7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Index

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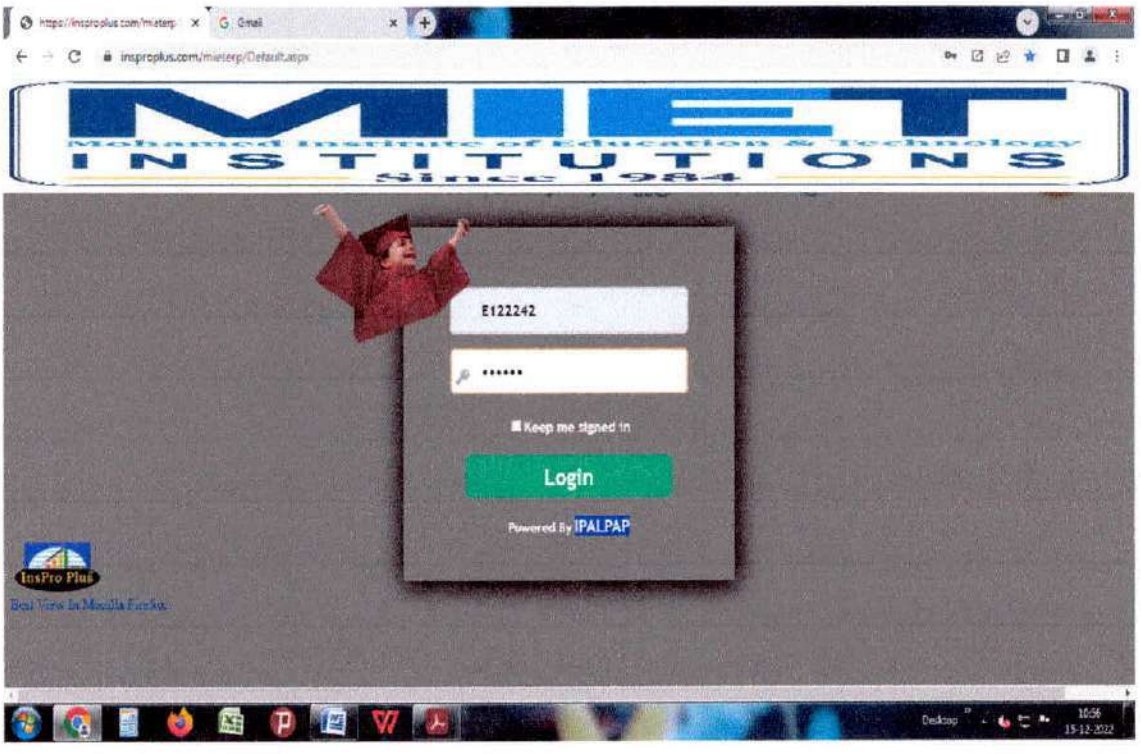
BEST PRACTICE -1

Title: All academic processes of the institution are digitized and managed through the Enterprise Resource Planning (ERP) software.

The ERP system includes students attendance, daily absentees report with attendance percentage, assessment details including results and reports, faculty follow-up, etc.



Screenshot of ERP login

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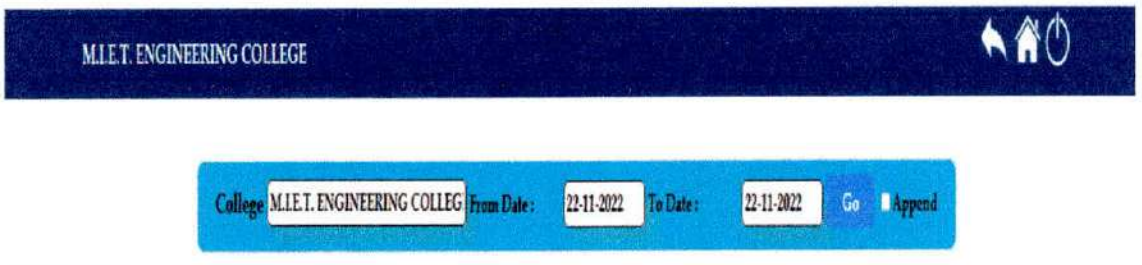
S.No	Module Name	Header Name	ID	Menu	No Of Visit
1	Attendance Module	Operation	AO01	Attendance Entry	202
2	Mark Module		CO01	CAM Entry	43

Attendance entry page



Date	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8
22-11-2022	Robotics 2019-BE-MECH-Sem7 B						Robotics 2019-BE-MECH-Sem7 A	

Hour wise attendance entry

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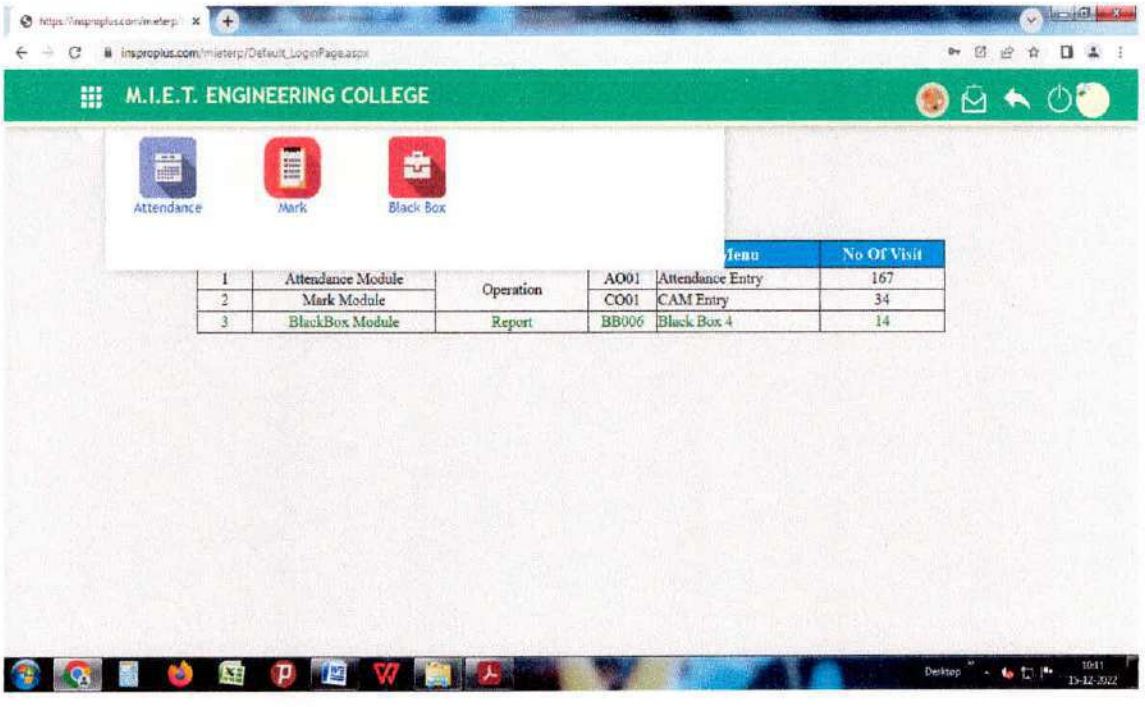
S.No	Module Name	Header Name	ID	Menu	No Of Visit
1	Attendance Module	Operation	AO01	Attendance Entry	167
2	Mark Module		CO01	CAM Entry	34
3	BlackBox Module	Report	BB006	Black Box 4	14



				Menu	No Of Visit
1	Attendance Module	Operation	AO01	Attendance Entry	167
2	Mark Module		CO01	CAM Entry	34
3	BlackBox Module	Report	BB006	Black Box 4	14

Attendance and mark entry module

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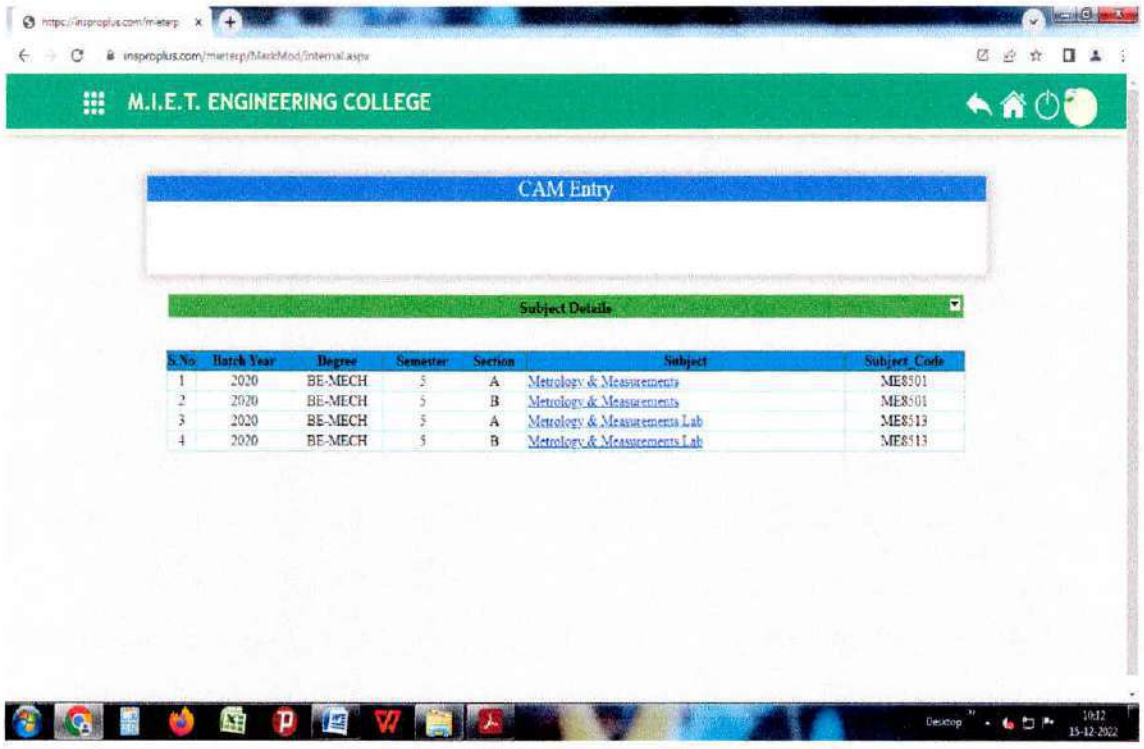

S.No	Batch Year	Degree	Semester	Section	Subject	Subject_Code
1	2020	BE-MECH	5	A	Metrology & Measurements	ME8501
2	2020	BE-MECH	5	B	Metrology & Measurements	ME8501
3	2020	BE-MECH	5	A	Metrology & Measurements Lab	ME8513
4	2020	BE-MECH	5	B	Metrology & Measurements Lab	ME8513

Internal Assessment entry

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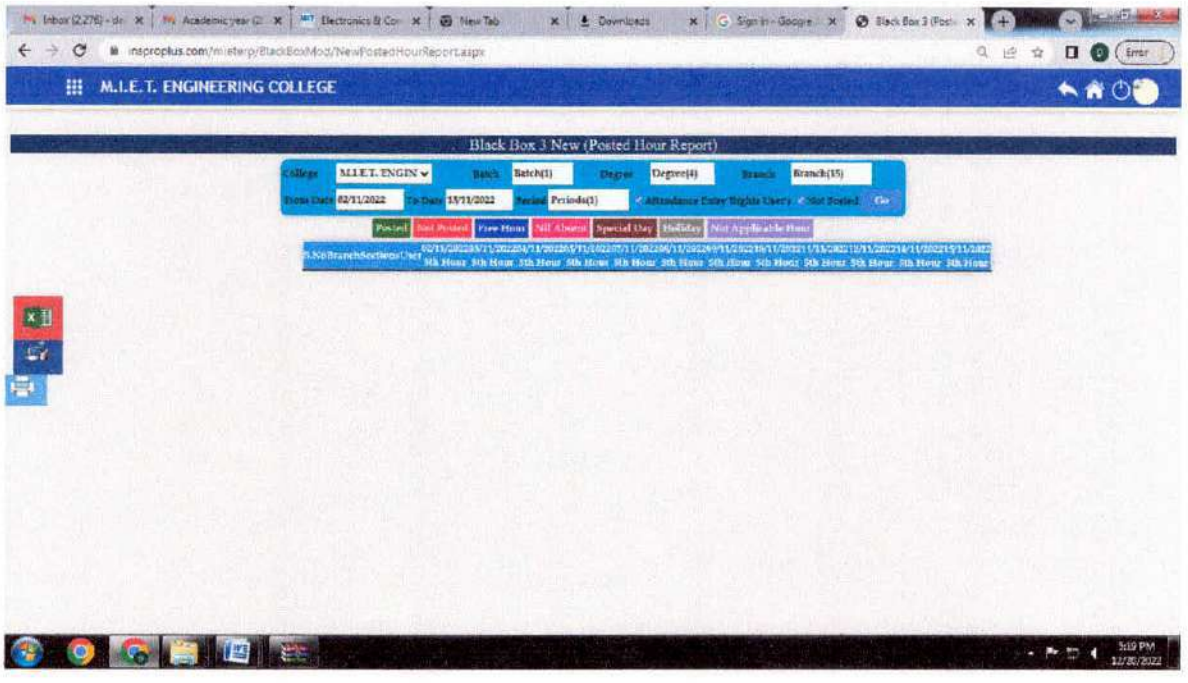
S.No	Module Name	Header Name	ID	Menu	No Of Visit
1	Attendance Module	Master	AM102	Master Subject Allotments	188
2	Schedule Module		SJ01	Entry Check	179
3	Student Module	Operation	SO17	Student Promotion	148
4	Attendance Module	Master	AM104	Semester Time Table	147
5			AM105	Staff Selector	119
6		Operation	AO01	Attendance Entry	113
7		Master	AM103	Batch Allocation	107
8	Master/Wizard Module		MAS003	Semester Information	95
9	BlackBox Module	Report	BB003	Black Box 3	64
10	Attendance Module		AT07	Subjectwise Attendance With Percentage Report	54
11	Student Module	Operation	SO16	Section Allocation	50
12	Mark Module	Master	CM01	Criteria For Internal	43
13	Attendance Module	Report	AT11	Individual Subject Wise Attendance Report	41
14	Master/Wizard Module	Master	MAS007	Bell Timings	37
15	Attendance Module	Report	AT02	Cumulative Attendance Report	27
16	Mark Module	Operation	CO01	CAM Entry	21
17	Student Module	Master	SM01	Student Application Manager	20
18	Office Module	Operation	OO305	Holiday Entry	18
19	Feedback Module	Master	FB005	Feed Back	18
20			FB002	Question	16
21		Report	FBR002	Uniquecode Generation	13
22			FB001	Options Creation	13

Bock box control



Block box 3 new (Posted Hour Report)

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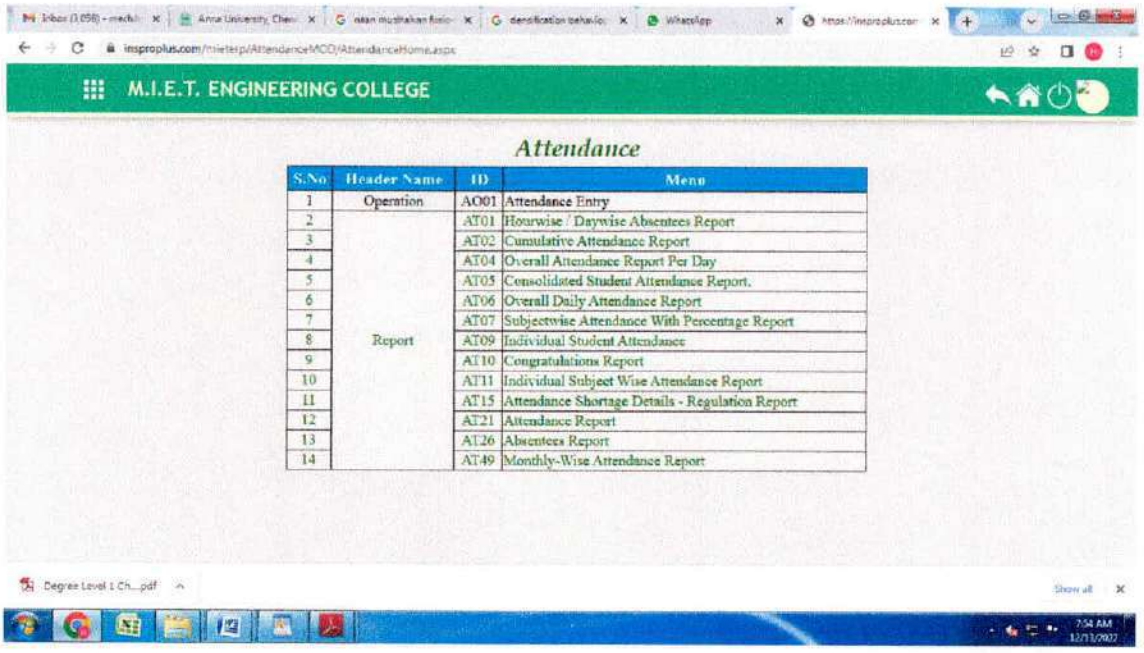
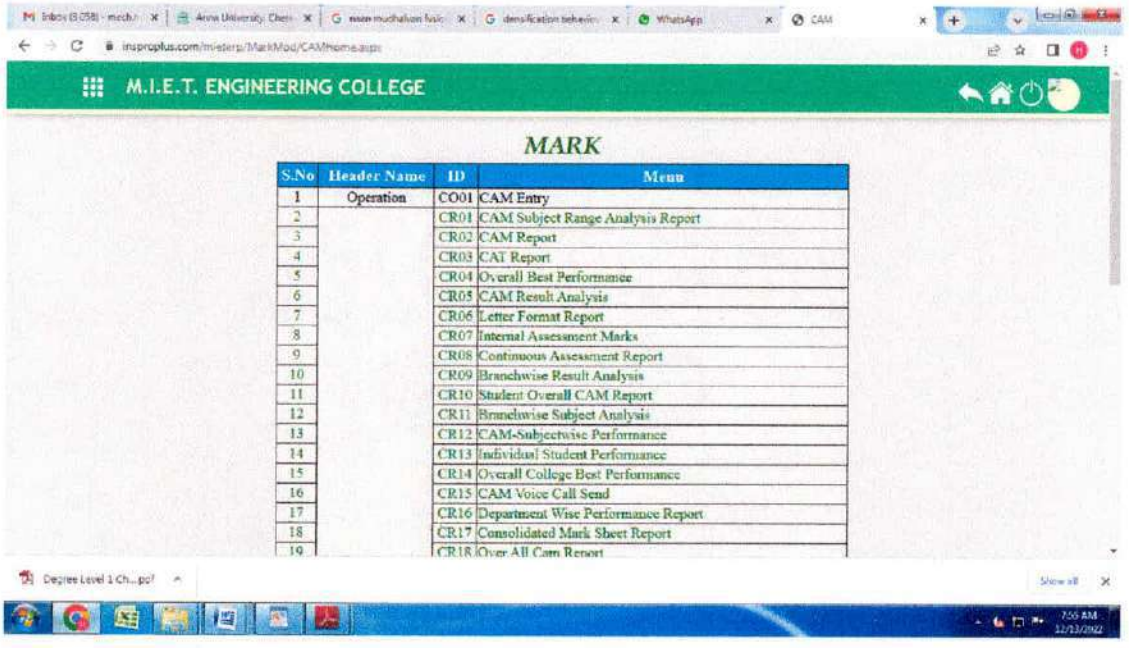


Attendance

S.No	Header Name	ID	Menu
1	Operation	AO01	Attendance Entry
2	Report	AT01	Hourwise / Daywise Absentees Report
3		AT02	Cumulative Attendance Report
4		AT04	Overall Attendance Report Per Day
5		AT05	Consolidated Student Attendance Report.
6		AT06	Overall Daily Attendance Report
7		AT07	Subjectwise Attendance With Percentage Report
8		AT09	Individual Student Attendance
9		AT10	Congratulations Report
10		AT11	Individual Subject Wise Attendance Report
11		AT15	Attendance Shortage Details - Regulation Report
12		AT21	Attendance Report
13		AT26	Absentees Report
14		AT49	Monthly-Wise Attendance Report

Overall attendance report



MARK

S.No	Header Name	ID	Menu
1	Operation	CO01	CAM Entry
2		CR01	CAM Subject Range Analysis Report
3		CR02	CAM Report
4		CR03	CAT Report
5		CR04	Overall Best Performance
6		CR05	CAM Result Analysis
7		CR06	Letter Format Report
8		CR07	Internal Assessment Marks
9		CR08	Continuous Assessment Report
10		CR09	Branchwise Result Analysis
11		CR10	Student Overall CAM Report
12		CR11	Branchwise Subject Analysis
13		CR12	CAM-Subjectwise Performance
14		CR13	Individual Student Performance
15		CR14	Overall College Best Performance
16		CR15	CAM Voice Call Send
17		CR16	Department Wise Performance Report
18		CR17	Consolidated Mark Sheet Report
19		CR18	Over All Cam Report

