

SCHOOL OF ENGINEERING & TECHNOLOGY

CRITERIA 1

SUBCRITERIA 1.3.3

**Percentage of students undertaking field
projects/research projects/internships**

Academic Year 2022-2023


Dr. Omveer Singh
REGISTRAR
ITM University
Gwalior (M.P.)

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING (ECE), SCHOOL OF ENGINEERING AND
TECHNOLOGY**

Total Number of Research Projects in UG and PG

Research Projects	Program	Total Number of students Involved in research projects
	B.TECH(ECE)	05

The students undertake major projects for increasing their practical knowledge and experience. Students are encouraged to do their research in the university and community to encourage the research insight in them

Total Number of Internships in UG

Internships	Program	Total Number of students Involved in internship
	B.TECH(ECE)	05

In the Electronics & Communication Engineering disciplines, there is mandatory Internship. In the curriculum design it has been incorporated into the program and completes it as a mandatory part of final year training.

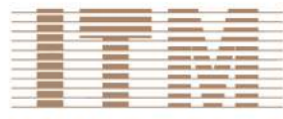
Total Number of Field Project/Industry visits in UG and PG

Field Project/Industry visits	Program	Total Number of students involved in field projects
	B.TECH(ECE)	27

Field visits / Industry Visits Field/ Industrial visits during the course of any program gives students an insight on the internal working environment of the company. Electronics & Communication engineering, students undertake field visits to industry to enhance knowledge and enrich skills.


 Prof. (Dr.) Ranjeet Singh Tomar


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"CELEBRATING DREAMS"

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STUDY AND EVALUATION SCHEME (2022-2023)

SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Program:BTech(Electronics_and_Communication)

Semester:1st

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	ECL0101[T]	Basic Electronics	40	30	30	0	0	0	100	2	1	0	3
2	ECL0102[T]	Principles of Sensors & IOT	40	30	30	0	0	0	100	2	1	0	3
3	HUL0101[T]	Communication Skills & Colloquim	40	30	30	0	0	0	100	3	0	0	3
4	MAL0101[T]	Calculus For Engineers	40	30	30	0	0	0	100	2	1	0	3
5	MEL0101[T]	Engineering Mechanics	40	30	30	0	0	0	100	2	1	0	3
6	ECL0101[P]	Basic Electronics	0	0	0	40	30	30	100	0	0	1	1
7	ECL0102[P]	Principles of Sensors & IOT	0	0	0	40	30	30	100	0	0	1	1
8	ECP0101[P]	Electronics Workshop Practice	0	0	0	40	30	30	100	0	0	2	2
9	HUL0101[P]	Communication Skills & Colloquim	0	0	0	40	30	30	100	0	0	1	1
10	MAL0101[P]	Calculus For Engineers	0	0	0	40	30	30	100	0	0	1	1
11	MEL0101[P]	Engineering Mechanics	0	0	0	40	30	30	100	0	0	1	1
Total Credits												22	

*Newly Added Courses

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Programme:BTech(Electronics_and_Communication)

Semester:2nd

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T	P		
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva						
1	CSL0201[T]	Essentials of Information Technology	40	30	30	0	0	0	100	2	0	0	2	
2	ECL0261[T]	Fundamentals of Arduino Programming	40	30	30	0	0	0	100	2	1	0	3	
3	EEL0201[T]	Principles of Electrical Engineering	40	30	30	0	0	0	100	2	1	0	3	
4	MAL0203[T]	Statistics for Engineers	40	30	30	0	0	0	100	2	1	0	3	
5	MCL0201[T]	Environmental Pollution & Global Issues	40	30	30	0	0	0	100	3	1	0	4	
6	MCL0202[T]	Making of Modern India	40	30	30	0	0	0	100	2	0	0	2	
7	MEL0202[T]	Engineering Graphics	40	30	30	0	0	0	100	2	0	0	2	
8	CSL0201[P]	Essentials of Information Technology	0	0	0	40	30	30	100	0	0	1	1	
9	CSP0201[P]	Programming Logics	0	0	0	40	30	30	100	0	0	2	2	
10	ECL0261[P]	Fundamentals of Arduino Programming	0	0	0	40	30	30	100	0	0	1	1	
11	EEL0201[P]	Principles of Electrical Engineering	0	0	0	40	30	30	100	0	0	1	1	
12	MAL0203[P]	Statistics for Engineers	0	0	0	40	30	30	100	0	0	1	1	
13	MEL0202[P]	Engineering Graphics	0	0	0	40	30	30	100	0	0	1	1	
											Total Credits			26

