

SCHOOL OF ENGINEERING & TECHNOLOGY

CRITERIA 1

SUBCRITERIA 1.3.3

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

Academic Year 2021-2022


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)	09

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)	21

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 industrial visit
	B.TECH(ECE)	nil

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.


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S.No	Component	Link
1.	Scheme with highlighted Major Project/Industrial training with syllabus	View
2.	Research Projects of UG	View
3.	Internships in UG	View


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STUDY AND EVALUATION SCHEME (2021-2022)

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	Prograssive 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	MEL0202[T]	Engineering Graphics	40	30	30	0	0	0	100	2	1	0	3
7	CSL0201[P]	Essentials of Information Technology	0	0	0	40	30	30	100	0	0	1	1
8	CSP0201[P]	Programming Logics	0	0	0	40	30	30	100	0	0	2	2
9	ECL0261[P]	Fundamentals of Arduino Programming	0	0	0	40	30	30	100	0	0	1	1
10	EEL0201[P]	Principles of Electrical Engineering	0	0	0	40	30	30	100	0	0	1	1
11	MAL0203[P]	Statistics for Engineers	0	0	0	40	30	30	100	0	0	1	1
12	MEL0202[P]	Engineering Graphics	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: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	3	1	0	4
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	3	1	0	4
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												26	

*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	3	1	0	4
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	26

*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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STUDY AND EVALUATION SCHEME (2021-2022)
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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 (2021-2022)
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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	3	1	0	4	
2	ECL0826[T]	VLSI Design	40	30	30	0	0	0	100	3	1	0	4	
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			26

*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
30701A[T]	Electric Vehicle Technology	Elective2	7th
30701B [T]	Web Technologies	Elective2	7th
30701C[T]	Intellectual Property Rights	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-2021-2022

(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-2021-2022

(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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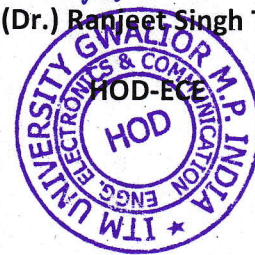
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"CELEBRATING DREAMS"

Major Project Session 2021-22

S.no.	Specialization	Student Name	Roll Number	Project Name	Duration	Guide's Name
1	B.Tech. ECE IOT & Sensor	Abhiranjan kumar	BETN1EC18001	Remote Health Monitoring System	6 Month	Prof. Ranjeet Singh Tomar & Mr. Bhupendra Dhakad
		Amit kumar	BETN1EC18002			
		Mahima	BETN1EC18D03			
2	B.Tech. ECE IOT & Sensor	Ashish kumar Dudpuri	BETN1EC18003	Smart Shoes using Peizo Electric Transducer	6 Month	Prof. Ranjeet Singh Tomar & Mr. Mayank Sharma
		Raman Bihari Gupta	BETN1EC18008			
		Shailly Upadhyay	BETN1EC18009			
3	B.Tech. ECE IOT & Sensor	Gagen Kumar	BETN1EC18004	Smart Waste Management System	6 Month	Prof. Ranjeet Singh Tomar & Dr. Sadhana Mishra
		Megha Prakash Bachchan	BETN1EC18005			
		Garima lalit Patil	BETN1EC18006			

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A
MAJOR PROJECT REPORT
ON
SMART SHOES USING PIEZOELECTRIC TRANSDUCER
SUBMITTED IN PARTIAL FULFILLMENT FOR AWARD DEGREE OF
BACHELOR OF TECHNOLOGY
IN
ELECTRONICS AND COMMUNICATION ENGINEERING



By
Ashish Kumar Dudpuri (BETN1EC18003)
Raman Bihari Gupata (BETN1EC18008)
Shailly Upadhyay (BETN1EC18009)

Under the Guidance of
Assistant Prof. Mayank Sharma
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
School of Engineering and Technology
ITM UNIVERSITY, GWALIOR - 474026 MP, INDIA

SESSION 2018-2022

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

SMART WASTE MANAGEMENT SYSTEM

*A report submitted in
partial fulfillment for the Degree of*

B. Tech

in

School of Engineering and Technology

by

GAGAN KUMAR

MEGHA PRAKASH BACHCHAN

GRISHMA LALIT PATIL

pursued in

Department of Electronics and Communication Engineering

ITM UNIVERSITY GWALIOR

To



ITM UNIVERSITY GWALIOR

**NH-44, Bypass Turari, Jhansi Road
Gwalior(M.P.),475001, INDIA**

2018-2022




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

A
Major Project Report
On
"Remote Health Monitoring System"