Overall mark report

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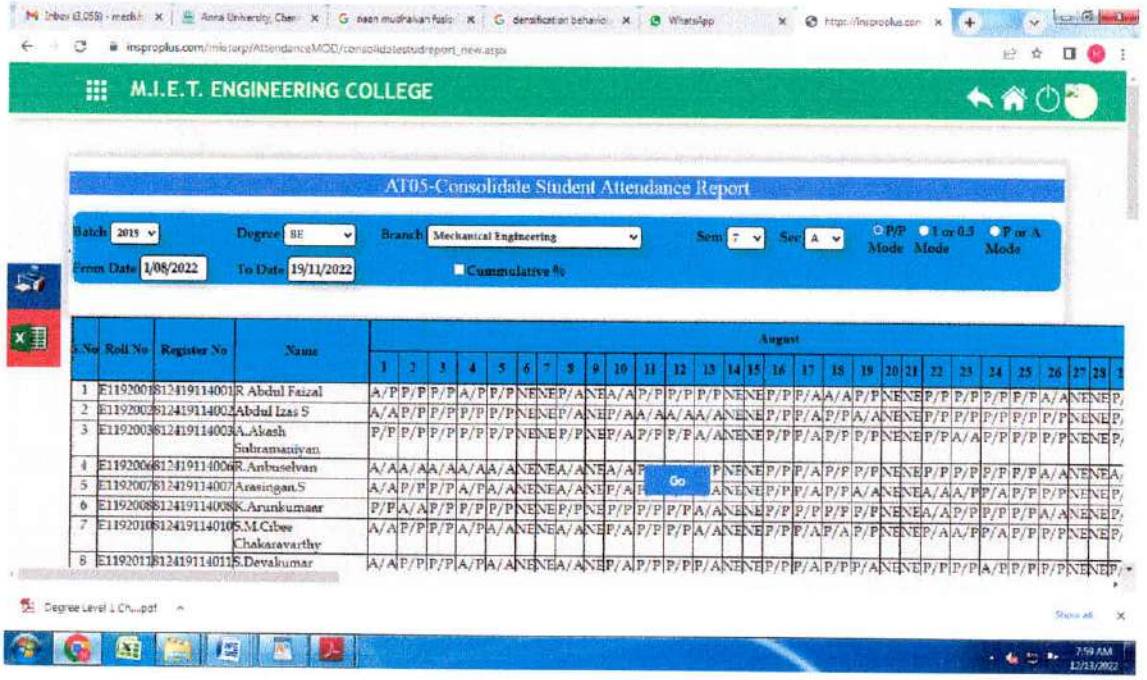
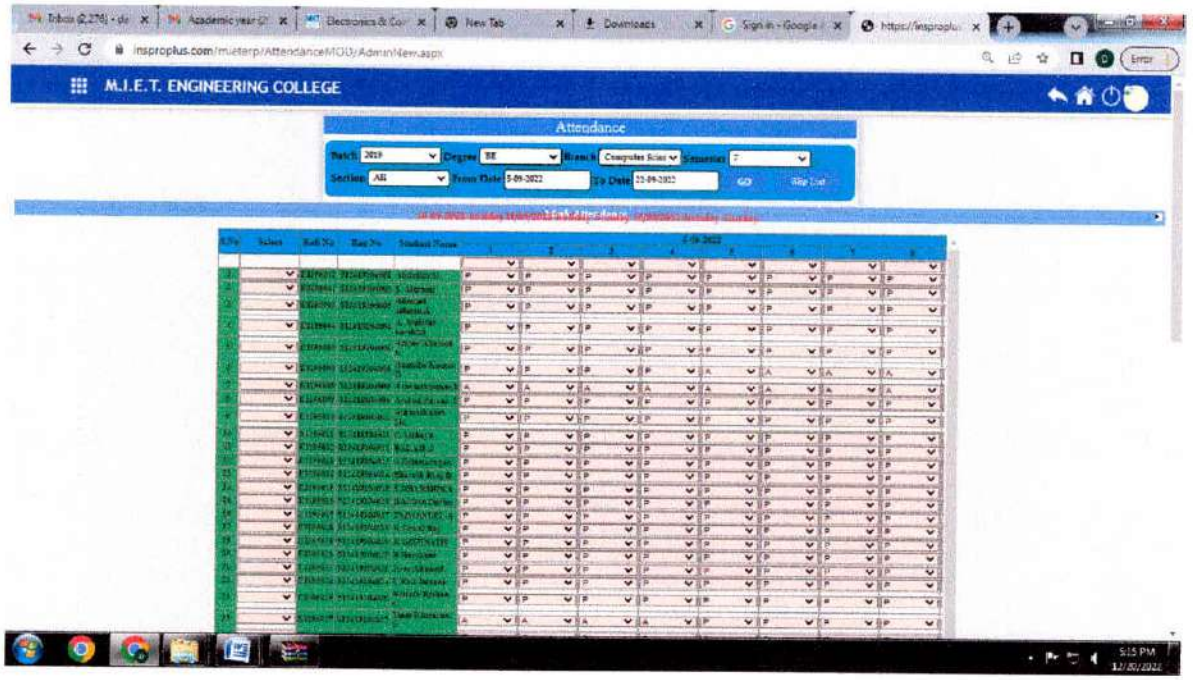
Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu





Attendance for individual students

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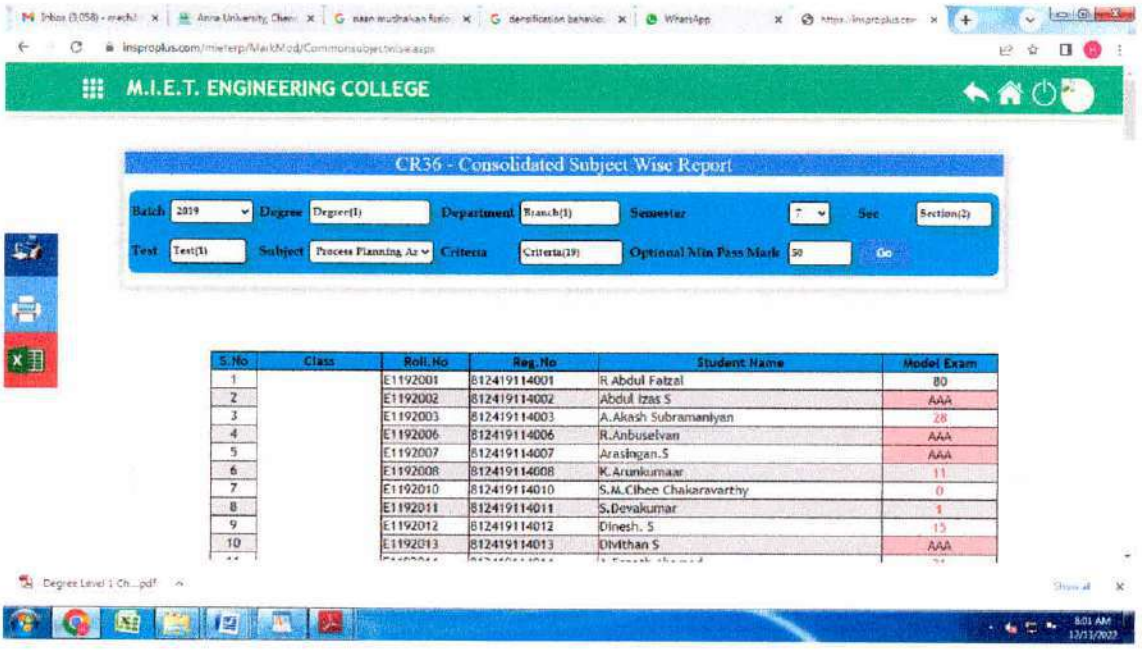
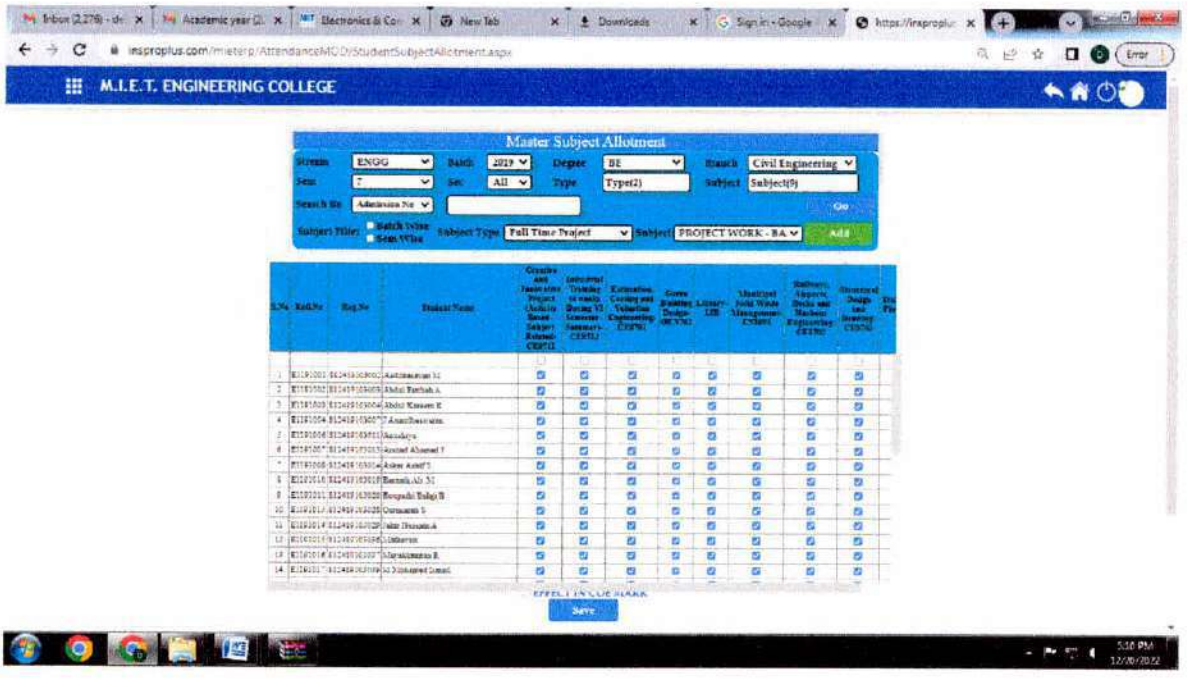


S.No	Class	Roll No	Reg No	Student Name	Model Exam
1		E1192001	812419114001	R.Abdul Faizal	80
2		E1192002	812419114002	Abdul Izas S	AAA
3		E1192003	812419114003	A.Akash Subramaniyan	28
4		E1192006	812419114006	R.Anbuselvan	AAA
5		E1192007	812419114007	Arasingan.S	AAA
6		E1192008	812419114008	K.Arunkumaar	11
7		E1192010	812419114010	S.M.Cibee Chakaravarthy	0
8		E1192011	812419114011	S.Devakumar	1
9		E1192012	812419114012	Dinesh. S	15
10		E1192013	812419114013	Divithan S	AAA

Mark entry for individual students



Master subject allotment

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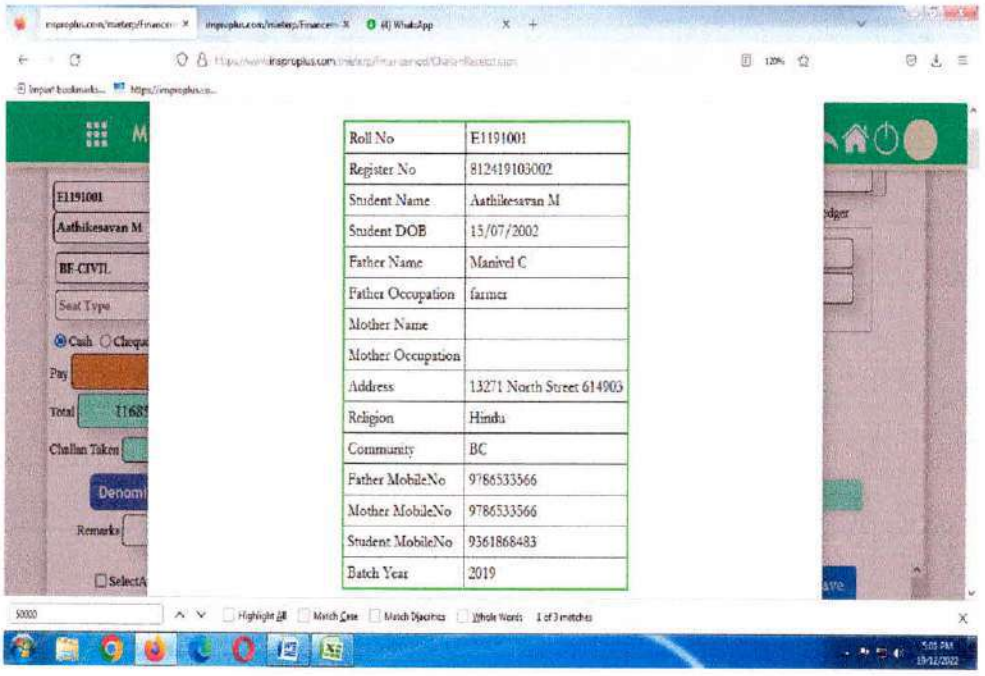
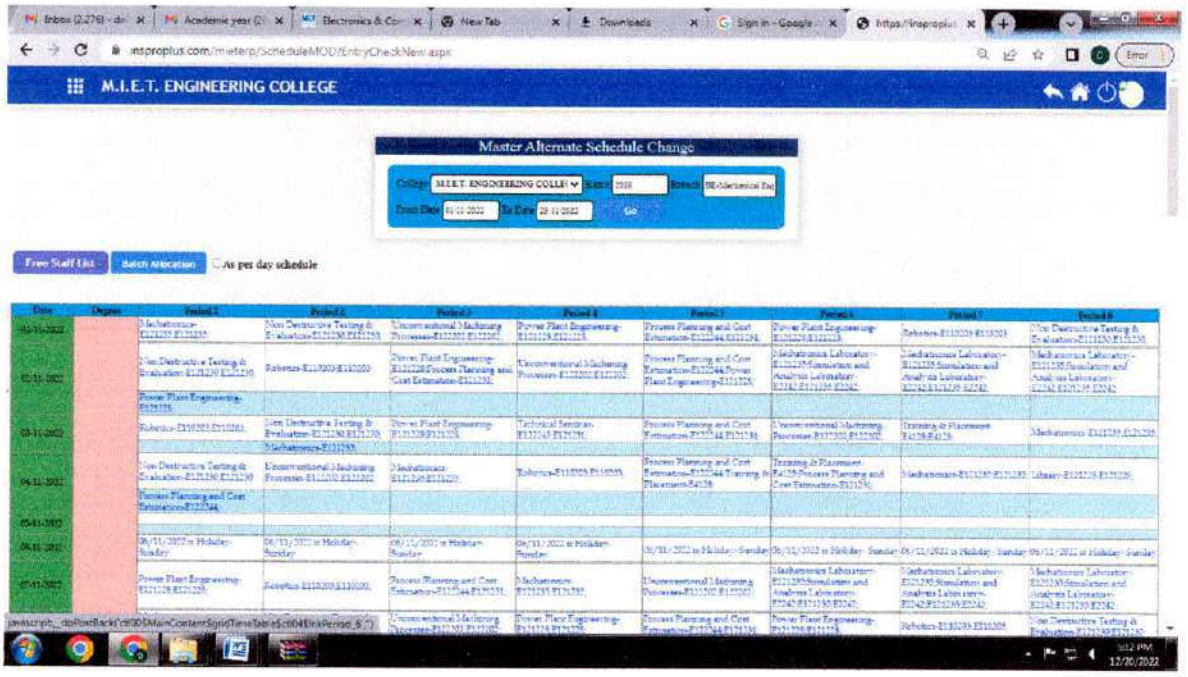
Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu



Roll No	E1191001
Register No	812419103002
Student Name	Aathikesavan M
Student DOB	15/07/2002
Father Name	Manivel C
Father Occupation	farmer
Mother Name	
Mother Occupation	
Address	13271 North Street 614903
Religion	Hindu
Community	BC
Father MobileNo	9786533566
Mother MobileNo	9786533566
Student MobileNo	9361868483
Batch Year	2019

Student personal details



Overall time table

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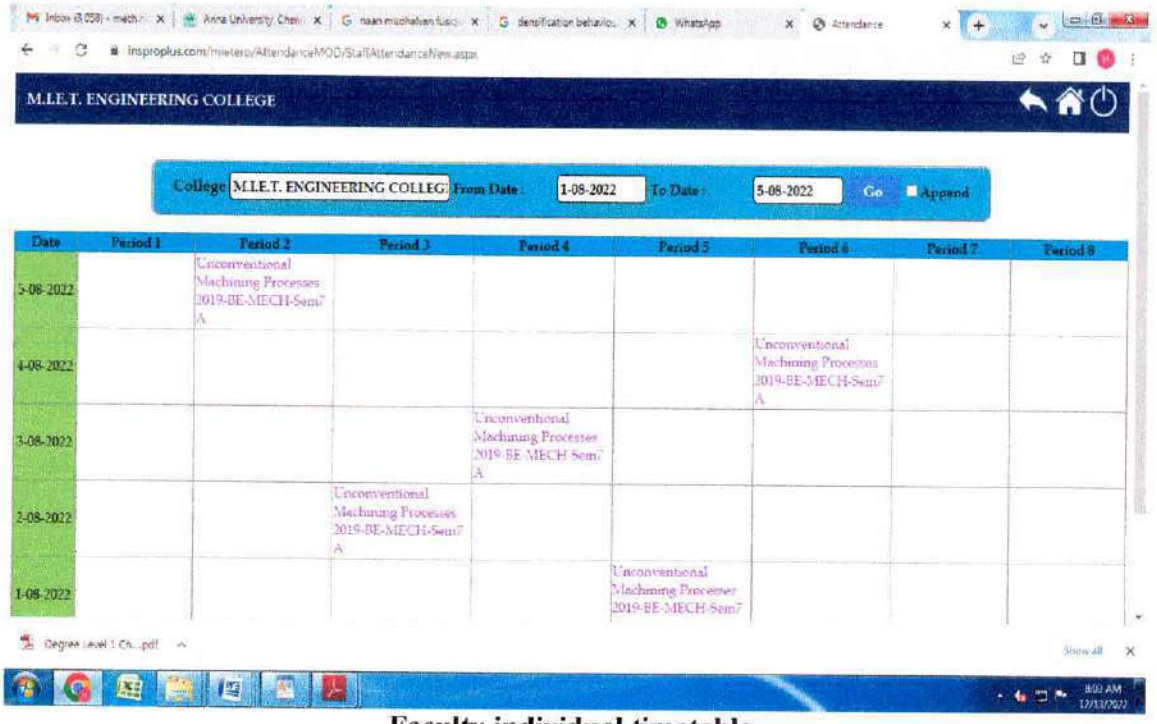
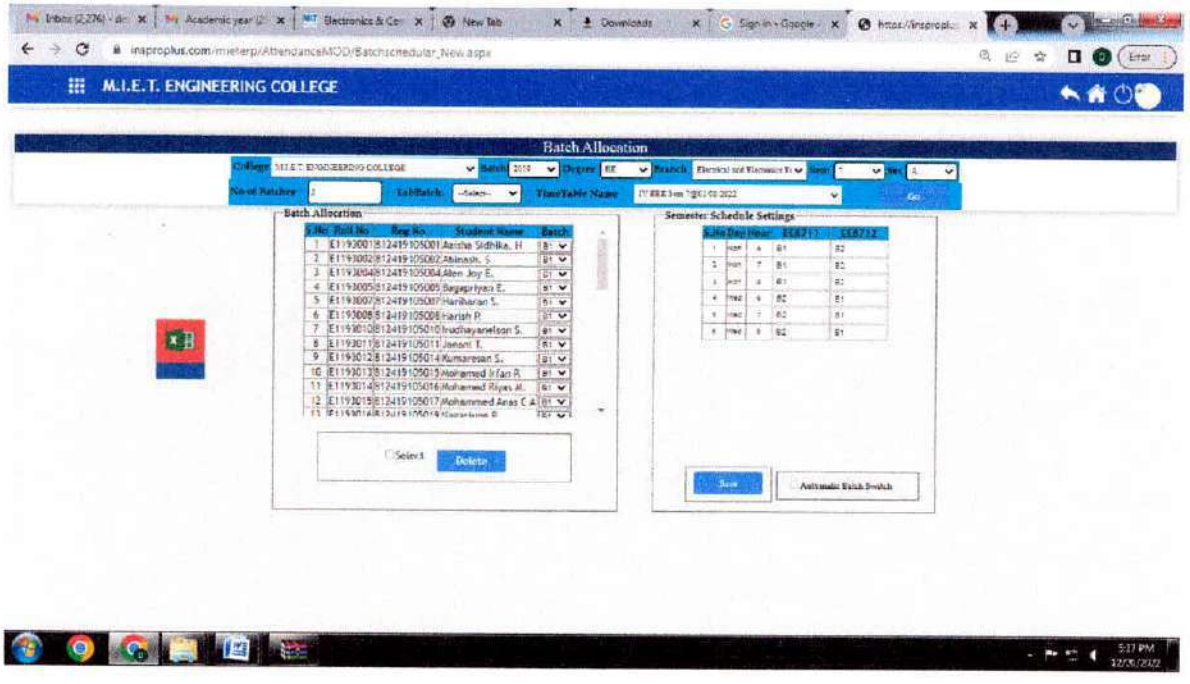