*Newly Added Courses

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Programme:BTech(Electronics_and_Communication)

Semester:3rd

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	ECL0303[T]	Semiconductor Devices	40	30	30	0	0	0	100	2	1	0	3
2	ECL0304[T]	Architecturing of Smart IoT Devices	40	30	30	0	0	0	100	3	0	0	3
3	ECL0306[T]	Digital Electronics	40	30	30	0	0	0	100	2	1	0	3
4	ECL0307[T]	Network Analysis & Synthesis	40	30	30	0	0	0	100	2	1	0	3
5	MAL0306[T]	Engineering Mathematics	40	30	30	0	0	0	100	3	1	0	4
6	CSP0303[P]	Object Oriented Programming with Java	0	0	0	40	30	30	100	0	0	2	2
7	ECD0301[P]	Evaluation of Industrial Training-I	0	0	0	40	30	30	100	0	0	2	2
8	ECL0303[P]	Semiconductor Devices	0	0	0	40	30	30	100	0	0	1	1
9	ECL0304[P]	Architecturing of Smart IoT Devices	0	0	0	40	30	30	100	0	0	1	1
10	ECL0306[P]	Digital Electronics	0	0	0	40	30	30	100	0	0	1	1
11	ECL0307[P]	Network Analysis & Synthesis	0	0	0	40	30	30	100	0	0	1	1
												Total Credits	24

*Newly Added Courses

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Programme:BTech(Electronics_and_Communication)

Semester:4th

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	CSL0457[T]	Data Structure and Application	40	30	30	0	0	0	100	2	1	0	3
2	ECL0408[T]	Electronics Circuits & Linear ICs Applications	40	30	30	0	0	0	100	3	1	0	4
3	ECL0409[T]	Digital System Design	40	30	30	0	0	0	100	3	1	0	4
4	ECL0411[T]	Analog Communication	40	30	30	0	0	0	100	3	1	0	4
5	ECL0460[T]	Wireless Sensor Networks & IoT	40	30	30	0	0	0	100	2	1	0	3
6	CSL0457[P]	Data Structure and Application	0	0	0	40	30	30	100	0	0	1	1
7	CSP0405[P]	Computer Programming Lab (PYTHON)	0	0	0	40	30	30	100	0	0	2	2
8	ECL0408[P]	Electronics Circuits & Linear ICs Applications	0	0	0	40	30	30	100	0	0	1	1
9	ECL0409[P]	Digital System Design	0	0	0	40	30	30	100	0	0	1	1
10	ECL0411[P]	Analog Communication	0	0	0	40	30	30	100	0	0	1	1
11	ECL0460[P]	Wireless Sensor Networks & IoT	0	0	0	40	30	30	100	0	0	1	1
Total Credits												25	

*Newly Added Courses

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Programme:BTech(Electronics_and_Communication)

Semester:5th

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva					
1	ECL0512[T]	Electromagnetic Theory	40	30	30	0	0	0	100	3	1	0	4
2	ECL0513[T]	Digital Communication	40	30	30	0	0	0	100	3	1	0	4
3	ECL0514[T]	Control System	40	30	30	0	0	0	100	2	1	0	3
4	ECL0515[T]	Advanced Microprocessors and Interfacing	40	30	30	0	0	0	100	3	1	0	4
5	ECL0519[T]	Digital Signal Processing	40	30	30	0	0	0	100	2	1	0	3
6	ECD0502[P]	Evaluation of Industrial Training-II	0	0	0	40	30	30	100	0	0	2	2
7	ECL0513[P]	Digital Communication	0	0	0	40	30	30	100	0	0	1	1
8	ECL0515[P]	Advanced Microprocessors and Interfacing	0	0	0	40	30	30	100	0	0	1	1
9	ECL0519 [P]	Digital Signal Processing	0	0	0	40	30	30	100	0	0	1	1
10	ECP0502[P]	Software Lab-I	0	0	0	40	30	30	100	0	0	2	2
Total Credits												25	

*Newly Added Courses

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Programme:BTech(Electronics_and_Communication)

