback	2 times in the academic year	Average of all CO feedbacks collected

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

Revised Bloom's Taxanomy

Definitions	I. Remembering	II. Understanding	III. Applying	IV. Analyzing	V. Evaluating	VI. Creating
Bloom's Definition	Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers.	Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas.	Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations.	Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria.	Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.
Verbs	• Choose • Define • Find • How • Label • List • Match • Name • Omit • Recall • Relate • Select • Show • Spell • Tell • What • When • Where • Which • Who • Why	• Classify • Compare • Contrast • Demonstrate • Explain • Extend • Illustrate • Infer • Interpret • Outline • Relate • Rephrase • Show • Summarize • Translate	• Apply • Build • Choose • Construct • Develop • Experiment with • Identify • Interview • Make use of • Model • Organize • Plan • Select • Solve • Utilize	• Analyze • Assume • Categorize • Classify • Compare • Conclusion • Contrast • Discover • Dissect • Distinguish • Divide • Examine • Function • Inference • Inspect • List • Motive • Relationships • Simplify • Survey • Take part in • Test for • Theme	• Agree • Appraise • Assess • Award • Choose • Compare • Conclude • Criteria • Criticize • Decide • Deduct • Defend • Determine • Disprove • Estimate • Evaluate • Explain • Importance • Influence • Interpret • Judge • Justify • Mark • Measure • Opinion • Perceive • Prioritize • Prove • Rate • Recommend • Rule on • Select • Support • Value	• Adapt • Build • Change • Choose • Combine • Compile • Compose • Construct • Create • Delete • Design • Develop • Discuss • Elaborate • Estimate • Formulate • Happen • Imagine • Improve • Invent • Make up • Maximize • Minimize • Modify • Original • Originate • Plan • Predict • Propose • Solution • Solve • Suppose • Test • Theory

Anderson, L. W., & Krathwohl, D. R. (2001). A taxonomy for learning, teaching, and assessing, Abridged Edition. Boston, MA: Allyn and Bacon.

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SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

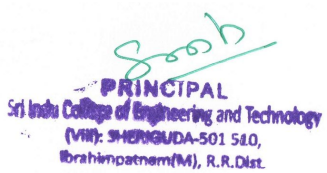
Department of Electronics and Communication Engineering

2019-23 CO 80% OF CIE Attainment

S.NO	Course Title	Course Code	CO1	CO2	CO3	CO4	CO5	CO6	Overall CIE Attainment
1	Mathematics – I	R18MTH1101	2.4	2.4	2.4	2.4	1.6	2.4	2.3
2	Applied Physics	R18EAP1101	2.4	2	2.4	2.4	2.4	2.4	2.3
3	PPS	R18CSE1101	2.4	2.4	2.4	2.4	2.4	2.4	2.4
4	Engineering Graphics	R18MED1102	2.4	2.4	2.4	1.12	2.4	2.4	2.2
5	Applied Physics Lab	R18EAP12L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
6	PPS LAB	R18CSE12L1	2.4	1.6	1.6	2.4	2.4	2.4	2.1
7	Mathematics – II	R18MTH1201	2.4	2.4	2.4	2.4	2.4	2.4	2.4
8	Chemistry	R18ECH1101	2.4	2.4	2.4	2.4	2.4	2.4	2.4
9	BEE	R18EEE1101	2.4	2.4	2.4	2.4	2.4	2.4	2.4
10	Engineering Workshop	R18MED1101	2.4	2.4	2.4	2.4	2.4	2.4	2.4
11	English	R18HAS1101	2.4	0.8	2.4	2.4	2.4	2.4	2.1
12	EC Lab	R18ECH12L1	2.4	2.4	0.8	2.4	2.4	2.4	2.1
13	ELCS Lab	R18HAS12L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
14	BEE Lab	R18EEE12L2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
15	EDC	R18ECE2101	2.4	2.4	2.4	2.4	2.4	0.8	2.1
16	Network Theory	R18EEE2107	2.4	2.4	2.4	2.4	2.4	2.4	2.4
17	Digital Logic Design	R18ECE2102	2.4	2.4	2.4	2.4	2.4	2.4	2.4
18	Signals and Systems	R18ECE2103	2.4	2.4	2.4	2.4	2.4	2.4	2.4
19	PTSP	R18ECE2104	2.4	2.4	2.4	2.4	2.4	2.4	2.4
20	EDC Lab	R18ECE21L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
21	DLD Lab	R18ECE21L2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
22	BS Lab	R18ECE21L3	2.32	2.32	2.4	2.4	2.4	2.4	2.4
23	LT, NM & CV	R18MTH2201	2.4	2.4	2.4	2.4	1.6	2.4	2.3
24	EMTL	R18ECE2201	2.4	2.4	2.4	2.4	2.4	2.4	2.4

25	ADC	R18ECE2202	2.4	2.4	2.4	2.4	2.4	2.4	2.4
26	LDIC	R18ECE2203	2.4	2.4	2.4	2.4	2.4	2.4	2.4
27	ECA	R18ECE2204	2.4	2.4	2.4	2.4	2.4	2.4	2.4
28	ADC Lab	R18ECE22L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
29	ICA Lab	R18ECE22L2	2.32	2.4	2.4	2.16	2.24	2.4	2.3
30	ECA Lab	R18ECE22L3	1.12	1.12	1.2	2.4	2.4	2.08	1.7
31	BEFA	R18MBA2201	2.4	2.4	2.4	2.4	2.4	2.4	2.4
32	MPMC	R18ECE3101	2.4	2.4	2.08	2.4	2.4	2.4	2.3
33	DCN	R18INF3103	2.4	2.4	2.4	2.4	2.4	2.4	2.4
34	CS	R18EEE2202	0.8	0.8	2.4	1.6	2.4	2.4	1.7
35	COOS	R18CSE3114	2.4	2.4	2.4	2.4	2.4	2.4	2.4
36	MPMC Lab	R18ECE31L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
37	DCN Lab	R18INF31L2	2.4	2.4	2.4	1.6	1.6	1.6	2.0
38	ACS Lab	R18HAS31L1	2.4	2.4	2.4	2.4	1.6	1.6	2.1
39	AWP	R18ECE3201	2.4	2.4	2.4	2.4	2.4	0	2.0
40	DSP	R18ECE3202	2.4	2.4	1.6	2.4	2.4	2.4	2.3
41	VLSI Design	R18ECE3203	2.4	2.4	2.4	2.4	2.4	2.4	2.4
42	ESD	R18ECE3221	2.4	2.4	2.4	2.4	2.4	1.6	2.3
43	CE	R18ECE3273	2.4	2.4	2.4	1.92	2.4	1.68	2.2
44	DSP Lab	R18ECE32L1	2.4	2.4	2.4	1.6	1.6	1.6	2.0
45	e-CAD Lab	R18ECE32L2	2.4	2.4	2.4	1.6	1.6	2.4	2.1
46	MWE & OC	R18ECE4101	2.4	2.4	2.4	2.4	2.32	2.24	2.4
47	PPLE	R18HAS4101	2.4	2.4	2.4	1.92	2.4	2.24	2.3
48	DIP	R18ECE4131	2.4	2.4	2.4	2.4	2.4	2.4	2.4
49	CMC	R18ECE4141	2.4	1.6	2.4	2.4	2.4	2.4	2.3
50	PMCS	R18ECE4183	2.16	2.24	2.4	2.4	2.4	2.4	2.3
51	MWE & OC Lab	R18ECE41L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
52	SC	R18ECE4251	2.4	2.4	2.4	2.4	2.4	2.4	2.4

53	RADAR	R18ECE4263	0.8	2.4	2.4	2.4	2.4	2.4	2.1
54	AVE	R18ECE4293	2.4	2.4	2.4	2.4	2.4	2.4	2.4



SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2019-23 CO SEE Attainment

S.NO	Course Title	Course Code	CO1	CO2	CO3	CO4	CO5	CO6	Overall CIE Attainment
1	Mathematics – I	R18MTH1101	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2	Applied Physics	R18EAP1101	2	2	2	2	2	2	2.0
3	PPS	R18CSE1101	2.7	2.7	2.7	2.7	2.7	2.7	2.7
4	Engineering Graphics	R18MED1102	1.9	1.9	1.9	1.9	1.9	1.9	1.9
5	Applied Physics Lab	R18EAP12L1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
6	PPS LAB	R18CSE12L1	1.9	1.9	1.9	1.9	1.9	1.9	1.9
7	Mathematics – II	R18MTH1201	2.4	2.4	2.4	2.4	2.4	2.4	2.4
8	Chemistry	R18ECH1101	2.7	2.7	2.7	2.7	2.7	2.7	2.7
9	BEE	R18EEE1101	2.5	2.3	2.3	2.3	2.3	2.3	2.3
10	Engineering Workshop	R18MED1101	3	3	3	3	3	3	3.0
11	English	R18HAS1101	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12	EC Lab	R18ECH12L1	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13	ELCS Lab	R18HAS12L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
14	BEE Lab	R18EEE12L2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
15	EDC	R18ECE2101	2.2	2.2	2.2	2.2	2.2	2.2	2.2
16	Network Theory	R18EEE2107	2.3	2.3	2.3	2.3	2.3	2.3	2.3

17	Digital Logic Design	R18ECE2102	1.8	1.8	1.8	1.8	1.8	1.8	1.8
18	Signals and Systems	R18ECE2103	1.6	1.6	1.6	1.6	1.6	1.6	1.6
19	PTSP	R18ECE2104	2.2	2.2	2.2	2.2	2.2	2.2	2.2
20	EDC Lab	R18ECE21L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
21	DLD Lab	R18ECE21L2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
22	BS Lab	R18ECE21L3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
23	LT, NM & CV	R18MTH2201	2.3	2.3	2.3	2.3	2.3	2.3	2.3
24	EMTL	R18ECE2201	2.3	2.3	2.3	2.3	2.3	2.3	2.3
25	ADC	R18ECE2202	1.9	1.9	1.9	1.9	1.9	1.9	1.9
26	LDIC	R18ECE2203	2	2	2	2	2	2	2.0
27	ECA	R18ECE2204	2.6	2.6	2.6	2.6	2.6	2.6	2.6
28	ADC Lab	R18ECE22L1	2	2	2	2	2	2	2.0
29	ICA Lab	R18ECE22L2	3	3	3	3	3	3	3.0
30	ECA Lab	R18ECE22L3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
31	BEFA	R18MBA2201	2	2	2	2	2	2	2.0
32	MPMC	R18ECE3101	2.6	2.6	2.6	2.6	2.6	2.6	2.6
33	DCN	R18INF3103	1.8	1.8	1.8	1.8	1.8	1.8	1.8
34	CS	R18EEE2202	2.8	2.8	2.8	2.8	2.8	2.8	2.8
35	COOS	R18CSE3114	2.6	2.6	2.6	2.6	2.6	2.6	2.6
36	MPMC Lab	R18ECE31L1	2.8	2.8	2.8	2.8	2.8	2.8	2.8

37	DCN Lab	R18INF31L2	3	3	3	3	3	3	3.0
38	ACS Lab	R18HAS31L1	3	3	3	3	3	3	3.0
39	AWP	R18ECE3201	2.1	2.1	2.1	2.1	2.1	2.1	2.1
40	DSP	R18ECE3202	2.6	2.6	2.6	2.6	2.6	2.6	2.6
41	VLSI Design	R18ECE3203	2.5	2.5	2.5	2.5	2.5	2.5	2.5
42	ESD	R18ECE3221	2	2	2	2	2	2	2.0
43	CE	R18ECE3273	3	3	3	3	3	3	3.0
44	DSP Lab	R18ECE32L1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
45	e-CAD Lab	R18ECE32L2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
46	MWE & OC	R18ECE4101	2.4	2.4	2.4	2.4	2.4	2.4	2.4
47	PPLE	R18HAS4101	2.7	2.7	2.7	2.7	2.7	2.7	2.7
48	DIP	R18ECE4131	2.2	2.2	2.2	2.2	2.2	2.2	2.2
49	CMC	R18ECE4141	2.1	2.1	2.1	2.1	2.1	2.1	2.1
50	PMCS	R18ECE4183	2.5	2.5	2.5	2.5	2.5	2.5	2.5
51	MWE & OC Lab	R18ECE41L1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
52	SC	R18ECE4251	1.9	1.9	1.9	1.9	1.9	1.9	1.9
53	RADAR	R18ECE4263	2.4	2.4	2.4	2.4	2.4	2.4	2.4
54	AVE	R18ECE4293	2.2	2.2	2.2	2.2	2.2	2.2	2.2

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2019-23 CO Rubrics

Course Title	Course	Rubrics	Target Fixed	Target Attained
Mathematics–I	R18MTH1101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.4	2.88
AppliedPhysics	R18EAP1101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.4	2.27
Programming forProblemSolving	R18CSE1101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2	2.79
EngineeringGraphics	R18MED1102	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.6	2.15
AppliedPhysicsLab	R18EAP12L1	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.5	2.44
ProgrammingforProblemSolving Lab	R18CSE12L1	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.2	2.13
Mathematics– II	R18MTH1201	Level 1 : ATTAINMENT % >=40 AND <=49	2.6	2.58
Chemistry	R18ECH1101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.2	2.79

BasicElectricalEngineering	R18EEE1101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.6	2.53
EngineeringWorkshop	R18MED1101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.5	2.95
English	R18HAS1101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2	2.27
EngineeringChemistryLab	R18ECH12L1	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.6	2.93
EnglishLanguageandCommunicationSkillsLab	R18HAS12L1	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.2	2.53
BasicElectricalEngineeringLab	R18EEE12L2	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.5	2.4
ElectronicDevicesandCircuits	R18ECE2101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.1	2.39
NetworkTheory	R18EEE2107		2.6	2.46
DigitalLogicDesign	R18ECE2102	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.1	2.39

SignalsandSystems	R18ECE2103	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.2	1.92
ProbabilityTheoryandStochasticProcesses	R18ECE2104	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.5	2.39
ElectronicDevicesandCircuitsLab	R18ECE21L1	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.2	2.53
DigitalLogic DesignLab	R18ECE21L2	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.3	2.11
BasicSimulationLab	R18ECE21L3	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.3	1.96
LT, NM & CV	R18MTH2201	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.5	2.42
ElectromagneticTheoryAndTransmissionLines	R18ECE2201	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.3	2.46
AnalogandDigitalCommunications	R18ECE2202	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.2	2.18

Linear andDigitalICApplications	R18ECE2203	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.4	2.25
ElectronicCircuitAnalysis	R18ECE2204	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.6	2.5
AnalogandDigitalCommunications Lab	R18ECE22L1	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70		
ICApplicationsLab	R18ECE22L2	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	3	2.92
ElectronicCircuitAnalysisLab	R18ECE22L3	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	1.5	2.46
BusinessEconomics&FinancialAnalysis	R18MBA2201	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.3	2.36
Microprocessors&Microcontrollers	R18ECE3101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.7	2.66
DataCommunicationsand Networks	R18INF3103	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.2	2.12

ControlSystems	R18EEE2202	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.7	2.61
ComputerOrganization & Operating Systems	R18CSE3114	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.7	2.67
Microprocessors&Microcontrollers Lab	R18ECE31L1	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.7	2.82
DataCommunicationsandNetworks Lab	R18INF31L2	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.2	2.84
AdvancedCommunicationSkills Lab	R18HAS31L1	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.7	2.88
AntennasandWavePropagation	R18ECE3201	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.3	2.21
DigitalSignalProcessing	R18ECE3202	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	3	2.63
VLSIDesign	R18ECE3203	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.7	2.61

EmbeddedSystemDesign	R18ECE3221	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.3	2.22
Consumer Electronics	R18ECE3273	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.2	2.89
DigitalSignalProcessing Lab	R18ECE32L1	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	1.9	1.79
e–CADLab	R18ECE32L2	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.6	2.53
MicrowaveandOpticalCommunication	R18ECE4101	Level 1 : ATTAINMENT % >=50 AND <=59 Level 2 : ATTAINMENT % >=60 AND <=69 Level 3 : ATTAINMENT % >=70	2.6	2.52
ProfessionalPractice,Law&Ethics	R18HAS4101	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.6	2.7
DigitalImageProcessing	R18ECE4131	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.6	2.39
Cellular&MobileCommunications	R18ECE4141	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.4	2.3
PMCS	R18ECE4183	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.7	2.58

Microwave&OpticalCommunication	R18ECE41L1	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	3	2.32
SatelliteCommunications	R18ECE4251		2.4	2.18
RadarSystems	R18ECE4263	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.5	2.4
Audio &Video Engineering	R18ECE4293	Level 1 : ATTAINMENT % >=40 AND <=49 Level 2 : ATTAINMENT % >=50 AND <=59 Level 3 : ATTAINMENT % >=60	2.5	2.39

SRI INDU COLLEGE OF ENGG. & TECH. Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501 510.

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2019-23 CO Direct Attainment

S.NO	Course Title	Course Code	CO1	CO2	CO3	CO4	CO5	CO6	Consolidated CO Direct Attainment
1	Mathematics – I	R18MTH1101	2.9	2.9	2.9	2.9	2.6	2.9	2.9
2	Applied Physics	R18EAP1101	2.3	2.15	2.3	2.3	2.3	2.3	2.3
3	PPS	R18CSE1101	2.79	2.79	2.79	2.79	2.79	2.79	2.8
4	Engineering Graphics	R18MED1102	2.23	2.23	2.23	1.75	2.23	2.23	2.2
5	Applied Physics Lab	R18EAP12L1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
6	PPS LAB	R18CSE12L1	2.23	1.93	1.93	2.23	2.23	2.23	2.1
7	Mathematics – II	R18MTH1201	2.58	2.58	2.58	2.58	2.58	2.58	2.6
8	Chemistry	R18ECH1101	2.79	2.79	2.79	2.79	2.79	2.79	2.8
9	BEE	R18EEE1101	2.65	2.51	2.51	2.51	2.51	2.51	2.5
10	Engineering Workshop	R18MED1101	2.95	2.95	2.95	2.94	2.95	2.95	2.9
11	English	R18HAS1101	2.37	1.77	2.37	2.37	2.37	2.37	2.3
12	EC Lab	R18ECH12L1	2.93	2.93	2.33	2.93	2.93	2.93	2.8
13	ELCS Lab	R18HAS12L1	2.53	2.53	2.53	2.53	2.53	2.53	2.5
14	BEE Lab	R18EEE12L2	2.44	2.44	2.44	2.44	2.44	2.44	2.4
15	EDC	R18ECE2101	2.39	2.39	2.38	2.39	2.39	1.92	2.3
16	Network Theory	R18EEE2107	2.46	2.46	2.46	2.46	2.45	2.46	2.5
17	Digital Logic Design	R18ECE2102	2.38	2.39	2.39	2.4	2.4	2.39	2.4
18	Signals and Systems	R18ECE2103	1.97	1.97	1.96	1.96	1.96	1.96	2.0
19	PTSP	R18ECE2104	2.39	2.39	2.39	2.38	2.39	2.39	2.4
20	EDC Lab	R18ECE21L1	2.53	2.53	2.53	2.53	2.53	2.53	2.5
21	DLD Lab	R18ECE21L2	2.11	2.1	2.11	2.11	2.11	2.11	2.1
22	BS Lab	R18ECE21L3	1.94	1.95	1.97	1.97	1.97	1.97	2.0
23	LT, NM & CV	R18MTH2201	2.46	2.46	2.46	2.46	2.22	2.46	2.4
24	EMTL	R18ECE2201	2.46	2.46	2.45	2.46	2.46	2.46	2.5
25	ADC	R18ECE2202	2.17	2.18	2.18	2.17	2.18	2.18	2.2
26	LDIC	R18ECE2203	2.25	2.25	2.24	2.25	2.25	2.25	2.2
27	ECA	R18ECE2204	2.67	2.67	2.67	2.66	2.67	2.67	2.7