Faculty individual timetable



Students project batch allocation

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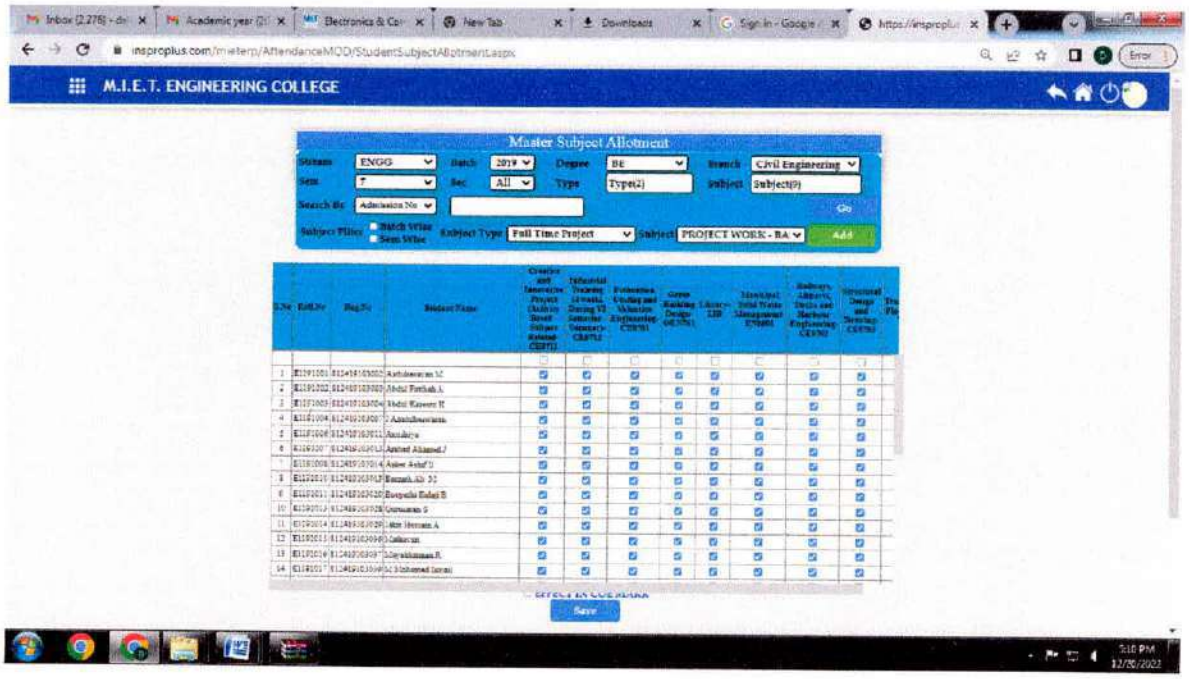

Master subject allotment

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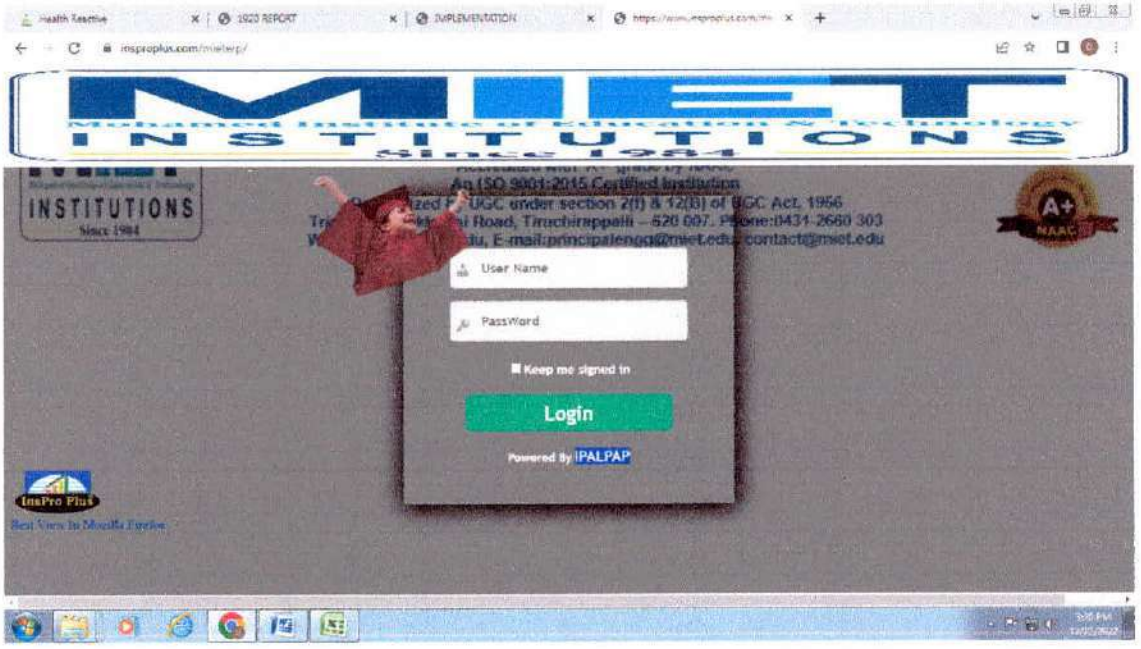
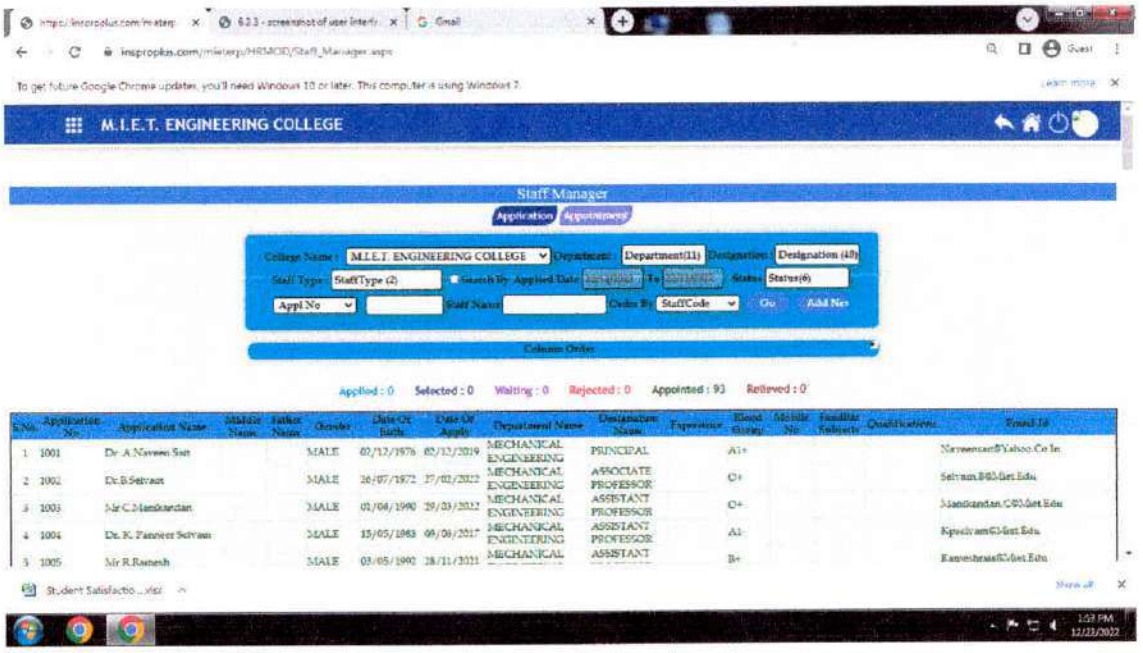
Administration – PALPAP

ERP Login:



Faculty List :



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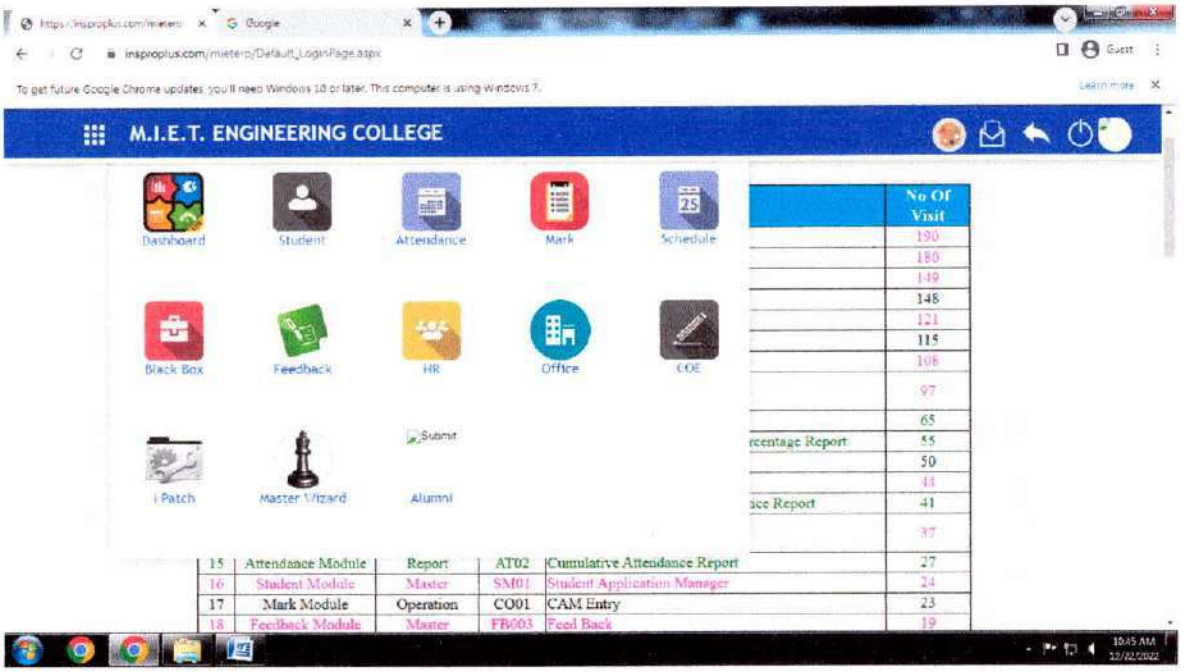
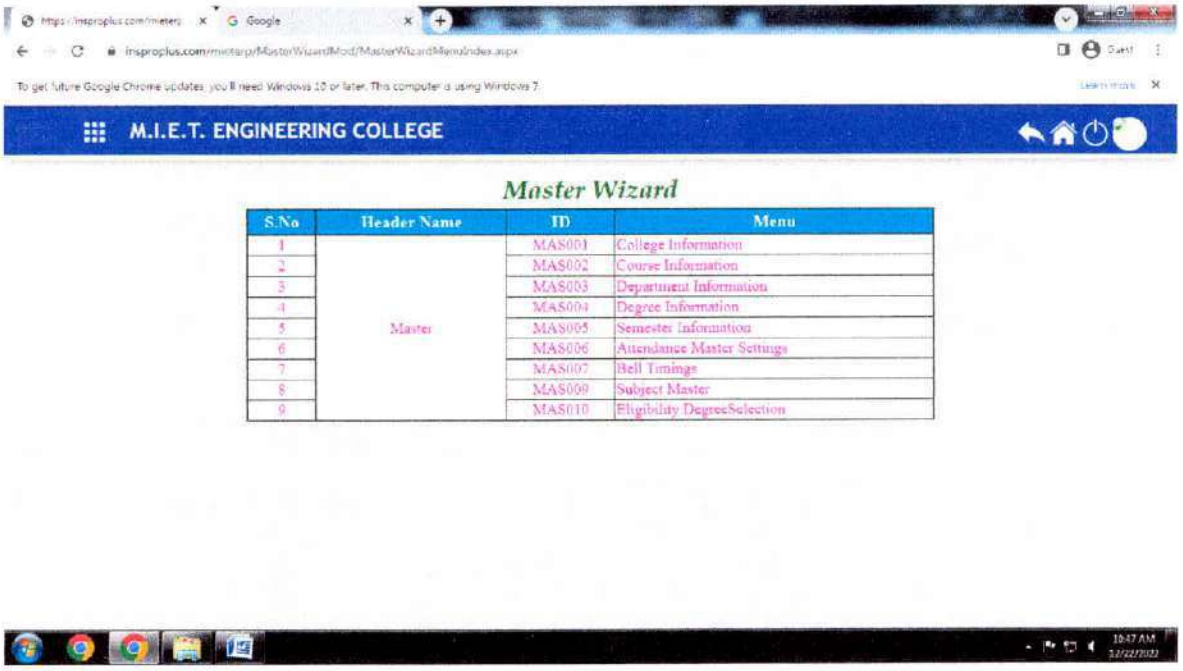
PALPAP Dashboard :



Master Wizard :



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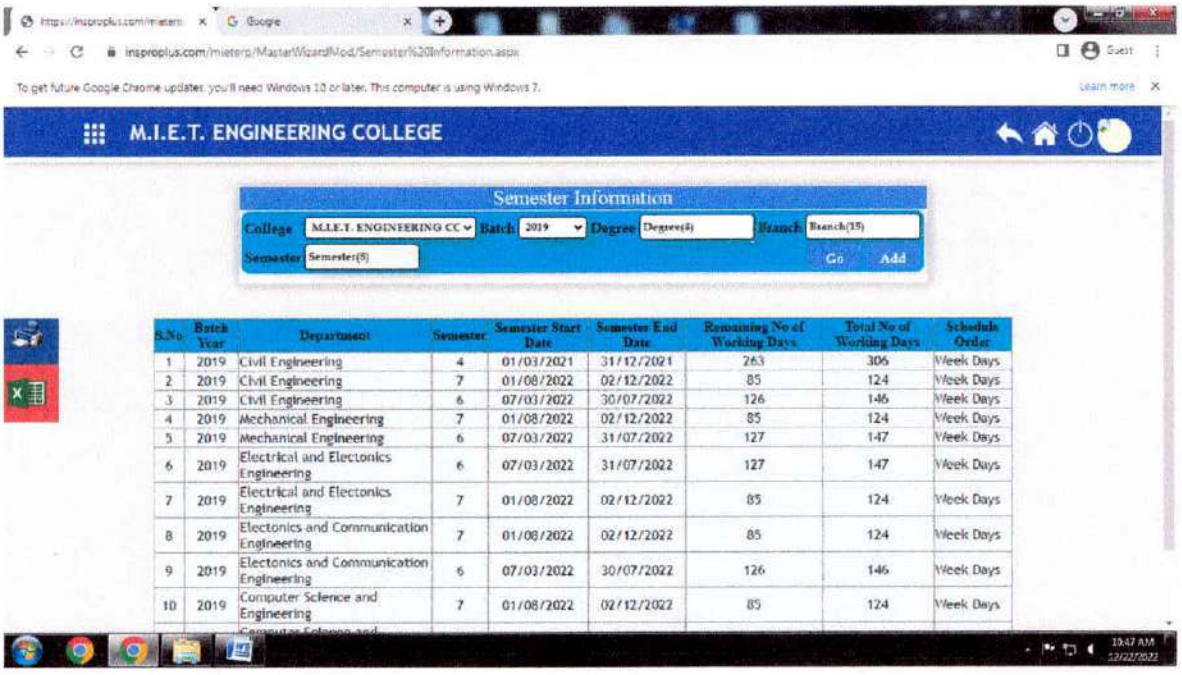
Semester Information :



S.No	Batch Year	Department	Semester	Semester Start Date	Semester End Date	Remaining No of Working Days	Total No of Working Days	Schedule Order
1	2019	Civil Engineering	4	01/03/2021	31/12/2021	263	306	Week Days
2	2019	Civil Engineering	7	01/08/2022	02/12/2022	85	124	Week Days
3	2019	Civil Engineering	6	07/03/2022	30/07/2022	126	146	Week Days
4	2019	Mechanical Engineering	7	01/08/2022	02/12/2022	85	124	Week Days
5	2019	Mechanical Engineering	6	07/03/2022	31/07/2022	127	147	Week Days
6	2019	Electrical and Electonics Engineering	6	07/03/2022	31/07/2022	127	147	Week Days
7	2019	Electrical and Electonics Engineering	7	01/08/2022	02/12/2022	85	124	Week Days
8	2019	Electonics and Communication Engineering	7	01/08/2022	02/12/2022	85	124	Week Days
9	2019	Electonics and Communication Engineering	6	07/03/2022	30/07/2022	126	146	Week Days
10	2019	Computer Science and Engineering	7	01/08/2022	02/12/2022	85	124	Week Days

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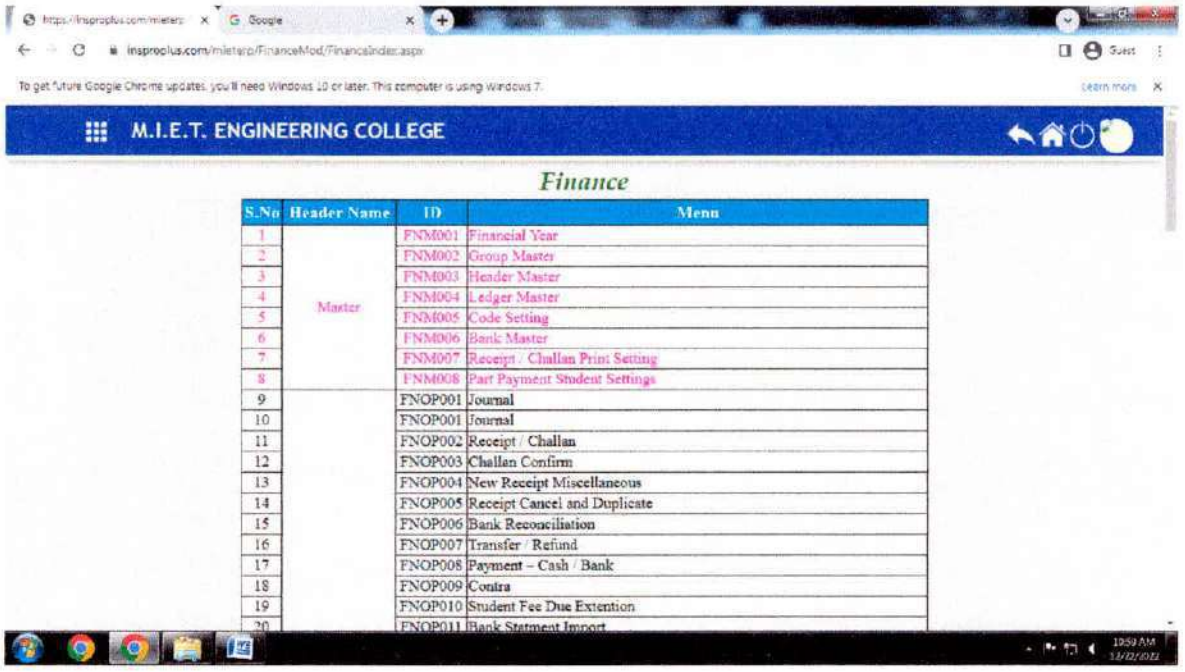
Finance Accounts



Finance

S.No	Header Name	ID	Menu
1	Master	FNM001	Financial Year
2		FNM002	Group Master
3		FNM003	Header Master
4		FNM004	Ledger Master
5		FNM005	Code Setting
6		FNM006	Bank Master
7		FNM007	Receipt / Challan Print Setting
8		FNM008	Part Payment Student Settings
9		FNOP001	Journal
10		FNOP001	Journal
11		FNOP002	Receipt / Challan
12		FNOP003	Challan Confirm
13		FNOP004	New Receipt Miscellaneous
14		FNOP005	Receipt Cancel and Duplicate
15		FNOP006	Bank Reconciliation
16		FNOP007	Transfer / Refund
17		FNOP008	Payment – Cash / Bank
18		FNOP009	Contra
19		FNOP010	Student Fee Due Extention
20		FNOP011	Bank Statment Import

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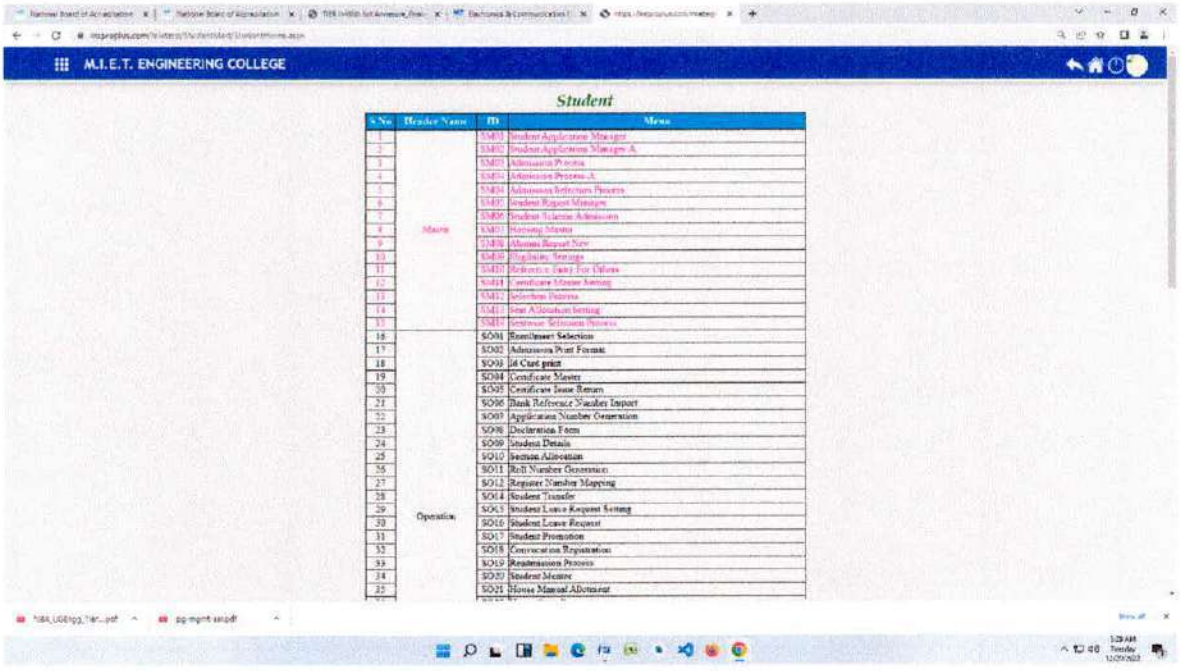
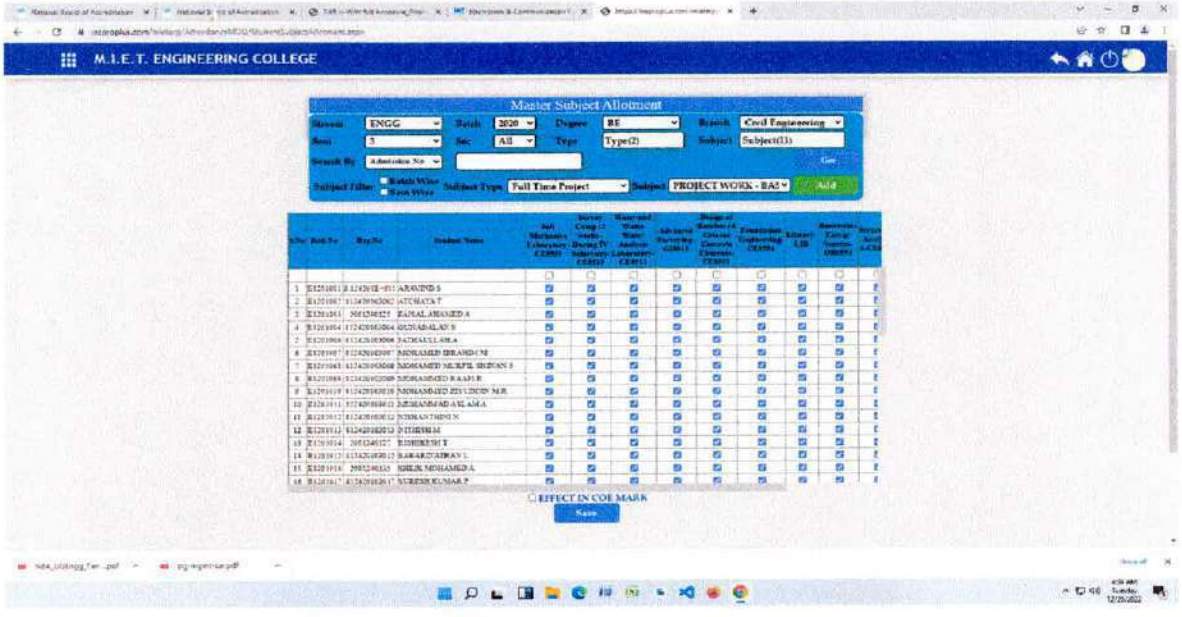
Students Admission and Staff support

