

Outcome Based Education (OBE) System is implemented through RWork (ERP) software

The process is explained using a course 'Electro-Magnetic Engineering and Radiating System' (ET311-18) of 'UG in Electronics and Telecommunication Engineering' Program.

Step 1: PEOs, POs and PSOs are defined for each Academic Year

The screenshot shows the RWork ERP interface for configuring PEOs, POs, and PSOs. The 'Academic Year' is set to 2018-19 and the 'Program' is 'UNDER GRADUATE IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING[1ET1]'. The 'PEOs Information' table lists four objectives, and the 'POs Information' table lists two outcomes.

Sr. No.	PEO No.	PEO Statements	Approved In	Action
1	PEO1	FUNCTION SUCCESSFULLY IN A PROFESSIONAL ENVIRONMENT USING THE TECHNICAL EXPERTISE IN THEIR CAREER FOR CONTEMPORARY PROBLEM SOLVING IN THE FIELD OF ELECTRONICS, COMMUNICATION ENGINEERING AND ALLIED BRANCHES.	BOARD OF GOVERNANCE : 25-03-2018	Update
2	PEO2	RESPOND TO THE GROWING AND CHANGING NEEDS OF SOCIETY THROUGH LIFELONG LEARNING TO EVOLVE INNOVATIVE SOLUTIONS.	BOARD OF GOVERNANCE : 25-03-2018	Update
3	PEO3	DEMONSTRATE LEADERSHIP, COMMITMENT AND MAINTAIN ETHICS IN THEIR CAREER.	BOARD OF GOVERNANCE : 25-03-2018	Update
4	PEO4	DEMONSTRATE EFFECTIVE COMMUNICATION SKILLS AND THE ABILITY TO WORK EFFICIENTLY AT INDIVIDUAL LEVEL AND AS PART OF A TEAM.	BOARD OF GOVERNANCE : 25-03-2018	Update

Sr. No.	PO No.	PO Statements	Approved In	Action
1	PO1	APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS, AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.	BOARD OF GOVERNANCE : 25-03-2018	Update
2	PO2	IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYZE COMPLEX ENGINEERING PROBLEMS REACHING SUBSTANTIATED CONCLUSIONS USING FIRST PRINCIPLES OF MATHEMATICS, NATURAL SCIENCES, AND ENGINEERING SCIENCES.	BOARD OF GOVERNANCE : 25-03-2018	Update

Program Outcomes (POs) Information Download Report

Sr. No.	PO No.	PO Statements	Approved In	Action
1	PO1	APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS, AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.	BOARD OF GOVERNANCE : 25-03-2018	Update
2	PO2	IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYZE COMPLEX ENGINEERING PROBLEMS REACHING SUBSTANTIATED CONCLUSIONS USING FIRST PRINCIPLES OF MATHEMATICS, NATURAL SCIENCES, AND ENGINEERING SCIENCES.	BOARD OF GOVERNANCE : 25-03-2018	Update
3	PO3	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
4	PO4	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
5	PO5	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
6	PO6	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
7	PO7	UNDERSTAND THE IMPACT OF THE PROFESSIONAL ENGINEERING SOLUTIONS IN SOCIETAL AND ENVIRONMENTAL CONTEXTS, AND DEMONSTRATE THE KNOWLEDGE OF, AND NEED FOR SUSTAINABLE DEVELOPMENT.	BOARD OF GOVERNANCE : 25-03-2018	Update
8	PO8	APPLY ETHICAL PRINCIPLES AND COMMIT TO PROFESSIONAL ETHICS AND RESPONSIBILITIES AND NORMS OF THE ENGINEERING PRACTICE.	BOARD OF GOVERNANCE : 25-03-2018	Update
9	PO9	FUNCTION EFFECTIVELY AS AN INDIVIDUAL, AND AS A MEMBER OR LEADER IN DIVERSE TEAMS, AND IN MULTIDISCIPLINARY SETTINGS.	BOARD OF GOVERNANCE : 25-03-2018	Update
10	PO10	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
11	PO11	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
12	PO12	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.	BOARD OF GOVERNANCE : 25-03-2018	Update

