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2.2.1 The institution assesses the learning levels of the students and introduces special programmes for advanced learners and slow learners.

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List of Advanced Learners		
Department Of Computer Science Engineering		
ACADEMIC YEAR 2022-2023		
SI NO.	REGISTER NO.	NAME OF STUDENT
1	JEC21CS007	ABIN BIJOY
2	JEC21CS013	AKHIL JOSE
3	JEC21CS014	ALAN JOSE
4	JEC21CS041	ATHUL MURALI

Joseph





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List Of Slow Learners		
Department Of Mechanical Engineering		
ACADEMIC YEAR 2022-2023		
SI NO.	REGISTER NO.	NAME OF STUDENT
1	JEC19ME003	ABHINAV K KRISHANA
2	JEC19ME028	ATHUL KRISHNA C
3	JEC19ME031	GIRISH KRISHNAN P K
4	JEC19ME032	HAMIL SUNNY
5	JEC19ME033	HARIPRASAD M U
6	JEC19ME043	MOHAMMED BADSHA K P

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University Toppers



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
(A Kerala State Government University)

POSITION CERTIFICATE

Ref :B.Tech/175/2022

Date :19/12/2022

This is to certify that Mr/Ms **AKHIL JOSEPH (JEC18MC004)** has completed **B.Tech Degree in Mechatronics Engineering** in the year **June 2022**. He/She is one among the top two percentage of all the successful candidates of **B.Tech Degree Mechatronics Engineering** registered under APJ Abdul Kalam Technological University and graduated in the year **2022** based on the CGPA.

Controller of Examination

Sl. No.: 42097

Email: exam@ktu.edu.in • Website: www.ktu.edu.in





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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
(A Kerala State Government University)

POSITION CERTIFICATE

Ref :B.Tech/186/2022

Date :19/01/2023

This is to certify that Mr/Ms **HAGGIN C SAJEEV (JEC18MC019)** has completed **B.Tech Degree in Mechatronics Engineering** in the year **June 2022**. He/She is one among the top two percentage of all the successful candidates of **B.Tech Degree Mechatronics Engineering** registered under APJ Abdul Kalam Technological University and graduated in the year **2022** based on the CGPA.

Controller of Examination



Ph. +91 4884 259000

Email: exam@ktn.edu.in • Website: www.ktn.edu.in





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JYOTHI ENGINEERING COLLEGE

18th GRADUATION CEREMONY

AWARDEE LIST

i) S8 Topper – B.Tech (2019 - 2023)

1	HARSHA NARAYANAN	SGPA –9.82	CE Dept
2	A. KRISHNAPRASAD	SGPA – 9.47	CSE Dept
3	ALEN PAUL	SGPA – 8.59	ECE Dept
4	ASWIN V M	SGPA – 8.26	EEE Dept
5	VICTOR VARGHESE	SGPA – 8.26	EEE Dept
6	MOHAMMED IBRAHIM SHAH M A	SGPA –9.03	ME Dept
7	SAJNA SUNNY T	SGPA – 9.47	MR Dept

ii) Students with Minor – B.Tech (2019 - 2023)

1	Ms. ARCHITHA K.P	Civil Engineering	Electrical and Electronics Engineering
2	Ms. SWETHA SURESH T	Civil Engineering	Electrical and Electronics Engineering
3	Ms. ANAIDA BABU M	Computer Science & Engineering	Mechatronics
4	Mr. DEO SAJU	Computer Science & Engineering	Mechatronics
5	Ms. MARIA ROSE THAYIL	Computer Science & Engineering	Mechatronics
6	Mr. MUHAMMAD ALISHIHAB VS	Computer Science & Engineering	Electronics and Communication Engineering