Semester:6th

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	ECL0617[T]	Antenna & Wave Propagation	40	30	30	0	0	0	100	3	1	0	4
2	ECL0618[T]	Micro controller & Embedded System	40	30	30	0	0	0	100	3	1	0	4
3	ECL0621[T]	Cellular & Mobile Communication	40	30	30	0	0	0	100	3	1	0	4
4	ECL0662[T]	Machine Learning	40	30	30	0	0	0	100	2	1	0	3
5	ECD0603[P]	Mini Project	0	0	0	40	30	30	100	0	0	2	2
6	ECL0617[P]	Antenna & Wave Propagation	0	0	0	40	30	30	100	0	0	1	1
7	ECL0618[P]	Micro controller & Embedded System	0	0	0	40	30	30	100	0	0	1	1
8	ECL0662[P]	Machine Learning	0	0	0	40	30	30	100	0	0	1	1
9	ECP0603[P]	Software Lab-II	0	0	0	40	30	30	100	0	0	2	2
10		Elective I.	40	30	30	0	0	0	100	3	1	0	4
												Total Credits	26

*Newly Added Courses

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Programme:BTech(Electronics_and_Communication)

Semester:7th

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T	P		
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva						
1	ECL0723[T]	Microwave Engineering	40	30	30	0	0	0	100	3	1	0	4	
2	ECL0733[T]	VLSI Technology	40	30	30	0	0	0	100	3	1	0	4	
3	ECD0704[P]	Major Project-I	0	0	0	40	30	30	100	0	0	2	2	
4	ECL0723[P]	Microwave Engineering	0	0	0	40	30	30	100	0	0	1	1	
5	ECP0704[P]	Evaluation of Industrial Training-III	0	0	0	40	30	30	100	0	0	2	2	
6		Elective4.	40	30	30	0	0	0	100	3	1	0	4	
7		Elective3.	40	30	30	0	0	0	100	3	1	0	4	
8		Elective2.	40	30	30	0	0	0	100	3	0	0	3	
											Total Credits			24

*Newly Added Courses

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STUDY AND EVALUATION SCHEME (2022-2023)
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Programme:BTech(Electronics_and_Communication)

Semester:8th

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T	P		
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva						
1	ECL0825[T]	Optical Fiber Communication	40	30	30	0	0	0	100	2	1	0	3	
2	ECL0826[T]	VLSI Design	40	30	30	0	0	0	100	2	1	0	3	
3	ECD0805[P]	Major Project-II	0	0	0	40	30	30	100	0	0	8	8	
4	ECL0825[P]	Optical Fiber Communication	0	0	0	40	30	30	100	0	0	1	1	
5	ECL0826[P]	VLSI Design	0	0	0	40	30	30	100	0	0	1	1	
6		Elective6.	40	30	30	0	0	0	100	3	1	0	4	
7		Elective5.	40	30	30	0	0	0	100	3	1	0	4	
											Total Credits			24

*Newly Added Courses

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List of Elective Subjects

Course Code	Course Name	Subject Type	Semester
30665[T]	Micro Electro Mechanical System (MEMS)	Elective1	6th
30620[T]	Data Communication	Elective1.	6th
30701B [T]	Web Technologies	Elective2	7th
30701C[T]	Intellectual Property Rights	Elective2	7th
30701A[T]	Electric Vehicle Technology	Elective2.	7th
30763 [T]	IoT Data Analytics	Elective3	7th
30752[T]	Wireless Ad hoc Networks	Elective3.	7th
30736 [T]	Nanoelectronics	Elective4	7th
30764[T]	Cloud Computing	Elective4.	7th
30829[T]	Industrial Electronics	Elective5	8th
30843[T]	Wireless Networks	Elective5.	8th
30840 [T]	Soft Computing	Elective6	8th
30839[T]	Digital Image & Video Processing	Elective6.	8th


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Syllabus-2022-2023

(SOET)(BTech-Electronics_and_Communication)

Title of the Course	Evaluation of Industrial Training-I
Course Code	ECD0301[P]