28	ADC Lab	R18ECE22L1	2.25	2.25	2.25	2.24	2.26	2.25	2.3
29	ICA Lab	R18ECE22L2	2.92	2.95	2.95	2.87	2.9	2.95	2.9
30	ECA Lab	R18ECE22L3	2.28	2.28	2.31	2.67	2.66	2.57	2.5
31	BEFA	R18MBA2201	2.26	2.26	2.26	2.26	2.26	2.26	2.3
32	MPMC	R18ECE3101	2.68	2.68	2.58	2.68	2.68	2.68	2.7
33	DCN	R18INF3103	2.12	2.12	2.12	2.11	2.12	2.12	2.1
34	CS	R18EEE2202	2.33	2.33	2.81	2.57	2.82	2.82	2.6
35	COOS	R18CSE3114	2.67	2.68	2.68	2.68	2.68	2.68	2.7
36	MPMC Lab	R18ECE31L1	2.82	2.82	2.82	2.82	2.82	2.82	2.8
37	DCN Lab	R18INF31L2	2.96	2.95	2.96	2.72	2.72	2.72	2.8
38	ACS Lab	R18HAS31L1	2.96	2.96	2.96	2.96	2.71	2.72	2.9
39	AWP	R18ECE3201	2.33	2.33	2.33	2.33	2.32	1.62	2.2
40	DSP	R18ECE3202	2.68	2.68	2.44	2.68	2.67	2.67	2.6
41	VLSI Design	R18ECE3203	2.61	2.61	2.6	2.61	2.6	2.61	2.6
42	ESD	R18ECE3221	2.26	2.26	2.26	2.27	2.27	2.02	2.2
43	CE	R18ECE3273	2.95	2.95	2.95	2.81	2.95	2.73	2.9
44	DSP Lab	R18ECE32L1	1.91	1.91	1.91	1.67	1.67	1.67	1.8
45	e-CAD Lab	R18ECE32L2	2.61	2.61	2.61	2.37	2.37	2.61	2.5
46	MWE & OC	R18ECE4101	2.53	2.53	2.53	2.53	2.51	2.48	2.5
47	PPLE	R18HAS4101	2.74	2.74	2.74	2.59	2.74	2.69	2.7
48	DIP	R18ECE4131	2.39	2.39	2.39	2.39	2.39	2.53	2.4
49	CMC	R18ECE4141	2.32	2.08	2.32	2.31	2.32	2.32	2.3
50	PMCS	R18ECE4183	2.53	2.55	2.6	2.6	2.6	2.6	2.6
51	MWE & OC Lab	R18ECE41L1	2.32	2.32	2.31	2.31	2.31	2.31	2.3
52	SC	R18ECE4251	2.18	2.19	2.18	2.18	2.18	2.18	2.2
53	RADAR	R18ECE4263	2.05	2.52	2.53	2.53	2.53	2.53	2.4
54	AVE	R18ECE4293	2.39	2.38	2.39	2.39	2.38	2.39	2.4

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

Course End Survey Form III Year-II Semester Sample and Responses (2017-2021)

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY		
COURSE END SURVEY		
ASSESSMENT OF COURSE OUTCOMES		
CAY:2019-2020	SEM: ☐ I ☐ II	Date:
Year	☐ I ☐ II ☐ III ☐ IV	Batch:
Department		

ASSESSMENT OF LEARNING OUTCOMES

Please evaluate on the following Scale:

Very Good	Satisfactory	Need Improvement
3	2	1

SNO	QUESTIONNAIRE	Your Rating
GENERAL OBJECTIVES:		
1)	Has the course achieved its stated objectives?	
2)	Have you gained the stated skills?	
3)	Whether the syllabus is adequate to achieve the objectives?	
4)	Whether the teacher has helped in acquiring the stated skills?	
5)	Whether the teacher has given real life applications of the course?	
SPECIFIC LEARNING OUTCOMES – MANAGERIAL ECONOMICS & FINANCIAL ANALYSIS (C321)		
C321.1	Analyze the market demand and supply analysis and pricing in different market structures.	
C321.2	Determine how production functions are carried out and analyze the cost.	
C321.3	Identify different markets and types of business organization.	
C321.4	Evaluate how capital budgeting decisions are carried out.	
C321.5	Adapt the framework for manual accounting process.	
C321.6	Analyze and interpret financial statements through ratio analysis.	
SPECIFIC LEARNING OUTCOMES – TELEVISION ENGINEERING (C322)		
C322.1	Explain the TV transmitter and receiver, interlaced scanning composite video signal, camera tubes ,TV signal transmission and propagation.	
C322.2	Classify monochrome TV receiver blocks like RF tuner, IF subsystem scanning circuits, Deflection circuits, AGC, noise cancellation, FM detection. .	
C322.3	Identify the TV receiver tuners, VHF and VHF tuners, digital tuning techniques and remote control of receiver functions.	
C322.4	Interpret the sync separation ,AFC single ended AFC circuit, Deflection oscillators and Receiver antennas and picture tubes.	
C322.5	Discuss about the Color TV basic concepts, Color picture tubes, NTSC color system, PAL color system and PAL-D decoder.	
C322.6	Discuss about Electronic tuners, IF subsystem, chroma decoder, synchronous demodulators, raster circuits, Digital TV DTH, LCD TV, LED TV, CCD image sensors and HDTV.	
SPECIFIC LEARNING OUTCOMES – DIGITAL COMMUNICATIONS (C323)		
C323.1	Make use of basic components of digital communication system.	
C323.2	Analyze the error performance of the digital modulation techniques.	
C323.3	Demonstrate the design of optimum receivers for the digital modulation techniques.	
C323.4	Solve the information theory, entropy and source coding techniques.	
C323.5	Compare different error detecting and correcting codes like block codes, cyclic codes and convolution codes.	
C323.6	Classify the performance of spread spectrum, PN codes in jamming, noise etc.	
SPECIFIC LEARNING OUTCOMES – VLSI DESIGN (C324)		
C324.1.	Compare the fabrication process of integrated circuit using MOS transistors.	
C324.2.	Choose an appropriate inverter depending on specifications required for a circuit.	
C324.3.	Sketch the layout and estimate parasitic of any logic circuit.	
C324.4.	Design different types of logic gates using CMOS inverter.	
C324.5.	Design building blocks of data path using gates and memories using MOS transistors.	
C324.6.	Design Programmable logic devices and interpret the concept of testing to improve testability of system.	
SPECIFIC LEARNING OUTCOMES – MICROPROCESSORS AND MICROCONTROLLERS (C325)		
C325.1	Classify the internal details of microprocessors 8086.	
C325.2	Apply the various types of instruction sets of microprocessor 8086 to write programs.	
C325.3	Analyze and apply different interfacing techniques to interface I/O devices with 8086 microprocessor	

	devices with 8086 microprocessor.	
C325.4	Explain the internal details of microcontroller 8051.	
C325.5	Interpret the various types of instruction sets of microcontroller 8051 to write programs.	
C325.6	Analyze and apply different programming techniques to control 8051 supporting peripheral devices in real time.	
SPECIFIC LEARNING OUTCOMES – DIGITAL SIGNAL PROCESSING (C326)		
C326.1	Identify the time, frequency and Z - transform analysis on signals and systems.	
C326.2.	Relationship between DFT and various transforms.	
C326.3	Explain significance of various filter structures and effects of round off errors.	
C326.4	Design Digital Filters for a given specifications.	
C326.5.	Analyze the fast computation of EDFT and appreciate the FFT processing.	
C326.6	Evaluate the multi rate DSP techniques and finite word length effects.	
SPECIFIC LEARNING OUTCOMES – MICROPROCESSOR AND MICROCONTROLLER LAB(C327)		
C327.1.	Develop the programs for 16-bit arithmetic operation, sorting, searching, string manipulations on 8086 microprocessor.	
C327.2.	Design and develop program for digital clock, parallel communication using 8255 and serial communication using 8251.	
C327.3.	Develop program for interfacing ADC, DAC and stepper motor to 8086.	
C327.4.	Develop the programs for arithmetic, logical and bit manipulation instructions of 8051 and verify Timer/counter, interrupt handling in 8051 microcontroller.	
C327.5.	Develop program for interfacing of LCD and Matrix/keyboard to 8051 and communication between 8051 kit and PC.	
C327.6.	Develop the program for UART and data transfer program from peripheral to memory through DMA controller 8237/8257.	
SPECIFIC LEARNING OUTCOMES – DIGITAL SIGNAL PROCESSING LAB (C328)		
C328.1.	Generate sinusoidal waveforms on recursive difference equation and through filtering and DTMF signals.	
C328.2.	Sketch the characteristic of FFT of a given sequence for LP FIR,HP FIR,LP IIR,HP IIR filters.	
C328.3.	Calculate the DFT/IDFT of given DT signal and show the frequency response of given system. Impulse response of first order and second order systems.	
C328.4.	Determine the power spectrum of a given sequence. (K3-Apply)	
C328.5.	Analyze Decimation, Interpolation and I/D sampling rate converters.	
C328.6.	Experiment the audio application and noise removal.	

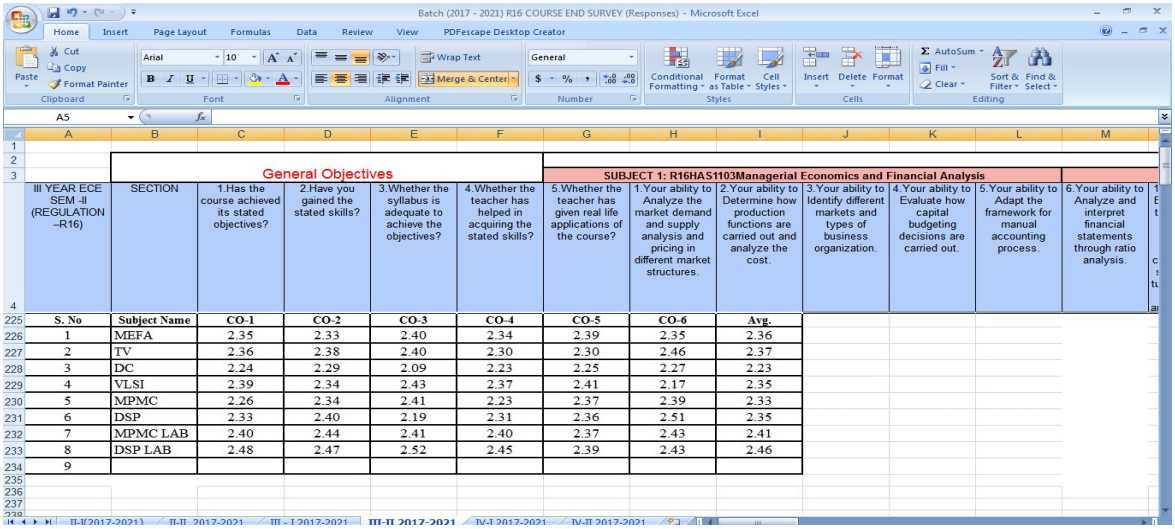
Signature (Optional)

ASSESSMENT OF COURSE OUTCOMES:

1) Number of Students, who had given the feedbacks: **N**
2) **Number of Questions = Q (General objectives + specific outcomes)**
3) Find the Number of Very Good(VG), Satisfactory(S), Need Improvement(NI)
4) Assessment of Course Outcomes (ACO) will be as per the following formula:

ACO=(3xVG+2xS+1xNI)/ (N x Q)

Course Outcome (CO) in %age = (ACO/3) *100



			General Objectives				SUBJECT 1: R16HAS1103Managerial Economics and Financial Analysis						
	III YEAR ECE SEM -II (REGULATION –R16)	SECTION	1.Has the course achieved its stated objectives?	2.Have you gained the stated skills?	3.Whether the syllabus is adequate to achieve the objectives?	4.Whether the teacher has helped in acquiring the stated skills?	5.Whether the teacher has given real life applications of the course?	1.Your ability to Analyze the market demand and supply analysis and pricing in different market structures.	2.Your ability to Determine how production functions are carried out and analyze the cost.	3.Your ability to Identify different markets and types of business organization.	4.Your ability to Evaluate how capital budgeting decisions are carried out.	5.Your ability to Adapt the framework for manual accounting process.	6.Your ability to Analyze and interpret financial statements through ratio analysis.
225	**S. No**	**Subject Name**	**CO-1**	**CO-2**	**CO-3**	**CO-4**	**CO-5**	**CO-6**	**Avg.**				
226	1	MEFA	2.35	2.33	2.40	2.34	2.39	2.35	2.36				
227	2	TV	2.36	2.38	2.40	2.30	2.30	2.46	2.37				
228	3	DC	2.24	2.29	2.09	2.23	2.25	2.27	2.23				
229	4	VLSI	2.39	2.34	2.43	2.37	2.41	2.17	2.35				
230	5	MPMC	2.26	2.34	2.41	2.23	2.37	2.39	2.33				
231	6	DSP	2.33	2.40	2.19	2.31	2.36	2.51	2.35				
232	7	MPMC LAB	2.40	2.44	2.41	2.40	2.37	2.43	2.41				
233	8	DSP LAB	2.48	2.47	2.52	2.45	2.39	2.43	2.46				
234	9												

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2019-23 CO Indirct Attainment

S.NO	Course Title	Course Code	CO1	CO2	CO3	CO4	CO5	CO6	Consolidated CO IN Direct Attainment
1	Mathematics – I	R18MTH1101	2.3	2.3	2.4	2.3	2.3	2.3	2.3
2	Applied Physics	R18EAP1101	2.3	2.3	2.3	2.3	2.3	2.3	2.3
3	PPS	R18CSE1101	2.3	2.3	2.3	2.4	2.3	2.3	2.3
4	Engineering Graphics	R18MED1102	2.4	2.3	2.3	2.3	2.3	2.2	2.3
5	Applied Physics Lab	R18EAP12L1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
6	PPS LAB	R18CSE12L1	2.3	2.3	2.4	2.4	2.3	2.3	2.3
7	Mathematics – II	R18MTH1201	2.0	2.1	2.1	2.1	2.1	2.2	2.1
8	Chemistry	R18ECH1101	2.1	2.2	2.1	2.1	2.1	2.1	2.1
9	BEE	R18EEE1101	2.1	2.2	2.1	2.2	2.2	2.1	2.2
10	Engineering Workshop	R18MED1101	2.1	2.1	2.1	2.0	2.2	2.1	2.1
11	English	R18HAS1101	2.1	2.1	2.1	2.0	2.0	2.1	2.1
12	EC Lab	R18ECH12L1	2.1	2.0	2.1	2.2	2.1	2.1	2.1
13	ELCS Lab	R18HAS12L1	2.1	2.2	2.2	2.1	2.1	2.2	2.1
14	BEE Lab	R18EEE12L2	2.1	2.1	2.1	2.2	2.2	2.1	2.1
15	EDC	R18ECE2101	2.19	2.12	2.04	2.14	2.10	2.29	2.1
16	Network Theory	R18EEE2107	2.20	2.24	2.17	2.10	2.06	2.14	2.2
17	Digital Logic Design	R18ECE2102	2.08	2.20	2.16	2.25	2.26	2.21	2.2
18	Signals and Systems	R18ECE2103	2.14	2.13	2.06	2.00	2.00	2.07	2.1
19	PTSP	R18ECE2104	2.19	2.16	2.14	2.06	2.21	2.16	2.2
20	EDC Lab	R18ECE21L1	2.15	2.15	2.20	2.17	2.23	2.13	2.2
21	DLD Lab	R18ECE21L2	2.14	2.06	2.16	2.16	2.09	2.12	2.1
22	BS Lab	R18ECE21L3	2.07	2.21	2.20	2.13	2.14	2.11	2.1
23	LT, NM & CV	R18MTH2201	2.17	2.10	2.19	2.18	2.19	2.15	2.2
24	EMTL	R18ECE2201	2.11	2.21	2.20	2.11	2.22	2.30	2.2
25	ADC	R18ECE2202	2.06	2.20	2.22	2.07	2.17	2.12	2.1
26	LDIC	R18ECE2203	2.13	2.16	2.08	2.12	2.21	2.19	2.1
27	ECA	R18ECE2204	2.12	2.10	2.18	2.05	2.21	2.17	2.1

28	ADC Lab	R18ECE22L1	2.12	2.17	2.09	2.04	2.26	2.15	2.1
29	ICA Lab	R18ECE22L2	2.08	2.11	2.15	2.09	2.14	2.17	2.1
30	ECA Lab	R18ECE22L3	2.08	2.13	2.13	2.19	2.08	2.09	2.1
31	BEFA	R18MBA2201	2.36	2.30	2.32	2.33	2.39	2.33	2.3
32	MPMC	R18ECE3101	2.25	2.28	2.29	2.36	2.31	2.29	2.3
33	DCN	R18INF3103	2.30	2.28	2.26	2.22	2.26	2.26	2.3
34	CS	R18EEE2202	2.24	2.20	2.20	2.21	2.26	2.27	2.2
35	COOS	R18CSE3114	2.21	2.31	2.29	2.25	2.28	2.29	2.3
36	MPMC Lab	R18ECE31L1	2.25	2.28	2.33	2.32	2.32	2.38	2.3
37	DCN Lab	R18INF31L2	2.25	2.21	2.29	2.33	2.34	2.29	2.3
38	ACS Lab	R18HAS31L1	2.27	2.38	2.25	2.29	2.22	2.25	2.3
39	AWP	R18ECE3201	2.28	2.33	2.36	2.35	2.23	2.42	2.3
40	DSP	R18ECE3202	2.30	2.28	2.26	2.26	2.21	2.31	2.3
41	VLSI Design	R18ECE3203	2.28	2.31	2.24	2.29	2.24	2.34	2.3
42	ESD	R18ECE3221	2.27	2.33	2.33	2.42	2.44	2.32	2.4
43	CE	R18ECE3273	2.34	2.23	2.27	2.34	2.30	2.30	2.3
44	DSP Lab	R18ECE32L1	2.32	2.33	2.30	2.37	2.30	2.41	2.3
45	e-CAD Lab	R18ECE32L2	2.39	2.25	2.25	2.36	2.31	2.39	2.3
46	MWE & OC	R18ECE4101	2.16	2.22	2.20	2.24	2.19	2.20	2.2
47	PPLE	R18HAS4101	2.24	2.16	2.13	2.11	2.21	2.20	2.2
48	DIP	R18ECE4131	2.18	2.21	2.20	2.19	2.21	2.19	2.2
49	CMC	R18ECE4141	2.18	2.19	2.09	2.04	2.15	2.14	2.1
50	PMCS	R18ECE4183	2.18	2.06	2.23	2.15	2.16	2.13	2.2
51	MWE & OC Lab	R18ECE41L1	2.16	2.10	2.05	2.07	2.06	2.07	2.1
52	SC	R18ECE4251	2.18	2.25	2.19	2.13	2.09	2.17	2.2
53	RADAR	R18ECE4263	2.16	2.08	2.23	2.13	2.18	2.20	2.2
54	AVE	R18ECE4293	2.22	2.11	2.17	2.22	2.11	2.14	2.2

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2019-23 CO Overall Attainment

S.NO	Course Title	Course	CONSOLIDATED CO DIRECT ATTAINMENT	80% OF CONSOLIDATED CO DIRECT ATTAINMENT	CONSOLIDATED CO INDIRECT ATTAINMENT	20% OF CONSOLIDATED CO INDIRECT ATTAINMENT	CONSOLIDATED Overall CO ATTAINMENT =80% OF DIRECT +20% OF INDIRECT
1	Mathematics – I	R18MTH1101	2.9	2.32	2.3	0.46	2.78
2	Applied Physics	R18EAP1101	2.3	1.84	2.3	0.46	2.30
3	PPS	R18CSE1101	2.8	2.24	2.3	0.47	2.71
4	Engineering Graphics	R18MED1102	2.2	1.76	2.3	0.46	2.22
5	Applied Physics Lab	R18EAP12L1	2.4	1.92	2.3	0.46	2.38
6	PPS LAB	R18CSE12L1	2.1	1.68	2.3	0.46	2.14
7	Mathematics – II	R18MTH1201	2.6	2.08	2.1	0.42	2.50
8	Chemistry	R18ECH1101	2.8	2.24	2.1	0.42	2.66
9	BEE	R18EEE1101	2.5	2.00	2.2	0.43	2.43
10	Engineering Workshop	R18MED1101	2.9	2.32	2.1	0.43	2.75
11	English	R18HAS1101	2.3	1.84	2.1	0.42	2.26
12	EC Lab	R18ECH12L1	2.8	2.24	2.1	0.42	2.66
13	ELCS Lab	R18HAS12L1	2.5	2.00	2.1	0.43	2.43
14	BEE Lab	R18EEE12L2	2.4	1.92	2.1	0.43	2.35
15	EDC	R18ECE2101	2.3	1.84	2.1	0.43	2.27
16	Network Theory	R18EEE2107	2.5	2.00	2.2	0.43	2.43
17	Digital Logic Design	R18ECE2102	2.4	1.92	2.2	0.44	2.36
18	Signals and Systems	R18ECE2103	2.0	1.60	2.1	0.41	2.01
19	PTSP	R18ECE2104	2.4	1.92	2.2	0.43	2.35
20	EDC Lab	R18ECE21L1	2.5	2.00	2.2	0.43	2.43
21	DLD Lab	R18ECE21L2	2.1	1.68	2.1	0.42	2.10
22	BS Lab	R18ECE21L3	2.0	1.60	2.1	0.43	2.03
23	LT, NM & CV	R18MTH2201	2.4	1.92	2.2	0.43	2.35
24	EMTL	R18ECE2201	2.5	2.00	2.2	0.44	2.44
25	ADC	R18ECE2202	2.2	1.76	2.1	0.43	2.19
26	LDIC	R18ECE2203	2.2	1.76	2.1	0.43	2.19
27	ECA	R18ECE2204	2.7	2.16	2.1	0.43	2.59
28	ADC Lab	R18ECE22L1	2.3	1.84	2.1	0.43	2.27
29	ICA Lab	R18ECE22L2	2.9	2.32	2.1	0.43	2.75
30	ECA Lab	R18ECE22L3	2.5	2.00	2.1	0.42	2.42
31	BEFA	R18MBA2201	2.3	1.84	2.3	0.47	2.31
32	MPMC	R18ECE3101	2.7	2.16	2.3	0.46	2.62
33	DCN	R18INF3103	2.1	1.68	2.3	0.45	2.13
34	CS	R18EEE2202	2.6	2.08	2.2	0.45	2.53