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7	Ms. NAMITA JOSEPH	Computer Science & Engineering	Mechatronics
8	Ms. SHELNA GEORGE	Computer Science & Engineering	Mechatronics
9	Mr. ASWIN V M	Electrical & Electronics Engineering	Computer Science & Engineering
10	Ms. LIVIYA VLJU	Electrical & Electronics Engineering	Computer Science & Engineering
11	Mr. VICTOR VARGHESE	Electrical & Electronics Engineering	Computer Science & Engineering
12	Mr. AJIN K J	Mechatronics	Computer Science & Engineering
13	Mr. AKSHAY P G	Mechatronics	Computer Science & Engineering
14	Mr. ALLEN GEORGE JOSE	Mechatronics	Electrical & Electronics Engineering
15	Mr. ASWIN A VINOY	Mechatronics	Computer Science & Engineering
16	Mr. JOSEPH K A	Mechatronics	Computer Science & Engineering
17	Ms. SAJNA SUNNY T	Mechatronics	Electronics & Communication Engineering

iii) Students with both Honor and Minor

B.Tech (2019 - 2023)



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1	RHEA SAMUEL	Electrical & Electronics Engineering (Honours)	Mechatronics Minor
2	Ms. JEENA JOHNSON	Civil Engineering (Honours)	Electrical and Electronics Engineering Minor

iv) Overall Topper – B.Tech (2019 - 2023)

1	HARSHA NARAYANAN	CGPA – 9.71	CE Dept
2	AISWARYA K	CGPA – 9.53	CSE Dept
3	SHELNA GEORGE	CGPA – 9.53	CSE Dept
4	SANA SAID	CGPA – 9.34	ECE Dept
5	RHEA SAMUEL	CGPA – 8.89	EEE Dept
6	ARUN GIRI	CGPA – 8.60	ME Dept
7	S REGHURAJ	CGPA – 9.35	MR Dept

v) Overall Topper – M.Tech (2021 - 2023)

1	ATHIRA R	CGPA – 9.21	CE Dept
2	SEBY T B	CGPA – 8.46	CSE Dept
3	ARJUN K M	CGPA – 8.97	ME Dept

vii) Sunny Diamond Award – B.Tech (2019 - 2023)

1	Mr. Ajin K.J	CGPA – 9.17	MR Dept
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Congratulations

Toppers of S8 University Examination
(2019-2023 Batch) Mechanical Engineering



ARON SAJI
SGPA: 8.82



SOORYA S.
SGPA: 8.79



MOHAMMED IBRAHIM
SGPA: 8.76



FEBIN YESUDAS
SGPA: 8.68



SREERAJ KRISHNAN K.
SGPA: 8.68



RAHUL E. R.
SGPA: 8.62



SANJAY K. V.
SGPA: 8.53



ARUN GIRI
SGPA: 8.50



MOHAMMED JABIR
SGPA: 8.47



ASHISH DANIEL
SGPA: 8.41

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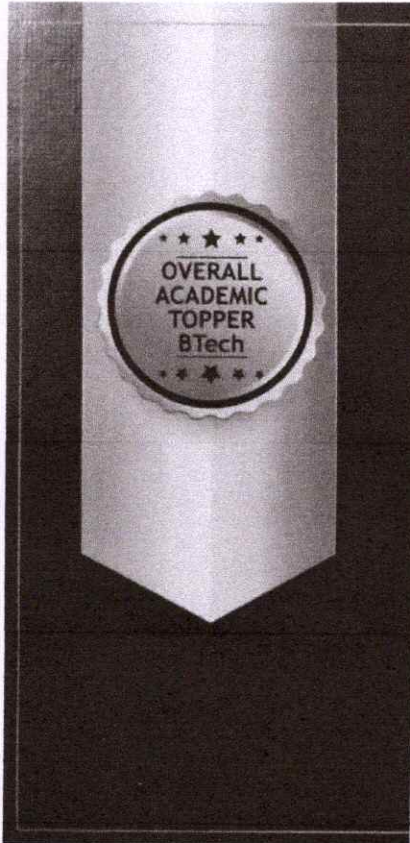
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CERTIFICATE

This is to certify that Mr. ARUN GIRI, Mechanical Engineering, is the Overall Academic Topper with 8.60 CGPA in the B.Tech Examinations of APJ Abdul Kalam Technological University during the academic period 2019-23.