Submitted in partial fulfilment for the award of the degree of

BACHELORS OF TECHNOLOGY
IN
ELECTRONICS AND COMMUNICATION



by

Mahima(BETN3EC19D01)
Abhiranjan Kumar (BETN1EC18001)
Amit Kumar (BETN1EC18002)

Under the guidance of

Mr. Bhupendra Dhakad
(Asst. Professor)

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



May- 2022


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

STUDENTS INTERNSHIP DETAILS FOR THE YEAR 2021-2022

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,
SCHOOL OF ENGINEERING AND TECHNOLOGY ITM UNIVERSITY
GWALIOR M.P.**

1.	Abhiranjan Kumar	BETN1EC18001
2.	Amit Kumar	BETN1EC18002
3.	Ashish Kumar Dudpuri	BETN1EC18003
4.	Gagan Kumar	BETN1EC18004
5.	Megha Prakash Bachchan	BETN1EC18005
6.	Patil Grishma Lalit	BETN1EC18006
7.	Raman Bihari Gupta	BETN1EC18008
8.	Shailly Upadhyay	BETN1EC18009
9.	Mahima	BETN3EC19D01
10.	Parikshit Kumar	BETN1EC19001
11.	Rami Reddy Velpula	BETN1EC19002
12.	Saloni Gupta	BETN1EC19003
13.	Bado Gaston Clovis Diemayila	BETN1EC19005
14.	Rishab Godfrey	BETN3EC20D01
15.	Aditya Ojha	BETN1EC20001
16.	Amool Bidua	BETN1EC20002
17.	Shrikant Sharma	BETN1EC20004
18.	Shubham kumar	BETN1EC20005
19.	Roshan Kumar	BETN1EC20007
20.	Ankita Yadav	BETN1EC20009
21.	Gourav Sharma	BETN1EE20002


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 Gwalior (M.P.)


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



CERTIFICATE OF COMPLETION

Presented to

Mahima

For successfully completing 40 days online course
Supervised Machine Learning with Logistic Regression and Naïve Bayes

Provided by
Great Learning Academy
(On July 2021)