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5	POS	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
6	PO6	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
7	PO7	UNDERSTAND THE IMPACT OF THE PROFESSIONAL ENGINEERING SOLUTIONS IN SOCIETAL AND ENVIRONMENTAL CONTEXTS, AND DEMONSTRATE THE KNOWLEDGE OF, AND NEED FOR SUSTAINABLE DEVELOPMENT.	BOARD OF GOVERNANCE : 25-03-2018	Update
8	PO8	APPLY ETHICAL PRINCIPLES AND COMMIT TO PROFESSIONAL ETHICS AND RESPONSIBILITIES AND NORMS OF THE ENGINEERING PRACTICE.	BOARD OF GOVERNANCE : 25-03-2018	Update
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10	PO10	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
11	PO11	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.	BOARD OF GOVERNANCE : 25-03-2018	Update
12	PO12	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.	BOARD OF GOVERNANCE : 25-03-2018	Update

Program Specific Outcomes (PSOs) Information Download Report

Sr. No.	PSO No.	PSO Statements	Approved In	Action
1	PSO1	DESIGN, DEVELOP AND DEMONSTRATE EXPERIMENTS, ANALYZE & INTERPRET DATA IN THE AREAS OF ANALOG & DIGITAL DESIGN, COMMUNICATION SYSTEMS AND ALLIED BRANCHES.	BOARD OF GOVERNANCE : 25-03-2018	Update
2	PSO2	APPLY KNOWLEDGE OF ELECTRONICS & TELECOMMUNICATION ENGINEERING TO MEET THE DESIRED NEEDS WITHIN REALISTIC CONSTRAINTS VIZ. ECONOMIC, ENVIRONMENTAL, SOCIAL & ETHICAL.	BOARD OF GOVERNANCE : 25-03-2018	Update
3	PSO3	USE THE TECHNIQUES, SKILLS, AND MODERN ENGINEERING TOOLS NECESSARY FOR ELECTRONICS & TELECOMMUNICATION ENGINEERING.	BOARD OF GOVERNANCE : 25-03-2018	Update

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Step 2: COs are defined for a course

The screenshot shows the 'Course Details' page in RWork. The 'View/Update Course Details' section is active, with tabs for 'Course Information', 'Syllabus', 'Course CO Information', and 'Course Tool Information'. The 'Course CO Information' tab is selected, displaying a table of CO Statements. The table has columns for Sr. No., CO Code, CO Statements, Bloom's Level, and Action. A 'Download Report' button is visible at the bottom of the table.

Sr. No.	CO Code	CO Statements	Bloom's Level	Action
1	ET311-18.1	UTILIZE THE MATHEMATICAL FUNDAMENTALS WHICH ARE REQUIRED TO DERIVE BASICS OF ELECTROMAGNETIC FIELD.	BL3 APPLY	Edit
2	ET311-18.2	INTERPRET AND FORMULATE THE CONCEPTS OF ELECTROSTATIC FIELD.	BL4 ANALYZE	Edit
3	ET311-18.3	SOLVE NUMERICAL ON ELECTROSTATIC FIELD.	BL3 APPLY	Edit
4	ET311-18.4	EXAMINE VARIOUS LAWS OF MAGNETO STATIC FIELD.	BL4 ANALYZE	Edit
5	ET311-18.5	SUMMARIES MAXWELL'S EQUATION TO INTERPRET WAVE PROPAGATION.	BL5 EVALUATE	Edit
6	ET311-18.6	SELECT, DESIGN AND SIMULATE AN ANTENNA FOR SPECIFIC APPLICATION.	BL6 CREATE	Edit

Step 3: CO-PO mapping index is prepared

The screenshot shows the 'Course - PO Mapping Index' page in RWork. The 'CO-PO Matrix' section displays a table with columns for Sr. No., CO Code, PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PS01, PS02, and PS03. The 'Level of Co-relation' section shows 'No Co-relation: 0', 'Low Co-relation: 1', 'Medium Co-relation: 2', and 'High Co-relation: 3'. The 'Course PO Matrix' section displays a table with columns for Sr. No., Course Code, Course Name, PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PS01, PS02, and PS03. An 'Update' button is visible at the bottom of the Course PO Matrix table.