Jondis
Principal

Thomas Kaldhazy
Executive Manager

Jondis
President - TET & Manager



Jondis



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Activities of Advanced learners

Student representation in various committees

IEDC Executive Committee 2022-2023

IEDC Faculty Chairman : Mr. Anil Antony (Nodal Officer, AP-CSE)

IEDC Faculty Convener : Ms. Akhil Balakrishnan (AP, EEE)

Faculty Members : Mr. Jinesh K.J. (AP, MR)

: Ms. Roshini Rajan (AP, ECE)

: Ms. Jeffy Johny (AP, CE)

: Mr. Nice Menachery (AP, ME)

: Mr. Jayakrishnan A (AP, AD)

IEDC Student Coordinators 2022-2023

CEO	AMAL SHIBU (S7 CSE)	ACEO	NAVANEETH (S5 RA)	VISMAYA THANKAM JOHN (S3 RA)
CTO	AJIN K.J. (S7 MR)	ACTO	ARJUN M S (S5 CSE)	AGNA ROY (S3 CE)
COO	ALEESHA P MAXWELL (S7 CE)	ACOO	ARUNIMA ANIL (S5 AD)	JOYAL PUTHUR (S3 EEE)
CMO	VICTOR VARGHESE (S7 EEE)	ACMO	SNEHA C SHAJI (S5 CSE)	SACHIN RAJ M (S3 AD)
CSO	BOUDHIK S (S7 ME)	ACSO	GAUTHAM J (S5 MR)	SHIBIN M S (S3 CSE)
CCO	SIDHARTH S UNNITHAN (S7 CSE)	ACCO	SEPHAN PAUL JOPHY (S5 ME)	GRACE MARIA GEORGE (S3 MR)
CFO	AISWARYA HARIHARAN (S7 ECE)	ACFO	SIDHARTH K V (S5 EEE)	SNEHA P S (S3 CSE)



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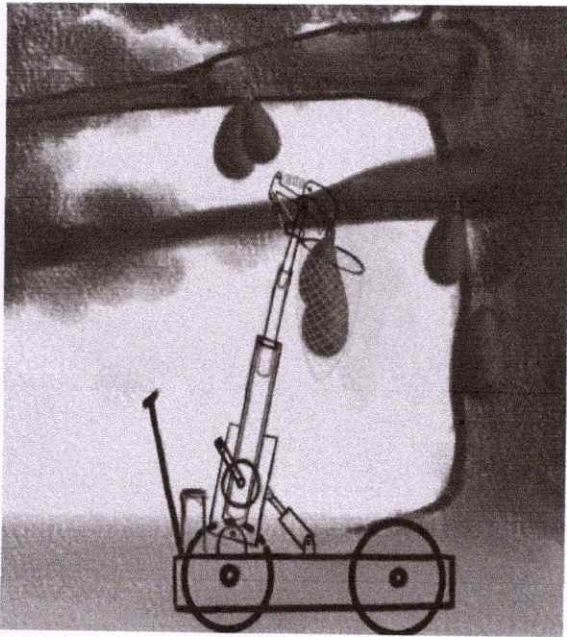
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Involvement in Innovative projects

A project with the aim of developing a mechanical solution for harvesting jackfruit and successfully prepared a model.



അഗ്രി ഹാക്കത്തോൺ:
ജ്യോതി കോളേജ് വിജയികൾ



അഗ്രി ഹാക്കത്തോണിൽ വിജയികളായ ജ്യോതി എൻജിനീയറിങ് കോളേജ് വിദ്യാർത്ഥികൾ കൃഷിമന്ത്രി പി. പ്രസാദിനൊപ്പം

ചെറുതുരുത്തി - കേരള കാർഷിക വികസന വകുപ്പിന്റെ സംസ്ഥാനതല അഗ്രി ഹാക്കത്തോണിൽ ജ്യോതി എൻജിനീയറിങ് കോളേജ് വിജയികളായി. വിജയികളായ വിദ്യാർത്ഥികൾക്ക് കോളേജ് അനുമോദനമൊരുക്കി. പാഞ്ഞാല പഞ്ചായത്ത് പ്രസിഡന്റ് വി. തങ്കമ്മ, വാർഡ് അംഗം ലതാ ഓസ്റ്റർ, കോളേജ് എക്സി. മാനേജർ ഫാ. തോമസ് കാക്കറ്റേരി, അക്കാദമിക് ഡയറക്ടർ ഫാ. ജോസ് കണ്ണമ്പുഴ, പ്രിൻസിപ്പൽ ഡോ. ജോസ് വി. തോട്ടിൽ തുടങ്ങിയവർ പ്രസംഗിച്ചു.