CERTIFICATE OF COMPLETION

Presented to

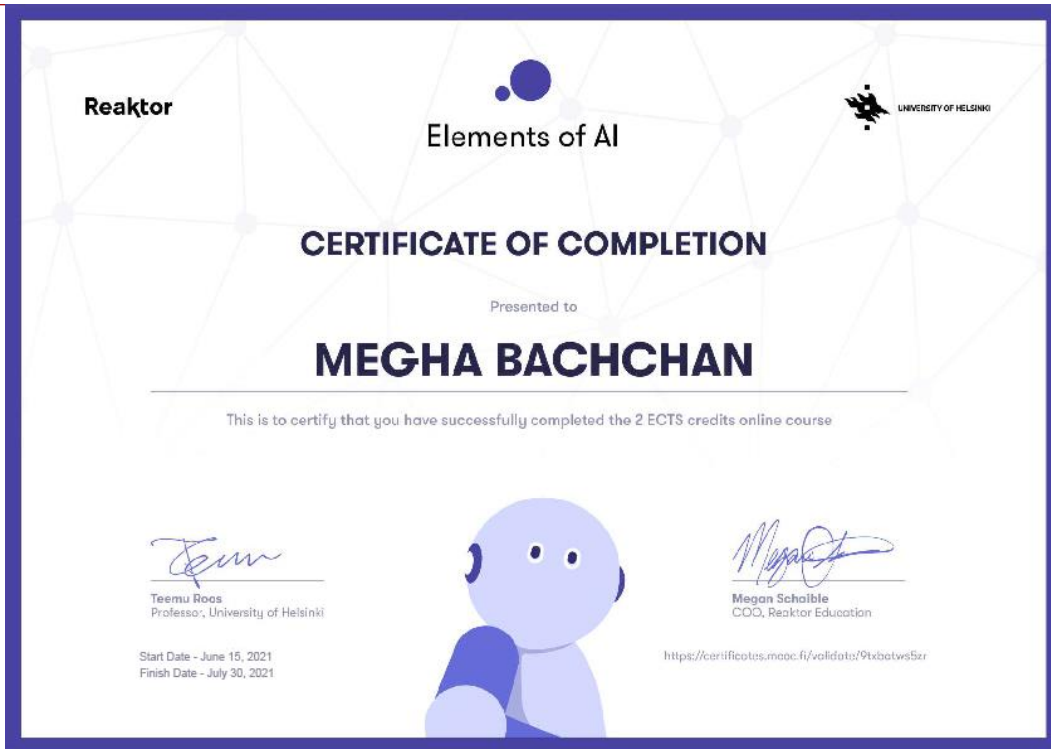
Amit Kumar

For successfully completing 40 days online course
Introduction to Deep Learning

Provided by
Great Learning Academy
(On August 2021)



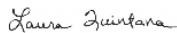
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Networking Essentials

The student has successfully achieved student level credential for completing Networking Essentials course. The student was able to proficiently:

- Explain the concept of network communication.
- Explain the basic requirements for getting online.
- Build a simple home network.
- Explain the importance of standards and protocols in network communications.
- Explain how communication occurs on Ethernet networks.
- Create a fully connected LAN.
- Explain the DHCP address assignment process.
- Explain the principles of IPv4 and IPv6 address management.
- Explain how clients access internet services.
- Explain the function of common application layer services.
- Configure an integrated wireless router and wireless client to connect securely to the internet.
- Connect wireless PC clients to a wireless router.
- Explain how to use security best practices to mitigate attacks.
- Configure basic network security.
- Explain how to use the Cisco IOS.
- Build a simple computer network using Cisco devices.



Laura Quintana
VP & General Manager, Cisco Networking Academy



Student

29 May 2021

Date


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

NIS-21/I-Tr-109

Date: 20/11/2021

This is to certify that **Ms. SHAILLY UPADHYAY (ITM UNIVERSITY)** has completed Internship at Numeric Infosystem Pvt. Ltd. From **MAY, 2021 to OCT, 2021.**

Technology : REACT JS, NODE JS

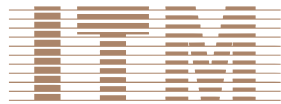
We found her sincere, hardworking, and technically sound and result oriented. She worked well as a part of team during her tenure. We take this opportunity to thank her and wish her all the best for her future.

For
NUMERIC INFOSYSTEM PVT. LTD.


(Authorized Signatory)




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CERTIFICATE OF COMPLETION

THIS CERTIFICATE GOES TO

RAMAN BIHARI GUPTA

for successfully completing the *Digital Marketing* course last 23rd Nov, 2021.

Mahima Dwivedi
INSTITUTE DIRECTOR

Digitokawn



MAVER
SILICON

Centre of Excellence in VLSI

CERTIFICATE OF COMPLETION

This is to certify that

Ashish kumar dudpuri

has successfully completed

VLSI SoC Design using Verilog HDL

Online Course on 4th day of November 2021

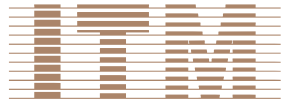


SIVAKUMAR P R
CEO, MAVEN SILICON

MSUID : 102110844




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Certificate No PS-APSSDC-INTERN.IOT-0358



CERTIFICATE OF INTERNSHIP

PANTECH SOLUTIONS®
Technology Beyond The Dreams

NAME Mr Parikshit Kumar

COLLEGE ITM UNIVERSITY

has Successfully Completed
INTERNET OF THINGS MASTER CLASS (30 DAYS)

at Pantech e Learning Pvt Ltd, Chennai

From SEP 19,2021 To OCT 18,2021

Dr. Ravi Gujara
Chief General Manager (Technical)
APSSDC

Prof. Rama Koti Reddy
Executive Director
APSSDC

N Bangara Raju
Managing Director
APSSDC

M. Malaiappan
Director
Pantech e Learning

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Submitted For the partial fulfilment of degree

Batchelor of Technology
In
Electronics and Communication Engineering
INDUSTRIAL TRAINING

Submitted by :