Sr. No.	CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03
1	ET311-18.1	3	3	3	3	1	2	1	1	2	1	2	2	3	3	3
2	ET311-18.2	2	2	3	3	2	1	1	NA	1	1	1	1	3	3	3
3	ET311-18.3	3	2	2	3	3	2	2	1	1	1	1	2	3	3	3
4	ET311-18.4	2	2	1	2	1	1	1	NA	2	1	2	1	3	3	3
5	ET311-18.5	1	1	1	2	1	1	1	NA	1	1	1	2	3	3	3
6	ET311-18.6	1	3	3	3	3	2	1	1	2	1	3	3	3	3	3

Sr. No.	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03
1	ET311-18	ELECTRO MAGNETIC ENGG. & RADIATING SYSTEM	2	2	2	3	2	2	1	1	2	1	2	2	3	3	3

Step 4: Tools (Internal and External) are defined for CO Attainment

The screenshot shows the 'Course Details' page in RWork. The 'Course Tool Information' tab is active, displaying a table of assigned tools for seven different courses. Each course has a list of tools and an 'Unfreeze' button.

Sr. No.	Course Code	Course Name	Assigned Tools	Action
1	ET311-18	ELECTRO MAGNETIC ENGG. & RADIATING SYSTEM	ESE, ISE-1, OBT-1, THT-1, ISE-2, OBT-2, THT-2, ISE-3, OBT-3, THT-3, ISE, UT-1, UT-2, UT-3, ASSIGNMENT, ICA, FISE-1, FISE-2, FISE-3, TUTORIAL, PPPE, LAB BOOK, LAB TEST 1, ICA-D, LAB TEST 2, LAB TEST	Unfreeze
2	ET312-18	PRINCIPLES OF DIGITAL COMMUNICATION	ESE, ISE-1, OBT-1, THT-1, ISE-2, OBT-2, THT-2, ISE-3, OBT-3, THT-3, ISE, UT-1, UT-2, UT-3, ASSIGNMENT, PPPE, LAB BOOK, LAB TEST 1, POE, ICA, FISE-1, FISE-2, FISE-3, ICA-D, LAB TEST 2, LAB TEST	Unfreeze
3	ET313-18	SOFTWARE ENGINEERING & PROJECT MANAGEMENT SYSTEM	ESE, ISE-1, OBT-1, THT-1, FISE-1, ISE-2, OBT-2, THT-2, FISE-3, OBT-3, THT-3, FISE-3, ISE, UT-1, UT-2, UT-3, ASSIGNMENT, PPPE	Unfreeze
4	ET314-18	DIGITAL SIGNAL PROCESSING	ESE, ISE-1, OBT-1, THT-1, FISE-1, ISE-2, OBT-2, THT-2, FISE-3, OBT-3, THT-3, FISE-3, ISE, UT-1, UT-2, UT-3, ASSIGNMENT, PPPE, LAB BOOK, LAB TEST 1, POE, ICA-D, ICA, LAB TEST 2, LAB TEST	Unfreeze
5	ET315-18	MICROCONTROLLER - I (8051)	ESE, ISE-1, OBT-1, THT-1, FISE-1, ISE-2, OBT-2, THT-2, FISE-3, OBT-3, THT-3, FISE-3, ISE, UT-1, UT-2, UT-3, ASSIGNMENT, PPPE, LAB BOOK, LAB TEST 1, POE, ICA-D, ICA, LAB TEST 2, LAB TEST	Unfreeze
6	ET316-18	ELECTRONIC SOFTWARE LAB-III	TUTORIAL, LAB BOOK, ICA-D, ICA, LAB TEST 1, LAB TEST 2, LAB TEST	Unfreeze
7	SLH31	SELF LEARNING COURSE I-HSS-18	ESE, ASSIGNMENT	Unfreeze

Step 5: Marks filling process is performed in defined Tools

The screenshot shows the 'Tool - Evaluation & Attainment' page in RWork. A modal window titled 'Edit ESE Marks' is open, allowing for the entry of marks for a specific student. Below the modal, a table displays the marks for eight students.