കേരള കാർഷിക വികസന വകുപ്പ് സംഘടിപ്പിച്ച സംസ്ഥാനതല അഗ്രി ഹാക്കത്തോൺ 2023 വിജയികളായ ചെറുതുരുത്തി ജ്യോതി എൻജിനീയറിങ് കോളേജ് വിദ്യാർത്ഥികൾക്ക് പാഞ്ഞാല പഞ്ചായത്ത് പ്രസിഡന്റ് വി തങ്കമ്മ ഉപഹാരം നൽകുന്നു



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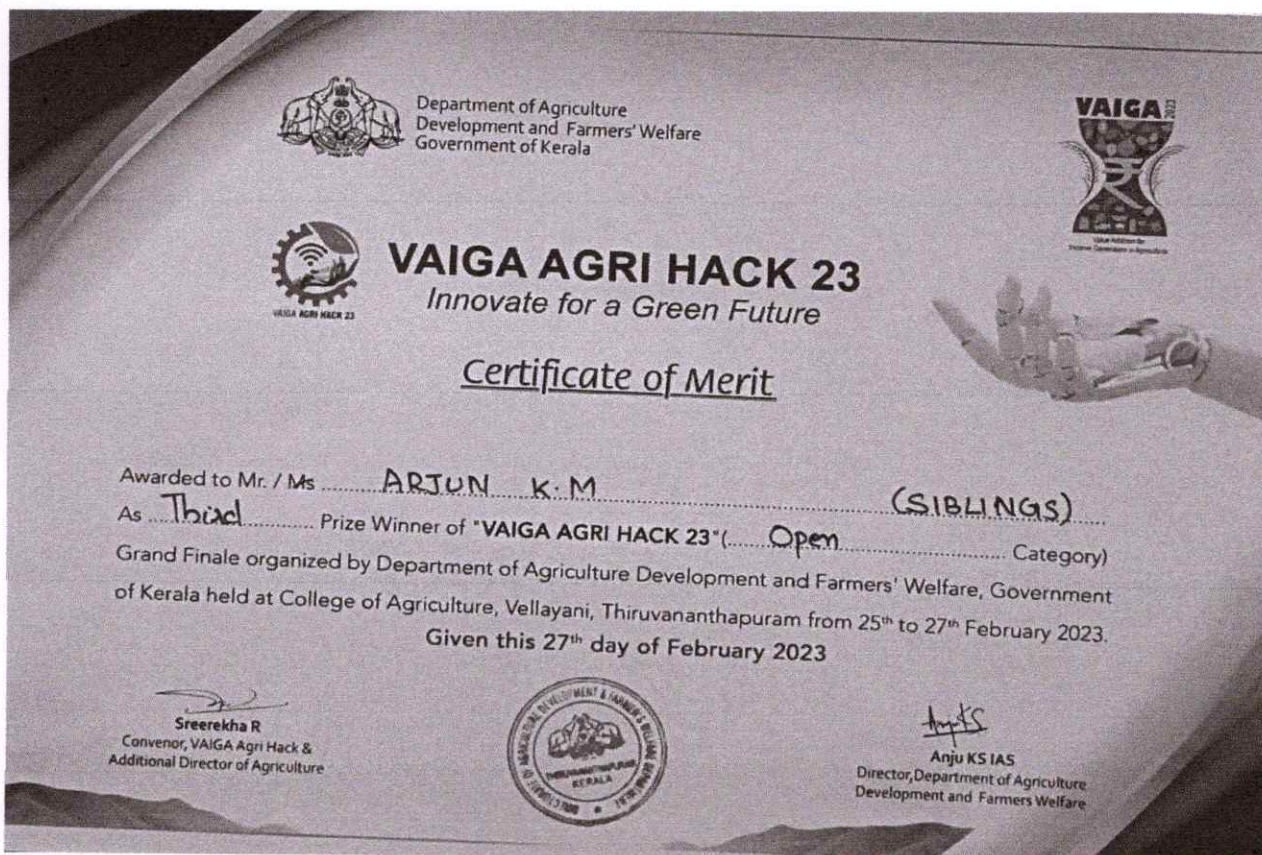
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Paper publication