Student :



S.No	Header Name	ID	Menu
1	Master	SM01	Student Application Manager
2		SM02	Student Application Manager A
3		SM03	Admission Process
4		SM04	Admission Process A
5		SM05	Admission Selection Process
6		SM06	Student Request Manager
7		SM07	Student Scheme Admission
8		SM08	Hostel Master
9		SM09	Alumni Report New
10		SM10	Eligibility Settings
11		SM11	Reference Entry For Offers
12		SM12	Certificate Master Setting
13		SM13	Selection Process
14		SM14	Seat Allocation Setting
15		SM15	Settlement Selection Process
16	Operation	SO01	Enrollment Selection
17		SO02	Admission Print Format
18		SO03	Id Card print
19		SO04	Certificate Master
20		SO05	Certificate Issue Return
21		SO06	Bank Reference Number Import
22		SO07	Application Number Generation
23		SO08	Declaration Form
24		SO09	Student Details
25		SO10	Section Allocation
26		SO11	Roll Number Generation
27		SO12	Register Number Mapping
28		SO14	Student Transfer
29		SO15	Student Leave Request Setting
30		SO16	Student Leave Request
31		SO17	Student Promotion
32		SO18	Convocation Registration
33		SO19	Readmission Process
34		SO20	Student Mentor
35		SO21	Hostel Manual Allotment

Subject Allocation:



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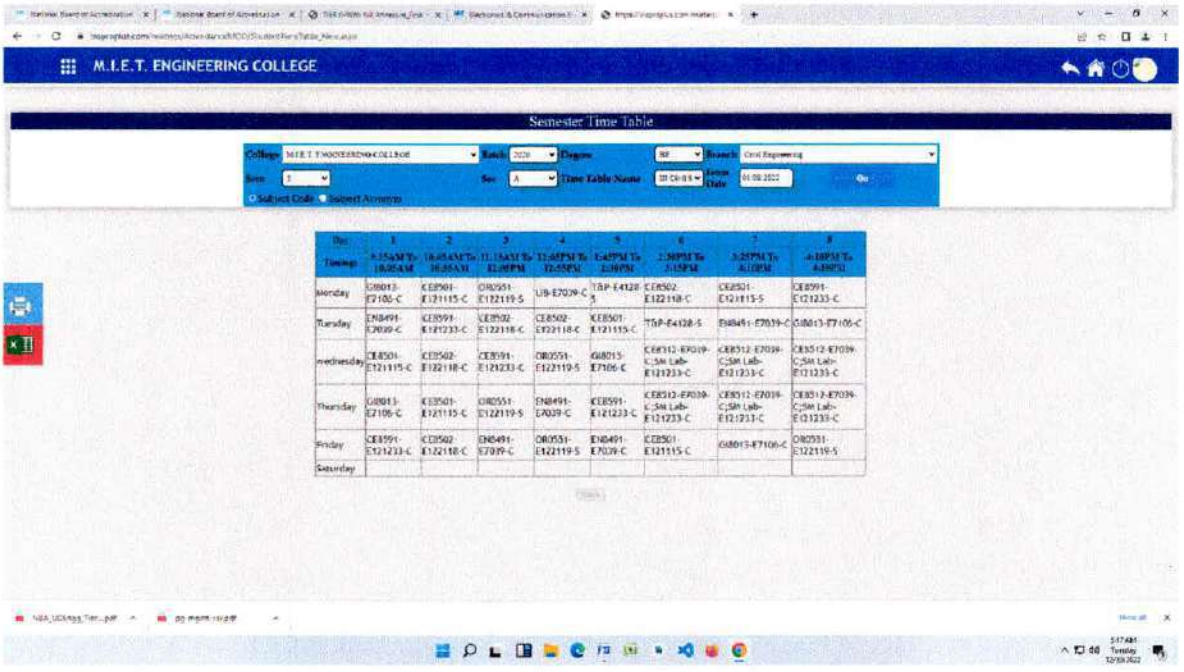
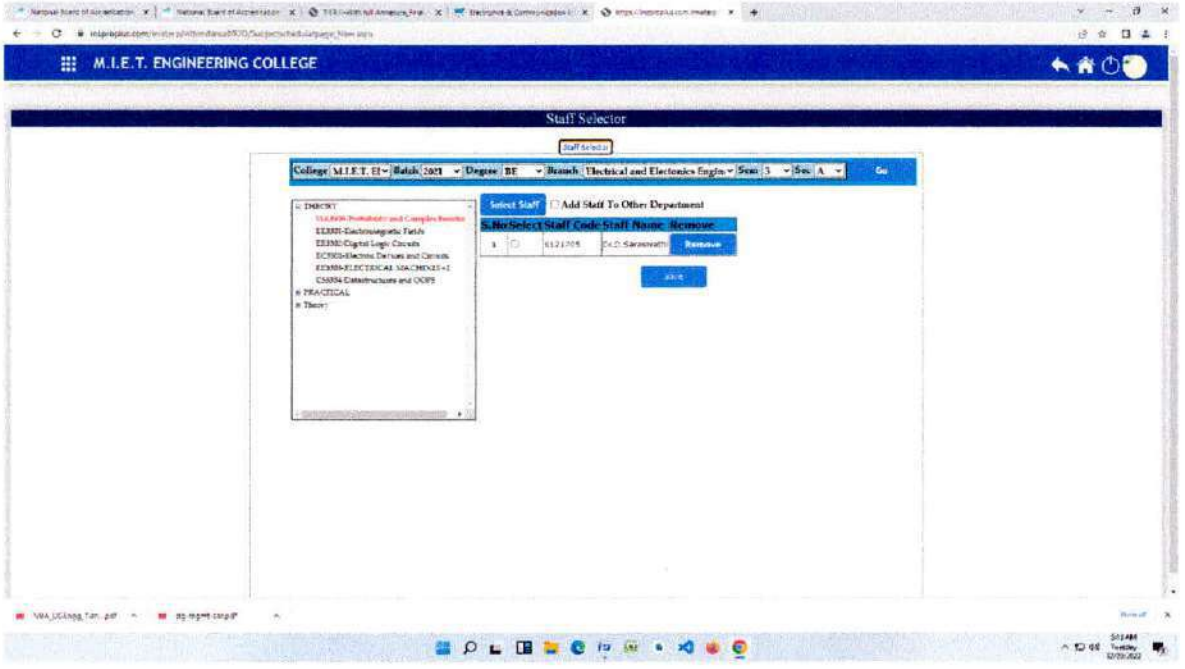
Semester Timetable:



Staff Selector :



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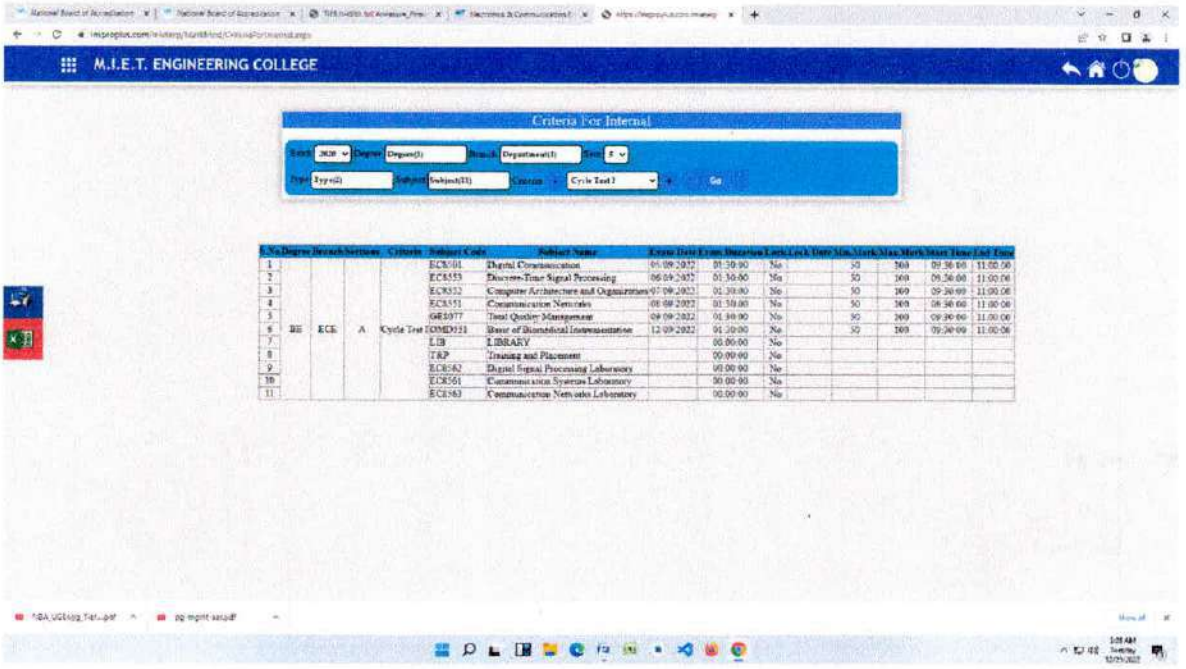
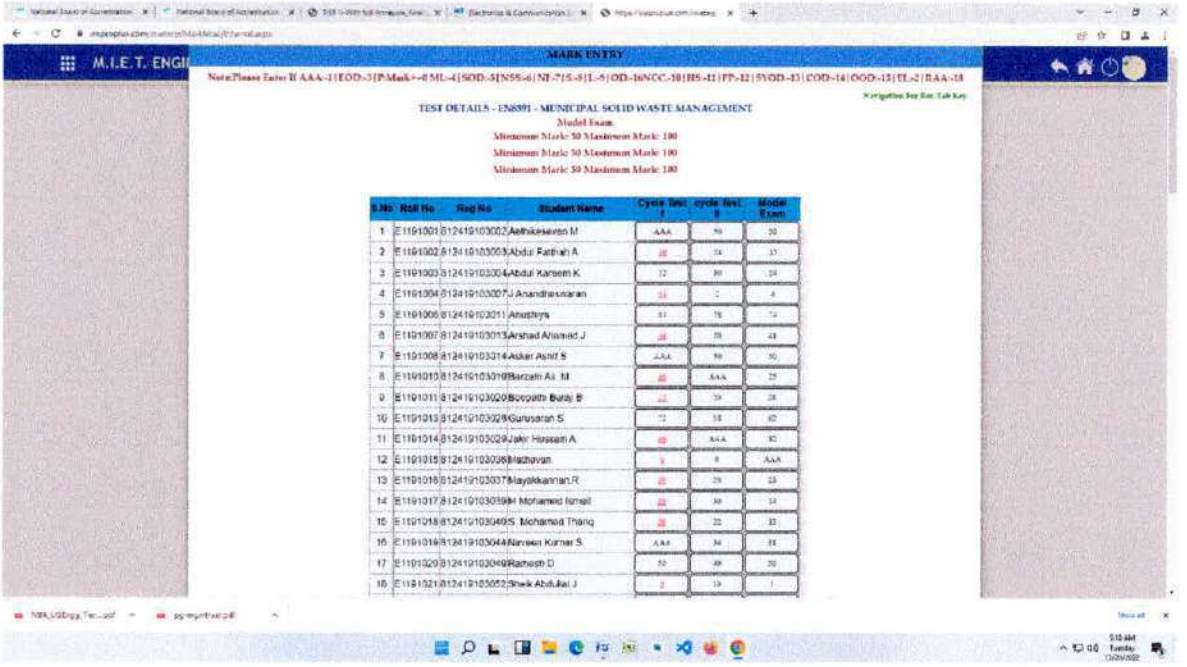
Examinations

Exam Time Table :



S.No	Degree	Branch	Sections	Criteria	Subject Code	Subject Name	Exam Date	Exam Duration	Lock	Lock Date	Min.Mark	Max.Mark	Start Time	End Time
1					ECS501	Digital Communication	06/09/2022	01:30:00	No		50	100	09:30:00	11:00:00
2					ECS553	Discrete-Time Signal Processing	06/09/2022	01:30:00	No		50	100	09:30:00	11:00:00
3					ECS552	Computer Architecture and Organization	07/09/2022	01:30:00	No		50	100	09:30:00	11:00:00
4					ECS551	Communication Networks	08/09/2022	01:30:00	No		50	100	09:30:00	11:00:00
5					GES577	Total Quality Management	09/09/2022	01:30:00	No		50	100	09:30:00	11:00:00
6	BE	ECE	A	Cycle Test 1	OMD933	Basic of Biomedical Instrumentation	12/09/2022	01:30:00	No		50	100	09:30:00	11:00:00
7					LIB	LIBRARY		00:00:00	No					
8					TRP	Training and Placement		00:00:00	No					
9					ECE562	Digital Signal Processing Laboratory		00:00:00	No					
10					ECE561	Communication Systems Laboratory		00:00:00	No					
11					ECE563	Communication Networks Laboratory		00:00:00	No					

Internal Assessment Entry:



S.No	Roll No	Reg No	Student Name	Cycle Test 1	cycle Test 2	Model Exam
1	E1191001	812419103002	Aathikeseven M	AAA	56	50
2	E1191002	812419103003	Abdul Rathan A	48	58	55
3	E1191003	812419103004	Abdul Kareem K	72	89	84
4	E1191004	812419103007	J.Anandhiesvaran	34	2	4
5	E1191006	812419103011	Anushiya	81	78	74
6	E1191007	812419103013	Arshad Ahamed J	48	58	48
7	E1191008	812419103014	Askar Ashif S	AAA	89	90
8	E1191010	812419103019	Barzath Ali M	48	AAA	55
9	E1191011	812419103020	Boopathi Balaji B	44	59	58
10	E1191013	812419103028	Gunasaran S	72	58	62
11	E1191014	812419103029	Jakir Hussain A	48	AAA	92
12	E1191015	812419103036	Mathivan	8	8	AAA
13	E1191016	812419103037	Mayakkannan.R	48	58	58
14	E1191017	812419103039	M Mohamed Ismail	48	89	84
15	E1191018	812419103040	S. Mohamed Thariq	48	52	82
16	E1191019	812419103044	Naveen Kumar S	AAA	84	88
17	E1191029	812419103049	Rakesh D	59	89	90
18	E1191021	812419103052	Sheik Abdullai J	8	14	4

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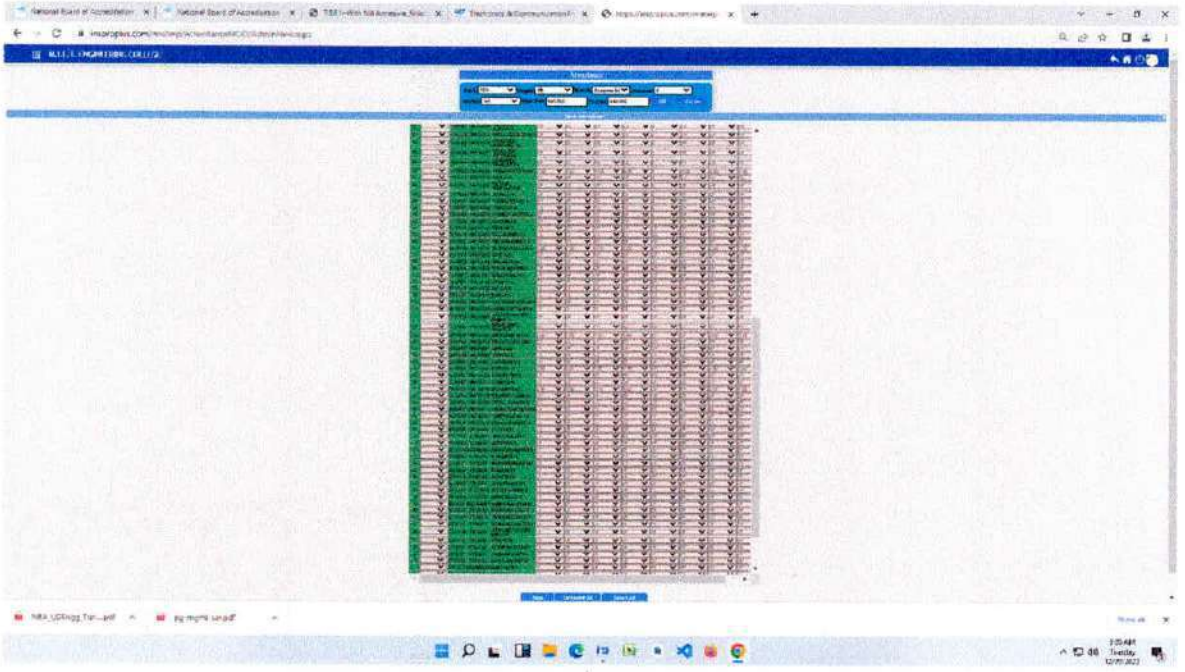
Student Day Attendance Entry :



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iPALPAP

iPALPAP SOFTWARE PVT. LTD
Palpap Towers "A 3/17, GST Road, St. Thomas Mount,
Chennai – 600 016.
Phone : 91 – 44 – 45410579 Mobile : 99625-90209
E-Mail : kumar@ipalpap.com Website : www.ipalpap.com

Invoice

To	Invoice No#	iPSPL/Inspro/Inv-2022/04/002
The Chairman, MIET Engineering College Pudukkottai Road Tiruchirappalli – 620 007	Date:	07.07.2022

S.No	Module Name	Total Cost
	Annual Maintenance, Support, Service for Supply and Implementation of InsProPlus ERP Version 6.1(Enterprise Edition) For the Academic Year 2022-2023 [Total Student 3792 @ Rs.50 per Student]	1,89,600
	GST 18%	34,128
Two lakh Twenty Three Thousand Seven Hundred and Twenty Eight Only Rs		2,23,728

Cheque No
Date

For iPalpap Software Pvt Ltd

Authorized Signatory

Note:
1. PAN No. AAFCI0676N
2. Incase of any discrepancies, the same is to be reported within 7 days from the date of this invoice.
3. Payment to be transferred to Company Account
Account: IPALPAP SOFTWARE PRIVATE LIMITED
Account Number: 50200037325595
IFSC: HDFC0000052
Branch: NUNGAMBAKKAM
4. Subject to Chennai jurisdiction only

158828
NEFT 15

Existing Strength (2022-23) Except I year (58843.

Engg: 1033 × Rs.50 : 51,650 × 9.297 : 60,947 ✓
Arts: 1079 × Rs.50 : 53,950 × 9.711 : 63,661 ✓
Poly: 580 × Rs.50 : 29,000 × 3.229 : 34,220 ✓
2692 × 50/- 1,34,600 ✓ TR. Finalcopy.
GST 18% 24,228
1,58,828 ✓ (EDP I/c)

Bill For ERP Software Purchased From IPALPAP

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M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007.

M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi
Accredited with 'A+' grade by NAAC
An ISO 9001:2015 Certified Institution
Recognized by UGC under section 2(f) & 12(B) of UGC Act, 1956
Trichy – Pudukkottai Road, Tiruchirappalli – 620 007. Phone:0431-2660 303
Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu

iPALPAP SOFTWARE PVT. LTD
"Palpap Towers "# 3/17, GST Road, St. Thomas Mount,
Chennai – 600 016.
Phone : 91 – 44 – 45410579 Mobile : 99625-90209
E-Mail : kumar@ipalpap.com Website : www.ipalpap.com

Invoice

To	Inv Nos	PISIL/itepro/Inv-2022/07/05
The Chairman, M.I.E.T. Group of Institutions Trichy	Date Ref No	8th July 2022

Payment towards Supply and Implementation of Internet Services - **Cloud Server** (Enterprise Edition) with below shared specifications Octa Dual Core E5 2620v4 (32vCPUs) RAM : 128 GB DDR4 Hardisk : 1 tb X 2 SSD Ip address: 1 IP Bandwidth : 5 TB, 1 Gbps port Windows Server Standard 2016 R2 SQL Server Database User ID and Password	60,000/- Per Annum
GST 18%	10,800
Total	70,800

Seventy Thousand and Eight Hundred Rupees Only

Note:
1. PAN No. AAFCI0676N
2. Incase of any discrepancies, the same is to be reported within 7 days from the date of this invoice.
3. Payment to be transferred to Company Account
Account: IPALPAP SOFTWARE PRIVATE LIMITED
Account Number: 50200037325595
IFSC: HDFC0000083
Branch: NUNGAMBAKKAM
4. Subject to Chennai jurisdiction only

For iPalpap Software Pvt Ltd

Verified
CSE H/c

Bill for SQL server Database

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TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 – 2660 303

Content Beyond the Laboratory Syllabus

- To create learning environments that are inclusive, diverse, and engage all types of learners, we provide the students with learning opportunities that extend beyond the laboratory syllabus.
- This is key to supporting and enhancing the learner experience and achieving positive educational outcomes for students.
- By extending learning beyond the syllabus of a laboratory, our institution provides the platform and learning opportunities for students to empower themselves with practical knowledge.