Part A

Year	2nd	Semester	3rd	Credits	L	T	P	C
					0	0	2	2
Course Type	Lab only							
Course Category	Internships							
Pre-Requisite/s	Basic theoretical knowledge of electronics and communication.			Co-Requisite/s				
Course Outcomes & Bloom's Level	<p>CO1- Apply theoretical knowledge from coursework to solve real-world industry problems. (e.g., utilize marketing principles to develop a campaign for a local business) (BL1-Remember)</p> <p>CO2- Demonstrate proficiency in industry-standard tools and technologies relevant to the internship field. (e.g., use design software to create graphics for a company website) (BL2-Understand)</p> <p>CO3- Analyze and interpret data collected during the internship experience. (e.g., analyze customer feedback to improve product design). (BL3-Apply)</p> <p>CO4- Enhance critical thinking skills by analyzing and evaluating the outcomes of assigned projects or tasks. (BL4-Analyze)</p> <p>CO5- Compile a comprehensive report documenting the learning experiences, challenges, and achievements during the internship period. (BL5-Evaluate)</p>							
Course Elements	Skill Development ✓ Entrepreneurship ✗ Employability ✓ Professional Ethics ✗ Gender ✗ Human Values ✗ Environment ✗		SDG (Goals)					

Part B

Modules	Contents	Pedagogy	Hours
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Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
1	Learning of how to do team work, collaboration with others and learning of insight regarding the internal working atmosphere of companies.	Internships	BL2-Understand	15
2	Learning of how to use the theoretical knowledge for solving the industry problem.	Internships	BL3-Apply	15
3	Development of communication skill, managerial skill and exposure to current work practices as opposed to possibly theoretical knowledge being taught at college.	Internships	BL4-Analyze	15
4	Adapting to evolving business cultures, new methods and technologies, services, technical interface.	Internships	BL4-Analyze	15
5	Learning of how to make industrial training reports and presentation of the reports.	Internships	BL5-Evaluate	20

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	50	40	20	60	

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	


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Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	-	-	-	-	-	2	-	-	-	-	3
CO2	1	2	1	2	1	-	-	-	-	2	-	-	-	-	3
CO3	1	2	2	2	2	-	-	-	-	-	-	-	-	-	2
CO4	1	2	2	-	2	-	-	-	-	-	-	-	-	-	-
CO5	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-


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Syllabus-2022-2023

(SOET)(BTech-Electronics_and_Communication)

Title of the Course	Evaluation of Industrial Training-II
Course Code	ECD0502[P]

Part A

Year	3rd	Semester	5th	Credits	L	T	P	C
					0	0	2	2
Course Type	Lab only							
Course Category	Internships							
Pre-Requisite/s	Basic theoretical knowledge of electronics and communication.			Co-Requisite/s				
Course Outcomes & Bloom's Level	<p>CO1- Apply theoretical knowledge from coursework to solve real-world industry problems. (e.g., utilize marketing principles to develop a campaign for a local business) (BL1-Remember)</p> <p>CO2- Demonstrate proficiency in industry-standard tools and technologies relevant to the internship field. (e.g., use design software to create graphics for a company website) (BL2-Understand)</p> <p>CO3- Analyze and interpret data collected during the internship experience. (e.g., analyze customer feedback to improve product design)(BL3-Apply)</p> <p>CO4- Enhance critical thinking skills by analyzing and evaluating the outcomes of assigned projects or tasks.(BL4-Analyze)</p> <p>CO5- Compile a comprehensive report documenting the learning experiences, challenges, and achievements during the internship period.(BL5-Evaluate)</p>							
Course Elements	Skill Development ✓ Entrepreneurship ✗ Employability ✓ Professional Ethics ✗ Gender ✗ Human Values ✗ Environment ✗		SDG (Goals)					

Part B

Modules	Contents	Pedagogy	Hours
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Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
1	Learning of how to do team work, collaboration with others and learning of insight regarding the internal working atmosphere of companies.	Internships	BL2-Understand	15
2	Learning of how to use the theoretical knowledge for solving the industry problem.	Internships	BL3-Apply	15
3	Development of communication skill, managerial skill and exposure to current work practices as opposed to possibly theoretical knowledge being taught at college.	Internships	BL4-Analyze	15
4	Adapting to evolving business cultures, new methods and technologies, services, technical interface.	Internships	BL4-Analyze	15
5	Learning of how to make industrial training reports and presentation of the reports and training.	Internships	BL5-Evaluate	20

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	50	40	20	60	


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Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	-	-	-	-	-	2	-	-	-	-	2
CO2	1	2	1	2	-	-	-	-	-	2	-	-	-	-	3
CO3	1	2	2	2	-	-	-	-	-	-	-	-	-	-	3
CO4	1	2	2	3	-	-	-	-	-	-	-	-	-	-	2
CO5	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-


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Syllabus-2022-2023

(SOET)(BTech-Electronics_and_Communication)

Title of the Course	Major Project-II
Course Code	ECD0805[P]