V.RAMI REDDY

ECD00502



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

   Certificate Number
ALTOFNB416-2021-1596010

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.
SALONI GUPTA, Student from
ITM University, Gwalior, Madhya Pradesh

has successfully completed the following Course conducted by
Bharat Sanchar Nigam Limited
Name of the Course: TELECOM TECHNOLOGY AND NETWORK (4W)

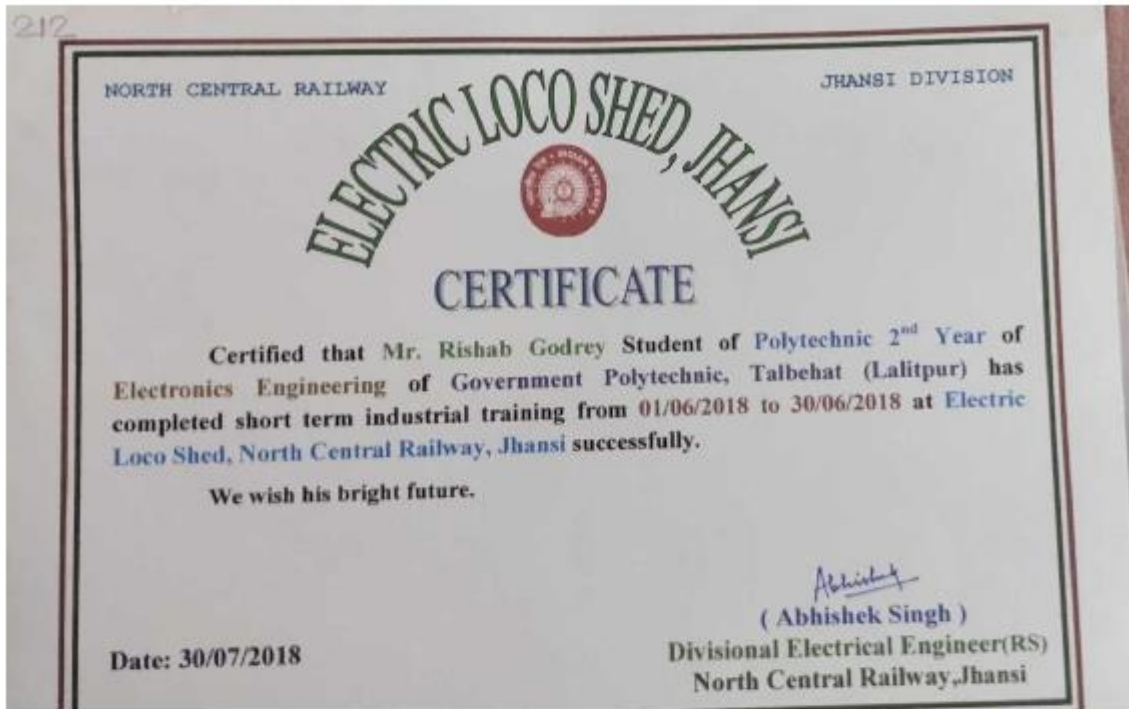
with effect from **21.06.2021** TO **16.07.2021**
at **ALTTC, Ghaziabad**

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

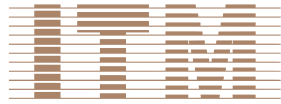
16.07.2021
DATE


Dy. General Manager (Tx & Mobile)
(ALTTC)


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LEARNING

Certificate of Completion

Congratulations, BADO GASTON CLOVIS DIEMAYILA

Become a Raspberry Pi Developer

Learning Path completed on Apr 15, 2021 at 04:51PM UTC • 16 hours 41 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered

Electronics, Raspberry Pi, Internet of Things (IoT)

Head of Content Strategy, Learning

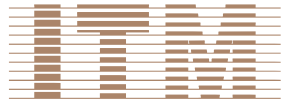
LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate Id: AXLY8ovi7MkEZJ57n9eRK64ICGeQ

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O/o The GMTD BSNL Gwalior (M.P.)

CERTIFICATE FOR BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

This is to Certify that Mr./Ms ADITYA OJHA

Student of ITM UNIVERSITY Pursuing B.Tech.

has successfully completed Vocational Training of Two weeks, in

Basic Telecom with effect from 23/12/21 to 04/01/22 at BSNL Gwalior.