35	COOS	R18CSE3114	2.7	2.16	2.3	0.45	2.61
36	MPMC Lab	R18ECE31L1	2.8	2.24	2.3	0.46	2.70
37	DCN Lab	R18INF31L2	2.8	2.24	2.3	0.46	2.70
38	ACS Lab	R18HAS31L1	2.9	2.32	2.3	0.46	2.78
39	AWP	R18ECE3201	2.2	1.76	2.3	0.47	2.23
40	DSP	R18ECE3202	2.6	2.08	2.3	0.45	2.53
41	VLSI Design	R18ECE3203	2.6	2.08	2.3	0.46	2.54
42	ESD	R18ECE3221	2.2	1.76	2.4	0.47	2.23
43	CE	R18ECE3273	2.9	2.32	2.3	0.46	2.78
44	DSP Lab	R18ECE32L1	1.8	1.44	2.3	0.47	1.91
45	e-CAD Lab	R18ECE32L2	2.5	2.00	2.3	0.46	2.46
46	MWE & OC	R18ECE4101	2.5	2.00	2.2	0.44	2.44
47	PPLE	R18HAS4101	2.7	2.16	2.2	0.43	2.59
48	DIP	R18ECE4131	2.4	1.92	2.2	0.44	2.36
49	CMC	R18ECE4141	2.3	1.84	2.1	0.43	2.27
50	PMCS	R18ECE4183	2.6	2.08	2.2	0.43	2.51
51	MWE & OC Lab	R18ECE41L1	2.3	1.84	2.1	0.42	2.26
52	SC	R18ECE4251	2.2	1.76	2.2	0.43	2.19
53	WCN	R18ECE4261	2.4	1.92	2.2	0.43	2.35
54	AVE	R18ECE4293	2.4	1.92	2.2	0.43	2.35

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2018-22 Percentage of Students Attained CO

S.NO	Course Title	Course Code	CO1	CO2	CO3	CO4	CO5	CO6	% PERCENATAGE OF STUDENTS
1	Mathematics – I	R18MTH1101	67.0	73.0	81.0	88.0	55.0	85.0	74.8
2	Applied Physics	R18EAP1101	76	55	76	70	63	76	69.3
3	PPS	R18CSE1101	74	80	72	69	69	78	73.7
4	Engineering Graphics	R18MED1102	83	99	67	44	84	81	76.3
5	Applied Physics Lab	R18EAP12L1	71.6	72.2	71.6	84.2	84.2	84.2	78.0
6	PPS LAB	R18CSE12L1	70.6	65.8	60.4	75.4	73	70.6	69.3
7	Mathematics – II	R18MTH1201	79	70	87	81	82	79	79.7
8	Chemistry	R18ECH1101	76	73	85	88	83	85	81.7
9	BEE	R18EEE1101	75	70	84	77	79	75	76.7
10	Engineering Workshop	R18MED1101	88	83	78	67	82	92	81.8
11	English	R18HAS1101	66	49	77	87	69	77	70.8
12	EC Lab	R18ECH12L1	82.2	75	51.6	90.6	90.6	90.6	80.1
13	ELCS Lab	R18HAS12L1	83	79	78	87	84	79	81.7
14	BEE Lab	R18EEE12L2	73.2	73.2	73.2	73.8	73.8	73.8	73.5
15	EDC	R18ECE2101	84	78	90	81	100	44	79.5
16	Network Theory	R18EEE2107	86	77	75	79	60	88	77.5
17	Digital Logic Design	R18ECE2102	85	90	73	73	80	71	78.7
18	Signals and Systems	R18ECE2103	85	86	81	73	62	88	79.2
19	PTSP	R18ECE2104	90	90	85	63	95	75	83.0
20	EDC Lab	R18ECE21L1	96	95	96	98	98	98	96.8
21	DLD Lab	R18ECE21L2	61	60	61	69	73	69	65.5
22	BS Lab	R18ECE21L3	59	59	60	68	71	69	64.3
23	LT, NM & CV	R18MTH2201	77	76	78	79	63	67	73.3
24	EMTL	R18ECE2201	90	99	79	68	74	69	79.8

25	ADC	R18ECE2202	98	94	78	76	73	76	82.5
26	LDIC	R18ECE2203	80	84	71	82	91	69	79.5
27	ECA	R18ECE2204	90	68	81	63	81	62	74.2
28	ADC Lab	R18ECE22L1	90	83.00	93.00	100.00	100.00	95.00	93.5
29	ICA Lab	R18ECE22L2	59	61	60	57	58	63	59.7
30	ECA Lab	R18ECE22L3	54	54	55	75	73	66	62.8
31	BEFA	R18MBA2201	71	82	62	93	89	71	78.0
32	MPMC	R18ECE3101	81	73	56	67	75	68	70.0
33	DCN	R18INF3103	84	88	83	54	63	72	74.0
34	CS	R18EEE2202	59	58	74	65	77	100	72.2
35	COOS	R18CSE3114	75	56	76	97	69	63	72.7
36	MPMC Lab	R18ECE31L1	97	97	97	97	95	96	96.5
37	DCN Lab	R18INF31L2	61.4	70.4	61.4	56.2	55	55.6	60.0
38	ACS Lab	R18HAS31L1	78.4	73	74.2	72.3	66	66	71.7
39	AWP	R18ECE3201	73	63	65	71	65	0	56.2
40	DSP	R18ECE3202	76	73	54	82	78	73	72.7
41	VLSI Design	R18ECE3203	94	88	63	87	80	78	81.7
42	ESD	R18ECE3221	69	75	78	82	90	55	74.8
43	CE	R18ECE3273	66	74	86	72	100	51	74.8
44	DSP Lab	R18ECE32L1	64.6	64.6	65.2	57.2	56	56	60.6
45	e-CAD Lab	R18ECE32L2	76.00	76.00	76.00	66.40	66.40	71.80	72.1
46	MWE & OC	R18ECE4101	70	73	77	100	69	68	76.2
47	PPLE	R18HAS4101	79	87	66	68	73	84	76.2
48	DIP	R18ECE4131	67	66	84	73	79	84	75.5
49	CMC	R18ECE4141	64	49	75	91	90	88	76.2
50	PMCS	R18ECE4183	57	58	75	67	68	100	70.8
51	MWE & OC Lab	R18ECE41L1	60	61	60	60	69	69	63.2
52	SC	R18ECE4251	61	57	83	70	83	66	70.0
53	RADAR	R18ECE4263	40	100	84	78	99	83	80.7
54	AVE	R18ECE4293	82	71	73	80	69	60	72.5

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY
Department of Electronics and Communication Engineering
PO/PSO Assessment Tools

1. Direct Assessment Method Tools:

S. No.	Direct Assessment Tools and processes	Remarks
1	Course Evaluation	Course evaluation is collected from the faculty at the end of each semester for every course. Mode of evaluation is Internal Theory & Practical Exams, Assignments and Seminars.
2	Oral Exams/Viva Voce	Viva Voce conducted during lab sessions. End semester course viva is also used to Measure the same.
3	External Exam	Conducted by the University / College during each semester for every course.
4	Project Evaluation	Project Evaluation conducted among the students day-to-day evaluation, Internal review and external review.

2. Indirectect Assessment Method Tools:

S. No	Indirect Assessment Method	Frequency	Method description
1	Alumni survey	Once in a year	Alumni Survey conducted about program Satisfaction and college among the students at the end of each academic year from the Alumni students
2	Exit survey	Once in a year	Collect variety of information about program Satisfaction and college from the final year students.
3	Employer feedback	Once in a year	Employer Survey conducted among employers both as formal and informal mode of communication to collect

4	Parents feedback	Once in a year	Collect variety of information about outcome based education (OBE) in teaching and learning process from the students parents
5	Professional Society member Feedback	Once in a year	Professional Society member Survey conducted formal and informal mode of communication to collect variety of information about the graduates' skills, capabilities and opportunities.

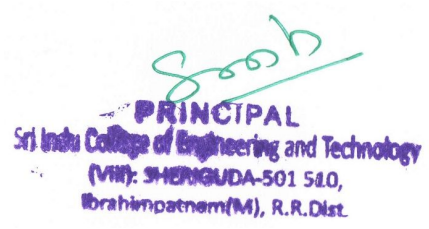
SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2019-23 PO/PSO Direct Attainment

S.NO	Course Title	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	Mathematics – I	R18MTH1101	2.40	2.40	2.89	2.78	-	-	-	-	-	-	-	1.42	2.41	0.96	2.91
2	Applied Physics	R18EAP1101	2.25	2.28	2.28	2.29	1.13	-	0.76	-	-	-	-	1.13	0.38	2.28	1.53
3	PPS	R18CSE1101	1.40	0.93	0.93	0.47	1.40	-	-	-	0.47	-	-	-	0.47	1.40	-
4	Engineering Graphics	R18MED1102	1.08	0.72	1.08	-	1.08	-	-	-	-	-	-	1.08	1.08	1.08	0.72
5	Applied Physics Lab	R18EAP12L1	2.44	2.44	2.44	2.44	1.22	-	0.81	-	-	-	-	1.22	0.41	2.44	1.63
6	PPS LAB	R18CSE12L1	1.10	0.71	0.71	0.36	1.07	-	-	-	0.36	-	-	-	0.36	1.08	-
7	Mathematics – II	R18MTH1201	2.15	2.58	2.58	2.58	1.29	1.29	-	-	-	-	0.43	0.86	2.15	1.29	2.58
8	Chemistry	R18ECH1101	1.86	2.79	2.33	-	-	-	2.79	-	-	-	-	-	1.40	1.40	-
9	BEE	R18EEE1101	2.12	2.12	2.53	2.53	2.51	2.52	2.52	2.51	2.53	2.52	2.09	2.53	2.10	2.10	2.12
10	Engineering Workshop	R18MED1101	1.47	1.48	1.48	0.49	1.48	-	-	1.47	-	-	0.98	-	1.47	-	1.47
11	English	R18HAS1101	-	-	1.98	1.09	1.13	1.90	1.09	1.09	1.09	1.93	-	1.90	-	-	-
12	EC Lab	R18ECH12L1	2.40	2.40	-	-	-	1.42	2.14	-	0.94	-	-	1.42	1.43	2.83	-
13	ELCS Lab	R18HAS12L1	0.84	0.84	0.84	0.84	-	9.69	0.84	0.84	2.11	2.11	0.84	2.11	0.84	0.84	0.84
14	BEE Lab	R18EEE12L2	2.03	2.03	-	-	-	10.57	2.03	-	2.03	-	-	2.03	2.03	2.03	-
15	EDC	R18ECE2101	2.31	2.15	1.19	1.59	2.35	-	0.40	0.32	0.36	0.40	-	-	2.31	1.59	1.16
16	Network Theory	R18EEE2107	1.23	2.46	0.41	1.23	1.23	-	0.41	-	-	-	-	-	-	-	1.23
17	Digital Logic Design	R18ECE2102	2.39	0.80	2.39	1.20	2.39	0.40	0.40	-	0.40	-	-	1.19	2.39	1.99	1.20
18	Signals and Systems	R18ECE2103	1.64	1.96	0.98	0.98	1.96	-	0.33	0.33	0.33	-	0.33	-	1.97	1.31	0.98
19	PTSP	R18ECE2104	2.39	2.39	0.40	0.40	2.39	0.40	0.40	0.40	0.40	0.40	-	-	1.59	1.19	1.19
20	EDC Lab	R18ECE21L1	2.53	2.53	0.42	1.27	2.53	0.42	0.42	0.42	0.42	0.42	-	-	1.69	0.42	2.11
21	DLD Lab	R18ECE21L2	2.11	0.35	1.05	2.11	2.11	-	0.35	0.35	1.05	0.35	-	0.35	2.11	1.05	0.35
22	BS Lab	R18ECE21L3	1.96	1.96	1.64	0.98	1.95	0.33	0.33	0.33	0.33	0.33	-	-	1.96	1.31	1.30
23	LT, NM & CV	R18MTH2201	2.03	1.99	0.82	1.19	1.21	-	-	-	-	-	-	0.40	-	-	-
24	EMTL	R18ECE2201	2.46	2.46	1.23	0.41	2.46	0.41	0.41	0.41	0.41	0.41	-	-	2.46	1.23	2.46
25	ADC	R18ECE2202	1.09	2.18	-	1.09	1.09	-	0.36	-	-	-	-	-	1.09	-	1.09
26	LDIC	R18ECE2203	1.50	1.13	1.50	0.75	2.25	-	-	0.37	0.37	0.37	0.38	0.38	0.75	1.12	1.12
27	ECA	R18ECE2204	1.78	2.67	2.67	2.67	1.33	-	-	0.44	0.44	0.45	0.44	0.45	1.78	0.89	1.33
28	ADC Lab	R18ECE22L1															
29	ICA Lab	R18ECE22L2	1.46	1.47	0.49	1.46	1.46	-	0.48	0.49	1.46	0.49	-	-	1.46	0.49	0.97
30	ECA Lab	R18ECE22L3	1.22	1.23	0.41	1.21	1.23	-	0.42	0.40	1.24	0.39	-	-	1.22	-	0.41
31	BEFA	R18MBA2201	-	0.38	0.38	-	1.13	-	0.38	0.38	0.38	0.38	0.75	0.38	0.38	0.38	0.38
32	MPMC	R18ECE3101	1.78	2.64	1.79	1.34	1.34	0.45	-	0.44	0.44	0.45	0.45	0.45	1.78	0.44	2.68
33	DCN	R18INF3103	2.08	0.83	0.60	0.88	0.90	-	-	0.17	0.17	0.17	0.17	0.17	2.08	0.17	1.33
34	CS	R18EEE2202	2.45	2.65	0.43	0.47	2.74	0.43	-	0.47	0.47	0.47	-	-	1.60	0.45	2.81
35	COOS	R18CSE3114	1.78	1.34	2.23	2.23	2.68	-	0.45	0.45	0.45	-	0.45	-	0.89	1.34	1.34
36	MPMC Lab	R18ECE31L1	2.35	1.41	2.82	2.82	1.41	0.47	-	0.47	0.47	0.47	0.47	0.47	2.82	1.88	1.41
37	DCN Lab	R18INF31L2	2.38	1.95	1.46	-	1.42	0.47	-	0.47	0.47	0.45	-	0.45	2.38	0.95	1.43
38	ACS Lab	R18HAS31L1	-	0.47	-	-	1.42	-	-	0.47	0.48	2.84	0.47	0.47	-	-	0.48
39	AWP	R18ECE3201	1.55	1.17	1.10	1.94	1.82	-	-	0.33	0.33	0.39	-	0.33	1.16	0.39	0.93
40	DSP	R18ECE3202	1.83	1.13	1.87	0.32	1.81	0.30	-	0.30	0.30	0.30	0.30	0.30	1.47	1.15	0.88
41	VLSI Design	R18ECE3203	1.74	1.74	2.61	2.61	1.30	0.43	0.43	0.43	0.43	-	0.43	0.43	1.74	0.87	1.30
42	ESD	R18ECE3221	1.88	2.26	0.36	2.14	2.14	-	0.36	0.38	0.38	1.13	1.05	-	2.24	1.09	2.14
43	CE	R18ECE3273	2.46	1.48	1.45	0.47	1.46	-	-	0.47	0.47	0.47	0.49	-	2.46	1.46	2.93
44	DSP Lab	R18ECE32L1	1.83	1.13	1.87	0.32	1.81	0.30	-	0.30	0.30	0.30	0.30	0.30	1.47	1.15	0.88
45	e-CAD Lab	R18ECE32L2	1.70	0.44	-	1.29	1.25	-	0.44	0.39	0.43	0.43	-	-	2.09	1.26	0.44
46	MWE & OC	R18ECE4101	2.53	1.27	2.11	1.26	1.26	0.42	-	-	0.42	-	-	-	1.69	-	1.27
47	PPLE	R18HAS4101	-	-	-	-	-	2.73	1.36	2.71	1.36	1.35	0.45	0.90	-	-	-
48	DIP	R18ECE4131	1.99	1.99	1.22	1.22	2.46	-	0.41	0.41	0.40	0.41	1.20	0.41	2.42	2.40	2.46
49	CMC	R18ECE4141	1.85	1.93	0.37	2.32	2.29	-	0.39	0.37	0.39	1.08	1.16	-	1.08	1.16	1.16
50	PMCS	R18ECE4183	2.14	1.28	1.28	1.29	0.43	-	-	0.43	0.43	0.42	-	-	1.29	0.43	1.29
51	MWE & OC Lab	R18ECE41L1	1.54	2.27	1.11	1.16	1.92	-	0.39	0.17	0.17	0.31	-	-	0.39	0.39	0.39
52	SC	R18ECE4251	2.18	1.45	1.09	1.45	2.18	-	0.73	0.36	0.36	0.36	0.36	-	2.18	1.09	2.18

53	RADAR	R18ECE4263	-	2.53	0.42	1.27	2.29	-	0.34	0.42	0.42	0.42	0.42	-	1.23	0.39	2.29
54	AVE	R18ECE4293	0.80	0.40	-	0.40	1.20	-	0.40	-	-	-	-	-	0.40	-	1.19
	Curriculam average mapping		**1.89**	**1.68**	**1.40**	**1.37**	**1.68**	**1.77**	**0.74**	**0.57**	**0.63**	**0.70**	**0.63**	**0.87**	**1.55**	**1.19**	**1.43**
	No.of. courses mapped		**48**	**51**	**46**	**45**	**47**	**20**	**32**	**37**	**42**	**33**	**23**	**27**	**48**	**43**	**45**



SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

ALUMNI FEEDBACK FORM

We shall be thankful to and appreciate you, if you can spare some of your valuable time to fill up this feedback form and give us your valuable suggestions for further improvement of the Institute. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of the Institute. Hence your feedback on Institute will help us to improve our approach in Academics.

Name of the Alumni			
Degree [√]	B.Tech ☐	M. Tech ☐	
Branch			
Passing Year			

Professional Details

Organization Name			
Designation		E-Mail:	
Joined Year		Cell No:	

Dear Alumni,

Please give your overall assessment of our Institute academics. Please rate us on following criterion :

1-Unsatisfactory(UN), 2- Satisfactory(S), 3- Fair(F), 4- Good(G), 5- Very Good(VG)

Sr.	Details	VG	G	F	S	UN
1	Environment					
2	Infrastructure & Lab facilities					
3	Faculty					
4	Project Guidance					
5	Advanced Tools & Equipment					
6	Quality of support material					
7	Training & Placement					
8	Library					
9	Alumni Association/ Network of Old Friends					

Please suggest any skills you want our Institute should focus on for grooming of students. All of your suggestions are welcome.

Suggestions:

Relevance of curriculum in your Job:

Need any change in curriculum and syllabus:

Improvements in teaching and learning Process:

Have you learned the basic concept through your Project?