Part A

Year	4th	Semester	8th	Credits	L	T	P	C
					0	0	8	8
Course Type	Lab only							
Course Category	Projects and Internship							
Pre-Requisite/s				Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- To increase writing skills and knowledge(BL2-Understand) CO2- To enhance their mental ability(BL3-Apply) CO3- To inculcate the ability to express innovative opinion and thought(BL4-Analyze) CO4- To have Dissertation works as skills development in student (BL5-Evaluate)							
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics ✗ Gender ✗ Human Values ✗ Environment ✗		SDG (Goals)					

Part B

Modules	Contents	Pedagogy	Hours
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Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
Module-1	Identification of a problem and formulation of a topic of project/Thesis	PBL	BL6-Create	15
Module-2	To have field work and data collection through a chosen methodology	PBL	BL6-Create	15
Module-3	Dissertation and VIVA-VOCI	PBL	BL6-Create	15


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Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	50	40	20	60	

Part E

Books	1)Electronics for you https://www.electronicsforu.com/category/electronics-projects/hardware-diy
Articles	https://www.ietlucknow.ac.in/sites/default/files/mag/Projects%20of%20Electronics%20and%20communication%20deptt._1.pdf
References Books	1)Electronics for you https://www.electronicsforu.com/category/electronics-projects/hardware-diy
MOOC Courses	https://www.coursera.org/learn/major-engineering-project-performance
Videos	https://nptel.ac.in/courses/110104073

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	-	1	-	-	1	2	3	-	-	-	3	1	-
CO2	-	3	2	3	-	3	1	-	3	3	-	2	-	2	2
CO3	-	-	3	3	3	-	-	3	3	3	1	2	-	3	2
CO4	-	-	-	-	-	-	3	3	3	3	2	3	-	3	3
CO5	-	-	-	-	-	-	-	-	3	3	-	3	-	-	3
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-


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Details of UG Research projects

Name of the School: School of Engineering & Technology, TM University, Gwalior

Name of the Course and Branch: B.TECH. Electronics & Communication Engineering

Session: 2022–2023

Total No. of Students enrolled: 05

Sample of Research Projects

S. No	Specialization	Name of the Student	Roll No.	Title of the project	Duration	Guide
1.	B. Tech. ECE IoT & Sensor	Parikshit kumar	BETN1EC19001	Adriano based Vehicle Theft Detection with Engine Stop using GSM and GPS	6 MONTH	Prof. Ranjeet Singh Tomar & Mayank Sharma
2.		Rishab Godrey	BETN3EC20D01			
3		Velpula Rai Reddy	BETN1EC19002	Digital Notice Board	6 MONTH	Prof. Ranjeet Singh Tomar & Dr. Sadhana Mishra
4		Saloni Gupta	BETN1EC19003			
5		Bado Gaston Clovis	BETN1EC19005	Smart Helmet Using Accident Alert	6 MONTH	Prof. Ranjeet Singh Tomar & Bupendra Dhakad



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LIST OF STUDENTS ECE VII/VIII SEM.

S. No.	Roll No.	Name of Candidate
1	BETN1EC19001	Parikshit Kumar
2	BETN1EC19002	Rami Reddy Velpula
3	BETN1EC19003	Saloni Gupta
4	BETN1EC19005	Bodo gaston clovis
5	BETN3EC20D01	Rishab Godrey


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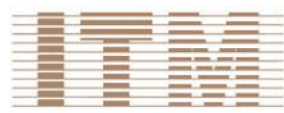
Major Project Session 2022-23

S.no.	Specialization	Student Name	Roll Number	Project Name	Durati on	Guide's Name
1	B.Tech. ECE IOT & Sensor	Parikshit Kumar	BETN1EC19001	Arduino Based Vehicle Theft Detection With Engine Stop Using GSM And GPS	6 Month	Prof. Ranjeet Singh Tomar & Mr. Mayank Sharma
		Rishab Godrey	BETN1EC20D01			
2	B.Tech. ECE IOT & Sensor	Velpula Rami Reddy	BETN1EC19002	Digital Notice Board	6 Month	Prof. Ranjeet Singh Tomar & Dr Sadhana Mishra
		Saloni Gupta	BETN1EC19003			
3	B.Tech. ECE IOT & Sensor	Bado Gaston Clovis Diemayila	BETN1EC19005	Smart Helmet Using Accident Alert	6 Month	Prof..Ranjeet Singh Tomar & Mr.Bhupendra Dhakad