Key Impact of beyond the laboratory syllabus

- Expand student's access to resources outside of the curriculum.
- It will be more engaging and provide meaningful and relevant real time experiential learning.
- It provides inclusive and individualized learning opportunities.
- Stimulate the students academically and creatively and help them to develop new skills.
- Equip students for immediate and future success in employment and participation in the rapidly changing workplace.

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Department of Electrical and Electronics Engineering

Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
1.	GE8261 - ENGINEERING PRACTICES LABORATORY	1. V-I Characteristics of Incandescent lamp 2. Measurement of single phase power by using three ammeter method
2.	EE8261 - ELECTRIC CIRCUITS LABORATORY	3. Verification of Millman"s theorem 4. Determination of two – port network parameters
3.	EC8311 - ELECTRONICS LABORATORY	1. Class b push –pull amplifier 2. Characteristics of Thermistor
4.	EE8311 - ELECTRICAL MACHINES LABORATORY – I	1. Testing an armature using growler 2. Retardation test on dc shunt motor
5.	EE8411 - ELECTRICAL MACHINES LABORATORY – II	1. Synchronizing an Alternator 2. Measurement of negative sequence and zero sequence impedance Of an alternator
6.	EE8461 - LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	**VIRTUAL LAB** 1. Inverting Amplifier 2. Adder
7.	EE8511 - CONTROL AND INSTRUMENTATION LABORATORY	1. Temperature control system using PID 2. Level control system
8.	CS8383 - OBJECT ORIENTED PROGRAMMING LABORATORY	1. Java Program to define a class, describe its constructor, overload the Constructors and instantiate its object. 2. Write a Java program to find the maximum and minimum value of an array.
9.	EE8661 - POWER ELECTRONICS AND DRIVES LABORATORY	1. Electronic phase converters 2. MATLAB/SIMULINK model of Single Phase to Three Phase Variable Voltage Power Converter
10.	EE8681 - MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	1. Introduction TO 8086 Microprocessor 2. Write program using 8086 for copying 12 bytes of data from source to destination

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Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu
Ph: 0431 – 2660 303

Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
11.	EE8711-POWER SYSTEM SIMULATION LABORATORY	1. Study of overload security analysis and obtain results for the given problem using MATLAB or any software 2. Load Flow Analysis using Fast Decoupled (FD) Method
12.	EE8712 - RENEWABLE ENERGY SYSTEMS LABORATORY	1. Production of Biogas using Biomass Waste 2. Study of Bio-Diesel Reactor.

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Department of Mechanical Engineering

Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
1.	GE8261 - ENGINEERING PRACTICES LABORATORY	1. Conducting experiment on Knurling, Thread Cutting operations in Center Lathe machine. 2. Conducting experiment on shaper machine.
2.	ME8361 MANUFACTURING TECHNOLOGY LABORATORY - I	1. Machining Time estimation for Slotting operation in Slotter machine. 2. Making of Dove Tail slot using Shaper.
3.	ME8381 - COMPUTER AIDED MACHINE DRAWING	1. Drawing of Isometric projection of simple objects. 2. Crank Shaft and Cam Shaft.
4.	ME8462 - MANUFACTURING TECHNOLOGY LABORATORY – II	1. Demonstration of Capstan Lathe and it operations. 2. Demonstration of Turret Lathe and it operations.
5.	CE8381 - STRENGTH OF MATERIALS AND FLUID MECHANICS AND MACHINERY	1. Calculation of the rate of flow in flow through notches. 2. Conducting and proving the Bernouli's Theorem.
6.	ME8511 - KINEMATICS AND DYNAMICS LABORATORY	1. Experimental Estimation of the Moment of Inertia of a Connecting Rod by Means of the Pendulum Method. 2. Detail demonstration and working principle of automobile differential mechanism and its parts.
7.	ME8512 - THERMAL ENGINEERING LABORATORY	1. Determination of Viscosity of a given sample using Redwood's Viscometer. 2. Conducting experiments and drawing the characteristic curves of a Blower.
8.	ME8513 - METROLOGY AND MEASUREMENTS LABORATORY	1. Measurement of angles using sine centre 2. Measurement of Displacement using LVDT

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Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
9.	ME8681 - CAD / CAM LABORATORY	1. Assembly of Engine components. 2. Assembly of Crane Hook.
10.	ME8711 - SIMULATION AND ANALYSIS LABORATORY	1. Thermal Stress and Hear transfer analysis of a Liquid using ANSYS-Fluent.
11.	ME8781 - MECHATRONICS LABORATORY	1. ADC and DAC Interface. 2. Serial Communication using 8251.
12.	MF5111 - CAD / CAM LABORATORY	1. Analysis of Geometric Tolerance and manufacturing variation on product designs using 3D Software. 2. Modeling & simulation of hot forging / orthogonal machining / cold rolling operation / milling operation using a FEA package.
13.	MF5211 - AUTOMATION AND METAL FORMING LABORATORY	1. One shot and regenerative pneumatic circuits. 2. Sequencing of pneumatic circuits. 3. To compare the ladder diagram for electrical and PLC control for the given sequence.

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Department of Computer Science and Engineering

Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
1.	GE8161 – PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	1. Convert the given number celsius to fahrenheit and vice versa. 2. Check whether the given number is positive or negative. 3. Find the factorial of a given number. 4. Find the reverse of the given number. 5. Check whether the given number is palindrome or not. 6. Find the number of vowels in a string.
2.	CS8261 – C PROGRAMMING LABORATORY	1. Finding string length without using <string.h>. 2. Print even or odd without using conditional statements. 3. Addition of two numbers without using any operator.
3.	CS8381 – DATA STRUCTURES LABORATORY	1. Implementation of doubly linked list. 2. Rotate a linked list in counter clock wise.
4.	CS8383 – OBJECT ORIENTED PROGRAMMING LABORATORY	1. Java Program to define a class, describe its constructor, overload the Constructors and instantiate its object. 2. Write a Java program to find the maximum and minimum value of an array. 3. Write a static method `max()` that takes three `int` arguments and returns the value of the largest one. Add an overloaded function that does the same thing with three `double` values. 4. To write a program to perform arithmetic operations using static members.
5.	CS8382 – DIGITAL SYSTEMS LABORATORY	1. Designing with D-Flip flops: Shift Register and Sequence Counter for digital communication. 2. Designing with D-Flip flops: Shift

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Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
		Register and Sequence Counter. 3. Simulation of ripple carry adder using HDL.
6.	CS8481 –DATABASE MANAGEMENT SYSTEMS LABORATORY	1. Implementation Web query optimization. 2. Study about Web mining application tools.
7.	CS8461 – OPERATING SYSTEMS LABORATORY	1. Dead lock prevention algorithm for Multiple Resources. 2. Page Replacement Algorithm (Optimal)
8.	EC8681 – MICROPROCESSORAND MICROCONTROLLER LABORATORY	1. Demonstration of basic instructions with 8051 Micro controller execution, including: (i) Conditional jumps, looping (ii) Calling subroutines. 2. Parallel Communication between Two Microprocessors using 8255. 3. Data transfer from peripheral to memory through DMA controller 8237/8257. 4. Branching operations and logical operations in a given data.
9.	CS8582 – OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY	**SUGGESTED DOMAINS FOR MINI-PROJECT:** 1. Passport automation system. 2. Book bank 3. Exam registration 4. Stock maintenance system. 5. Online course reservation system 6. Airline/Railway reservation system 7. Software personnel management system 8. Credit card processing 9. e-book management system 10. Recruitment system 11. Foreign trading system

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Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
		12. Conference management system 13. BPO management system 14. Library management system 15. Student information system
10.	CS8581 - NETWORKS LABORATORY	1. Write a C program to capture packets and filter using raw sockets. 2. Cable crimping with RJ45 connector. 3. Study of Campus Network.
11.	CS8661-INTERNET PROGRAMMING LABORATORY	1. Implementation of Airline and Travel agent application using web services. 2. Create a simple visual bean with an area filled with a color.
12.	CS8662 – MOBILE APPLICATION DEVELOPMENT LABORATORY	1. Android Application that creates Alarm Clock
13.	CS8711- CLOUD COMPUTING LABORATORY	1. Find procedure to install storage controller and interact with it. 2. Write a program to use the API's of Hadoop to interact with it.
14.	IT8761- SECURITY LABORATORY	1. Perform Encryption and Decryption using functional encryption (FE) technique 2.Study of failure of cryptography. (i) Cryptanalysis (ii) Attacks

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Website: - www.miet.edu

Ph: 0431 – 2660 303

Department of Electronics and Communication Engineering

Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
1.	EC8261- CIRCUIT AND DEVICES LABORATORY	1. Study of UJT characteristic
2.	EC836-ANALOG AND DIGITAL CIRCUITS LABORATORY	1. Study of Op-Amp IC741. 2. Application of Op-Amp
3.	EC8461- CIRCUITS DESIGN AND SIMULATION LABORATORY	1. Design of Monostable multivibrator with emitter timing and base timing. 2. Simulation using spice (Transistor) Astable multivibrator.
4.	EC8462- LINEAR INTEGRATED CIRCUITS LABORATORY	1. AM Modulator and Demodulator 2. FM Modulator and Demodulator
5.	EC8562 -DIGITAL SIGNAL PROCESSSING LABORATRY	3. Design a Histogram Equalization Using Matlab Program 4. Simulate the Modulation Technique
6.	EC8561 - COMMUNICATION SYSTEMS LABORATORY	5. Analog and Digital Modulated Signal generators using COMM-SIM. 6. Design and analysis of Frequency Multiplier circuit.
7.	EC8681- MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	3. Introduction to KEIL μ vision 4. Serial Transmission from PC to 8051uc
8.	EC8661-VLSI DESIGN LABORATORY	1. Design and simulate of 5 bit multiplier in Xilinx software
9.	EC8761- ADVANCED COMMUNICATION LABORATORY	1. Radiation pattern Measurement of Parabolic Reflector Antenna
10.	EC8711-EMBEDDED LABORATORY	1. Interface a LED matrix and display a number on the matrix. 2. Interrupt driven data transfer from ADC.

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Sl.No	Laboratory Name	Additional Experiments Beyond the Syllabus
		3. Program to demonstrate Time delay program using built in Timer/Control.
11.	VL5111- VLSI DESIGN LABORATORY I	7. Study of convolutional encoder designing in xilinx software
12.	VL5112- VLSI DESIGN LABORATORY II	1. Study of image processing in xilinx software

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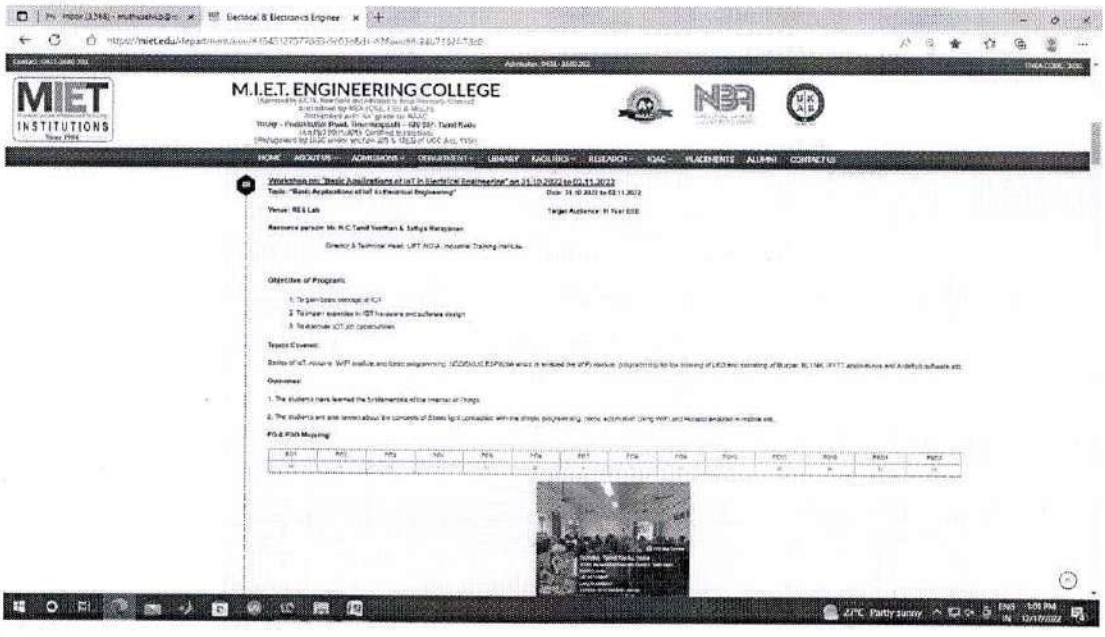
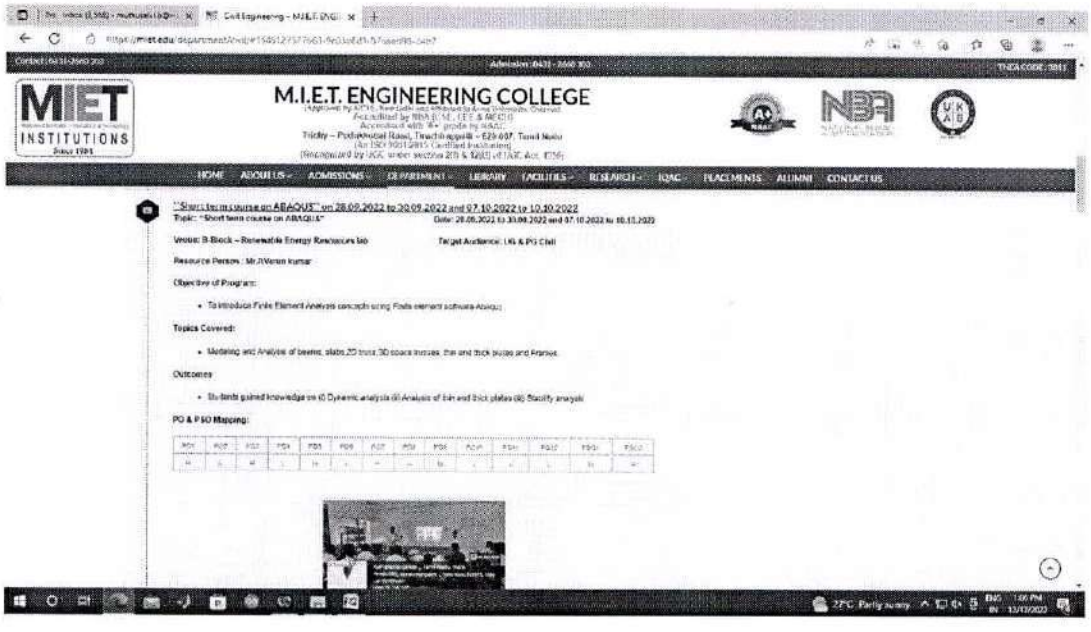
Website Screen Shot of Skill Enhancement Training Program



Workshop on: "Basic Applications of IoT in Electrical Engineering" on 31.10.2022 to 2.11.2022



Short term course on ABAQUS`` on 28.09.2022 to 30.09.2022 and 07.10.2022 to 10.10.2022

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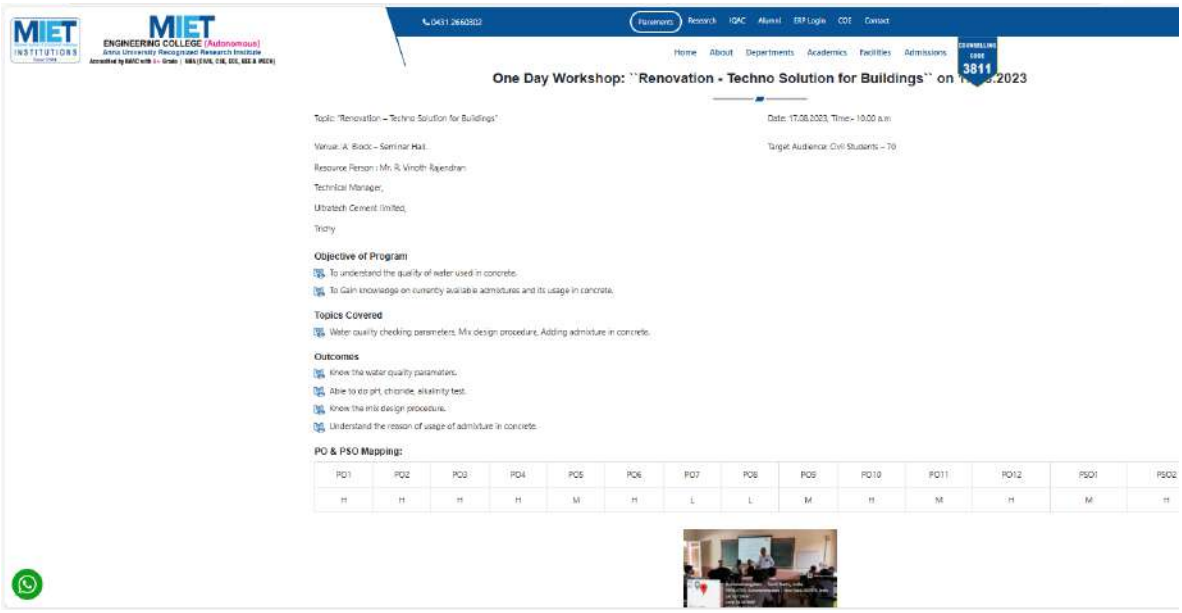


MIET ENGINEERING COLLEGE (Autonomous)

One Day Workshop: ``Renovation - Techno Solution for Buildings`` on 17.08.2023

Topic: "Renovation – Techno Solution for Buildings"

Date: 17.08.2023, Time – 10.00 a.m

Venue: A Block – Seminar Hall

Target Audience: Civil Students – 70

Resource Person : Mr. R. Vinoth Rajendran

Technical Manager,

Ultratech Cement limited,

Trichy

Objective of Program

- To understand the quality of water used in concrete.
- To Gain knowledge on currently available admixtures and its usage in concrete.

Topics Covered

- Water quality checking parameters, Mix design procedure, Adding admixture in concrete.

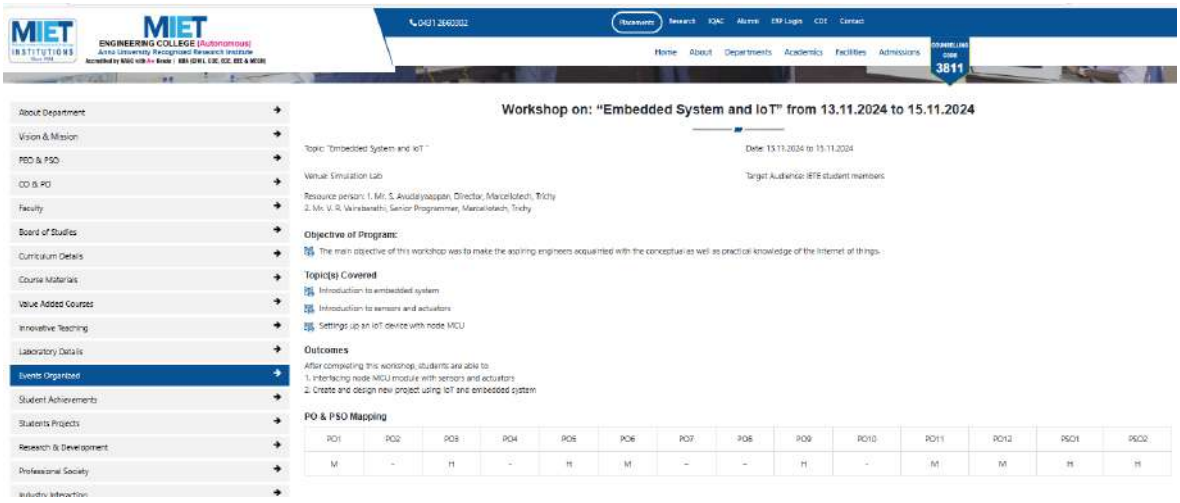
Outcomes

- Knew the water quality parameters.
- Able to do pH, chloride, alkalinity test.
- Knew the mix design procedure.
- Understand the reason of usage of admixture in concrete.

PO & PSO Mapping:

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
H	H	H	H	M	H	L	L	M	H	M	H	M	H

One Day Workshop: ``Renovation - Techno Solution for Buildings`` on 17.08.2023



MIET ENGINEERING COLLEGE (Autonomous)

- About Department
- Vision & Mission
- PEO & PSO
- CO & PO
- Faculty
- Board of Studies
- Curriculum Details
- Course Materials
- Value Added Courses
- Innovative Teaching
- Laboratory Details
- Events Organized
- Student Achievements
- Students Projects
- Research & Development
- Professional Society
- Industry Interaction

Workshop on: "Embedded System and IoT" from 13.11.2024 to 15.11.2024

Topic: "Embedded System and IoT"

Date: 13.11.2024 to 15.11.2024

Venue: Simulation Lab

Target Audience: IETE student members

Resource person: 1. Mr. S. Avudaiyappan, Director, Marcellotech, Trichy
2. Mr. V. R. Vaindanathi, Senior Programmer, Marcellotech, Trichy

Objective of Program:

- The main objective of this workshop was to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Internet of things.