PROGRAM EDUCATIONAL OBJECTIVES

SNO	Statements	3	2	1	COMMENTS
PEO1	**Higher Degrees & Professional Employment**	☐	☐	☐	
PEO2	**Domain Knowledge**	☐	☐	☐	
PEO3	**Engineering Career**	☐	☐	☐	
PEO4	**Lifelong Learning**	☐	☐	☐	

PO	PROGRAM OUTCOMES	3	2	1
1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	☐	☐	☐
2	**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.	☐	☐	☐
3	**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.	☐	☐	☐
4	**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.	☐	☐	☐
5	**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.	☐	☐	☐
6	**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.	☐	☐	☐
7	**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.	☐	☐	☐
8	**Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	☐	☐	☐
9	**Individual and Team Work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.	☐	☐	☐
10	**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.	☐	☐	☐
11	**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 multi disciplinary environments.	☐	☐	☐
12	**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.	☐	☐	☐
PSO1	**Basic Electronic and communications knowledge:** Apply basic knowledge related to electronic circuits, VLSI, communication systems, signal processing and embedded systems to solve engineering/societal problems.	☐	☐	☐
PSO2	**Design Methods:** Design, verify and authenticate electronic functional elements for different applications, with skills to interpret and communicate results.	☐	☐	☐
PSO3	**Experimentation & Communications:** Engineering and management concepts are used to analyze specifications and prototype electronic experiments/projects either independently or in teams.	☐	☐	☐

Any other Comments:

Signature with Date

OUTGOING STUDENTS EXIT SURVEY	
HT. NO:	**NAME:**
DEGREE:	**DATE:**

Questionnaire

Dear Student,

Sri Indu College of Engineering and Technology has developed this survey as an aid to assess the effectiveness of its programmes. The department is deeply committed to ongoing quality improvement, and this survey is an integral part of our assessment process. Please help us in this endeavor by taking a few minutes to complete the survey. Thank you for your cooperation.

Please provide overall experience during your period of study in SICET in the area of academic, infrastructure and support system help us to improve the process and serve the students efficiently.

Academic Experience:

S. No	Parameter	5	4	3	2	1
1	Curriculum and Syllabi of the Course					
2	Extent of Syllabi covered in the class					
3	Course delivery by faculty member in the class					
4	Usage of teaching aids and ICT in the class by the faculty					
5	Fairness in the Assessment Process (Mid Test, Quiz, Assignments, etc.,)					
6	Timely announcement of Examination Results					
7	Opportunities in the department for Research Activities					
8	Opportunity for students to participate in internship, industrial visit and IPT					
9	Opportunities for out of classroom learning (Guest Lecture, Workshop, Seminar, Value added programmes, Conferences and competitions)					
10	Overall Learning experience					

Infrastructure:

S. No	Parameter	5	4	3	2	1
1	Class Room Facilities					
2	Laboratories Facilities					
3	Library Reading Materials and E-Resources					
4	Internet Facility					
5	Learning Management System					
6	Sports Facility					
7	Food Outlets/Canteen					
8	Drinking Water Facility					
9	Wash Room Facilities					
10	Stationery Store/ Photocopying Facility					

Support System:

S. No	Parameter	5	4	3	2	1
1	Support Received from Proctor					
2	Experience with Administrative Staff					
3	Experience with Students Welfare office					
4	Placement and Training Cell					
5	Health Care Facility					
6	Opportunities provided by SICET to inculcate soft skills, life skills and employability skills					

PROGRAM EDUCATIONAL OBJECTIVES

SNO	Statements	3	2	1	COMMENTS
PEO1	**Higher Degrees & Professional Employment**	☐	☐	☐	
PEO2	**Domain Knowledge**	☐	☐	☐	
PEO3	**Engineering Career**	☐	☐	☐	
PEO4	**Lifelong Learning**	☐	☐	☐	

PO	PROGRAM OUTCOMES	3	2	1
1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	☐	☐	☐
2	**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.	☐	☐	☐
3	**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.	☐	☐	☐
4	**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.	☐	☐	☐
5	**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.	☐	☐	☐
6	**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.	☐	☐	☐
7	**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.	☐	☐	☐
8	**Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	☐	☐	☐
9	**Individual and Team Work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.	☐	☐	☐
10	**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.	☐	☐	☐
11	**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 multi disciplinary environments.	☐	☐	☐
12	**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.	☐	☐	☐
PSO1	**Basic Electronic and communications knowledge:** Apply basic knowledge related to electronic circuits, VLSI, communication systems, signal processing and embedded systems to solve engineering/societal problems.	☐	☐	☐
PSO2	**Design Methods:** Design, verify and authenticate electronic functional elements for different applications, with skills to interpret and communicate results.	☐	☐	☐
PSO3	**Experimentation & Communications:** Engineering and management concepts are used to analyze specifications and prototype electronic experiments/projects either independently or in teams.	☐	☐	☐

Any other Comments:

_____

_____

_____

Signature with Date

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

'TRONICS AND COMMUNICATION ENGINEERING

of PO Attainment based on Indirect method

ACADEMIC YEAR 2022-2023

ALUMNI FEEDBACK :: TOTAL -130

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	32	26	26	21	39	2	17	14	8	10	12	19	13	11	24
2	32	30	32	23	42	3	12	16	6	9	14	20	18	19	18
3	40	48	24	23	18	2	16	12	4	13	27	12	25	24	35
Total Score	216	230	162	136	177	14	89	82	32	67	121	95	124	121	165
Weighted Average	2.16	2.3	1.62	1.36	1.77	0.14	0.89	0.82	0.32	0.67	1.21	0.95	1.24	1.21	1.65

EXIT SURVEY :: TOTAL NO.OF STUDENTS-190

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	53	38	50	36	39	4	14	26	6	5	21	19	56	29	57
2	48	82	52	40	51	3	16	25	6	5	28	20	64	45	85
3	54	60	32	38	82	2	17	24	8	6	42	16	27	35	34
Total Score	311	382	250	230	387	16	97	148	42	33	203	107	265	224	329
Weighted Average	1.73	2.12	1.39	1.28	2.15	0.09	0.54	0.82	0.23	0.18	1.13	0.59	1.47	1.24	1.83

EMPLOYER FEEDBACK :: TOTAL -35

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	19	10	14	9	12	2	6	5	2	7	5	2	8	4	7
2	7	15	3	8	10	1	5	7	1	5	4	3	9	9	9
3	4	5	13	10	7	1	2	6	1	3	8	3	10	12	14
Total Score	45	55	59	55	53	7	22	37	7	26	37	17	56	58	67
Weighted Average	1.5	1.83	1.97	1.83	1.77	0.23	0.73	1.23	0.23	0.87	1.23	0.57	1.87	1.93	2.23

PARENTS FEEDBACK :: TOTAL -20

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	9	1	9	6	3	2	2	4	1	5	2	2	8	7	6
2	5	12	5	3	9	1	3	2	1	4	4	2	6	7	2
3	4	7	6	11	8	2	3	5	2	2	4	2	5	6	12
Total Score	31	46	37	45	45	10	17	23	9	19	22	12	35	39	46
Weighted Average	1.55	2.3	1.85	2.25	2.25	0.5	0.85	1.15	0.45	0.95	1.1	0.58	1.75	1.95	2.3

PROFESSIONAL SOCIETY MEMBERS FEEDBACK :: TOTAL -12

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	6	2	5	6	4	1	5	1	2	5	3	6	2	5	7
2	3	4	3	2	7	1	2	7	6	5	4	4	3	4	3
3	2	6	4	4	1	1	5	4	4	3	5	3	7	3	4
Total Score	18	28	23	22	21	6	24	27	26	24	26	23	29	22	25
Weighted Average	1.5	2.33	1.92	1.83	1.75	0.5	2	2.25	2.17	2	2.17	1.92	2.42	1.83	2.08

Summary of attainment based on indirect method

ASSESSMENT MODES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ALUMNI FEEDBACK	2.16	2.3	1.62	1.36	1.77	0.14	0.89	0.82	0.32	0.67	1.21	0.95	1.24	1.21	1.65
EXIT SURVEY	1.73	2.12	1.39	1.28	2.15	0.09	0.54	0.82	0.23	0.18	1.13	0.59	1.47	1.24	1.83
EMPLOYER FEEDBACK	1.50	1.83	1.97	1.83	1.77	0.23	0.73	E	0.23	0.87	1.23	0.57	1.87	1.93	2.23
PARENTS FEEDBACK	1.55	2.30	1.85	2.25	2.25	0.50	0.85	1.15	0.45	0.95	1.10	0.58	1.75	1.95	2.30
PROFESSIONAL SOCIETY MEMBE	1.50	2.33	1.92	1.83	1.75	0.50	2.00	2.25	2.17	2.00	2.17	1.92	2.42	1.83	2.08
AVERAGE	1.69	2.18	1.75	1.71	1.94	0.29	1.00	1.26	0.68	0.93	1.37	0.92	1.75	1.63	2.02

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY
Department of Electronics and Communication Engineering
2019-23 PO/PSO Overall Attainment

3.3.2 b: Indirect PO & PSO Attainment (2019-23):

Summary of attainment based on indirect method															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ASSESSMENT MODES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ALUMNI FEEDBACK	2.12	2.26	2.05	2.09	1.79	1.69	2.26	2.2	2.06	2.06	2.09	1.82	2.19	2.53	2.34
EXIT SURVEY	2.14	2.12	2.17	1.92	2.28	1.99	1.74	2.02	2.24	2.13	2.16	1.72	2.01	2.32	2.19
EMPLOYER FEEDBACK	1.50	1.83	1.97	2.03	1.80	2.23	1.83	2.07	2.37	2.03	1.40	1.77	1.93	2.33	2.23
PARENTS FEEDBACK	1.65	2.30	1.85	2.25	2.25	1.80	1.35	1.90	1.70	1.75	2.50	2.15	1.85	1.95	2.30
PROFESSIONAL SOCIETY MEMBER FEEDBACK	1.58	2.33	1.92	1.83	1.75	1.58	2.00	2.25	2.17	1.83	2.17	1.75	2.42	1.83	1.75
AVERAGE	1.80	2.17	1.99	2.03	1.97	1.86	1.84	2.09	2.11	1.96	2.06	1.84	2.08	2.19	2.16

PO & PSO Overall Attainment (2018-22):

80% of direct attainment and 20% of indirect attainment is considered for calculating the Overall PO/PSO attainment.

PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
2018-22 PO/PSO Direct Attainment	**1.89**	1.68	1.40	1.37	1.68	1.77	0.74	0.57	0.63	0.70	0.63	0.87	1.55	1.19	1.43
80% of Direct Attainment	1.51	1.34	1.12	1.09	1.34	1.41	0.59	0.45	0.51	0.56	0.50	0.70	1.24	0.95	1.14
2018-22 PO/PSO Indirect Attainment	1.69	2.18	1.75	1.71	1.94	0.29	1.00	1.26	0.68	0.93	1.37	0.92	1.75	1.63	2.02
20% of Indirect Attainment	0.34	0.44	0.35	0.34	0.39	0.06	0.20	0.25	0.14	0.19	0.27	0.18	0.35	0.33	0.40
Overall PO/PSO Attainment= 80% of Direct Attainment+ 20% of Indirect Attainment	1.85	1.78	1.47	1.44	1.73	1.47	0.79	0.70	0.64	0.75	0.77	0.88	1.59	1.28	1.55

PRINCIPAL
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(Vill): SHERIGUDA-501 510,
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SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY															
Department of Electronics and Communication Engineering															
2019-23 PO/PSO Target Attainment															
POS/PSOS	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
2019-2023 DIRECT ATTAINMENTS	**1.89**	1.68	1.40	1.37	1.68	1.77	0.74	0.57	0.63	0.70	0.63	0.87	1.55	1.19	1.43
80% OF DIRECT ATTAINMENT	1.51	1.34	1.12	1.09	1.34	1.41	0.59	0.45	0.51	0.56	0.50	0.70	1.24	0.95	1.14
2021-2022 IN DIRECT ATTAINMENTS	1.69	2.18	1.75	1.71	1.94	0.29	1.00	1.26	0.68	0.93	1.37	0.92	1.75	1.63	2.02
20% OF INDIRECT ATTAINMENTS	0.34	0.44	0.35	0.34	0.39	0.06	0.20	0.25	0.14	0.19	0.27	0.18	0.35	0.33	0.40
TOTAL PO ATTAINMENTS(80% OF DIRECT ATTAINMENTS+20% OF INDIRECT ATTAINMENTS	1.85	1.78	1.47	1.44	1.73	1.47	0.79	0.70	0.64	0.75	0.77	0.88	1.59	1.28	1.55
TOTAL PO ATTAINMENT(2018-22)	1.68	1.72	1.48	1.46	1.72	0.69	0.78	0.66	0.58	0.68	0.78	0.82	1.59	1.33	1.53
TOTAL PO ATTAINMENT(2017-21)	1.92	1.96	1.52	1.56	1.94	0.84	0.87	0.79	0.81	0.85	0.9	0.98	1.61	1.45	1.65
TOTAL PO ATTAINMENT(2016-20)	1.97	1.83	1.53	1.50	1.97	0.75	0.92	0.80	0.74	0.77	0.89	0.88	1.66	1.37	1.67
TARGET(2018-2022)	**1.86**	**1.84**	**1.51**	**1.51**	**1.88**	**0.76**	**0.86**	**0.75**	**0.71**	**0.77**	**0.86**	**0.89**	**1.62**	**1.38**	**1.62**
STATUS	**NA**	**NA**	**NA**	**NA**	**NA**	**A**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

COURSE OUTCOMES

I YEAR ECE SEMESTER - I (REGULATION – R18)

ACADEMIC YEAR: 2019 - 2021

Course Code & Name: R18MTH1101 –Mathematics–I

COURSE OUTCOME ATTAINMENT							
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained		
CO1	2.4	59.8	2.9	67	3	2.93	**2.88 (Attained)**
CO2		59.8	2.9	73	3	2.93	
CO3		59.8	2.9	81	3	2.93	
CO4		59.8	2.9	88	3	2.93	
CO5		59.8	2.9	55	2	2.63	
CO6		59.8	2.9	85	3	2.93	

Course Code & Name: R18EAP1101 –AppliedPhysics

COURSE OUTCOME ATTAINMENT							
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.4	49.7	2	76	3	2.3	**2.27 (Not Attained)**
CO2		49.7	2	55	2.5	2.15	
CO3		49.7	2	76	3	2.3	
CO4		49.7	2	70	3	2.3	
CO5		49.7	2	63	3	2.3	
CO6		49.7	2	76	3	2.3	

Course Code & Name: R18CSE1101-Programming forProblemSolving

COURSE OUTCOME ATTAINMENT							
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2	57.3	2.7	74	3	2.79	**2.79 (Attained)**
CO2		57.3	2.7	80	3	2.79	
CO3		57.3	2.7	72	3	2.79	
CO4		57.3	2.7	69	3	2.79	
CO5		57.3	2.7	69	3	2.79	
CO6		57.3	2.7	78	3	2.79	

Course Code & Name: R18MED1102-EngineeringGraphics

COURSE OUTCOME ATTAINMENT							
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.6	49.2	1.9	83	3	2.23	**2.15 (Not Attained)**
CO2		49.2	1.9	99	3	2.23	
CO3		49.2	1.9	67	3	2.23	
CO4		49.2	1.9	44	1.4	1.75	
CO5		49.2	1.9	84	3	2.23	
CO6		49.2	1.9	81	3	2.23	

Course Code & Name: R18EAP12L1 – AppliedPhysicsLab

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	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.5	52.2	2.2	71.6	3	2.44	2.44(Not Attained)
CO2		52.2	2.2	72.2	3	2.44	
CO3		52.2	2.2	71.6	3	2.44	
CO4		52.2	2.2	84.2	3	2.44	
CO5		52.2	2.2	84.2	3	2.44	
CO6		52.2	2.2	84.2	3	2.44	

Course Code & Name:R18CSE12L1 –ProgrammingforProblemSolvingLab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.2	58.8	1.9	70.6	3	**2.23**	2.13(Not Attained)
CO2		58.8	1.9	65.8	2	**1.93**	
CO3		58.8	1.9	60.4	2	**1.93**	
CO4		58.8	1.9	75.4	3	**2.23**	
CO5		58.8	1.9	73	3	**2.23**	
CO6		58.8	1.9	70.6	3	**2.23**	

COURSE OUTCOMES
I YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2019– 2020

Course Code & Name:R18MTH1201-Mathematics– II

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.6	57.7	2.86	79	3	2.58	2.58 Attained)
CO2		57.7	2.86	70	3	2.58	
CO3		57.7	2.86	87	3	2.58	
CO4		57.7	2.86	81	3	2.58	
CO5		57.7	2.86	82	3	2.58	
CO6		57.7	2.86	79	3	2.58	

Course Code & Name: R18ECH1101-Chemistry

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.6	69	2.9	82.2	3	2.93	2.93 (Attained)
CO2		69	2.9	75	3	2.93	
CO3		69	2.9	51.6	1	2.33	
CO4		69	2.9	90.6	3	2.93	
CO5		69	2.9	90.6	3	2.93	
CO6		69	2.9	90.6	3	2.93	

Course Code & Name: R18EEE1101-BasicElectricalEngineering

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall

	Target%	Attained %	Attained level	Attained %	Attained level		Attainment
CO1	2.6	55.55	2.5	75	3	2.65	**2.53 (NOT Attained)**
CO2		55.55	2.5	70	3	2.51	
CO3		55.55	2.5	84	3	2.51	
CO4		55.55	2.5	77	3	2.51	
CO5		55.55	2.5	79	3	2.51	
CO6		55.55	2.5	75	3	2.51	

Course Code & Name:R18MED1101-EngineeringWorkshop

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.5	88	3	73	3	2.95	**2.95(Attained)**
CO2		83	3	73	3	2.95	
CO3		78	3	73	3	2.95	
CO4		67	3	73	3	2.94	
CO5		82	3	73	3	2.95	
CO6		92	3	73	3	2.95	

Course Code & Name:R18HAS1101-English

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2	62.8	2.1	66	3	2.37	**2.27 (Not Attained)**
CO2		62.8	2.1	49	1	1.77	
CO3		62.8	2.1	77	3	2.37	
CO4		62.8	2.1	87	3	2.37	
CO5		62.8	2.1	69	3	2.37	
CO6		62.8	2.1	77	3	2.37	

Course Code & Name: R18ECH12L1-EngineeringChemistryLab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.6	69	2.9	82.2	3	2.93	**2.93 (Attained)**
CO2		69	2.9	75	3	2.93	
CO3		69	2.9	51.6	1	2.33	
CO4		69	2.9	90.6	3	2.93	
CO5		69	2.9	90.6	3	2.93	
CO6		69	2.9	90.6	3	2.93	

Course Code & Name: R18HAS12L1-EnglishLanguageandCommunicationSkillsLab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.2	64	2.4	83	3	2.53	**2.53(Attained)**
CO2		64	2.4	79	3	2.53	
CO3		64	2.4	78	3	2.53	
CO4		64	2.4	87	3	2.53	
CO5		64	2.4	84	3	2.53	
CO6		64	2.4	79	3	2.53	

Course Code & Name: R18EEE12L2-BasicElectricalEngineeringLab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.5	62.00	2.2	73.2	3	**2.44**	**2.4(Not Attained)**
CO2		62.00	2.2	73.2	3	**2.44**	
CO3		62.00	2.2	73.2	3	**2.44**	
CO4		62.00	2.2	73.8	3	**2.44**	
CO5		62.00	2.2	73.8	3	**2.44**	
CO6		62.00	2.2	73.8	3	**2.44**	

COURSE OUTCOMES
II YEAR ECE SEMESTER - I (REGULATION – R18)
ACADEMIC YEAR: 2020 – 2021

Course Name & Code: R18ECE2101-ElectronicDevicesandCircuits

		COURSE OUTCOME ATTAINMENT					
CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.5	52.5	2.2	84	3	2.39	**2.31 (NOT ATTAINED)**
CO2		52.5	2.2	78	3	2.39	
CO3		52.5	2.2	90	3	2.38	
CO4		52.5	2.2	81	3	2.39	
CO5		52.5	2.2	100	3	2.39	
CO6		52.5	2.2	44	1	1.92	

Course Code & Name:R18EEE2107-NetworkTheory

	COURSE OUTCOME ATTAINMENT						
CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.6	52.9	2.3	86	3	2.46	**2.46(NOT ATTAINED)**
CO2		52.9	2.3	77	3	2.46	
CO3		52.9	2.3	75	3	2.46	
CO4		52.9	2.3	79	3	2.46	
CO5		52.9	2.3	60	3	2.45	
CO6		52.9	2.3	88	3	2.46	

Course Code & Name:R18ECE2102-DigitalLogicDesign

	COURSE OUTCOME ATTAINMENT						
CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.1	52.3	2.2	85	3	2.38	**(2.39 NOT ATTAINED**
CO2		52.3	2.2	90	3	2.39	
CO3		52.3	2.2	73	3	2.39	
CO4		52.3	2.2	73	3	2.40	