Prof. (Dr.) Ranjeet Singh Tomar




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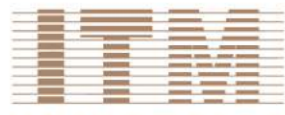
List of students went for industrial visit

S. No.	Student Name	Department
1	Girishma Patil	EC
2	Ashish Kumar	EC
3	Raman Bihari Gupta	EC
4	Shaily Upadhyaya	EC
5	Mahima	EC
6	Amit Kumar	EC
7	Gagan Kumar	EC
8	Megha Prakash	EC
9	Parikshit Kumar	EC
10	Rami Reddi	EC
11	Bado gaston Clovis	EC
12	Rishabh Godrey	EC
13	Akash Chatterjee	EC
14	Akhilesh Rai	EC
15	Priyanshu Tiwari	EC
16	Adarsh Mishra	EC
17	Aditya Goyal	EC
18	Priya Nandwani	EC
19	Dev Chandra	EC
20	Golla Palli Akhil Reddy	EC
21	Aditya Ojha	EC
22	Amool Bidua	EC
23	Shrikant Sharma	EC
24	Shubham kumar	EC
25	Roshan Kumar	EC
26	Ankita Yadav	EC
27	Gourav Sharma	EC


Dr. Anil Kumar



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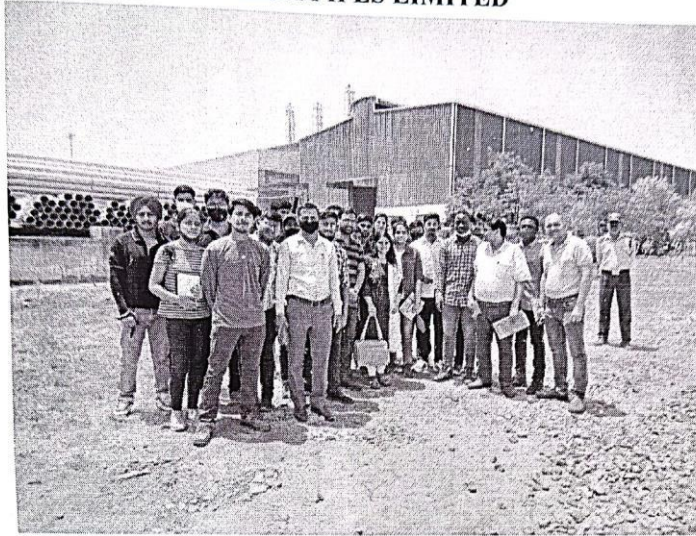
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SURYA PIPES LIMITED



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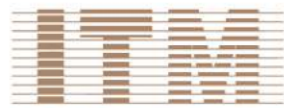
Report of Industrial Visit

Students got an opportunity to learn the basics of construction of steel pipes at the Steel Pipe Division of SURYA PIPES LIMITED in Malanpur, Gwalior. The aim of this industrial visit is to provide an exposure to the students about practical working environment and to gain full awareness about industrial practices. After visiting an industry student can gain a combined knowledge of both theory and practical. Different divisions of plant like raw material division, process of unwinding of steel sheet and cutting of the sheet, COC (Cut of Carriage cutters) with encoder machine were visited. Next, in the process, the shaped pipe went through the process of testing by different types of testing method. The most popular one was Hydro tester in which we fix the both end of pipe and then water is passed through it to check its strength of bearing the pressure. Next division, where all the steel pipes were stored for loading. Then students visited the division where the process of galvanization and coating of pipes was going on. Finally, they visited the last division where all the material was stored for an export. In this whole journey, Engineers Mr. Shubham & Mr. Abhishek welcomed all the queries and answered them patiently. Besides, marketing strategies were very well explained by Heads Sr. Managers, Mr. Purshottam Lal and Mr. Mukul Rai. Further, we are very thankful to all the team members of the company to provide us such an opportunity. Under the guidance of Head of the Department Dr. Ranjeet Singh Tomar the visit of students were accompanied by the faculty members Dr. Sadhana Mishra and Mr. Shailendra Singh Ojha.

Dr. Ranjeet Singh Tomar



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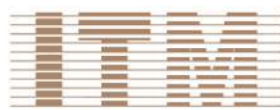
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Students Training Details 2022 (6th Sem.)