Edit ESE Marks Modal:

- Academic Year: 2018-19
- Class: THIRD YEAR
- Division: A
- Roll No. of Student: 141ET11051
- Name of Student: PATHAK PRAJAKTA PRAMOD
- Round-off Total Marks*: YES
- Obtained Marks: 35
- Out of Marks: 70

Table of Student Marks:

Sr. No.	Roll No.	Name of Student	Obtained Marks
1	131ET11061	BALASAHER TAWARE DADASAHER	5
2	141ET11051	PATHAK PRAJAKTA PRAMOD	35
3	141ET11053	KATKAR PUJA APPASAHER	28
4	151ET11004	KALDHONE AMBUTA SANJAY	22
5	151ET11025	KAMBLE SNEHAL BHASKAR	13
6	161ET11001	KOLLYVUSHALI RAJENDRA	42
7	161ET11002	WAKADE PRAJAKTA KASHINATH	28
8	161ET11003	WAGHMORE YAMINI VILAS	31

Step 6: CO attainment of all Tools (Internal & External)

Academic Year 2018-19
 Degree Level UNDERGRADUATE
 Class THIRD YEAR
 Division A

Program UNDER GRADUATE IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING
 Department ELECTRONICS AND TELECOMMUNICATION ENGINEERING
 Semester SEMESTER I
 Course ELECTRO MAGNETIC ENGS. & RADIATING SYSTEM (ET311-18)

Tier*
TIER II

CO Attainment With Target

Internal Tools

Sr. No.	Tools	ET311-18.1		ET311-18.2		ET311-18.3		ET311-18.4		ET311-18.5		ET311-18.6	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	ISE-1	2	3	2	3	NA	NA	NA	NA	NA	NA	NA	NA
2	DBF-1	NA	NA	2	3	NA	NA	NA	NA	NA	NA	NA	NA
3	THY-1	2	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	ISE-2	NA	NA	NA	NA	2	3	2	3	NA	NA	NA	NA
5	DBF-2	NA	NA	NA	NA	2	3	NA	NA	NA	NA	NA	NA
6	THY-2	NA	NA	NA	NA	NA	NA	2	3	NA	NA	NA	NA
7	ISE-3	NA	NA	NA	NA	NA	NA	3	3	1	3	1	3
8	DBF-3	NA	NA	NA	NA	NA	NA	NA	NA	2	3	NA	NA
9	THY-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3
10	UT-1	2	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	UT-2	NA	NA	NA	NA	2	3	NA	NA	NA	NA	NA	NA
12	UT-3	NA	NA	NA	NA	NA	NA	NA	NA	1	3	NA	NA
13	ASSIGNMENT	3	3	3	3	3	3	3	3	3	3	3	3
14	TUTORIAL	3	3	3	3	3	3	3	3	3	3	3	3
15	PPPE	3	3	2	3	2	3	2	3	2	3	1	3
16	LAB BOOK	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
17	LAB TEST 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
18	LAB TEST 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
INTERNAL TOOL ATTAINMENT		2.50	3.00	2.40	3.00	2.33	3.00	2.50	3.00	2.00	3.00	2.38	3.00

Internal Tool Weightage (%): 20

External Tools

Sr. No.	Tools	ET311-18.1		ET311-18.2		ET311-18.3		ET311-18.4		ET311-18.5		ET311-18.6	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
9	THY-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3
10	UT-1	2	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	UT-2	NA	NA	NA	NA	2	3	NA	NA	NA	NA	NA	NA
12	UT-3	NA	NA	NA	NA	NA	NA	NA	NA	1	3	NA	NA
13	ASSIGNMENT	3	3	3	3	3	3	3	3	3	3	3	3
14	TUTORIAL	3	3	3	3	3	3	3	3	3	3	3	3
15	PPPE	3	3	2	3	2	3	2	3	2	3	1	3
16	LAB BOOK	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
17	LAB TEST 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
18	LAB TEST 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
INTERNAL TOOL ATTAINMENT		2.50	3.00	2.40	3.00	2.33	3.00	2.50	3.00	2.00	3.00	2.38	3.00

Internal Tool Weightage (%): 20

External Tools

Sr. No.	Tools	ET311-18.1		ET311-18.2		ET311-18.3		ET311-18.4		ET311-18.5		ET311-18.6	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	EEE	2	2	2	2	2	2	2	2	2	2	2	2
EXTERNAL TOOL ATTAINMENT		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

External Tool Weightage (%): 80

Overall Course CO Attainment

Sr. No.	Tool Type	ET311-18.1		ET311-18.2		ET311-18.3		ET311-18.4		ET311-18.5		ET311-18.6		Overall	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	Internal	2.50	3.00	2.40	3.00	2.33	3.00	2.50	3.00	2.00	3.00	2.38	3.00	2.35	3.00
2	External	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Overall		2.10	2.20	2.08	2.20	2.07	2.20	2.10	2.20	2.00	2.20	2.08	2.20	2.07	2.20