CO5		52.3	2.2	80	3	2.40	)
CO6		52.3	2.2	71	3	2.39	

Course Code & Name:R18ECE2103-SignalsandSystems

COURSE OUTCOME ATTAINMENT							
CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.2	46.2	1.6	85	3	1.97	**1.92(NOT ATTAINED)**
CO2		46.2	1.6	86	3	1.97	
CO3		46.2	1.6	81	3	1.96	
CO4		46.2	1.6	73	3	1.72	
CO5		46.2	1.6	62	3	1.96	
CO6		46.2	1.6	88	3	1.96	

Course Code & Name:R18ECE2104-ProbabilityTheoryandStochasticProcesses

		COURSE OUTCOME ATTAINMENT					
CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.5	52.3	2.2	90	3	2.39	**2.39(NOT ATTAINED)**
CO2		52.3	2.2	90	3	2.39	
CO3		52.3	2.2	85	3	2.39	
CO4		52.3	2.2	63	3	2.38	
CO5		52.3	2.2	95	3	2.39	
CO6		52.3	2.2	75	3	2.39	

Course Code & Name:R18ECE21L1-ElectronicDevicesandCircuitsLab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.2	64.1	3	96	3	**2.53**	**2.53**
CO2		64.1	3	95	3	**2.53**	
CO3		64.1	3	96	3	**2.53**	
CO4		64.1	3	98	3	**2.53**	**ATTAINED**
CO5		64.1	3	98	3	**2.53**	
CO6		64.1	3	98	3	**2.53**	

Course Code & Name:R18ECE21L2-DigitalLogic DesignLab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1		58.3	1.8	61	3	2.11	

CO2	2.3	58.3	1.8	60	3	2.10	**2.11**
CO3		58.3	1.8	61	3	2.11	**(NOT Attained)**
CO4		58.3	1.8	69	3	2.11	
CO5		58.3	1.8	73	3	2.11	
CO6		58.3	1.8	69	3	2.11	

Course Code & Name:R18ECE21L3-BasicSimulationLab

	COURSE OUTCOME ATTAINMENT						
CO's		**End Exam**		Internal Assessment		CO Attainment	Overall Attainment
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.3	56.3	1.6	59	2.9	1.94	
CO2		56.3	1.6	59	2.9	1.95	**1.96**
CO3		56.3	1.6	60	3	1.97	**(NOT Attained)**
CO4		56.3	1.6	68	3	1.97	
CO5		56.3	1.6	71	3	1.97	
CO6		56.3	1.6	69	3	1.97	

COURSE OUTCOMES
II YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2020 – 2021

Course Code & Name:R18MTH2201-LaplaceTransforms, NumericalMethods&ComplexVariables

COURSE OUTCOME ATTAINMENT							
CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.5	53.06	2	77	3	2.46	**2.42(NOT ATTAINED)**
CO2		53.06	2	76	3	2.46	
CO3		53.06	2	78	3	2.46	
CO4		53.06	2	79	3	2.46	
CO5		53.06	2	59	2	2.22	
CO6		53.06	2	67	3	2.46	

Course Code & Name:R18ECE2201-ElectromagneticTheoryAndTransmissionLines

	COURSE OUTCOME ATTAINMENT						
CO's		**End Exam**		Internal Assessment		CO Attainment	Overall Attainment
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.3	53.46	2.3	90	3	2.46	**2.46**
CO2		53.46	2.3	99	3	2.46	
CO3		53.46	2.3	79	3	2.45	
CO4		53.46	2.3	68	3	2.46	**ATTAINED**
CO5		53.46	2.3	74	3	2.46	
CO6		53.46	2.3	69	3	2.46	

Course Code & Name:R18ECE2202-AnalogandDigitalCommunications

COURSE OUTCOME ATTAINMENT					
CO's		**End Exam**	Internal Assessment	CO Attainment	Overall

	Target%	Attained %	Attained level	Attained %	Attained level		Attainment
CO1	2.2	59.59	1.9	98	3	**2.17**	**2.18** **NOT ATTAINED**
CO2		59.59	1.9	94	3	**2.18**	
CO3		59.59	1.9	78	3	**2.18**	
CO4		59.59	1.9	76	3	**2.17**	
CO5		59.59	1.9	73	3	**2.18**	
CO6		59.59	1.9	76	3	**2.18**	

Course Code & Name:R18ECE2203-Linear andDigitalICApplications

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.4	50.2	2	80	3	2.25	**2.25** **NOT ATTAINED**
CO2		50.2	2	84	3	2.25	
CO3		50.2	2	71	3	2.24	
CO4		50.2	2	82	3	2.25	
CO5		50.2	2	91	3	2.25	
CO6		50.2	2	69	3	2.25	

Course Code & Name:R18ECE2204-ElectronicCircuitAnalysis

COURSE OUTCOME ATTAINMENT

CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.6	56.3	2.6	90	3	2.67	**2.50(NOT ATTAINED)**
CO2		56.3	2.6	68	3	2.67	
CO3		56.3	2.6	81	3	2.67	
CO4		56.3	2.6	63	3	2.67	
CO5		56.3	2.6	81	3	2.67	
CO6		56.3	2.6	62	3	2.67	

Course Code & Name:R18ECE22L1-AnalogandDigitalCommunicationsLab

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.7	49.5	2	90	3	**2.25**	**2.25** **ATTAINED**
CO2		49.5	2	83	3	**2.25**	
CO3		49.5	2	93	3	**2.25**	
CO4		49.5	2	100	3	**2.24**	
CO5		49.5	2	100	3	**2.26**	
CO6		49.5	2	95	3	**2.25**	

Course Code & Name:R18ECE22L2-ICApplicationsLab

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		

CO1	3	69.39	3	89	3	**2.92**	**2.92**
CO2		69.39	3	91	3	**2.95**	
CO3		69.39	3	92	3	**2.95**	
CO4		69.39	3	98	3	**2.87**	**NOT ATTAINED**
CO5		69.39	3	91	3	**2.90**	
CO6		69.39	3	96	3	**2.95**	

Course Code & Name:R18ECE22L3-ElectronicCircuitAnalysisLab

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	1.5	66.12	2.6	54	1.4	**2.28**	**2.46**
CO2		66.12	2.6	54	1.4	**2.28**	
CO3		66.12	2.6	55	1.5	**2.31**	
CO4		66.12	2.6	75	3	**2.67**	
CO5		66.12	2.6	73	3	**2.66**	**ATTAINED**
CO6		66.12	2.6	66	2.6	**2.57**	

COURSE OUTCOMES
III YEAR ECE SEMESTER - I (REGULATION – R18)
ACADEMIC YEAR: 2012 – 2022

Course Code & Name:R18MBA2201-BusinessEconomics&FinancialAnalysis

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.3	59.5	2	71	3	2.26	**2.26(Not ATTAINED)**
CO2		59.5	2	82	3	2.26	
CO3		59.5	2	62	3	2.26	
CO4		59.5	2	93	3	2.26	
CO5		59.5	2	89	3	2.26	
CO6		59.5	2	71	3	2.26	

Course Code & Name:R18ECE3101-Microprocessors&Microcontrollers

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.7	55.91	2.6	81	3	2.68	**2.66(Not Attained)**
CO2		55.91	2.6	73	3	2.68	
CO3		55.91	2.6	56	2.6	2.58	
CO4		55.91	2.6	67	3	2.68	
CO5		55.91	2.6	75	3	2.68	
CO6		55.91	2.6	68	3	2.68	

Course Code & Name:R18INF3103-DataCommunicationsand Networks

COURSE OUTCOME ATTAINMENT

CO's		End Exam	Internal Assessment	CO Attainment	Overall

	Target%	Attained %	Attained level	Attained %	Attained level		Attainment
CO1	2.2	48.5	1.8	84	3	2.12	2.12(NOT ATTAINED)
CO2		48.5	1.8	88	3	2.12	
CO3		48.5	1.8	83	3	2.12	
CO4		48.5	1.8	54	2.4	2.11	
CO5		48.5	1.8	63	3	2.12	
CO6		48.5	1.8	72	3	2.12	

Course Code & Name: R18EEE2202-ControlSystems

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained	Attained %	Attained		
CO1	2.7	58.2	2.8	59	2	2.33	2.61(ATTAINED)
CO2		58.2	2.8	58	2	2.33	
CO3		58.2	2.8	74	3	2.81	
CO4		58.2	2.8	65	3	2.57	
CO5		58.2	2.8	77	3	2.82	
CO6		58.2	2.8	100	3	2.82	

Course Code & Name: R18CSE3114-ComputerOrganization&OperatingSystems

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained		
CO1	2.7	56.32	2.6	75	3	2.67	2.67(NotAttained)
CO2		56.32	2.6	56	3	2.68	
CO3		56.32	2.6	76	3	2.68	
CO4		56.32	2.6	97	3	2.68	
CO5		56.32	2.6	69	3	2.68	
CO6		56.32	2.6	63	3	2.68	

Course Code & Name:R18ECE31L1-Microprocessors&MicrocontrollersLab

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained		
CO1	2.7	68.16	2.8	97	3	**2.82**	2.82 ATTAINED
CO2		68.16	2.8	97	3	**2.82**	
CO3		68.16	2.8	97	3	**2.82**	
CO4		68.16	2.8	97	3	**2.82**	
CO5		68.16	2.8	95	3	**2.82**	
CO6		68.16	2.8	96	3	**2.82**	

Course Code & Name: R18INF31L2-DataCommunicationsandNetworksLab

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.2	79.5	3	61.4	3	**2.96**	2.84(Attained)
CO2		79.5	3	70.4	3	**2.95**	
CO3		79.5	3	61.4	3	**2.96**	
CO4		79.5	3	56.2	2	**2.72**	

CO5		79.5	3	55	2	**2.72**	
CO6		79.5	3	55.6	2	**2.72**	

Course Code & Name:R18HAS31L1-AdvancedCommunicationSkills Lab

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.7	72.2	3	78.4	3	2.96	**2.88(Attained)**
CO2		72.2	3	73	3	2.96	
CO3		72.2	3	74.2	3	2.96	
CO4		72.2	3	72.3	3	2.96	
CO5		72.2	3	66	2	2.71	
CO6		72.2	3	66	2	2.72	

COURSE OUTCOMES
III YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2012– 2022

Course Code & Name: R18ECE3201-AntennasandWavePropagation

COURSE OUTCOME ATTAINMENT

CO's		**End Exam**		**Internal Assessment**		**CO Attainment**	**Overall Attainment**
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1	2.3	51.4	2.1	73	3	2.33	**2.21(NOT ATTAINED)**
CO2		51.4	2.1	63	3	2.33	
CO3		51.4	2.1	65	3	2.33	
CO4		51.4	2.1	71	3	2.33	
CO5		51.4	2.1	65	3	2.32	
CO6		51.4	2.1	0	0	1.62	

Course Code & Name: R18ECE3202-DigitalSignalProcessing

COURSE OUTCOME ATTAINMENT

CO's	University			Internal Assessment		CO Attainment	Overall Attainment
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained**		
CO1		55.7	2.6	76	3	**2.68**	**2.6352**
CO2	3	55.7	2.6	73	3	**2.68**	
CO3		55.7	2.6	54	2	**2.44**	
CO4		55.7	2.6	82	3	**2.68**	
CO5		55.7	2.6	78	3	**2.67**	
CO6		55.7	2.6	73	3	**2.67**	

Course Code & Name:R18ECE3203-VLSIDesign

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	**Attained %**	**Attained level**	**Attained %**	**Attained level**		
CO1		54.6	2.5	94	3	2.61	
CO2		54.6	2.5	88	3	2.61	

CO3	2.7	54.6	2.5	63	3	2.60	**2.61(Not Attained)**
CO4		54.6	2.5	87	3	2.61	
CO5		54.6	2.5	80	3	2.60	
CO6		54.6	2.5	78	3	2.61	

Course Code & Name: R18ECE3221-EmbeddedSystemDesign

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.3	60	2	69	**3**	2.26	**2.22 (Not Attained)**
CO2		60	2	75	**3**	2.26	
CO3		60	2	78	**3**	2.26	
CO4		60	2	82	**3**	2.27	
CO5		60	2	90	**3**	2.27	
CO6		60	2	55	**2**	2.02	

Course Code & Name: R18ECE3273-Consumer Electronics

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.2	63.67	3	66	3	2.95	**2.8907(ATTAINED)**
CO2		63.67	3	74	3	2.95	
CO3		63.67	3	86	3	2.95	
CO4		63.67	3	72	2.4	2.81	
CO5		63.67	3	100	3	2.95	
CO6		63.67	3	51	2.1	2.73	

Course Code & Name: R18ECE32L1-DigitalSignalProcessing Lab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	1.9	55.3	1.5	64.6	3	**1.91**	**1.79 (Not Attained)**
CO2		55.3	1.5	64.6	3	**1.91**	
CO3		55.3	1.5	65.2	3	**1.91**	
CO4		55.3	1.5	57.2	2	**1.67**	
CO5		55.3	1.5	56	2	**1.67**	
CO6		55.3	1.5	56	2	**1.67**	

Course Code & Name:R18ECE32L2-e–CADLab

	COURSE OUTCOME ATTAINMENT						
CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1		64.9	2.5	76.00	3	**2.61**	
CO2		64.9	2.5	76.00	3	**2.61**	

CO3	2.6	64.9	2.5	76.00	3	**2.61**	**2.53(Not Attained)**
CO4		64.9	2.5	66.40	2	**2.37**	
CO5		64.9	2.5	66.40	2	**2.37**	
CO6		64.9	2.5	71.80	3	**2.61**	

COURSE OUTCOMES
IV YEAR ECE SEMESTER - I (REGULATION – R18)
ACADEMIC YEAR: 2022-23

Course Code & Name: R18ECE4101& MicrowaveandOpticalCommunication

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.7	55.84	2.5	70	**3**	**2.60**	**2.59 (Not Attained)**
CO2		55.894	2.5	73	**3**	**2.60**	
CO3		55.84	2.5	77	**3**	**2.60**	
CO4		55.84	2.5	100	**3**	**2.60**	
CO5		55.84	2.5	69	**3**	**2.58**	
CO6		55.84	2.5	68	**3**	**2.55**	

Course Code & Name: R18HAS4101&ProfessionalPractice,Law&Ethics

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.4	55.84	2.5	79	3	2.60	**2.57(ATTAINED)**
CO2		55.84	2.5	87	3	2.60	
CO3		55.84	2.5	66	3	2.60	
CO4		55.84	2.5	68	2.4	2.45	
CO5		55.84	2.5	73	3	2.60	
CO6		55.84	2.5	84	2.8	2.55	

Course Code & Name: R18ECE4131&DigitalImageProcessing

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.6	51.9	2.2	67	3	2.39	**2.39(NOT ATTAINED)**
CO2		51.9	2.2	66	3	2.39	
CO3		51.9	2.2	84	3	2.39	
CO4		51.9	2.2	73	3	2.39	
CO5		51.9	2.2	79	3	2.39	
CO6		51.9	2.2	84	3	2.53	

Course Code & Name: R18ECE4141&Cellular&MobileCommunications

COURSE OUTCOME ATTAINMENT

CO's		End Exam	Internal Assessment	CO Attainment	Overall

	Target%	Attained %	Attained level	Attained %	Attained level		Attainment
CO1	2.4	47.05	1.7	64	3	2.04	(2 Not Attained)
CO2		47.05	1.7	49	1	1.80	
CO3		47.05	1.7	75	3	2.04	
CO4		47.05	1.7	91	3	2.03	
CO5		47.05	1.7	90	3	2.04	
CO6		47.05	1.7	88	3	2.04	

Course Code & Name: R18ECE4183&PMCS

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.6	53.24	2.3	57	2.7	2.46	2.51(NOT ATTAINED)
CO2		53.24	2.3	58	2.8	2.48	
CO3		53.24	2.3	75	3	2.53	
CO4		53.24	2.3	67	3	2.53	
CO5		53.24	2.3	68	3	2.53	
CO6		53.24	2.3	100	3	2.53	

Course Code & Name:R18ECE41L1&Microwave&OpticalCommunicationsLab

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained		
CO1	3	51	2.1	60	3	2.32	2.32 (NOT Attained)
CO2		51	2.1	61	3	2.32	
CO3		51	2.1	60	3	2.31	
CO4		51	2.1	60	3	2.31	
CO5		51	2.1	69	3	2.31	
CO6		51	2.1	69	3	2.31	

COURSE OUTCOMES
IV YEAR ECE SEMESTER - II (REGULATION – R18)
ACADEMIC YEAR: 2022-2023

Course Code & Name: R18ECE4251&SATELLITE COMMUNICATIONS (C421)

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.4	48.9	1.9	61	3	2.18	2.18(NOT ATTAINED)
CO2		48.9	1.9	57	3	2.19	
CO3		48.9	1.9	83	3	2.18	
CO4		48.9	1.9	70	3	2.18	
CO5		48.9	1.9	83	3	2.18	

CO6		48.9	1.9	66	3	2.18	

Course Code & Name: R18ECE4263&RADAR SYSTEMS (C422)

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.4	51.6	2.2	40	1	1.91	**2.31(NOT Attained)**
CO2		51.6	2.2	100	3	2.38	
CO3		51.6	2.2	84	3	2.39	
CO4		51.6	2.2	78	3	2.39	
CO5		51.6	2.2	99	3	2.39	
CO6		51.6	2.2	83	3	2.39	

Course Code & Name: R18ECE4293&Audio &Video Engineering (C423)

COURSE OUTCOME ATTAINMENT

CO's		End Exam		Internal Assessment		CO Attainment	Overall Attainment
	Target%	Attained %	Attained level	Attained %	Attained level		
CO1	2.5	52.6	2.2	82	3	2.39	**2.39(NOT ATTAINED)**
CO2		52.6	2.2	71	3	2.39	
CO3		52.6	2.2	73	3	2.39	
CO4		52.6	2.2	80	3	2.39	
CO5		52.6	2.2	69	3	2.39	
CO6		52.6	2.2	60	3	2.39	

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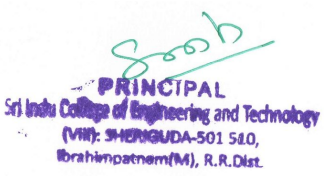
SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

2019-23 CO CIE Attainment

S.NO	Course Title	Course Code	CO1	CO2	CO3	CO4	CO5	CO6	Overall CIE Attainment
1	Mathematics – I	R18MTH1101	3.0	3.0	3.0	3.0	2.0	3.0	2.8
2	Applied Physics	R18EAP1101	3	2.5	3	3	3	3	2.9
3	PPS	R18CSE1101	3	3	3	3	3	3	3.0
4	Engineering Graphics	R18MED1102	3	3	3	1.4	3	3	2.7
5	Applied Physics Lab	R18EAP12L1	3	3	3	3	3	3	3.0
6	PPS LAB	R18CSE12L1	3	2	2	3	3	3	2.7
7	Mathematics – II	R18MTH1201	3	3	3	3	3	3	3.0
8	Chemistry	R18ECH1101	3	3	3	3	3	3	3.0
9	BEE	R18EEE1101	3	3	3	3	3	3	3.0
10	Engineering Workshop	R18MED1101	3	3	3	3	3	3	3.0
11	English	R18HAS1101	3	1	3	3	3	3	2.7
12	EC Lab	R18ECH12L1	3	3	1	3	3	3	2.7
13	ELCS Lab	R18HAS12L1	3	3	3	3	3	3	3.0
14	BEE Lab	R18EEE12L2	3	3	3	3	3	3	3.0
15	EDC	R18ECE2101	3	3	3	3	3	1	2.7
16	Network Theory	R18EEE2107	3	3	3	3	3	3	3.0
17	Digital Logic Design	R18ECE2102	3	3	3	3	3	3	3.0
18	Signals and Systems	R18ECE2103	3	3	3	3	3	3	3.0
19	PTSP	R18ECE2104	3	3	3	3	3	3	3.0
20	EDC Lab	R18ECE21L1	3	3	3	3	3	3	3.0
21	DLD Lab	R18ECE21L2	3	3	3	3	3	3	3.0
22	BS Lab	R18ECE21L3	2.9	2.9	3	3	3	3	3.0
23	LT, NM & CV	R18MTH2201	3	3	3	3	2	3	2.8
24	EMTL	R18ECE2201	3	3	3	3	3	3	3.0
25	ADC	R18ECE2202	3	3	3	3	3	3	3.0
26	LDIC	R18ECE2203	3	3	3	3	3	3	3.0
27	ECA	R18ECE2204	3	3	3	3	3	3	3.0
28	ADC Lab	R18ECE22L1	3	3	3	3	3	3	3.0
29	ICA Lab	R18ECE22L2	2.9	3	3	2.7	2.8	3	2.9
30	ECA Lab	R18ECE22L3	1.4	1.4	1.5	3	3	2.6	2.2
31	BEFA	R18MBA2201	3	3	3	3	3	3	3.0
32	MPMC	R18ECE3101	3	3	2.6	3	3	3	2.9
33	DCN	R18INF3103	3	3	3	3	3	3	3.0
34	CS	R18EEE2202	1	1	3	2	3	3	2.2
35	COOS	R18CSE3114	3	3	3	3	3	3	3.0
36	MPMC Lab	R18ECE31L1	3	3	3	3	3	3	3.0
37	DCN Lab	R18INF31L2	3	3	3	2	2	2	2.5
38	ACS Lab	R18HAS31L1	3	3	3	3	3	3	3.0
39	AWP	R18ECE3201	3	3	3	3	3	0	2.5
40	DSP	R18ECE3202	3	3	2	3	3	3	2.8
41	VLSI Design	R18ECE3203	3	3	3	3	3	3	3.0
42	ESD	R18ECE3221	3	3	3	3	3	2	2.8
43	CE	R18ECE3273	3	3	3	2.4	3	2.1	2.8
44	DSP Lab	R18ECE32L1	3	3	3	2	2	2	2.5
45	e-CAD Lab	R18ECE32L2	3	3	3	2	2	3	2.7
46	MWE & OC	R18ECE4101	3	3	3	3	2.9	2.8	3.0
47	PPLE	R18HAS4101	3	3	3	2.4	3	2.8	2.9
48	DIP	R18ECE4131	3	3	3	3	3	3	3.0
49	CMC	R18ECE4141	3	2	3	3	3	3	2.8
50	PMCS	R18ECE4183	2.7	2.8	3	3	3	3	2.9

51	MWE & OC Lab	R18ECE41L1	3	3	3	3	3	3	3.0
52	SC	R18ECE4251	3	3	3	3	3	3	3.0
53	RADAR	R18ECE4263	1	3	3	3	3	3	2.7
54	AVE	R18ECE4293	3	3	3	3	3	3	3.0



INSTITUTION'S INNOVATION COUNCIL (IICs)

MHRD INSTITUTIONAL INNOVATION COUNCIL

ABOUT IIC

SICET in association with Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Institution's Innovation Council (IIC) in the year May, 2020 to systematically foster the culture of Innovation.