S.No	Name	Roll No.	semester	Topic	Company name
1.	Parikshit Kumar	BETNIEC19001	6	Telecom technologies and Network	Advance Level Telecom Training Center (ALTTC) Ghaziabad
2.	Saloni Gupta	BETNIEC19003	6	Steel manufacturing	N.N Ispat Pvt. Ltd Kolkata
3.	Rami Raddey	BETNIEC19002	6	Networking and communication	Cyberaegis it solutions PVT
4.	Rishab Godrey	BETNIEC20D01	6	Telecom Technology and network	Advance Level Telecom Training Center (ALTTC) Ghaziabad




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Certificate Number
ALTITNB385-2022-2694002



ADVANCED LEVEL TELECOM TRAINING CENTRE (ALTTC), GHAZIABAD
(UNO'S ITU CENTRE OF EXCELLENCE)

APEX TRAINING INSTITUTE OF BSNL(A GOVT. OF INDIA ENTERPRISE)

A Joint Venture Of International Telecommunication Union, Geneva, UNDP And The Government Of India In 1975

CERTIFICATE

This is to Certify that Mr./Ms.

Parikshit Kumar, STUDENT of

ITM University, Gwalior

has successfully completed the following Course conducted by
Bharat Sanchar Nigam Limited

Industrial / Internship Training: TELECOM TECHNOLOGIES AND NETWORK

with effect from **28-August-2022** TO **29-September-2022**

at **ALTTC, Ghaziabad**

We wish him/her all the best for a bright future.

29-September-2022

DATE


Assistant General Manager (IT)
(ALTTC)


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KaaShiv

ISO 9001
CERTIFIED

Microsoft®
MVP Most Valuable Professional
2008 - 2018

Certificate

OF COMPLETION

Velpula Rami Reddy
ITM UNIVERSITY

Is presented with this certificate on successful completion of
Computer Networking Internship

Under the guidelines and norms of the program structure
conducted during for
20 Days (25 September 2021 - 15 October 2021)

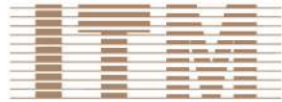
Attendee met all certification requirements and Successful
performance on the required competence examination.

Certificate ID **KA-WnHGN** Grade: **A**

Venka
Venkatesan Prabu.J
Microsoft MVP

The Certificate ID Can be Verified at www.kaashiv.com/verify-now


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2



A

Major Project report

On

**Arduino Based Vehicle Theft Detection With Engine Stop
Using GSM And GPS**

Submitted in Partial fulfillment of Major Project for the
award of

Bachelor of Technology in (Electronics & Communication
Engineering)

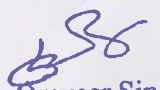
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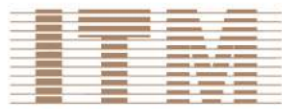
Submitted by
Parikshit Kumar
(BETN1EC19001) Rishab
Godrey (BETN3EC20D01)


Head of Department
Electronics & Communication Engg.
ITM University
Gwalior (M.P.)

Under the guidance of
Dr. Ranjeet Singh Tomar (Hod Of ECE Dept.)

Dept. of Electronics & Communication Engineering
ITM UNIVERSITY, GWALIOR (M.P.)


Dr. Omveer Singh
REGISTRAR
ITM University
Gwalior (M.P.)



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A

Major Project Report

On

“Smart Helmet using Accident Alert”

Submitted in partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING



“CELEBRATING DREAMS”

by

BADO GASTON CLOVIS DIEMAYILA
(BETN1EC19005)

Done
Under the guidance of
Dr. RANJEET SINGH TOMAR
(Head of Department)

ITM University
Gwalior (M.P.)

Department of Electronics and Communication Engineering
School of Engineering and Technology
ITM UNIVERSITY, GWALIOR - 474026 MP, INDIA
JUNE– 2023

1

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Gwalior (M.P.)

A
Major Project Report
On
"Digital notice board"

Submitted in partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY




by
Velpula Rami Reddy (BETN1EC19002)
Saloni Gupta (BETN1EC19003)

Under the guidance of


Mr. Dr . Ranjeet Singh Tomar
(Head of the Department ECE)
Head of Department
Electronics & Communication Engg.
ITM University
Gwalior (M.P.)

Department of Electronics and Communication Engineering
School of Engineering and Technology
ITM UNIVERSITY, GWALIOR - 474001 MP, INDIA
MAY -2023


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