His/Her Performance during this training has been.

BSNL wishes him/her all the best for a bright/future.

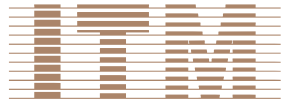
Place : Gwalior

No. 1228

Date : .

A.G. M. (mktg.)

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



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CERTIFICATE FOR BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

This is to Certify that Mr./Ms. SHUBHAM KUMAR

Student of ITM UNIVERSITY Pursuing B.Tech.

has successfully completed Vocational Training of TWO weeks, in

Basic Telecom with effect from 23/12/21 to 04/01/22 at BSNL Gwalior.

His/Her Performance during this training has been.

BSNL wishes him/her all the best for a bright/future.

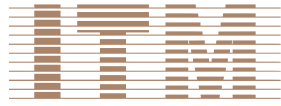
Place : GWALIOR

No. 1227

Date : .

A.G. M. (mktg.)

Dr. Omveer Singh
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**CERTIFICATE FOR BASIC LEVEL
VOCATIONAL TRAINING IN TELECOM**

This is to Certify that Mr./Ms. **SHRIKANT SHARMA**

Student of **ITM UNIVERSITY** Pursuing **B.Tech.**

has successfully completed Vocational Training of **130** weeks, in

Basic Telecom with effect from **23/12/21** to **04/01/22** at BSNL Gwalior.

His/Her Performance during this training has been.

.....

BSNL wishes him/her all the best for a bright/future.

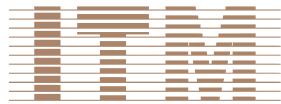
Place : **Gwalior**

No. **1230**

Date :

A.G. M. (mktg.)

Dr. Omveer Singh
REGISTRAR
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CERTIFICATE FOR BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

This is to Certify that Mr./Ms. ROSHAN KUMAR

Student of ITM UNIVERSITY Pursuing B.E/B.Tech.

has successfully completed Vocational Training of TWO weeks, in

Basic Telecom with effect from 23/12/21 to 04/01/22 at BSNL Gwalior.

His/Her Performance during this training has been.

BSNL wishes him/her all the best for a bright/future.

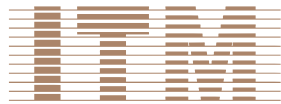
Place : GWALIOR

No. 1225

Date : .

A.G. M. (mktg.)

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



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CERTIFICATE FOR BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

This is to Certify that Mr./Ms. GAURAV SHARMA

Student of ITM UNIVERSITY Pursuing B.Tech

has successfully completed Vocational Training of Two weeks, in

Basic Telecom with effect from 23/12/21 to 4/01/22 at BSNL Gwalior.

His/Her Performance during this training has been.

.....


BSNL wishes him/her all the best for a bright/future.

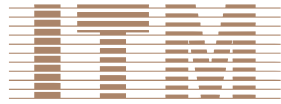
Place : Gwalior

No. 1226

Date : .


A.G. M. (mktg.)


Dr. Omveer Singh
REGISTRAR
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CERTIFICATE FOR BASIC LEVEL
VOCATIONAL TRAINING IN TELECOM

This is to Certify that Mr./Ms. ANKITA YADAV

Student of ITM UNIVERSITY Pursuing B.Tech.

has successfully completed Vocational Training of Two weeks, in

Basic Telecom with effect from 23/12/21 to 4/01/22 at BSNL Gwalior.

His/Her Performance during this training has been.

.....

BSNL wishes him/her all the best for a bright/future.

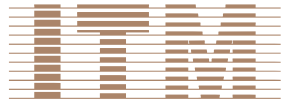
Place: GWALIOR

No. 1229

Date:


A.G.M. (mktg.)


Dr. Omveer Singh
REGISTRAR
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CERTIFICATE FOR BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

This is to Certify that Mr./Ms. AMOOOL BIDUA

Student of ITM UNIVERSITY Pursuing B.Tech.

has successfully completed Vocational Training of TWO weeks, in

Basic Telecom with effect from 23/12/21 to 04/01/22 at BSNL Gwalior.


His/Her Performance during this training has been.

BSNL wishes him/her all the best for a bright/future.

Place : GWALIOR

No. 1231

Date : .


A.G. M. (mktg.)


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