The main objective of IIC at SICET is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.

IIC-Objectives

The main object of IIC at SICET is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.

IIC-Outcomes

- **To create a vibrant local innovation ecosystem.**
- **To support start-up Mechanism for self-employment.**
- **To prepare institute for ATAL Ranking of Institutions on Innovation Achievements (ARIIA) Framework.**
- **To establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas.**
- **To develop better Cognitive Ability for Technology Stu**

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

Members

President of IIC

Name of Head	Email of Head	Mobile Number of Head
Dr. G. Suresh	induprincipal@gmail.com	+91 - 93473 63999
	geosuresh@gmail.com	+91 - 94439 67464

Details of Faculty Members

Position	Name	Email	Mobile	Dept.	Designation	Experience in Years	Qualification
Convener	Dr. H.Joseph Prabhakar Williams	drjoepprabhakar@sriindu.ac.in	+91 - 9486951395	ECE	Professor	22	Doctorate
Innovation Activity Coordinator Startup Activity Coordinator	Easari Parusharamu	parushuece@gmail.com	+91 - 99895 75859	ECE	Assistant Professor	10	Post Graduate
IPR Activity Coordinator	Dr. N. C. Sendhilkumar	sendhilkumarnc@gmail.com	+91 - 94439 68958	ECE	Associate Professor	16	Doctorate
Internship Activity Coordinator	Dr. N. Sadhasivam	sadhasivamn82@gmail.com	+91 - 76391 09780	CSE	Professor	12	Doctorate
Social Media Coordinator	Rakesh Sharan. Jonnakuti	rakeshsharan.j@gmail.com	+91 - 94412 31345	EEE	Assistant Professor	11	Post Graduate
Member	Abdul Khaja Pasha	Khajapasha.401@gmail.com	+91 - 97039 44454	ECE	Assistant Professor	12	Post Graduate

Details of External Members

Sr.No	Name	Email	Mobile	Organization	Qualification	Member	Exp in Years
1	G. Bhaskar	bhaskar.gandhavadi@servicenow.com	+91 - 91001 15060	Service now	Graduate	Expert from near by Industry/Industry association/ Ecosystem Enablers	31
2	Dr. I. Satyanarayana	isnmechprofessor@gmail.com	+91 - 95029 97013	Sri Indu Institute of Engineering and Technology	Doctorate	Incubation Centre	22
3	Muralidhar Reddy Challa	srmurali002@gmail.com	+91 - 97041 01507	Tineshwar Labs Pvt. Ltd	Graduate	Start- up/ Alumni Entrepreneur	2

Student Members Details

S.No	Name	Email	Mobile	Discipline	Year	Semester	Is Member	Role
1	Ajay Rangishetti	ajayrangishetti@gmail.com	+91 - 63093 19123	ECE	4	7	Incubation Center	Members
2	Punyamurtula Sai Lokesh	sl1108sailokesh@gmail.com	+91 - 95020 95899	ECE	4	7	Incubation Center	IPR Coordinator
3	Revanth Uppu	revanthuppu47@gmail.com	+91 - 80746 52126	ECE	4	7	Incubation Center	Social Media Coordinator
4	Nannuri Ruchika Reddy	ruchikareddy03@gmail.com	+91 - 79970	ECE	3	5	Incubation Center	Internship Coordinator

S.No	Name	Email	Mobile	Discipline	Year	Semester	Is Member	Role
			78365					
5	Siva PranamTunguturi	sivapranamtunguturi99@gmail.com	+91 - 96404 08061	ECE	4	7	Incubation Center	Startup Coordinator
6	DeekshithSaganti	deekshithsaganti44@gmail.com	+91 - 99666 91283	EEE	4	7	Incubation Center	Innovation Coordinator

Meetings

ACADEMIC YEAR: 2021-2022				
Documents	Quarter - 1 (July-Sept)	Quarter - 2 (Oct-Dec)	Quarter-3 (Jan- Mar)	Quarter-4 (Apr-June)
Resolution	Download	Download	Download	Download
Minutes of Meeting	Download	Download	Download	Download
Calendar Activities	Download	Download	Download	Download

Meetings

ACADEMIC YEAR: 2020-2021				
Documents	Quarter - 1 (July-Sept)	Quarter - 2 (Oct-Dec)	Quarter-3 (Jan- Mar)	Quarter-4 (Apr-June)
Resolution	Download	Download	Download	Download
Minutes of Meeting	Download	Download	Download	Download
Calendar Activities	Download	Download	Download	Download

Activities

Self Driven Activities

Academic Year 2020-2021				
S.No	**Date**	**Title**	**Description**	**Quarter**
1	30-10-2020	How AI is Paving the Way for Autonomous Car	Innovative ideas and products development for commercialization	II
2	10-08-2020	Self-Estimation Towards Job Scope	Industry Scope, Self-Employment, Idea Communication.	I
3	25-07-2020	Computer Vision and its Applications	Innovative ideas and products development for commercialization	I
4	08-07-2020	Workshop on IPR for students and faculty members	Awareness on IPR activities, patent writing and filing and products developments.	I

Academic Year 2019-2020				
S.No	**Date**	**Title**	**Description**	**Quarter**
1	30-06-2020	86.4k	Time Management, Uniqueness and Innovation in work, Setup the Successful career.	IV
2	26-06-2020	PRIME TIME	Students Promotional Schemes, New path findings	IV
3	26-06-2020	Path to Future	Innovative ideas and products development for commercialization	
4	18 to 28-06-2020	COVID-19 HACKATHOD	Innovative Implementation Of Ideas In Various Emerging Fields	IV
5	21-05-2020	Innovation And Entrepreneurial Needs In	To catalyze and promote development of	IV

Academic Year 2019-2020				
S.No	**Date**	**Title**	**Description**	**Quarter**
		21st Century	**knowledge-based and innovation-driven enterprises and promote employment opportunities amongst youth specially students. To inculcate a culture of innovation driven entrepreneurship.**	
6	**14-05-2020**	**Launch of Institution Innovation Council**	**Aim and Objectives of IIC, Activities and Contests initiated by MIC, Promotional Schemes.**	**IV**

List of Activities Participated

Academic Year 2019-2020					
S.No	**Date**	**Name of the Faculty**	**Title**	**Organized by**	**Sessions**
1	**15-10-2020 to 23-10-2020**	**Dr. G. Suresh**	**KAPILA- Kalam Program for IP Literacy and Awareness**	**MHRD Innovation Cell**	**7**
2	**15-10-2020 to 23-10-2020**	**Dr. N. C. Sendhilkumar**	**KAPILA- Kalam Program for IP Literacy and Awareness**	**MHRD Innovation Cell**	**7**
3	**15-10-2020 to 23-10-2020**	**Dr. S. R. Mukunthan**	**KAPILA- Kalam Program for IP Literacy and Awareness**	**MHRD Innovation Cell**	**7**
4	**28-04-2020 to 22-05-2020**	**Dr. G. Suresh**	**Innovation, IPR, Entrepreneurship and Startup among HEIs**	**IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi**	**17**

Academic Year 2019-2020					
S.No	**Date**	**Name of the Faculty**	**Title**	**Organized by**	**Sessions**
5	**27-06-2020**	**Dr. G. Suresh**	**Leadership Talk with Shri DipendraManocha, (Motivational Speaker)**	**MHRD's Innovation Cell, New Delhi**	**1**

Calendar Plan

Activity	Topics	Date of Event	Quarter
IIC Calendar Activity	**Internship at startup**	**2021-04-01 to 2021-06-30**	**IV**
	Mentorship Session for Innovators (or) Student Entrepreneurs through experts and (or) Innovation Ambassadors/Innovation Agent	**2021-01-01 to 2021-03-31**	**III**
	Orientation session for all students & faculties of Institute by Innovation Ambassador(s).	**2021-01-01 to 2021-03-31**	**III**
	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	**2021-01-01 to 2021-03-31**	**III**
	Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus)	**2021-01-01 to 2021-03-31**	**III**
	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre/ Co- working spaces	**2021-01-01 to 2021-03-31**	**III**
MIC Calendar Activity	**IKS Orientation Session**	**2020-11-02 to 2020-12-31**	**II**
	KAPILA: Kalam Program for IP Literacy and Awareness	**2020-10-01 to 2020-12-31**	**II**

Activity	Topics	Date of Event	Quarter
Self-Driven Activity	How AI is Paving the Way for Autonomous Car	30-10-2020	II
	Self-Estimation Towards Job Scope	10-08-2020	I
	Computer Vision and its Applications	25-07-2020	I
	Workshop on IPR for students and faculty members	08-07-2020	I


Sri Indu
College of Engineering & Technology
UGC Autonomous Institution
NAAC
Sri R.Vishal Rao
Chairman
Sri R.Anup Chakravarthy
Secretary
SRI INDU INSTITUTION
Organizes
WEBINAR SESSION
On
"HOW AI IS PAVING THE WAY FOR AUTONOMOUS CARS"
Resource Person
Dr. Swapnil Saurav,M.S.,Ph.D.
On
30.10.2020
@ 6.30pm
INSTITUTION'S
INNOVATION
COUNCIL


Sri Indu
College of Engineering & Technology
UGC Autonomous Institution
NAAC
Sri R.Vishal Rao
Chairman
Sri R.Anup Chakravarthy
Secretary
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
JCI
Ranipet Power City
In Association
with
JCI RANIPET POWER CITY, Zone XVI, JCI INDIA
Organizes
INSTITUTION'S
INNOVATION
COUNCIL
FREE WEBINAR SESSION
On
"PRIME TIME"
Speakers
JCI Sen P Mohankumar, B.E(ECE),PGDMM, PGDCA, MBA(Project Management)
AGM, BHEL, Ranipet, TN.
JCI Sen J Senthilmurugan, MBA
Director, JB Soft Sys Private Limited, Vellore, TN.
Convener: Prof.K.Ashok Babu, HOD/ECE, SICET
On
26.06.2020
@
10.30am
Coordinator: Dr. N.C. Senthilkumar, Professor, SICET. Cell No. 9443968958
Registration Link:
https://docs.google.com/forms/d/1WuuqBEx5kqlq6AbBCV4s-O7wb8a5bRJiTHoBLdeKYI/edit?usp=sharing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with
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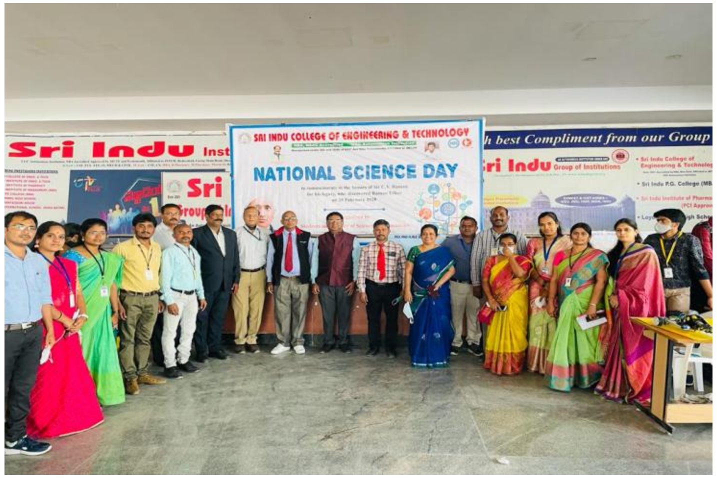
Organizes
INSTITUTION'S
INNOVATION
COUNCIL
FREE WEBINAR SESSION
On
"PATH TO FUTURE"
Speakers
JC. Sen. P. Mohankumar, B.E(ECE),PGDMM, PGDCA, MBA(Project Manager)
AGM, BHEL, Ranipet, TN.
JC. Sen. J. Senthilmurugan, MBA
Proprietor,JB Soft Systems, Vellore, TN.
On
26.06.2020
@
10.30am
Coordinator: Dr. N.C. Senthilkumar, Professor, SICET. Cell No. 9443968958
Registration Link:


Sri Indu College Of Engg. & Tech.
COVID-19 HACKATHON
STREAM – I
STREAM – II
FREE
ENTRY
General Rules and Terms of Participation
Timelines
Organized by
Co-ordinators
Chief Patrons
Sri R. Venkat Rao, Chairman
Sri Indu Group of Institutions
Patrons
Sri R. Anup Chakravarthy, Secretary
Sri Indu Group of Institutions



SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
NATIONAL SCIENCE DAY

Azadi Ka Amrit Mahotsav (India@75 Years)
by
D Praveen Kumar
Scientist-'E'
d.praveenkumar@rcilab.in
Sri Indu
Group of Institution's

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
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Sri. R. VENKAT RAO
Chairman
Sri. R. ANUP CHAKRAVARTHY
Secretary
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
20th TECHNOTSAV 2022
On 14th May 2022
Technical
› Paper Presentation
› Poster Presentation
› Mock Interviews
› Project Expo
› Air Show
Non-Technical
› Art Your Imagination
› Robotic Games
› Combat Battle
› Treasure Hunt
› Selfi Spot
Paper Presentation Topics
› Signal Processing
› IoT in Embedded Systems
› 5g Wireless Technology
› Artificial Intelligence
› Medical Electronics
Rs. 3000/-
Rs. 2000/-
Paper Presentation Registration
Fee Rs. 100/-
Paper Presentation Registration QR Code
Faculty Co-Ordinators: Suresh Ballala - 9030023264
Ram Mohan Rao - 8247477709 | Parusharamu - 9989575859
Student Co-Ordinators: Vijay Mohan - 7993024148
Preethi - 7095522653 | Shiva Naik - 9573356329
Principal - Dr. G. Suresh
H.O.D - Prof. K. Ashok Babu
Event Co-Ord. - Dr. N C Sendhil Kumar


Sri Indu
With best Compliment from our Group of Institutions
PROJECT EXPO - 2021


COLLEGE BUS
Sri Indu


SUDHAKAR
PIPES AND FITTINGS


Azadi Ka Amrit Mahotsav


Sri Indu Institutions
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Sri Indu

IIC RESOURCE PERSONS

Mr.Udayan Bakshi

Associate Director,

Dept. Of Entrepreneurship

SRM University, Andra Pradesh.

Founder & Director: Startup Emporio & Social Impacto, Hyderabad.

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Dr. Sailaja
Officer on Special Duty – Academic Relations, TASK,
Department of ITE & C, Government of Telangana.

DR.T.SENTHIL VADIVEL
PROFESSOR & HEAD,

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CIVIL ENGINEERING, SCHOOL OF ENGINEERING & TECHNOLOGY, ADAMAS UNIVERSITY, KOLKOTTA

DR.P.K.GAYATHRI
SCIENTIST-C
ICMR- NATIONAL INSTITUTE OF EPIDEMIOLOGY, CHENNAI

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Sri R.Venkat Rao
Chairman

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Permanently Affiliated to JNTUH
Estd.2001

NAAC
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Sri R.Anup Chakravarthy
Secretary

Intellectual Property Rights (IPR) Cell

Organizes

PROTECTING YOUR INNOVATIONS THROUGH PATENTS

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

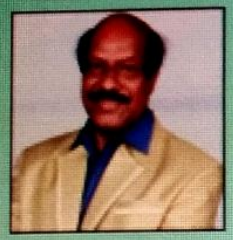
Date: 22.05.2021 @ 2.00pm

Dr. Gayathri P K

Scientist C

ICMR - National Institute of Epidemiology, TNHB, Chennai

Coordinator	Convener	Dr. G. Suresh
Dr. P. Mallesham	Prof.K.Ashok Babu	Principal
Dr. J. Martin Sahayaraj	Prof & Head	
Dr. P. S. Senthil Kumar	SICET	



Sri R.Venkat Rao
Chairman

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Estd.2001

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Sri R.Anup Chakravarthy
Secretary

IIC-MHRD-MIC SPONSORED IMPACT LECTURES

On

"Roadmap to Women's Empowerment through Entrepreneurship & Importance of Patenting Innovations and transformation of Business Operations"

5th October, 2021 @ 11-12.30 pm

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

Convenor	Cell-Coordinators	Principal
Prof.K.Ashok Babu	Dr.H.Joseph Prabhakar Williams Dr.N.Sadhasivam Mr.K.Ram Mohan Rao	Dr.G Suresh


Education based on Stories

The IQAC regularly monitors the teaching -learning process. But it was found that the performance of registering the course and receiving certificate by the students and staffs is lagging. During the academic year 2018-2019, 122 NPTEL certificates were received but in the academic year 2022- 2023 it reduced to 25, similarly from the staffs also. In this regard the IQAC advised all the department HoD's and coordinators to create awareness and importance of the emerging course among the students and staffs and also encourage them to register and advise them to complete the course successfully .

In addition, the IQAC suggests the Management/Principal/HODs and Coordinators

1. To create group among the students and staffs to find solution for the assignments.
2. Timely remainder to the students/staffs for assignment submission and last date for course registration
3. To refund the registration fees for successful completion of the course and rewards to the toppers.

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SWAYAM NPTEL LOCAL CHAPTER

YEAR WISE ENROLLMENT DETAILS

S.No	Year	Subjects Enrollments	Registered For Exam	Certificates Received
1	JULY-DECEMBER 2022	1945	70	56
2	JAN-APRIL 2022	3236	48	41
3	JULY-DECEMBER 2021	467		
4	JAN-APRIL 2021	2512	18	10
5	JULY-DECEMBER 2020	462	2	
6	JAN-APRIL 2020	4600	19	65
7	JULY-DECEMBER 2019	2832	106	
8	JAN-APRIL 2019	4130	174	182
9	JULY-OCT 2018	3130	4	
10	JAN-APRIL 2018	541	1	

SPOC
SWAYAM NPTEL LOCAL CHAPTER

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SWAYAM NPTEL LOCAL CHAPTER

STUDENTS- YEAR WISE ENROLLMENT DETAILS

S.No	Year	Subjects Enrollments	Registered For Exam	Certificates Received
1	JULY-DECEMBER 2022	1494	29	25
2	JAN-APRIL 2022	2880	23	18
3	JULY-DECEMBER 2021	391		
4	JAN-APRIL 2021	2089	15	6
5	JULY-DECEMBER 2020	415	2	
6	JAN-APRIL 2020	4158	15	37
7	JULY-DECEMBER 2019	2279	61	
8	JAN-APRIL 2019	3587	120	122
9	JULY-DECE 2018	438	2	
10	JAN-APRIL 2018	2886	1	

STAFF- YEAR WISE ENROLLMENT DETAILS

S.No	Year	Subjects Enrollments	Registered For Exam	Certificates Received
1	JULY-DECEMBER 2022	451	41	34
2	JAN-APRIL 2022	356	25	23
3	JULY-DECEMBER 2021	77		
4	JAN-APRIL 2021	424	4	4
5	JULY-DECEMBER 2020	47		
6	JAN-APRIL 2020	443	4	28
7	JULY-DECEMBER 2019	554	45	
8	JAN-APRIL 2019	544	55	60
9	JULY-DECE 2018	99	2	
10	JAN-APRIL 2018	244		

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SWAYAM NPTEL LOCAL CHAPTER

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SRI INDU COLLEGE OF ENGG. & TECH.