Topic(s) Covered

- Introduction to embedded system
- Introduction to sensors and actuators
- Settings up an IoT device with node MCU

Outcomes

After completing this workshop, students are able to
1. Interfacing node MCU module with sensors and actuators
2. Create and design new project using IoT and embedded system

PO & PSO Mapping

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
M	-	H	-	H	M	-	-	H	-	M	M	H	H

Workshop on: "Embedded System and IoT" from 13.11.2024 to 15.11.2024

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Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu

Workshop: ``Biomedical Instruments`` on 30.03.2023

Topic: "Biomedical Instruments"

Date: 30.03.2023 / Thursday

Venue: B-Block Seminar Hall — Target Audience: II & Year ECE

Resource person: Mr. V. Abishek Raj (HR & Business Administrator) and team members

Achievers Live Medical Solutions Private Limited, Tiruchirappalli.

Objective of Program

- To comprehend the basic organization of biomedical instrumentation systems and also how these instruments play their role in surgery in medical field.
- To learn the technical terms used in instrument design, fundamental signal analysis, and related fields.

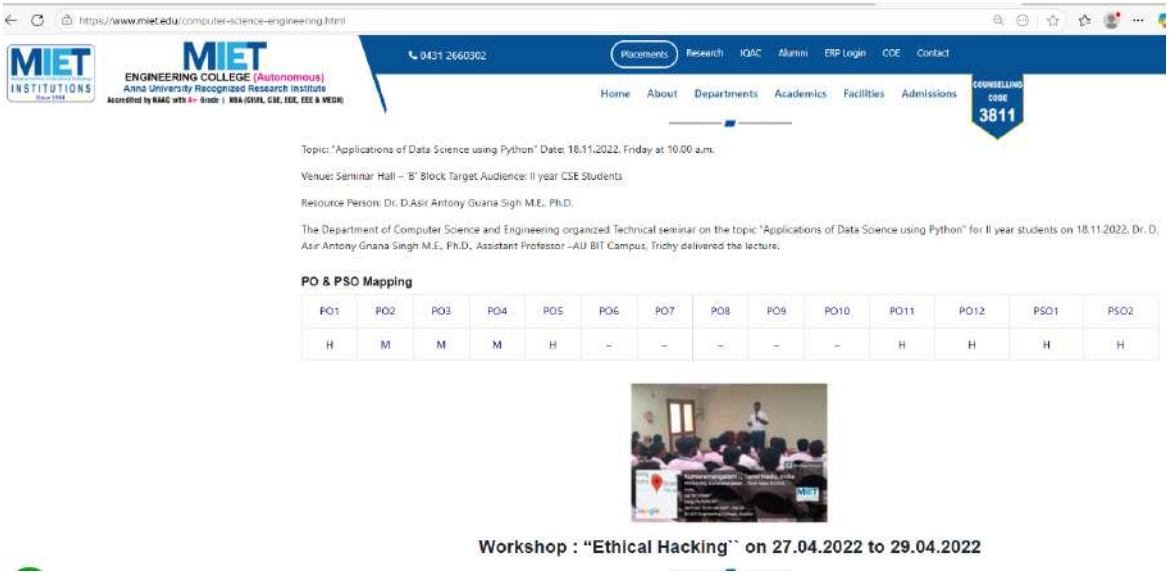
Outcomes

- The students are gained more information about biomedical instrumentation systems.
- The students are learnt about how these instruments play their role in surgery in medical field.

PO & PSO Mapping

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
H	H	H	M	-	H	-	-	-	L	-	H	H	H

Workshop: ``Biomedical Instruments`` on 30.03.2023



Topic: "Applications of Data Science using Python" Date: 18.11.2022, Friday at 10.00 a.m.

Venue: Seminar Hall – 'B' Block Target Audience: II year CSE Students

Resource Person: Dr. D.Asir Antony Gnana Sigh M.E., Ph.D.

The Department of Computer Science and Engineering organized Technical seminar on the topic "Applications of Data Science using Python" for II year students on 18.11.2022. Dr. D. Asir Antony Gnana Singh M.E., Ph.D., Assistant Professor –AU BIT Campus, Trichy delivered the lecture.

PO & PSO Mapping

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
H	M	M	M	H	-	-	-	-	-	H	H	H	H

Workshop : "Ethical Hacking`` on 27.04.2022 to 29.04.2022

Workshop : "Ethical Hacking`` on 27.04.2022 to 29.04.2022

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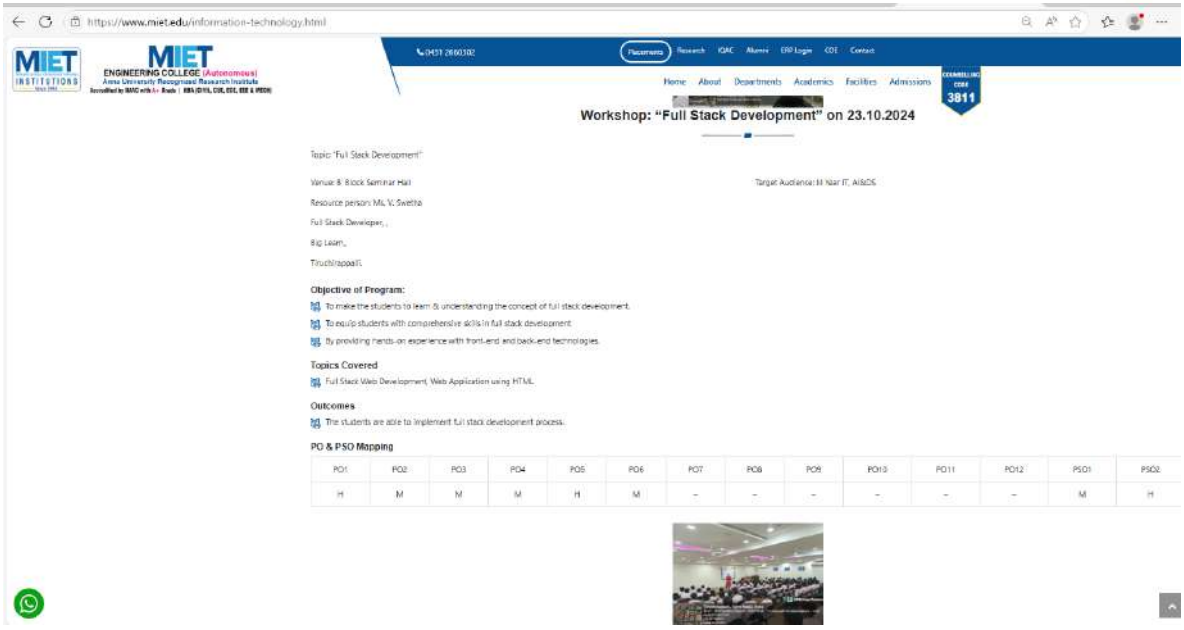
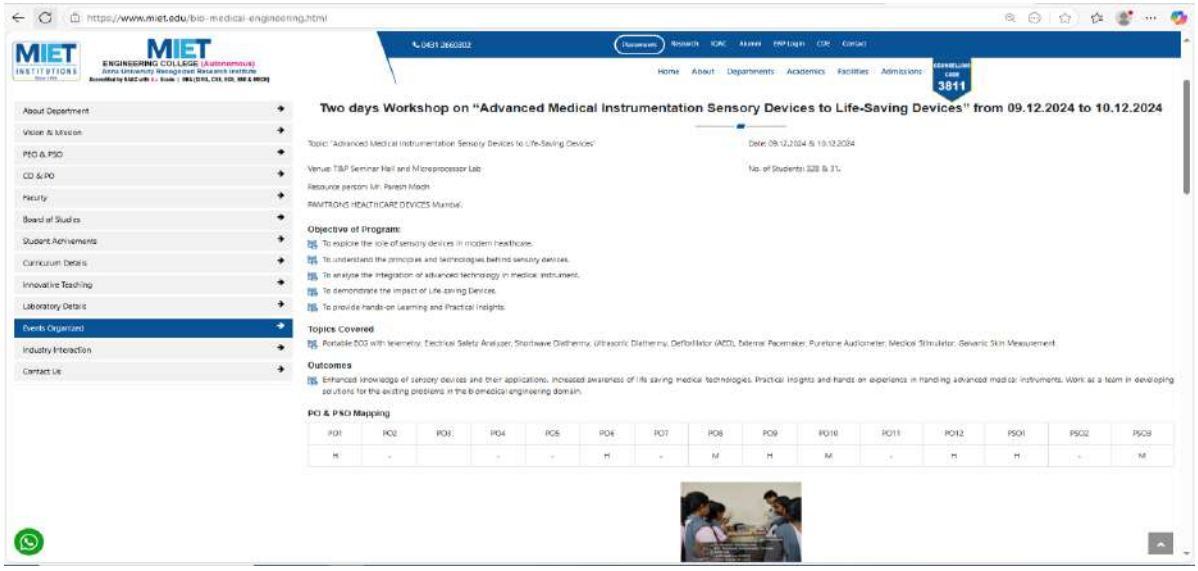


Workshop: "Full Stack Development" on 23.10.2024



Two days Workshop on "Advanced Medical Instrumentation Sensory Devices to Life-Saving Devices" from 09.12.2024 to 10.12.2024

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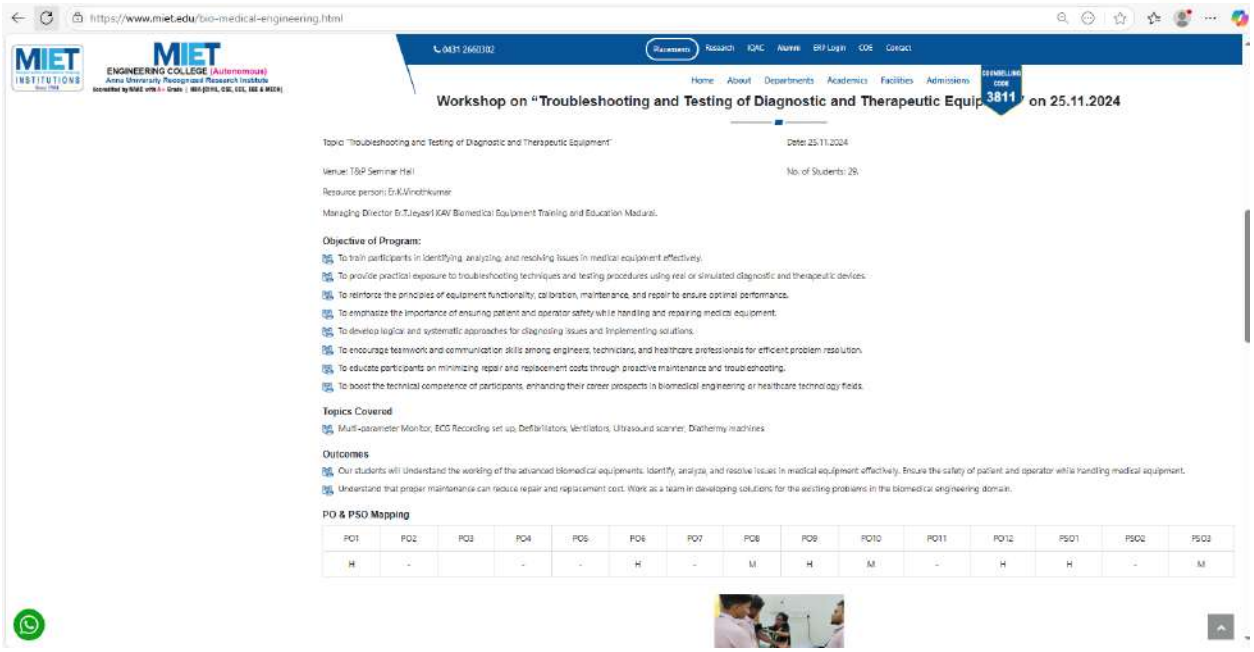

https://www.miet.edu/bio-medical-engineering.html

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Workshop on "Troubleshooting and Testing of Diagnostic and Therapeutic Equip on 25.11.2024

Topic: "Troubleshooting and Testing of Diagnostic and Therapeutic Equipment" Date: 25.11.2024

Venue: T&P Seminar Hall No. of Students: 29.

Resource person: Er.K.Vinothkumar

Managing Director Er.T.Jeyasri KAV Biomedical Equipment Training and Education Madurai.

Objective of Program:

- To train participants in identifying, analyzing, and resolving issues in medical equipment effectively.
- To provide practical exposure to troubleshooting techniques and testing procedures using real or simulated diagnostic and therapeutic devices.
- To reinforce the principles of equipment functionality, calibration, maintenance, and repair to ensure optimal performance.
- To emphasize the importance of ensuring patient and operator safety while handling and repairing medical equipment.
- To develop logical and systematic approaches for diagnosing issues and implementing solutions.
- To encourage teamwork and communication skills among engineers, technicians, and healthcare professionals for efficient problem resolution.
- To educate participants on minimizing repair and replacement costs through proactive maintenance and troubleshooting.
- To boost the technical competence of participants, enhancing their career prospects in biomedical engineering or healthcare technology fields.

Topics Covered

- Multi-parameter Monitor, ECG Recording set up, Defibrillators, Ventilators, Ultrasound scanner, Diathermy machines

Outcomes

- Our students will Understand the working of the advanced biomedical equipments. Identify, analyze, and resolve issues in medical equipment effectively. Ensure the safety of patient and operator while handling medical equipment.
- Understand that proper maintenance can reduce repair and replacement cost. Work as a team in developing solutions for the existing problems in the biomedical engineering domain.

PO & PSO Mapping

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
H	-		-	-	H	-	M	H	M	-	H	H	-	M

Workshop on "Troubleshooting and Testing of Diagnostic and Therapeutic Equipment" on 25.11.2024

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(2) 2/10/24

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M.I.E.T. ENGINEERING COLLEGE TRICHY-7. 985 4/10/24

M.I.E.T. EDUCATIONAL INSTITUTIONS TRICHY-620 007 4 OCT 2024 621

DEPARTMENT OF MANAGEMENT STUDIES

Date: 03/10/2024

SUBMITTED TO THE CHAIRMAN

Through the Principal,

Respected sir,

Sub: Requesting for Budget approval to conduct Prentice Bazaar - Reg

We have planned to conduct a Prentice Bazaar / Entrepreneurship Meet in our MBA Department on 09.10.2024 (Wednesday) for One day in our MIET Engineering College. In which, we are planning to do some product sales and management games activities for all our Engineering, Arts and Polytechnic students.

The following are the details of estimated budget for approval,

S.No	Proposed Expenses	Amount in Rs.
1	Stage Decoration in C Block auditorium	2,000
2	Flex Banner (3 no's)	2,000
3	Reception and Hospitality	1,000
4	Press and Media (Travelling Expenses & Photo print)	1,000
5	Miscellaneous (Activity kit)	2,000
	Total Estimated Amount	**8,000/-**

(Rupees Eight thousand only)

Hence, we kindly request you to give approval for this budget of Rs. 8,000/- to conduct this Event in a grand manner.

R. Antony 03/10/24

HoD/ MBA
Dr. R. Antony Prakash

7.10.24

Principal

8 7.10.24

Chairman

(1) 2/10/24

M.I.E.T.

(Autonomous)
Engineering College, Trichy

DEPARTMENT OF MANAGEMENT STUDIES

Cordially invites you to the

PRENTICE BAZAAR'24

Date: 09.10.2024 **Time:** 10.00 am - 4.30 pm

Venue: 'C' Block Auditorium - Amphitheatre.

An Entrepreneurial Experience of MBA Students

Chief Guest

Er. A. Mohamed Yunus

Chairman, M.I.E.T. Engineering College, Trichy.

Guest of Honour

Dr. A. Naveen Sait

Principal, M.I.E.T. Engineering College, Trichy.

Mr.V.Pagalavan, AP/ MBA
Program Co-ordinator

Dr.R.Antony Prakash
HoD/MBA

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DEPARTMENT OF MANAGEMENT STUDIES

Proudly Presents

09th Oct 2024

PRENTICE BAZAAR

AN ENTREPRENEURIAL EXPERIENCE OF MBA STUDENTS

1) Food Court	:	Chicken Biryani, Parotta etc.,
2) Snacks	:	Tea, Coffee, cold Coffee, Pani Poori, Chicken Samosa, French fries, Sandwich and Burger etc.,
3) Juice	:	Mojito, Rose Milk, Tang, Mocktail, etc .,
4) Ice Cream	:	Kulfi Ice, Choco Berries, Falooda etc.,
5) Fancy Stores	:	Bracelets, Earrings, Necklace, Rings etc .,
6) Fun Games	:	Online Games, Ball Games, Water Games etc.

All are Welcome

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DEPARTMENT OF MANAGEMENT STUDIES
PRENTICE BAZAAR

Roles and Responsibilities for Faculty

Date: 09.10.2024

S.NO	Description	Coordinator (staff)	Signature
1	❖ Proposal approval from the Principal ❖ Allocation of sharing responsibilities & duties of staff ❖ Student participation in administering the Event	**Dr. R. Antony Prakash**	
2	❖ Invitation ❖ Expenditure Details with copies of bill ❖ Chief Guest/Resource person(s) Profile	**Mr.V. Pagalavan**	V. Pagalavan.
3	❖ Agenda of the event ❖ Event Schedule	**Mrs. N. Anitha Raj**	
4	❖ One page Report and ❖ News report	**Ms. R. Shantha Sheela**	
5	❖ Copy of Hall/Venue booking details of the event ❖ Objective of the function and Target Audience details ❖ Geo-Tag Photos in event	**Mr.V. Pagalavan**	V. Pagalavan
6	❖ Attendance Sheet ❖ Feedback from Participants ❖ Feedback Report (Excel sheet with bar chart)	**Ms. S. Srinisha**	
7	❖ Final approval with Budget from Chairman ❖ Detailed report with geo-tagged photos	**Dr. M. Ganeshan**	
8	❖ Discipline	**Mr. A. Karthikeyan**	

V. Pagalavan.
Event Coordinator

HoD/MBA

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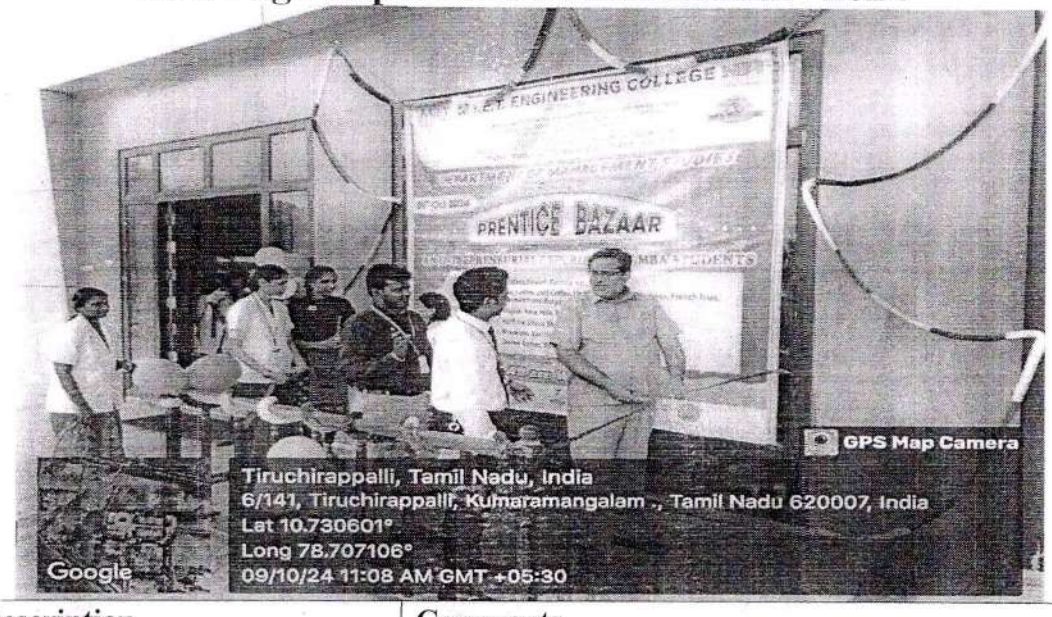
Department of Management Studies
One Page Report of Prentice Bazaar -2024



S.No	Description	Comments
1	Type of Event	Entrepreneurial Experience
2	Title of the Event	Prentice Bazaar
3	Date & Day of the Event	09-10-2024 (1 days)
4	Venue	Auditorium -"C" Block
5	Name of the resource person(s)	MBA Students
6	Details of resource person(s)	MIET Chairman
7	No. of participants	1000
8	Event Co-Ordinator(s)	Mr. V. Pagalavan
9	Objective(s) of the Event	To explore the marketing and entrepreneurship skills among the Students
10	Topic(s) Covered	Experience about marketing and management activities
11	Feedback given by participants	Students gain knowledge in Entrepreneurship and earn experience regarding marketing skills
12	Abstract of faculty feedback	A very good exposure for marketing activities
13	Feedback by HoD	The event was well organized by our MBA students
14	Outcome(s) of this Event	Students gained knowledge on handling the customers and known to control their stress management.
15	**PO Mapping:** PO1 PO2 PO3 PO4 PO5 H H H H H L-Low, H-High, M-medium	

V. Pagalavan
Event Coordinator

R. Antony
HoD/MBA

Principal

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DEPARTMENT OF MANAGEMENT STUDIES

Date: 14.10.24

The Department of Management studies has organized one day Students' Bazaar in the name of Prentice Bazaar'24 on 09.10.2024 from 10am to 5.00pm at our MIET Engineering College Campus. Students from both I & II MBA participated and arranged stalls by their own and sold products and services. The major objectives of this programme are to develop entrepreneurial, marketing, production, purchase and financial management skills. Students of MBA alone were permitted to set-up stalls totally 21 stalls were setup by MBA students and each stall managed by 4 -5 students. In this Bazaar, they offered food court, Garments, cosmetics, Mind Games, Beverages, Stationary items, Flowers, Jute bag, etc.,

Through this one day Bazaar, Our MBA students gained the practical exposure about organizing a market place, management of stalls, procurement of raw material, and effective utilization of finance. This programme helped for branding our MBA department among students of M.I.E.T Institutions and MBA aspirants in Engineering departments. Around 1000 students and 100 Staff members from MIET Engineering, Polytechnic and Arts & Science, were visited and enjoyed shopping experience with their friends.