Remove Weightage Change Tool Weightage Download Report Back

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Step 7: Direct PO attainment of a course

Direct PO Attainment

Academic Year: 2018-19
 Degree Level: UNDERGRADUATE
 Class: THIRD YEAR
 Division: A

Program: UNDERGRADUATE IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING
 Department: ELECTRONICS AND TELECOMMUNICATION ENGINEERING
 Semester: SEMESTER I

Tier: TIER II

Sl. No.	Course Name	Course Code	Internal Attainment	External Attainment	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	
1	ELECTRO MAGNETIC ENDS & RADIATING SYSTEM	ET111-18	3.00	3.00	2.00	1.47	1.47	1.47	2.00	1.47	1.47	0.73	0.73	1.47	0.73	1.47	1.47	2.00	2.00	2.00	
2	PRINCIPLES OF DIGITAL COMMUNICATION	ET112-18	3.00	3.00	3.00	3.00	3.00	1.83	1.50	1.50	NA	1.33	NA	1.83	NA	1.00	1.17	3.00	1.17	2.83	
3	SOFTWARE ENGINEERING & PROJECT MANAGEMENT SYSTEM	ET113-18	2.64	3.00	2.93	2.12	1.63	2.28	2.61	2.93	2.76	2.76	1.50	2.28	1.30	2.61	1.30	NA	0.96	2.44	
4	DIGITAL SIGNAL PROCESSING	ET114-18	2.59	3.00	2.92	2.92	2.75	1.95	2.92	2.92	0.97	1.46	0.97	1.78	0.97	NA	1.95	2.92	NA	1.94	
5	MICROCONTROLLER - I (8051)	ET115-18	2.66	3.00	3.00	2.94	NA	3.00	3.00	1.95	1.95	NA	NA	NA	1.95	3.00	0.98	3.34	3.33	3.28	
6	SELF LEARNING COURSE I - HBS-18	SLH01	3.00	3.00	3.00	1.00	1.00	NA	NA	NA	2.00	NA	2.00	NA	NA	NA	NA	NA	1.00	3.00	
7	ELECTRONIC SOFTWARE LAB-II	ET116-18	3.00	NA	3.00	3.00	3.00	2.00	1.00	2.00	1.00	NA	NA	1.00	NA	1.00	2.00	3.00	3.00	1.00	
Direct Attainment					2.26	1.81	2.08	2.03	2.13	1.78	1.83	1.23	1.87	1.24	1.80	1.48	2.73	1.88	2.25		

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Step 8: Indirect PO attainment

Indirect Target & Attainment

Academic Year: 2018-19
 Program: UNDERGRADUATE IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING (SET)

Level of Co-relation: No Co-relation: NA Low Co-relation: 1 Medium Co-relation: 2 High Co-relation: 3

Sl. No.	Method Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
1	EMPLOYEE METHOD	3.00	3.00	NA	NA	3.00	NA	3.00	3.00	NA	3.00	3.00	3.00	NA	NA	NA
2	ALUMNI FEEDBACK	3.00	1.00	NA	NA	NA	NA	NA	2.00	3.00	1.00	NA	NA	NA	NA	NA
3	GUEST LECTURE FEEDBACK	2.50	NA	2.50	2.70	2.50	2.80	2.80	2.90	2.90	2.90	2.70	2.70	NA	NA	NA
4	INDUSTRIAL VISIT FEEDBACK	NA	3.00	NA	NA	1.00	3.00	NA	3.00	3.00	NA	1.00	NA	NA	NA	NA
5	COURSE END SURVEY	NA	NA	NA	NA	NA	NA	NA	3.00	3.00	3.00	3.00	3.00	NA	NA	NA
6	EXIT SURVEY	2.00	3.00	2.00	NA	3.00	NA	NA	3.00	2.00	NA	2.00	NA	NA	NA	NA
7	PARENT SURVEY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Attainment		2.23	2.50	2.45	2.70	2.48	2.90	2.90	2.82	2.98	2.48	2.38	2.90	NA	NA	NA

Indirect Assessment Weights (N) = 20

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