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

Sheriguda(V), Ibrahimpatnam(M), R. R Dt.

SWAYAM NPTEL LOCAL CHAPTER

BRANCH WISE RECEIVED MOOCs CERTIFICATES

STUDENTS

S.No	Branch	ACADEMIC YEAR					TOTAL
		2018-19	2019-20	2020-21	2021-22	2022-23	
1	ECE	83	16	1	2	1	103
2	CSE	34	13	5	1	5	58
3	IT	3	6				9
4	MECH	2	2				4
5	AI&ML				9	3	12
6	CS				3	9	12
7	IOT				2	7	9
8	CIVIL				1		1
	TOTAL	**122**	**37**	**6**	**18**	**25**	208

STAFF

S.No	Branch	ACADEMIC YEAR					TOTAL
		2018-19	2019-20	2020-21	2021-22	2022-23	
1	ECE	45	18	1	16	21	101
2	CSE	2	4			3	9
3	IT	4	1			3	8
4	MECH	5	5	1	3		14
5	H & S	4		2	4	1	11
6	AIML					2	2
7	IOT					3	3
8	AI&DS					1	1
	TOTAL	**60**	**28**	**4**	**23**	**34**	149

SPOC

SWAYAM NPTEL LOCAL CHAPTER

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BRANCH WISE STAFF RECEIVED MOOCs CERTIFICATES
COURSERA COURSES

S.No	Brach	2020-21	2021-22	TOTAL
1	ECE	686	297	**983**
2	CSE	169	68	**237**
3	IT	22	8	**30**
4	EEE	14	19	**33**
5	MECH	37	4	**41**
6	CIVIL	6		**6**
7	HS	60	65	**125**
	TOTAL	**994**	**461**	**1455**

SPOC

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Sheriguda(V), Ibrahimpatnam(M), R.R Dt.

BRANCH WISE STUDENTS RECEIVED MOOCs CERTIFICATES

COURSERA COURSES

S.No	Brach	2020-21	2021-22	TOTAL
1	ECE	856	458	**1314**
2	CSE	686	490	**1176**
3	IT	116	115	**231**
4	EEE	144	191	**335**
5	MECH	193	203	**396**
6	CIVIL	80	178	**258**
7	1ST YEAR (I)S)	34	536	**570**
	TOTAL	**2109**	**2171**	**4280**

SPOC

PRINCIPAL

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(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

Sri Indu College of Engineering & Technology

Sheriguda (Village), Ibrahimpatnam, Ranga Reddy Dist - 501 510

DEBIT VOUCHER

No.

Date : 17/6/2019

DEBIT NPTEL Sponsorship

Particulars As per Faculty List enclosed

On Account of Refund of NPTEL Sponsorship Amount for the duration from Jan - Jun 2019

Rupees Eleven thousand three hundred P

By Cash / Cheque / D.D. No. Cash Dt. on

Rs. 11300/-

Prepared by:

Checked by

Receiver's Signature

Sheriguda(V), Ibrahimpatnam(M), R. R Dt.

SICET SWAYAM – NPTEL LOCAL CHAPTER (MOOCs)

JANUARY-JUNE 2019

LIST OF FACULTY MEMBERS RECEIVED SPONSORSHIP FOR ATTENDING FDP/STTP

NPTEL NOC

Date: 17-06-2019

S.No	Name	Course Name	Dept.	Registration Fee Rs.	Results	Amount Sponsored	Signature
1	DEEPIKA RATHOD BHUKYA	Introduction to Internet of Things	ECE	550	Gold	550	
2	G.SURESH	Introduction to Internet of Things	ECE	550	Gold	550	
3	LAVANYA NALL	Modern Digital Communication Techniques	ECE	1100	Silver	1100	
4	PRATHYUSHA.V	Modern Digital Communication Techniques	ECE	1100	Silver	1100	
5	SRAVANTHI.G	Modern Digital Communication Techniques	ECE	1100	Silver	1100	
6	PRATHYUSHA.V	Evolution of Air Interface towards 5G	ECE	1100	Silver	1100	
7	K.MAHESHWARI DEVI	Evolution of Air Interface towards 5G	ECE	1200	Silver	1200	
8	LAVANYA NALL	Evolution of Air Interface towards 5G	ECE	1100	Silver	1100	
9	ALAMPALLY SREEDEVI	Data Base Management System	CSE	1100	Silver	1100	
10	LAKKOJU RAVI	Manufacturing Process Technology	ME	1200	Silver	1200	
11	VIJAYA MADHAVI VUPPU	Programming in Java	IT	1200	Silver	1200	

Total. 11,300.00

Sri Indu College of Engineering & Technology

Sheriguda (Village), Ibrahimpatnam, Ranga Reddy Dist - 501 510

DEBIT VOUCHER

Date : 20/01/2020

No.

DEBIT NPTEL Sponsorship

Particulars As per the Faculty List enclosed

On Account of Refund of NPTEL Sponsorship Amount for the duration - Jul-Dec 2019

Rupees Thirteen thousand five hundred only

By Cash / Cheque / D.D. No. Cash Dt. on

Rs. 13,500/-

Prepared by: Checked by Receiver's Signature

SRI INDU COLLEGE OF ENGG. & TECH. Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501 510

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

Sheriguda(V), Ibrahimpatnam(M), R. R Dt.

SICET SWAYAM – NPTEL LOCAL CHAPTER (MOOCs)

JULY-DECEMBER 2019

LIST OF FACULTY MEMBERS RECEIVED SPONSORSHIP FOR ATTENDING FDP/STTP

NPTEL NOC, Date: 20-01-2020

S.no	Name	Course Name	Registration Fee Rs.	Final Score	Certificate Type	Sponsored Amount Rs	Signature
		CSE					
1	RAMMOHAN K	Introduction to Internet of Things - Online	1000	72	Elite	500	
2	MODDU SAMPOORNA	Operating System Fundamentals - Online	1000	61	Elite	500	
3	RAGIPANI SOWMYA	Operating System Fundamentals - Online	1000	67	Elite	500	
4	K.Swetha Rani	Python for Data Science - Online	1000	53	Successfully completed	250	
		ECE					
5	ABDUL KHAJA PASHA	Analog Communication - Online	1000	65	Elite	500	
6	KOTRA RAGHU RAJITHA	Introduction to Wireless and Cellular Communications - Online	1000	63	Elite	500	
7	SRAVANTHI G	Introduction to Wireless and Cellular Communications - Online	1000	67	Elite	500	
8	BOMMALA NEERAJA	Introduction to Wireless and Cellular Communications - Online	1000	61	Elite	500	
9	PRATHYUSHA V	Digital Image Processing - Online	1000	73	Elite	500	

10	PRATHYUSHA V	Introduction to Wireless and Cellular Communications - Online	1000	69	Elite	500	
11	PASULA MAMATHA	Introduction to Wireless and Cellular Communications - Online	1000	60	Elite	500	
12	SARADA R	Introduction to Wireless and Cellular Communications - Online	1000	62	Elite	500	
13	SOMISETTI ASHALATHA	Introduction to Wireless and Cellular Communications - Online	1000	70	Elite	500	
14	SRAVANTHI G	Analog Communication - Online	1000	75	Elite+Silver	750	
15	BOMMALA NEERAJA	Analog Communication - Online	1000	75	Elite+Silver	750	
16	KOTRA RAGHU RAJITHA	Accreditation and Outcome based Learning - Online	1000	80	Elite+Silver	750	
17	K MAHESHWARI DEVI	Digital Image Processing - Online	1000	75	Elite+Silver	750	
18	ABDUL KHAJA PASHA	Introduction to Wireless and Cellular Communications - Online	1000	54	Successfully completed	250	
19	NARSIMULU SRIBACCHA	Microwave Theory and Techniques - Online	1000	48	Successfully completed	250	
20	DENDHI THIRUMAL REDDY	Digital Image Processing - Online	1000	57	Successfully completed	250	
21	PISE PRASHANT SASWATHRAO	Digital Image Processing - Online	1000	58	Successfully completed	250	
22	KRISHNAVENI GODDU	Introduction to Wireless and Cellular Communications - Online	1000	53	Successfully completed	250	
		IT					
23	CH PAVANI	Software Engineering - Online	1000	47	Successfully completed	250	

		ME					
24	PRABHU S KURTAKOTI	Engineering Metrology - Online	1000	74	Elite	500	
25	BIKUMALLA SRUTHI	Design Practice	1000	75	Elite+Silver	750	
26	LAKKOJU RAVI	Fundamentals of Manufacturing Process	1000	76	Elite+Silver	750	
27	T.ARAVIND	Refrigeration and air-conditioning	1000	58	Successfully completed	250	
28	VINOTH BABU	Robotics	1000	71	Elite	500	

S.No	Type of Certificate	Total Faculty Member	Sponsored Amount RS @	TOTAL Amount Rs
1	Silver	6	750	4,500.00
2	Elite	14	500	7,000.00
3	Successfully Completed	8	250	2,000.00
	TOTAL	**28**		**13,500.00**

Verified

SPOC, NPTEL Local chapter.

Approved

PRINCIPAL
Sri Indu College of Engineering and Technology
(VIII): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

Sri Indu College of Engineering & Technology

Sheriguda (Village), Ibrahimpatnam, Ranga Reddy Dist - 501 510

DEBIT VOUCHER

No.

Date : 07/06/2021

DEBIT NPTEL Sponsorship Amount

Particulars As per the Faculty List enclosed

On Account of Refund of NPTEL Sponsorship Amount for the duration from Jan–July 2021

Rupees Seventeen hundred fifty only

By Cash / Cheque / D.D. No. Cash Dt. on

Rs. 1750/-

Prepared by:

Checked by

Receiver's Signature

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

Sheriguda(V), Ibrahimpatnam(M), R. R Dt.

SICET SWAYAM – NPTEL LOCAL CHAPTER (MOOCs)

JAN-JUNE 2021

LIST OF FACULTY MEMBERS RECEIVED SPONSORSHIP FOR ATTENDING FDP/STTP

NPTEL NOC,

Date: 07-06-2021

S.no	Name	Course Name	Department	Registration Fee Rs.	Final Score	Certificate Type	Sponsored Amount Rs	Signature
1	SWATHI SINGANABOINA	Microwave Integrated Circuits	ECE	1000	49	Successfully Completed	250	Swathi
2	P.MANJULA	Graph Theory	HS	1000	78	Silver	750	
3	VUDUTHANENI ANURADHA	Engineering Mathematics-II	HS	1000	78	Silver	750	
			TOTAL				**1750.00** ✓	

Verified.

SPOC, NPTEL Local chapter.

9/6/21

Recommended

09/06/21

PRINCIPAL

Sri Indu College of Engineering and Technology

(Vill): SHERIGUDA-501 510,

Ibrahimpatnam(M), R.R.Dist.

Sri Indu College of Engineering & Technology

Sheriguda (Village), Ibrahimpatnam, Ranga Reddy Dist - 501 510

DEBIT VOUCHER

No.

Date : 20/01/2023

DEBIT NPTEL Sponsorship

Particulars Faculty List - Enclosed

On Account of Refund of NPTEL Sponsorship Amount for the duration - Jul - Dec 2022

Rupees Seventeen thousand seven hundred fifty

By Cash / Cheque / D.D. No. Cash Dt. on

Rs. 17750/-

Prepared by:

Checked by

Receiver's Signature

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution under UGC, New Delhi)
Recognized under 2(f) and 12 (B) of UGC Act 1956
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Sheriguda(V), Ibrahimpatnam(M), R.R Dt.

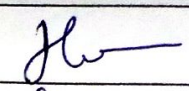
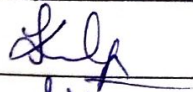
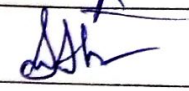
SWAYAM NPTEL LOCAL CHAPTER (MOOCs)

July-December 2022

LIST OF FACULTY MEMBERS RECEIVED SPONSORSHIP FOR ATTENDING FDP/STTP

NPTEL NOC, Date: 20-01-2023

S.No	Name	Course Name	Registration Fee Rs	Final Score	Certificate Type	Sponsored Amount Rs.	Signature
1	Dr.P RAMESH	Cloud Computing	1000	80	Elite+Silver **Topper of 5%**	750	
2	Dr.P RAMESH	Introduction To Industry 4.0 And Industrial Internet Of Things	1000	79	Elite+Silver **Topper of 5%**	750	
3	PRATHYUSHA V	Introduction To Internet Of Things	1000	75	Elite+Silver	750	
4	G SRAVANTHI	Introduction To Internet Of Things	1000	75	Elite+Silver	750	
5	Swathi Singanaboina	Introduction To Internet Of Things	1000	75	Elite+Silver	750	
6	D SANDHYA RANI	The Joy of Computing using Python	1000	75	Elite+Silver	750	
7	Bommala Neeraja	Introduction To Internet Of Things	1000	73	Elite	500	
8	PASULA MAMATHA	Introduction To Internet Of Things	1000	68	Elite	500	
9	GONUGUNTA RAJ KUMAR	Introduction To Internet Of Things	1000	72	Elite	500	
10	POLAGONI SRINIVAS	Introduction To Internet Of Things	1000	65	Elite	500	
11	UDAYASRI PABBU	Introduction To Internet Of Things	1000	73	Elite	500	

12	HEMAVATHI B	Introduction To Internet Of Things	1000	63	Elite	500	
13	KALPANA R	Introduction To Internet Of Things	1000	65	Elite	500	
14	SWETHA P	The Joy of Computing using Python	1000	69	Elite	500	
15	Dr.J Martin Sahayaraj	Introduction To Industry 4.0 And Industrial Internet Of Things	1000	67	Elite	500	
16	Dr.J Martin Sahayaraj	Cloud Computing	1000	58	Successfully completed	250	
17	K SRAVANI	Introduction To Internet Of Things	1000	55	Successfully completed	250	
18	Dr.J Martin Sahayaraj	Cryptography And Network Security	1000	57	Successfully completed	250	
19	Dendhi Thirumal Reddy	Introduction To Internet Of Things	1000	62	Elite	500	
20	Dr. Tamilarasan	Introduction To Industry 4.0 And Industrial Internet Of Things	1000	71	Elite	500	
21	Dr. Tamilarasan	Introduction to Machine Learning	1000	61	Elite	500	
		IT					
22	ARUKONDA VENU	Cloud Computing	1000	63	Elite	500	

23	B.Surekha	Introduction To Internet Of Things	1000	73	Elite	500	
24	M.Sri Vidya	Introduction To Internet Of Things	1000	62	Elite	500	
		CSE					
25	Dr.Kishore Verma S	Introduction to Machine Learning	1000	54	Successfully completed	250	
26	KANUGU RAM MOHAN RAO	Cloud Computing	1000	70	Elite	500	
27	KANUGU RAM MOHAN RAO	Operating System Fundamentals	1000	57	Successfully completed	250	
		HS					
28	K S RANADHEER KUMAR	Developing Soft Skills and Personality	1000	75	Elite+Silver	750	
		AIML					
29	G UMA MAHESWARI	Introduction To Internet Of Things	1000	63	Elite	500	
30	G UMA MAHESWARI	Cloud Computing	1000	60	Elite	500	
		IOT					
31	Dr. Sampath Korra	Programming In Java	1000	71	Elite	500	
32	S NARSIMULU	Introduction To Internet Of Things	1000	65	Elite	500	

33	Mandala Rajkumar	Programming In Java	1000	75	Elite+Silver	750	
		AI&DS					
34	Dr. Adeline Johnsana J S	Introduction to Machine Learning	1000	60	Elite	500	J.S. Adeline

S.No	Type of Certificate	Total Faculty	Sponsored Amount Rs.	Total Rs.
1	Silver	8	750	6,000.00
2	Elite	21	500	10,500.00
3	Successfully Completed	5	250	1,250.00
		34		**17,750.00**

Verified.
SPOC
NPTEL Local chapters

Approved.

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

Sri Indu College of Engineering & Technology

Sheriguda (Village), Ibrahimpatnam, Ranga Reddy Dist - 501 510

DEBIT VOUCHER

No.

Date: 20/06/2022

DEBIT NPTEL Registration Sponsorship

Particulars As per Faculty List- enclosed

On Account of Refund of NPTEL Sponsorship Amount- for the duration from Jan-Apr 2022

Rupees Ten thousand Seven hundred fifty-

By Cash / Cheque / D.D. No. Cash Dt. on

Rs. 10750/-

Prepared by:

Checked by:

Receiver's Signature

6	Protocol	K SRAVANI		64

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

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Sheriguda(V), Ibrahimpatnam(M), R.R Dt.

SICET SWAYAM - NPTEL LOCAL CHAPTER(MOOCs)

For JANUARY-APRIL 2022

LIST OF FACULTY MEMBERS RECEIVED SPONSORSHIP FOR ATTENDING FDP/STTP

NPTEL NOC

Date: 20-06-2022

S.No	Course Name	Name	Registration Fee Rs	Final Score	Certificate Type	Sponsored Amount Rs.	Signature
	ECE						
1	Computer Networks and Internet Protocol	KANUGU RAM MOHAN RAO	1000	55	Successfully completed	250	
2	Introduction To Internet Of Things	P RAMESH	1000	66	Elite	500	
3	Computer Networks and Internet Protocol	PRATHYUSHA V	1000	81	Elite+Silver	750	
4	Computer Networks and Internet Protocol	SANDHYA BOLLA	1000	69	Elite	500	
5	Introduction To Internet Of Things	D SANDHYA RANI	1000	55	Successfully completed	250	
6	Computer Networks and Internet Protocol	K SRAVANI	1000	64	Elite	500	
7	Computer Networks and Internet Protocol	POLAGONI SRINIVAS	1000	65	Elite	500	
8	Computer Networks and Internet Protocol	Swathi Singanaboina	1000	75	Elite+Silver	750	
9	Introduction To Internet Of Things	SWETHA P	1000	57	Successfully completed	250	
10	Computer Networks and Internet Protocol	PASULA MAMATHA	1000	68	Elite	500	

11	Computer Networks and Internet Protocol	UDAYASRI PABBU	1000	52	Successfully completed	250	
12	Computer Architecture	ARUKONDA VENU	1000	55	Successfully completed	250	
13	Introduction To Industry 4.0 And Industrial Internet Of Things	SWETHA P	1000	54	Successfully completed	250	
14	Cloud Computing	P Epsiba	1000	80	Elite+Silver	750	
15	Python for Data Science	P Epsiba	1000	69	Elite	500	
16	Computer Architecture	Prashant Pise	1000	65	Elite	500	
	CYBERSECURITY						
1	The Joy of Computing using Python	K SHWETHA	1000	64	Elite	500	
	CSE AI&ML						
1	Blockchain and its Applications	G UMA MAHESWARI	1000	51	Successfully completed	250	
	MECHANICAL						
1	Engineering/Architectural Graphics - part I - Orthographic projection	LAKKOJU RAVI	1000	69	Elite	500	
2	Engineering/Architectural Graphics - part I - Orthographic projection	KOLLAPURAM VIJAYA KUMAR	1000	61	Elite	500	KVK
3	Engineering/Architectural Graphics Ã¢Â€Â“ part II Ã¢Â€Â“ Isometric and Axonometric Drawings	KOLLAPURAM VIJAYA KUMAR	1000	79	Elite+Silver	750	KVK
	H&S						
1	Soft Skill Development	K S RANADHEER KUMAR	1000	53	Successfully completed	250	
2	Soft Skill Development	S R GOLSMAIR SHALINE	1000	57	Successfully completed	250	
3	Soft Skill Development	Kothagattu Sai kumar	1000	51	Successfully completed	250	
4	Soft Skill Development	NIMMAGADDA SHARMILEE	1000	61	Elite	500	

S.No	Type of Certificate	Total Faculty	Sponsored Amount Rs @	Total
1	Silver	4	750	3000.00
2	Elite	11	500	5,500.00
3	Successfully Completed	9	250	2,250.00
	TOTAL	**24**		**10,750.00**

Verified.