V. Pagalavan

Bazzar Co-ordinator

HoD/MBA

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Dr.A.Naveen Sait, M.E., Ph.D.
Principal

Date: 08.10.2024

Press Report

Sir,

The Department of Management studies of M.I.E.T. Engineering College, Trichy, is organizing **"PRENTICE BAZAAR' 24"** - An Entrepreneurial Experience of MBA Students on 09.10.2024 at 10.00 am in C- Block Auditorium - Amphitheatre.

Er. A. Mohammed Yunus, Chairman of M.I.E.T. Engineering College will inaugurate the function. Dr.M.Y.Abdul Jaleel,Vice Chairman and Dr. A. Naveen Sait, Principal of M.I.E.T. Engineering College, will be the Guest of Honor. Aim of this program is to develop entrepreneurial, marketing, production, purchase and financial management skills for the students.

We kindly request you to publish this news in your esteemed Newspaper in Today's Engagement column on **09.10.2024.**

M.I.E.T. ENGINEERING COLLEGE TRICHY-7

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Dr.A.Naveen Sait, M.E., Ph.D.
Principal

Date: 09.10.2024

Press Report

Sir,

The Department of Management studies of M.I.E.T. Engineering College (Autonomous) – Trichy was organized the **"PRENTICE BAZAAR - 2024"** - An Entrepreneurial Experience of MBA Students on 09.10.2024 at 10.00 am.

The function was inaugurated and first sale was presided over by the Chairman, Er. A. Mohammed Yunus, M.I.E.T. Group of Institution. Vice Chairman, Dr.M.Y.Abdul Jalil, and Principal, Dr. Naveen Sait from M.I.E.T. Engineering College (Autonomous) was the Guest of Honour. From this event MBA students got the real time experience of the Marketing and Financial Management skills.

We kindly request you to publish this news in your esteemed Newspaper on **10.10.2024.**

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DEPARTMENT OF MANAGEMENT STUDIES

Date: 04.11.2024

Advance Settlement

Respected sir,

Submission of budget settlement for MBA Prentice Bazaar -reg

We successfully organized the Prentice Bazaar Programme by our MBA Department on 09.10.2024 (Wednesday) for One day in our MIET Engineering College.

The following are the details of expenditures,

S.No	Particulars	Amount in Rs.
1	Stage Decoration in C Block auditorium- (250+160+21+50)	481
2	Mike purchased for Activity	500
3	Travelling allowance for Purchase of S. No 1&2 -(128 +100)	228
4	Press (Travelling allowance + Photos Print)- (148 +120)	268
5	Flex Transport & paste- (100 + 150)	250
6	AP Panthal & 28 –Stall Tables	3700
	Cash Expenditure	**5427**
7	4 Flex Banner- **Cheque Expenditure**	**2560**
	Total Expenditure=	**7,987**

Total Amount Received : Rs. 8000
Total Expenditure (Cash+ Cheque): Rs.7987

Balance to be returned in office : (13 + 2560) = 2573/-

V. Pagalavan.
Program Coordinator
(Mr.V.Pagalavan)

R. Antony
HoD/MBA
(Dr. R. Antony Prakash)

Principal 11/11/24

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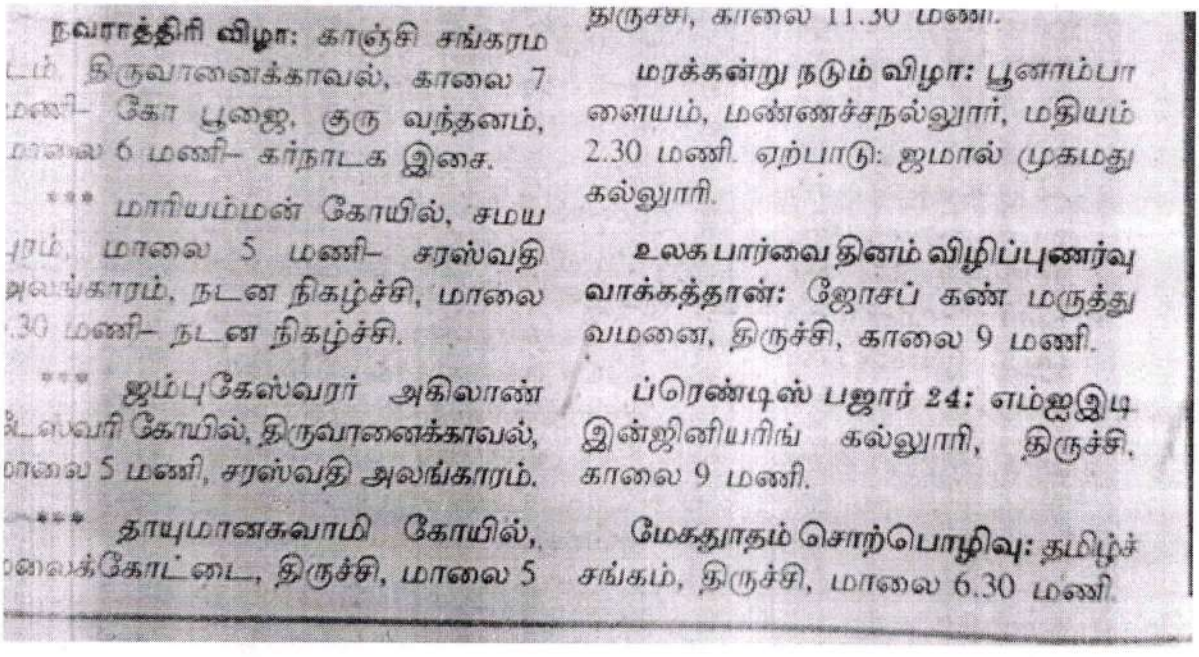
DEPARTMENT OF MANAGEMENT STUDIES

Proof of News Publication of Prentice Bazaar -2024



நவராத்திரி விழா: காஞ்சி சங்கரமடம், திருவானைக்காவல், காலை 7 மணி- கோ பூஜை, குரு வந்தனம், மாலை 6 மணி- கர்நாடக இசை.

*** மாரியம்மன் கோயில், சமயபுரம், மாலை 5 மணி- சரஸ்வதி அலங்காரம், நடன நிகழ்ச்சி, மாலை 6.30 மணி- நடன நிகழ்ச்சி.

*** ஜம்புகேஸ்வரர் அகிலாண்டேஸ்வரி கோயில், திருவானைக்காவல், மாலை 5 மணி, சரஸ்வதி அலங்காரம்.

*** தாயுமானசுவாமி கோயில், மலைக்கோட்டை, திருச்சி, மாலை 5

திருச்சி, காலை 11.30 மணி.

மரக்கன்று நடும் விழா: பூனாம்பாளையம், மண்ணச்சநல்லூர், மதியம் 2.30 மணி. ஏற்பாடு: ஜமால் முகமது கல்லூரி.

உலக பார்வை தினம் விழிப்புணர்வு வாக்கத்தான்: ஜோசப் கண் மருத்துவமனை, திருச்சி, காலை 9 மணி.

ப்ரெண்டிஸ் பஜார் 24: எம்ஐஇடி இன்ஜினியரிங் கல்லூரி, திருச்சி, காலை 9 மணி.

மேகதூதம் சொற்பொழிவு: தமிழ்ச் சங்கம், திருச்சி, மாலை 6.30 மணி.

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DEPARTMENT OF MANAGEMENT STUDIES

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Outcome of DoTS

- Enabled our students to learn more about the working environment and recent technologies. To enrich the knowledge about the ongoing projects in Industries.
- The students able to do qualitative analysis and uniqueness approaches in their final year project and made various project proposals to Tamil Nadu State Council for Science and Technology (TNSCST)

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Sample Best Projects

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DEPARTMENT OF CIVIL ENGINEERING

Project Title:

ADVANCING COASTAL RESILIENCE: EXPLORING DIVERSE GROYNE TRUCTURES WITH RECYCLED ATERIALS AND GEOTEXTILES IN DHANUSHKODI USING PLAXIS 2D

Guide Name: Dr.PV. PREMALATHA,

Students Name

MUHAMMAD ASLAM A	**812420103011**
AKILAN A	**812420103305**
BEER MOHAMMED J	**812420103309**
NITHISH M	**812420103013**

ABSTRACT	**PO's Mapping**	**PSO's Mapping**
This study explores the desig and optimization of groyne structures t protect the coastline of Dhanushkodi Through a comprehensive analysis o various models, incorporatin considerations of efficiency an sustainability, an optimal configuration i determined. Utilizing concrete demolishe waste and waste steel slag in groyn construction, the stability of these structure is rigorously assessed, culminating in th identification of the most effective model. Key findings reveal the critica influence of groyne geometry on stability emphasizing the importance of width an depth in minimizing displacement Additionally, the impact of the water tabl on structural stiffness and displacement i examined, highlighting the need for carefu consideration in design.	PO1, PO2, PO3, PO7	PSO2.

RELEVANCE TO PO's & PSO's :

PO1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences..
PO3	Design 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.
PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO2	Competency in professional areas by way of research-based knowledge, modern Civil Engineering tools and lifelong self-learning ability.

PO1	Engineering Knowledge	**PO2**	Problem Analysis	**PO3**	Design & Development of Solution
PO4	Investigations	**PO5**	Modem Tools	**PO6**	The Engineer & Society.
PO7	Environment & Sustainability	**PO8**	Ethics	**PO9**	Individual & Team work
PO10	Communi-cation	**PO11**	Project Management & Finance.	**PO12**	Life-long Learning
PSO1	Competency	**PS02**	Professional Skills	.	

CONCLUSION

This study investigates optimal groyne designs to protect Dhanushkodi's coastline, incorporating concrete demolished waste and steel slag. Four models are analysed, with the most stable configuration using coarse aggregate in the armour layer and a core layer of coarse aggregate and sand, achieving a factor of safety of 1.5. A similar model with demolished waste and steel slag in the core layer achieves a factor of safety of 1.4. Key findings suggest that groyne geometry, water table levels, and displacement are crucial to stability. Further research could lead to innovative designs focusing on water table control and reinforcement at the groyne toe.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Project Title:Book Repository Administration System

Guide Name: Mrs. K. Dasarathi Shohi M.E.,
Students Name:

ABDUL RAHMAN. M **812420104005**

KARTHIKEYAN. J **812420104038**

MOHAMED RAFEEK. M **812420104056**

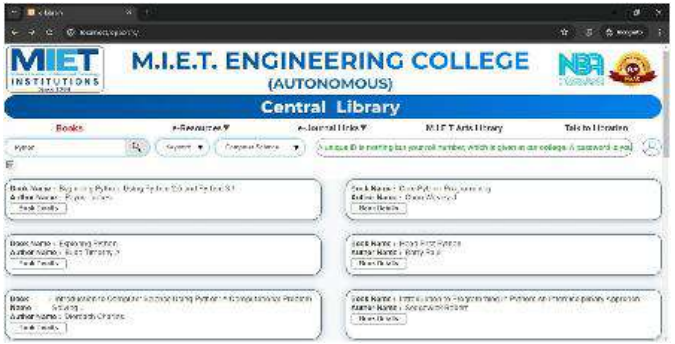
MURALI. R **812420104065**

ABSTRACT	PO's Mapping	PSO's Mapping
The "Book Repository Administration System" presents an innovative approach to streamline library management processes through a user-friendly web application. This project aims to provide students and staff with a convenient platform to efficiently navigate the library's resources.Through the system, users can seamlessly search for books, checking their availability within the library's inventory. Additionally, students/staff can access detailed information about issued books, including their respective issue and return dates, upon logging into their personalized accounts.	PO1,PO2, PO3,PO4, PO5,PO6, PO9,PO10, PO11	PSO1.

RELEVANCE TO PO's & PSO's:

PO1	Designed to facilitate the efficient organization, administration, and retrieval of resources within a library or educational institution.
PO2	Systematic classification, simplifying the process of resource identification and location for library users.
PO3	A document **repository** serves as a centralized storage point for all your organization's critical and day-to-day content.
PO5	The automation of activities like book and catalog management, easy book return, and hassle-free book search saves time for librarians, students, and other users.
PO11	Helps the organization to save time, and increase efficiency, also it is cost-effective and easy to implement in the organization.
PSO1	fostering community engagement, promoting literacy, and supporting lifelong learning.

PO1	Engineering Knowledge	**PO2**	Problem Analysis	**PO3**	Design & Development of Solution
PO4	Investigations	**PO5**	Modem Tools	**PO6**	The Engineer & Society.
PO7	Environment & Sustainability	**PO8**	Ethics	**PO9**	Individual & Team work
PO10	Communi -cation	**PO11**	Project Management & Finance.	**PO12**	Life-long Learning
PSO1	Competency	**PS02**	Professional Skills		



CONCLUSION

In conclusion, the proposed system is a useful tool to predict crime hotspots and provide recommendations to women for safer routes. The system employs the explainable Decision Tree (xDT) algorithm for crime hotspot prediction and integrates Google Maps API for visualization and location-based recommendations.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Project Title:Femmesafe-Guradian Beacon for Felony Finder

Guide Name: Mrs.Rashitha banu.S

Students Name:

E.ARUNKUMAR **812420104015**
A.HAJEE ALI **812420104031**
H.A.JAVID AKBAR **812420104035**
J.MOHAMED RAZICK **812420104057**

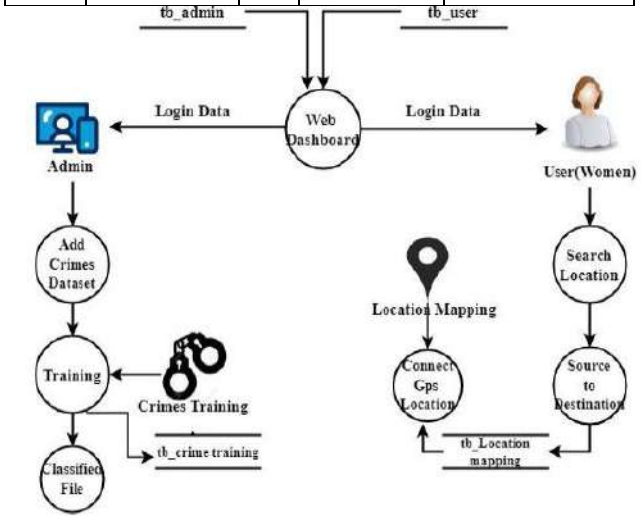
ABSTRACT	PO's Mapping	PSO's Mapping
Crime hotspot is a geographic area or location that experiences a higher rate of criminal activity compared to other areas within the same region. These hotspots where women are more likely to experience criminal activities such as sexual harassment, assault, domestic violence, stalking, and human trafficking. It enables law enforcement agencies to focus their resources on the areas with the highest crime rates and develop targeted interventions that address the underlying causes of criminal activity. Crime hot spot prediction is an important problem in public safety, and machine learning algorithms such as Deep Explainable Decision Tree is a predictive model designed to identify crime hotspots against women and provide a map of these locations using Maps.	PO1,PO2, PO3,PO4, PO5,PO6, PO9,PO10, PO11	PSO1.

RELEVANCE TO PO's & PSO's:

PO1	To focus on women centric needs.
PO2	To promote confidence &independence through innovative tools.
PO3	To provide tools to enchance physical and emotional safety.
PO5	To improve health outcomes with targeted wellness products.
PO11	To focus on preventive care and holistic approaches.
PSO1	To use modern technologies to improve women's daily life.

PO1	Engineering Knowledge	**PO2**	Problem Analysis	**PO3**	Design & Development of Solution
PO4	Investigations	**PO5**	Modem Tools	**PO6**	The Engineer & Society.
PO7	Environment & Sustainability	**PO8**	Ethics	**PO9**	Individual & Team work
PO10	Communi -cation	**PO11**	Project Management & Finance.	**PO12**	Life-long Learning

PSO1	Competency	**PS02**	Professional Skills



CONCLUSION

In conclusion, the proposed system is a useful tool to predict crime hotspots and provide recommendations to women for safer routes. The system employs the explainable Decision Tree (xDT) algorithm for crime hotspot prediction and integrates Google Maps API for visualization and location-based recommendations.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Project Title: WIRELESS CHARGING SYSTEM FOR ELECTRIC VEHICLES POWERED BY SOLAR PANEL

Guide Name: P.DELPHINEMARY,M.E.,

Students Name

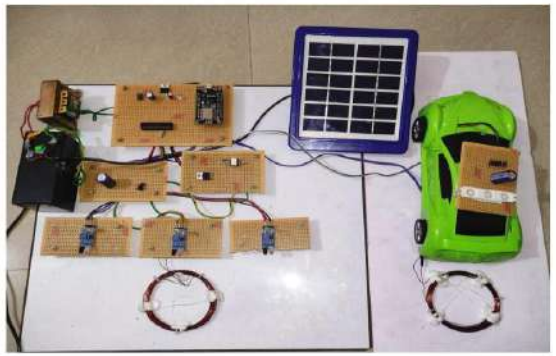
MINNALEPATHI.G 812420106012
SANTHAKUMAR.P 812420106016
SIDDHARTH.C.A 812420106017
YOGARAJA.T 812420106023

ABSTRACT	PO's Mapping	PSO's Mapping
Electric vehicles are todays zero emission vehicular technology which is considered as the future of automotive industry. The batteries of the vehicles get charged in order to drive the vehicle. The methodology of charging the electric vehicle currently is through plug-in method where the charging station charges the battery of an electric vehicle. However, an alternative method for charging the battery of an electric vehicle is through Wireless Power Transfer where it can be as a Static or Dynamic charging systems. Static Charging System can be implemented to charge the batteries of the electric vehicles when the vehicle is parked in static mode.	PO1, PO2, PO3, PO5, PO6, PO11.	PSO1.

RELEVANCE TO PO's & PSO's:

PO1	To reduce the size and cost of the system.
PO2	To ensure safety and make it compact.
PO3	To provide higher efficiency.
PO5	To reduce losses.
PO6	To make more utilization by reducing the size and cost.
PO11	To make more affordable and easy access.
PSO1	To save the Electric charge .

PO1	Engineering Knowledge	**PO2**	Problem Analysis	**PO3**	Design & Development of Solution
PO4	Investigations	**PO5**	Modem Tools	**PO6**	The Engineer & Society.
PO7	Environment & Sustainability	**PO8**	Ethics	**PO9**	Individual & Team work
PO10	Communi -cation	**PO11**	Project Management & Finance.	**PO12**	Life-long Learning
PSO1	Competency	**PS02**	Professional Skills		



Proposed System

CONCLUSION

Electric cars (EVs) are essential in the present when the environment has worsened so significantly. The government of plans to completely phase out diesel cars by the year 2030. Because waiting for an electric vehicle to charge is the biggest drawback to EV adoption, dynamic charging technology and charging stations are essential to the widespread acceptance of EVs. A renewable energy system is at the heart of the "solar-based wireless EV charging" initiative. This saved power is used to refuel EVs.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Project Title: FUZZY LOGIC CONTROLLED BOOST INVERTER WITH STATCOM TO IMPROVE POWER QUALITY IN GRID

Guide Name: Mr. D.JAYARAJ, M.E.,(Ph.D).,

Students Name

D.MOHAMMED ISMAIL 812420105010
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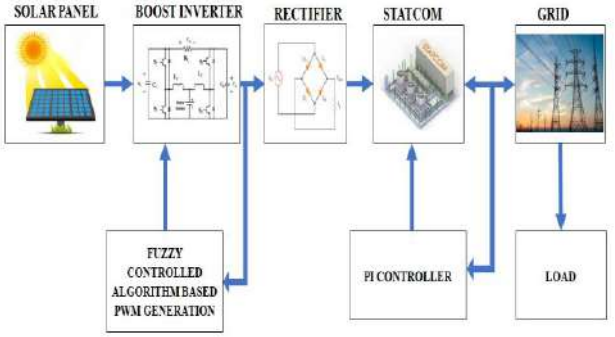
K.SIVASANKAR 812420105338

ABSTRACT	PO's Mapping	PSO's Mapping
Our Project proposes a novel approach by combining a Boost Inverter with a Static Synchronous Compensator (STATCOM) employing Fuzzy Logic Control (FLC) for applications in unbalanced grid scenarios.The Boost Inverter is known for its ability to convert AC output from a DC source. In the presence of grid voltage imbalances, the performance of such inverters can be compromised. To address this issue, a STATCOM is integrated into the system to mitigate voltage sags, swells, and unbalance in the grid.	PO1, PO2, PO3, PO5, PO6, PO11.	PSO1.

RELEVANCE TO PO's & PSO's:

PO1	To reduce the voltage imbalance.
PO2	To ensure safety and make it compact.
PO3	To provide power quality.
PO5	To reduce power issues.
PO6	To make more voltage boosting capabilities
PO11	To make more affordable and easy access.
PSO1	To provide fast power consumption.