SPOC. NPTEL, Local chapter.

20/6/22

20/6/22

PRINCIPAL
Sri Indu College of Engineering and Technology
(Vill): SHERIGUDA-501 510,
Ibrahimpatnam(M), R.R.Dist.

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Sheriguda(V), Ibrahimpatnam(M), R.R Dt.

LIST OF ACTIVITIES ORGANIZED (2023-2018)

Activities Organized (2022-23):

S.No	Event Name	CELL/ Department	Event Date	Mode	No. of students attended
1	FDP on How to Read and Write a Research Paper	R & D Cell / CSE	14-08-23	OFFLINE	
2	Python Programming with Real time Applications	CSE	22-06-23 & 23-06-23	OFFLINE	450-Students + 65-Faculties
3	AI Club Inauguration	AIML	09-06-2023	OFFLINE	100
4	Environment Day	H&S	05-06-2023	OFFLINE	109
5	Cyber Club Inauguration on National Technology Day	CYBER CLUB	11-05-2023	OFFLINE	80
6	NAVA PRAUDYOGIKI PRADARSHANI-2.0	S-HUB	04-05-2023	OFFLINE	213
7	Technosthav-21	IIC	11-03-2023	OFFLINE	320
8	C Language MCQ QUIZ(ONLINE)	CODEX CODE CLUB	27-02-2023	OFFLINE	372
9	MCQ QUIZ(ONLINE)	CODEX CODE CLUB	24-02-23	OFFLINE	313
10	Reinforcement Learning Through Multiarmed Bandits	Data Science	23-02-2023	ONLINE	165
11	My Story - Motivational Session by Successful Innovators	IIC	22-02-2023	OFFLINE	220
12	Session on Problem Solving and Ideation Workshop	S-HUB	16-02-2023	OFFLINE	65

13	Leadership Talk with Prof. T. G. Sitharam, Hon'ble Chairman, All India Council for Technical Education (AICTE)	IIC	30-01-2023	ONLINE	181-Faculties
14	Brace Yourself	CODEX CODE CLUB	10-01-2023	OFFLINE	100
15	EXCELR Orientation	Data Science	30-12-2022	OFFLINE	179
16	NPTEL AWARENESS PROGRAMME	CSE & Allied Branches	30-12-2022	OFFLINE	195
17	EXCELLENCIA 2022	CSI STUDENT CHAPTER	16-12-2022	OFFLINE	160
18	Being the Hacker presented on cyber tools	CODEX CODE CLUB	16-12-2022	OFFLINE	150
19	Hands on session on Data Visualization with tableau	CODEX CODE CLUB	15-12-2022	OFFLINE	180
20	ADOT (Another Dimension Of Tech) - 2022	IOT	09-12-2022	OFFLINE	180
21	Event on International Day for the Elimination of Violence against Women	ECE	25-11-2022	OFFLINE	100
22	Bright Minds Ideathon'22	CSE	15-11-2022	OFFLINE	68
23	One Day Online Workshop on " Infinite Innovations with IoT"	CSE, IT, IOT & CSIT	12-11-2022	ONLINE	200
24	First year students "Orientation Programme"	H&S	03-11-2022 to 12-11-2022	OFFLINE	1000
25	Workshop on Intellectual Property Rights	CSE	26-10-2022	OFFLINE	206 Students+111-Faculties
26	TechAstra22	DATA SCIENCE	21.10.22	OFFLINE	386

27	Emerging Trends on Industrial IoT and Cyber Security Issues	ECE	23-09-2022 & 24-09-2022	OFFLINE	150
28	Reinforcement Learning in Networking	CSE Allied Branches	21-09-2022	ONLINE	155
29	Coding Contest	CSE & Allied Branches	15-09-2022	OFFLINE	184
30	Essay Writing Competition on Innovation & Entrepreneurship	IIC	25-08-2022	OFFLINE	98
31	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs	IIC	19-08-2022	ONLINE	108
32	NPTEL LOCAL CHAPTER AWARENESS E-WORKSHOP	CSE	30-06-2022	ONLINE	186
33	OUT OF THE BOX THINKING FOR PROBLEM SOLVING	IIC	28.06.2022	ONLINE	165
34	Online Workshop on “Intellectual Property Rights (IPR) & Patents and Design Filing Process	IPR CELL	28.06.2022	ONLINE	125-Students +79 Faculties
35	Seminar on Higher Education opportunities and Process	Training & Placement Cell	28-06-2022	OFFLINE	200
36	Annual Day “Impulse 2022”	IIC	24-06-2022	OFFLINE	2000
37	Placement Achievers Day	Training & Placement Cell	11-06-2022	OFFLINE	750
38	Awareness on Indian Space Program	ECE	08-06-2022	OFFLINE	200

Activities Organized (2021-22):

S.No	Event Name	Department	Event Date
1.	TECHNOSTAV	All departments	14-05-2022
2.	"Drone & RC Plane Design One Day Work Shop" In Collaboration with TLC Group	ECE	30.04.2022
3.	World Earth Day	Civil & Mechanical	22.04.2022
4.	Abhyudaya- A Technical Symposium	CSE Club	12-04-2022
5.	CODE CONTESTACTIVITY by CODE CLUB	AIML	09.04.2022
6.	MSME IDEA HACKATHON 2022	All Departments	24-03-2022
7.	Happiness Day	All Departments	22-03-2022
8.	Celebrating "AZADI KA AMRIT MAHOTSAV" Publicity & Awareness Programme	MSME	22.03.2022
9.	International Happiness Day	All Departments	20.03.2022
10.	International Women's Day Celebrations	All Departments	08-03-2022
11.	Guest Lecture Session on "NATIONAL SCIENCE DAY	Science Club	28-02-2022
12.	WORKSHOP ON ENTERPRENEURSHIP SKILL,ATTITUDE AND BEHAVIOUR DEVELOPMENT	INSTITUTION INNOVATION COUNCIL CALENDAR ACTIVITY	26.02.2022
13.	Guest Lecture Session on "INTRNATIONAL MOTHER LANGUAGE	English Club	21-02-2022

	DAY		
14.	PITCHING EVENT FOR IDEAS SCOUTED AND LINKAGE WITH INNOVATION AMBASSADOR FOR MEMBERSHIP SUPPORT	INSTITUTION'S INNOVATION COUNCIL	12.02.2022
15.	WEBINAR ON ENTREPRENEURIAL SKILL ENHANCEMENT THROUGH COURSEERA	INSTITUTION'S INNOVATION COUNCIL	10.02.2022
16.	WORKSHOP ON IDEATION, PROJECT AND PRODUCT DEVELOPMENT STRATEGY	SELF DRIVEN ACTIVITY	26.01.2022
17.	WEBINAR ON INNOVATION UPSKILLING FOR INDUSTRY AEC 2.0	EEE Department	19-01-2022
18.	Special Lecture on "Successful Journey of Indian Missile Development" Sri. D. Praveen Kumar, Scientist 'E' in DRDO Laboratory named Research Centre, Imarat (RCI), Hyderabad	Department of H&S	31.12.2021
19.	Awareness Programme on IPR under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION (NIPAM) Organized by Ministry of Commerce & Industry and Internal Trade Patent Office, Guindy, Chennai	ECE	30.12.2021
20.	SEMINAR ON CAREER GUIDANCE, Dr. PANKAJ SHARMA	Placement	29.12.2021
21.	Project Expo – 2021 "NAVA PRADYOGIKI PRADARSHAN" Organized by S-Hub	All Departments	20.12.2021 to 26.12.2021
22.	Guest Lecture Session on "NATIONAL MATHEMATICS DAY	Maths Club	22-12-2021
23.	#Limitless with YOGA "AICTE FIT INDIA PROGRAMME"	All Departments	16.12.2021 to 20.12.2021

24.	Enriching Seminar on Opportunity in "DATA and ANALYTICS"	CSE,DS,IoT, AIML,CS,IT & CSIT	16.12.2021
25.	PROBLEM SOLVING AND IDEATION WORKSHOP	Institution's Innovation Council	12.12.2021
26.	WORKSHOP ON ENTRPRENEURSHIP AND INNOVATION AS CAREER OPPORTUNITY	SICET Institutional Innovation Council	27.11.2021
27.	National Constitution day of India (Poster Presentation, Quiz Contest)	ECE & CSE	26.11.2021
28.	My Story –Motivational Session by Successful Entrepreneur/Start-up Founder	Institution's Innovation Council	25.11.2021
29.	International Day for the Elimination of Violence against Women	ECE	25.11.2021
30.	e-national Level Awareness Programme on Entrepreneurship	ECE & AI &ML Departments	18-11-2021
31.	How to Start a Product Development?	Research and Development cell in Association IIC	13.11.2021
32.	How to Write a Good Research Paper?	Research and Development cell in Association IIC	13.11.2021
33.	ROLE OF ARTIFICIAL INTELLIGENCE IN SMART IOT	Department of CSE	06.11.2021
34.	Machine Learning Approaches For Real Time Problems	IT,IOT and AI&ML	30.10.2021
35.	Roadmap to Women's Empowerment through Entrepreneurship and Operations	IIC	19.10.2021
36.	Importance of Patenting your Innovations & Transformation of Business operation	IIC	19.10.2021
37.	Innovation for Startup and B-Plan	IIC	05.10.2021
38.	Creative Ideation, Design Thinking and Prototyping for user centered Innovations	IIC	05.10.2021
39.	How to Become an Good entrepreneur	EDC	24.08.2021

40.	World Entrepreneurship day Celebration	IIC	21.08.2021 to 24.08.2021
41.	Orientation Session on Ideation and Entrepreneurship Development	IA-IIC	06.08.2021
42.	Orientation Session on Design Thinking Skill for Innovation	IIC	14.07.2021
43.	To create an awareness about Angel Investment/ VC funding opportunities for early stage Entrepreneurs	IPR Cell	05.07.2021
44.	Building an Innovation/Product fit for Market	IPR Cell	30.06.2021
45.	Building Gap between Academics and Industry by understanding Hybrid Cloud in Real World	CSE	29.06.2021
46.	How to Plan for Start-up and Legal & Ethical Steps	IPR Cell	29.06.2021
47.	Webinar on UX Design	EDC	22.06.2021
48.	Wireless Power Transfer (WPT) technology is developing rapidly in Electrical Vehicle applications	EEE	23.06.2021
49.	Workshop on Drone Development	S-Hub	21.06.2021
50.	International Yoga Day	NSS	21.06.2021

Activities Organized (2020-21):

S.no	Event Name	Department	Event Date
1	Career Guidance for Electrical Engineers	**EDC**	**26.05.2021**
2	Protecting your Innovations Through Patents	**IPR**	**22.05.2021**
3	Problem Solving Workshop On 21st Century Skillset	EDC	18.05.2021
4	Iris Dataset using KNN Algorithm	ECE	08.05.2021
5	One Week Training Program on Skill Development on JAVA	S-HUB & P-HUB	24.04.2021 to 30.04.2021
6	Guest Lecture on Segmentation trees	CSE & IT	24.04.2021
7	How to Start a Career in Machine learning and Artificial Intelligence	R&D Cell	09.03.2021
	Webinar on Artificial Intelligence and the Futur 4.03.2021 by CSK VARMA	CSE/ IT/AI&ML, DS, CSIT,IOT,CS	04-03-2021
9	Quiz contest on" BUSINESS COMMUNICATION"	EDC	25.02.2021
10	BYJU'S awareness programme for III B.Tech 2018-2022	All Departments	25.2.2022
11	Orientation Program On Social Entrepreneurship And Basic Business Plan	SICET IIC	25.02.2021
12	Training Session On 100 Shortcuts In Aptitude	TPC	19.02.2021
13	Intellectual Property Rights and IP management for start-up	IPR CELL	16.02.2021
14	Startup Business Idea Development For	EDC	10.02.2021

	Innovation & Entrepreneurship		
15	Development Of Entrepreneurship & Innovation Skills	Incubation Cell	30.01.2021
16	Workshop on Prototype/ Process Design and Development- Prototyping	IIC	27.01.2021
17	Innovative Teaching Strategies	ECE	25.09.2020
18	Machine Learning and Python	TASK	27.08.2020
19	Think Big	ECE	22.08.2020
20	Interview skills	ECE	21.08.2020
21	Personal Grooming	ECE	20.08.2020
22	Relationship Management	ECE	19.08.2020
23	Internship opportunity in Electrical field	Princeton Smart Engineer	18.08.2020
24	Decision Making	ECE	18.08.2020
25	Time and Priority Management	ECE	17.08.2020
26	Employability Skills	Mahindra Pride Class room	17.08.2020 & 25.08.2020
27	IIT Roorkee& Wiley- Post Graduate Certification in AI for BFSI	Miles Education	14.08.2020
28	Core jobs in various disciplines of Engineering	HIEE	12.08.2020
29	Mentorship on Placement awareness and Readiness	ECE	12.08.2020
30	Self-Estimation towards Job Scope	ECE	10.08.2020
31	Expectations of the Business Process Management (BPM) Industry Post Covid-19	TASK	06.08.2020
32	Python Programming for Data Science & Machine Learning	30DigiTMG	03.08.2020 to 07.08.2020

33	Evolving Trends during & Post Covid in Talent Acquisition	WIPRO	01.08.2020
34	Free Webinar on Cyber Security	Soebit Cyber security	01.08.2020
35	Block Chain Training Program	TASK	30.07.2020 & 31.07.2020
36	Computer Vision and Its Applications	ECE	25.07.2020
37	Think Different	ECE	07.07.2020
38	86.4k	ECE	30.06.2020
39	Prime Time	ECE	26.06.2020
40	Covid-19 Hackathon	ECE	08.06.2020to 28.08.2020

Activities Organized (2019-20):

S.No	Event Name	Department	Event Date
1	Deep learning for Radar Imaging	ECE	30-05-2020
2	Students Development Programme on Tunnel Technology	CIVIL	29-05-2020
3	Face Mask Detector with open CV, Tensor Flow and Deep Learning	IT	27-05-2020
4	How to Become A Software Engineer in IT Industry	ECE	26-05-2020
5	Transformation in Crisis	EEE	25-05-2020
6	Recent Trends in Electrical Engineering and Renewable Energy Sources	EEE	23-05-2020
7	Skill Development Programme on “MATLAB PROGRAMMING”	EEE	23-05-2020
8	Skill Development Programme on “PYTHON PROGRAMMING”	ECE	21-05-2020
9	Real Time Implementation of AI Incorporated With Image Segmentation And Retrieval Process	ECE	21-05-2020
10	Functional Graded Metal Matrix Composites for	MECH	21-05-2020

	Engineering Applications		
11	Advanced Power Technologies	MECH	20-05-2020 & 21-05-2020
12	FDP on SOLAR ENERGY	CIVIL	19-05-2020
13	Introduction to IOT and its Applications	ECE	18-05-2020
14	Faculty Awareness Program on Accreditation and Outcome Based Education	IT	18-05-2020
15	Cyber Security	CSE	16-05-2020
16	Digital Productivity	CSE	15-05-2020
17	Two Day International Conference on "Artificial Intelligence and Machine Learning"	All Departments	12-03-2020 & 13-03-2020
18	19th Technosthv	All Departments	07-03-2020
19	Innovation And Entrepreneurial Needs In 21st Century	MBA	23-01-2020
20	Faculty Development Program (FDP) on Motivational lecture	All Departments	17-10-2019
21	Guest Lecture, Emeritus Scientist , DRDO, Min. of Defense, Hyderabad	ECE	21.09.2019
22	Seminar on "Research & Development in Electronics"	ECE	07-09-2019
23	Orientation Program	All Departments	10-08-2019
24	5 Day Training Program on Oracle and Java Fundamentals	CSE	10-06-2019 to 14-06-2019

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Activities Organized (2018-19):

S.No	Event Name	Department	Event Date
1	TECHNOTSAV 2K18	All Depts.	23-05-2019
2	ADVANCED JAVA	CSE	09-1-2019
3	A Seminar on Recent Innovations in Cognitive Radio and Software Defined Radio	ECE	15-12-2018
4	Workshop on Robotic Process Automation. (RPA)	ECE	05-12-2018
5	Seminar on Cloud Computing	IT	28-09-2018
6	A 3 day Workshop on"JDBC and JDBC driver types"	IT	19-09-2018
7	Catia-v5	Mech	13-09-2018
8	A 3 day Workshop on IOT	ECE	11-9-2018
9	BIG DATA ANALYTICS	CSE	10-9-2018
10	ADVANCED DATA STRUCTURES	CSE	21-08-2018
11	RTL Design and Functional Verification	ECE	11-08-2018
12	Soft Skills development	ECE	26-07-2018
13	Speech Processing	ECE	07-07-2018
14	One day seminar on "Recent Trends in Data Mining"	IT	16-08-2018
15	A Seminar on "Green IT"	IT	24-08-2018
16	Robotic Automation	ECE	24-08-2018
17	Linear Discriminate Analysis and Wavelets MRA	ECE	17-07-2018
18	MATLAB Programming Techniques	ECE	19/07/18 & 20/07/18
19	Solar roof top	Mech	9/7/2018
20	MIMO OFDM Wireless communication	ECE	08/07/2018

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For enhancing the quality of the students, the IQAC instructs the placement cell and all the department HoD's

1. To increase the number of skill development programs for placing the students in core companies.
2. To give ideas and awareness to the students for higher studies in NIT's and IIT's and other reputed institution
3. Identify the possibilities and facilities to place the students in government sector, however no students were placed in government sectors in the past five years.
4. Give awareness about various scholarships and schemes available in the state and central Government.

Following Capacity development and skills enhancement activities are organized for improving students capability

Program Name/year	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019
Soft Skills	6	5	7	5	7
Language and communication skills	4	4	4	4	4
Life skills	8	8	8	8	8
Awareness of trends in technology	4	4	3	7	5
Total	22	21	22	24	22

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Year	2022-23	2021-22	2020-21	2019-20	2018-19
Placement	634	1171	843	461	450
Higher education	113	67	98	45	113

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Students qualifying in state/national/international level examinations out of the graduated students during the last five years

Year/exam	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019
DULINGO	7		83	26	11
SLET		6			
GATE		4		2	
GMAT					
CAT		70			
GRE	67		187	25	15
JAM		166			
IELTS	10		86	44	41
TOEFL	11	78	32	5	2
PGECET			6		30
Civil Services		23			
PTE			4	2	4
State government examinations					
Others					
Total	95	347	398	104	103

Percentage of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

Number of students benefited by government scheme and amount -2022-2023		
Name of Schemes	Number of students	Amount
North -South Fellowship	4	100000
Aicte-Pragathi Scholarship for Girl Students	28	980000
Central Sector Scheme of Scholarship for College and University Students	27	945000
Prime Ministers Scholarship Scheme for Central Armed Police Forces and Assam Rifles	7	245000
Merit -Cum-Means Scholarship for Professional and Technical Courses Cs	2	70000

Number of students benefited by government scheme and amount -2021-2022		
Name of Schemes	Number of students	Amount
TS GOVT SCHOLARSHIPS	853	50072000
SICET(D4)	144	3941500
AICTE-Pragathi Scholarship for Girl Students	6	210000
Central Sector Scheme of Scholarship for College and University Students	72	2520000
Prime Ministers Scholarship Scheme for Central Armed Police Forces and Assam Rifles	7	245000
Merit -Cum-Means Scholarship for Professional and Technical Courses CS	2	70000
Financial Assistance for Education to the wards ff BEEDI/CINE/IOMC/LSDM-Post Matric	4	140000

Number of students benefited by government scheme and amount -2020-2021		
Name of Schemes	Number of students	Amount
TS Govt Scholarships	2063	101504000
SICET(D4)	92	840000
AICTE-Pragathi Scholarship for Girl Students	6	210000
Central Sector Scheme of Scholarship for College and University Students	72	2520000
Prime Ministers Scholarship Scheme for Central Armed Police Forces and Assam Rifles	86	3010000
Merit -Cum-Means Scholarship for Professional And Technical Courses CS	4	140000

Name of Schemes	2019-2020		2019-2018	
	Number of students	Amount	Number of students	Amount
TS Govt Scholarships	2225	155461000	2230	103337600
SICET(D4)	76	3286000	81	1529000
N.Govt Scholarships	86	8610500		

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