PO1	Engineering Knowledge	**PO2**	Problem Analysis	**PO3**	Design & Development of Solution
PO4	Investigations	**PO5**	Modem Tools	**PO6**	The Engineer & Society.
PO7	Environment & Sustainability	**PO8**	Ethics	**PO9**	Individual & Team work
PO10	Communi -cation	**PO11**	Project Management & Finance.	**PO12**	Life-long Learning
PSO1	Competency	**PS02**	Professional Skills		



Proposed System

CONCLUSION

The integration of a Fuzzy Logic Controlled Boost Inverter with STATCOM presents a promising approach to enhance power quality in electrical grids. The Boost Inverter, controlled by the FLC, offers efficient power conversion and voltage boosting capabilities. Additionally, the STATCOM provides fast and precise reactive power compensation, further enhancing voltage stability in the grid.

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DEPARTMENT OF MECHANICAL ENGINEERING

Project Title: DESIGN AND 3D PRINTED MODEL OF WIND TURBINE BLADE FOR DOMESTIC APPLICATION

Guide Name: Dr. K. PANNEER SELVAM, M.E., Ph.D.

Students Name

AMJATH HUSSAIN. N.S 812420114006
MOHAMED HASSAN DHANVEER. Y 812420114019
THOUFIQ UMAR. S 812420114031
YUVAPRASATH. B 812420114034

ABSTRACT	PO's Mapping	PSO's Mapping
The project aims to develop and optimize wind turbine blades specifically developed for generating 1KW of power in residential environments. This project aims to address the challenges in small-scale wind energy generation. Modeling of Wind Turbine Blade employs Autodesk inventor24 software tools to refine aerodynamic profiles while Computational Fluid Dynamics (CFD) Analysis was done using ANSYS workbench-R20 and enhances the aerodynamic performance under varied conditions.	PO1,PO3, PO5,PO7	PSO1

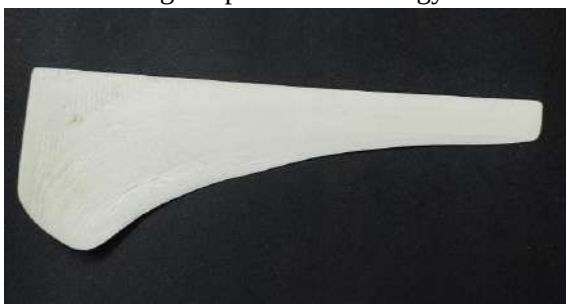
RELEVANCE TO PO's & PSO's:

PO1	To improve the mechanical properties.
PO3	To develop small scale wind energy generation.
PO5	Aerodynamic performance analysis was done ANSYS workbench-R20.
PO7	To meet goals of sustainable development.
PSO1	The Computational Fluid Dynamics (CFD) Analysis was done using ANSYS workbench-R20.

PO1	Engineering Knowledge	**PO2**	Problem Analysis	**PO3**	Design & Development of Solution
PO4	Investigations	**PO5**	Modem Tools	**PO6**	The Engineer & Society.
PO7	Environment & Sustainability	**PO8**	Ethics	**PO9**	Individual & Team work
PO10	Communication	**PO11**	Project Management & Finance.	**PO12**	Life-long Learning
PSO1	Competency.	**PS02**	Professional Skills		

CONCLUSION

The scale model of wind turbine blade has been designed, analysed and fabricated for 1KW energy production. Initially, various material has been analysed and Polyethylene Terephthalate Glycol (PETG) material is selected due to its mechanical properties. The mechanical properties of PETG material is measured through experimental work for the proportion of PETG 60 wt. % + CF 40 wt. %. The young's modulus, Tensile strength and Bending stress are measured as 2.3 GPa, 10.5 MPa and 60.2 MPa respectively. The drag force 48.75 N and lift force 1126.354 N are obtained by the CFD analysis. The CFD values are compared with theoretical results. After confirming the results with the previous literatures ,the wind turbine blade has been fabricated using 3D printed technology.



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DEPARTMENT OF MECHANICAL ENGINEERING

Project Title: EXPERIMENTAL INVESTIGATION OF ALKALINE BASED OXYHYDROGEN PRODUCTION

Guide Name: Mr. R.MANICKAM, M.E., (Ph.D)

Students Name

PUGAZHENTHI.M 812420114024
VIJAY.K 812420114033
ARUN.S 812420114308
BALAJI 812420114503

ABSTRACT	PO's Mapping	PSO's Mapping
Water electrolysis is the most promising method to produce a Hydrogen-Oxygen (HHO) mixture. However the less energy consumption is aimed to maximize the HHO production. The aim of the research is to produce the maximum gas flow rate from wet cell by modified design configurations. It is also aimed to study the effects of different parameters such as electrolyte type (NaOH and KOH), electronic concentration, electrode spacing, electrolyte temperature, applied current voltage and operating time to maximize the gas yield in wet cell.	PO1,PO2, PO6,PO7	PSO1

RELEVANCE TO PO's & PSO's:

PO1	To apply the knowledge of complex problems.
PO2	To find alternative fuels for replacing fossil fuels.
PO6	To produce the maximum gas flow rate from wet cell by modified design configurations.
PO7	To reduce the use of fossil fuel.
PSO1	To develop the alternative fuels.

PO1	Engineering Knowledge	**PO2**	Problem Analysis	**PO3**	Design & Development of Solution
PO4	Investigations	**PO5**	Modem Tools	**PO6**	The Engineer & Society.
PO7	Environment & Sustainability	**PO8**	Ethics	**PO9**	Individual & Team work
PO10	Communication	**PO11**	Project Management & Finance.	**PO12**	Life-long Learning
PSO1	Competency.	**PS02**	Professional Skills		

CONCLUSION

The wet cell electrolyzer operates by passing an electric current through water, causing the water molecules to split into hydrogen and oxygen gases through a process known as electrolysis. This technology offers several advantages, including high efficiency, scalability, and the ability to utilize a wide range of water sources.

Overall, the wet cell electrolyzer technology shows great potential in the production of hydrogen as a clean and sustainable energy source. With further advancements and continued research, it has the capacity to contribute significantly to the transition towards a low-carbon and renewable energy future.

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Roll No. E1205065 of IV year from the department of CSE

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26th Annual Day

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26th Annual Day

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This is to certify that Selvan./~~Selvi~~. S. MOHAMED IRFAN

Roll No E2213042 of IV year from the department of EEE

is appreciated with the best project award for his/~~her~~ outstanding best project during the academic year 2023 - 2024.

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CERTIFICATE OF MERIT

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is appreciated with the best library user award for the effective utilization of the learning resources in M.I.E.T. Engineering College Central Library during the academic year 2023 - 2024.

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Website: - www.miet.edu

Ph: 0431 – 2660 303

TNSCST Projects

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LIST OF THE TNSCST PROJECT REPORT FOR THE ACADEMIC YEAR 2023 - 2024

S.No	TITLE OF THE PROJECT	DEPARTMENT	NAME OF THE GUIDE
1.	Intelligent Farming System Using Internet of Things (IOT)	ECE	Ms..N.Priscilla Vilma Manorathi Assistant professor
2.	Intelligent Eye – Controlled Wheelchair for Quadriplegia Patients Using Internet of things (IOT)	ECE	Dr.A.Suresh Kumar Professor
3.	Real – Time Traffic Violation Detection Using Deep Learning Approach	ECE	Ms.P.Delphine Mary Assistant Professor
4.	Smart Gardening System Using IOT and AI	ECE	Mrs.V.Keerthana Assistant Professor
5.	Bio Energy Pacemakers : Harmessing Body Power for Lifelong Cardiac Care	ECE	Ms.P.Delphine Mary Assistant Professor
6.	Optimized Landslide Detection & Alert System Using IOT	ECE	Mrs.B.T.Kirthika Assistant Professor
7.	Miniaturized Mems Based Cochlear Implant For Hearing Defects	ECE	Dr.S.Archana Assistant Professor
8.	Design and Fabrication of Harmonic Verticle Axis Wind Turbine With Solar Panel For Electric Vehicle Mobile Rechargeable Station And Street Light	MECHANICAL	Dr.K.Paneer Selvam Associate Professor

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
STUDENT PROJECT PROPOSAL

Intelligent Farming System Using Internet of Things (IOT)

SUBMITTED BY

K.S. Mohamed Kaja Bhasith
E. Jayakumar
R. Vimal
N. Naveen Kumar

UNDER THE GUIDANCE OF

Ms.N.Priscilla Vilma Manorathi
ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Application No. : EEE- 1508

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

APPLICATION FOR STUDENT PROJECT PROPOSAL (2024-2025)

Project Title : Intelligent Farming System Using Internet of Things (IOT)

Student Details:

S.No	Name of the Student	Mobile No.	Email_id
1.	Mohamed Kaja Bhasith K.S.	7708819825	ksmohamedkajabhasith@gmail.com
2.	Jayakumar E	7904054716	jayakumar74040@gmail.cor
3.	Vimal R	9360696374	grajangamvimal144555@gmail.com
4.	NAVEEN KUMAR N	7695972788	naveenkumar812004@gmail.com

Name of the Guide	: N.PRISCILLA VILMA MANORATHI
Designation	: ASSISTANT PROFESSOR
Department (Full Form)	: ELECTRONICS AND COMMUNICATION ENGINEERING
Mobile Number	: 9384344211
Email	: priscillavilma1@gmail.com
Name of the Institution with Address	: MIET Engineering College, Trichy - Pudukkottai Road, Trichy 620007
Has a similar project been carried out in your Institution / elsewhere?	: No
Course Studying	: UG Engineering
Project Details	: Attached

Declaration

This is to certify that above mentioned students in table are bonafide **final year** students of P.G. Science / U.G. Engineering / P.G. Professional Courses of our Institution and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of May 2025.

Signature of the Guide **Signature of HoD** **Signature of the Principal/Registrar/ Dean**

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
STUDENT PROJECT PROPOSAL

INTELLIGENT EYE-CONTROLLED WHEELCHAIR FOR QUADRIPLEGIA PATIENTS USING INTERNET OF THINGS (IOT)

SUBMITTED BY

S.Ahamed Yaseen

S.Mohamed Amjath

S.Ameen Mohideen

S.Sujith Munna

UNDER THE GUIDANCE OF

Dr.A. SURESH KUMAR
PROFESSOR

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Application No. : EEE- 2107

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

APPLICATION FOR STUDENT PROJECT PROPOSAL (2024-2025)

Project Title : INTELLIGENT EYE-CONTROLLED WHEELCHAIR FOR QUADRIPLEGIA PATIENTS USING INTERNET OF THINGS (IOT)

Student Details:

S.No	Name of the Student	Mobile No.	Email_Id
1.	AHAMED YASEEN S	8838422927	sahamedyaseem66@gmail.com
2.	MOHAMED AMJATH S	7708585240	mdamjath177@gmail.com
3.	SUJITH MUNNA S	9787600136	sujithmunnasiva@gmail.com
4.	AMEEN MOHIDEEN S	9488631324	ameenmohideen53@gmail.com

Name of the Guide	: Dr.A.Suresh Kumar
Designation	: Professor
Department (Full Form)	: Electronics and Communication Engineering
Mobile Number	: 9865248904
Email	: dr.sureshkumar@miet.edu
Name of the Institution with Address	: MIET Engineering College, Trichy - Pudukkottai Road, Trichy 620007
Has a similar project been carried out in your Institution / elsewhere?	: No
Course Studying	: UG Engineering
Project Details	: Attached

Declaration

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Signature of the Guide **Signature of HoD** **Signature of the Principal/Registrar/ Dean**
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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
STUDENT PROJECT PROPOSAL

Real- Time Traffic Violation Detection Using Deep Learning Approach

SUBMITTED BY

M.Alageswari
G.Maheshwari
R.Manjari

UNDER THE GUIDANCE OF

Ms.P.Delphine Mary
ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Application No. : EEE- 3203

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

APPLICATION FOR STUDENT PROJECT PROPOSAL (2024-2025)

Project Title : **Real-Time Traffic Violation Detection Using Deep Learning Approach**

Student Details:

S.No	Name of the Student	Mobile No.	Email_id
1.	Algeswari M	9360849040	algeswarimarimuthu@gmail.com
2.	Maheswari G	9751819234	maheswari14042003@gmail.com
3.	Manjari R	6384886276	Priyagomathi1976@gmail.com

Name of the Guide : Ms.P.Delphine mary
Designation : Assistant professor
Department (Full Form) : Electronics and communication engineering
Mobile Number : 8248007233
Email : delphine@miet.edu
Name of the Institution with Address : MIET Engineering College, Trichy - Pudukkottai Road, Trichy 620007
Has a similar project been carried out in your Institution / elsewhere? : No
Course Studying : UG Engineering
Project Details : Attached

Declaration

This is to certify that above mentioned students in table are bonafide **final year** students of P.G. Science U.G. Engineering / P.G. Professional Courses of our Institution and it is also certified that two copies utilization certificate and final report along with seminar paper will be sent to the Council after completio of the project by the end of May 2025.

Signature of the Guide
P. DELPHINE MARY

Signature of HoD

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TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY STUDENT PROJECT PROPOSAL

SMART GARDENING SYSTEM USING IOT AND AI

SUBMITTED BY

Mohamed Vasim Hussain K
Dalvin Gnana Raja.D
Shaik Bareeth .M
Aadithiya .K

UNDER THE GUIDANCE OF

Mrs.Keerthana V
ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Application No. : EEE- 3071

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

APPLICATION FOR STUDENT PROJECT PROPOSAL (2024-2025)

Project Title : **Smart Gardening System using IOT and AI**

Student Details:

S.No	Name of the Student	Mobile No.	Email_Id
1.	Mohamed vasim hussian K	9345816526	Vasimfayas827@gmail.com
2.	Dalvin gnana raja D	8695755679	dalvin1462@gmail.com
3.	Shaik bareeth M	9994326892	fareedsheik180@gmail.com
4.	Aadithiya K	9994274946	aadhiaadhithiya12@gmail.com

Name of the Guide	: Keerthana V
Designation	: Assistant professor
Department (Full Form)	: Electronics and communication
Mobile Number	: 9790195996
Email	: keerthana.v@miet.edu
Name of the Institution with Address	: MIET Engineering College, Trichy - Pudukkottai Road, Trichy 620007
Has a similar project been carried out in your Institution / elsewhere?	: No
Course Studying	: UG Engineering
Project Details	: Attached

Declaration

This is to certify that above mentioned students in table are bonafide **final year** students of P.G. Science / U.G. Engineering / P.G. Professional Courses of our Institution and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of May 2025.

V. Keerthana 10/9/24
[V. KEERTHANA/AP/ECE]
Signature of the Guide

Signature of HoD

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
STUDENT PROJECT PROPOSAL

Bio Energy Pacemakers: Harnessing Body Power for Lifelong Cardiac Care

SUBMITTED BY

H.THOWFIQUE AHAMED
K.VIJAY
A.MARIMUTHU
S.DEVA

UNDER THE GUIDANCE OF

Ms.P.Delphine Mary
ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Application No. : MS- 1295

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

APPLICATION FOR STUDENT PROJECT PROPOSAL (2024-2025)

Project Title : **Bio-Energy pacemaker: Harnessing body power for lifelong cardiac care**

Student Details:

S.No	Name of the Student	Mobile No.	Email_id
1.	THOWFIQUE AHAMED H	9361061287	thowfiqueahamed5@gmail.com
2.	DEVA S	7358845238	citydeva7777@gmail.com
3.	VIJAY K	7550272557	kumav291@gmail.com
4.	MARIMUTHU A	8870264897	marimuthumarimuthu64452@gmail.com

Name of the Guide : P.Delphine Mary
Designation : Assistant professor
Department (Full Form) : Electronic and communication engineering
Mobile Number : 8248007233
Email : delphine@miet.edu
Name of the Institution with Address : MIET Engineering College, Trichy - Pudukkottai Road, Trichy 620007
Has a similar project been carried out in your Institution / elsewhere? : No
Course Studying : UG Engineering
Project Details : Attached

Declaration

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Signature of the Guide
P. DELPHINE MARY

Signature of HoD

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
STUDENT PROJECT PROPOSAL

Optimised Landslide Detection & Alert System Using IoT

SUBMITTED BY

Pragadeeswaran.V
Mohamed Tharik.A
Asarab Ali.A
Vishnu Varthan.S

UNDER THE GUIDANCE OF

Mrs.B.T.Kirthika
ASSISTANT PROFESSOR

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Application No. : EEE- 1950

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

APPLICATION FOR STUDENT PROJECT PROPOSAL (2024-2025)

Project Title : **Optimised Landslide Detection & Alert System Using IoT**

Student Details:

S.No	Name of the Student	Mobile No.	Email_id
1.	PRAGADEESWARAN V	9345832080	pragadeesh2704@gmail.com
2.	MOHAMED THARIK A	9894408114	tharik1432f@gmail.com
3.	ASARAB ALI A	9600388076	asarafa709@gmail.com
4.	VISHNU VARTHAN S	6385650681	vishnucrazy356@gmail.com

Name of the Guide	: KIRTHIKA B T
Designation	: ASSISTANT PROFESSOR
Department (Full Form)	: ELECTRONICS AND COMMUNICATION ENGINEERING
Mobile Number	: 9791229128
Email	: kirthika.bt@gmail.com
Name of the Institution with Address	: MIET Engineering College, Trichy - Pudukkottai Road, Trichy 620007
Has a similar project been carried out in your Institution / elsewhere?	: No
Course Studying	: UG Engineering
Project Details	: Attached

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
STUDENT PROJECT PROPOSAL

MINIATURIZED MEMS BASED COCHLEAR IMPLANT FOR HEARING DEFECTS

SUBMITTED BY

Fahadhu Rilwan A
Sriganth S
Mohamed Suhaj B
Sanjay V

UNDER THE GUIDANCE OF

Dr.S.Archana
ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Application No. : EEE- 3062

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

APPLICATION FOR STUDENT PROJECT PROPOSAL (2024-2025)

Project Title : **MINIATURIZED MEMS BASED COCHLEAR IMPLANT FOR HEARING DEFECTS**

Student Details:

S.No	Name of the Student	Mobile No.	Email_id
1.	FAHADHU RILWAN A	7094642611	rilwan78900@gmail.com
2.	SRIGANTH S	7397740161	sriganth415@gmail.com
3.	MOHAMED SUHAJ B	8056420180	mhdsuhaj007@gmail.com
4.	SANJAY V	9750734878	sanjaythecuber@gmail.com

Name of the Guide	: Dr. ARCHANA S
Designation	: ASSISTANT PROFESSOR
Department (Full Form)	: ELECTRONICS AND COMMUNICATION ENGINEERING
Mobile Number	: 9447449202
Email	: archana.s@miet.edu
Name of the Institution with Address	: MIET Engineering College, Trichy - Pudukkottai Road, Trichy 620007
Has a similar project been carried out in your Institution / elsewhere?	: No
Course Studying	: UG Engineering
Project Details	: Attached

Declaration

This is to certify that above mentioned students in table are bonafide **final year** students of P.G. Science / U.G. Engineering / P.G. Professional Courses of our Institution and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of May 2025.

Signature of the Guide **Signature of HoD** **Signature of the Principal/Registrar/ Dean**

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
STUDENT PROJECT PROPOSAL

DESIGN AND FABRICATION OF HARMONIC VERTICLE AXIS WIND TURBINE WITH SOLAR PANEL FOR ELECTRIC VEHICLE MOBILE RECHARGEABLE STATION AND STREET LIGHT

SUBMITTED BY

S.THOUFIQ UMAR
Y. MOHAMED HASSAN DHANVEER
B. YUVAPRASATH
H. JASEEM KHAN

UNDER THE GUIDANCE OF

Dr. K. PANNEER SELVAM
ASSOCIATE PROFESSOR
DEPARTMENT OF MECHANICAL ENGINEERING

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TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Application Number: 1623

Mechanical Engineering (EME

APPLICATION FOR STUDENT PROJECT PROPOSAL (2023-2024)

Project Title : Design and Fabrication of Harmonic Vertical Axis Wind Turbine with Solar Panel for E-Vehicle mobile rechargeable station and Street light.

Student Details:

S.No	Name of the Student	Mobile No.	Email_id
1.	Thoufiq Umar S	6383650237	mechthoufiqumars@gmail.com
2.	Mohamed Hassan Dhanveer Y	7339205357	dhanveermech@gmail.com
3.	Yuvaprasath B	8825781635	yuvaprasath444@gmail.com
4.	Jaseem Khan H	8248580753	jaseemkhan0304@gmail.com

Name of the Guide : Dr. K. Panneer Selvam
Designation : Associate Professor
Department (Full Form) : Mechanical Engineering
Mobile Number : 9894967931
Email : kpselvam.kutty@gmail.com
Name of the Institution : M.I.E.T. Engineering College
Institution Address with Pin code : Trichy-Pudukkottai Main Road, Gundur, Tiruchirappalli 620007
District : Tiruchirappalli

Has a similar project been carried out in your Institution / elsewhere? : No
Course Studying : UG Engineering
Project Details : Attached

Declaration

This is to certify that Mr. S. Thoufiq Umar, Mr. Y. Mohamed Hassan Dhanveer, Mr. B. Yuvaprasath and Mr. H.Jaseem Khan is a bonafide final year students of ~~P.G. Science~~ / U.G. Engineering / ~~P.G~~ Professional Courses of our Institution and it is also certified that two copies of utilization certificate an final report along with seminar paper will be sent to the Council after completion of the project by the en of May 2024.

Signature of the Guide

Signature of HoD

Signature of the Principal/Dean/Registra
(with seal)

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M.I.E.T. ENGINEERING COLLEGE TRICHY-7

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