Student Publications Details

Academic Year : 2022-23

Sl No	Name of students	Name of paper	Name of journal	Date/issue
1	Ms.Bhavana Vijayan, Mr.Ashban Shyjan, Mr.ChrisNoyal Ms.Sumyuktha K	Web Based Energy Consumption, Monitoring And Control	Proceedings of national conference on emerging technologies 2023-NCET'23 ISBN No. 978-81-950457-1-6	Jun 16, 2023
2	Ms.Bhavana Vijayan, Mr.Ashban Shyjan, Mr.ChrisNoyal Ms.Sumyuktha K	Energy Consumption, Monitoring and Control System	SAN International Scientific Publication ISBN No. 978 – 81-963849-3-7	Jun 24, 2023.
3	Mr.Adithya K, Mr.AlenPaul, Ms.FathimaNazrin, Ms.Sana Said	Aquatic Debris Remover:IoT Based Ph Level Sensing Trashbot	SAN International Scientific Publication ISBN No. 978 – 81-963849-3-7	Jun 24, 2023
4	T.K Smrudhu	Pavement condition Assessment Using Fuzzy Analytic Heirarchy Process	International Journal of Pavement and Technology	3 rd May 2023
5	Subina S	Modelling of Pedestrian gap Acceptance Behaviour at uncontrolled Intersections	IRJET	Issue 3 March2023



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6.	Surya s & Archana S	Study on Pedestrian crossing Behaviour at uncontrolled Intersection	International conference on innovative Development in Engineering advances	9 th -11 th March 2023
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International Journal of Pavement Research and Technology
<https://doi.org/10.1007/s42947-023-00335-6>



International Journal of Pavement Research and Technology

ORIGINAL RESEARCH PAPER



Pavement Condition Assessment Using Fuzzy Analytic Hierarchy Process

T. K. Smrudu¹ · V. S. Sanjay Kumar² · Jisha Akkara¹

Received: 31 October 2022 / Revised: 24 April 2023 / Accepted: 3 May 2023
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Abstract

This study develops a fuzzy mathematical analysis called the Fuzzy Analytic Hierarchy Process (FAHP) for Pavement Condition Assessment (PCA) and prioritization by considering the functional and structural evaluation of pavement as well as traffic volume. The Pavement Condition Index (PCI), characteristic deflection, International Roughness Index (IRI), and Commercial Vehicles Per Day (CVPD) are identified as four performance indicators for PCA. Software for executing FAHP is developed using Python, providing performance indicator values as inputs, and the deliverable is the Fuzzy Pavement Priority Index (FPPI). The selected stretches of National Highway (NH) 66, State Highway (SH) 75, SH 61, and SH 51, in the Thrissur district of Kerala, India is prioritized from the Maintenance and Rehabilitation (M&R) aspect based on FPPI values from the software. FAHP, being a combination of the Analytic Hierarchy Process (AHP) and fuzzy logic, measures the degree of consistency in the judgments provided by a decision-maker and captures the subjectivity inherent in human judgment. The results demonstrate that the collected data serves as a good estimator to prioritize the stretches for M&R purposes. The proposed method, being a more scientific approach, serves as a base model for PCA and the developed software delivers FPPI values suitable for performing the differential ranking of stretches.

Keywords Fuzzy Pavement Priority Index · Pavement Condition Assessment · Analytic Hierarchy Process · Prioritization

1 Introduction

Pavement Condition Assessment (PCA) includes evaluating the existing condition of the pavement by assessing the distresses, prioritizing the selected pavement stretches for Maintenance and Rehabilitation (M&R) purposes based on deterioration rate, and forecasting future pavement conditions. Both structural and functional evaluations are required to identify the current condition of any pavement. The performance indicators in PCA are often subjective in nature and the rating of pavement distresses involves possibilities

of variations in human judgements. Inconsistencies in data may be caused by the instruments used for data collection due to changes in field conditions. The present paper focuses on the development of a systematic approach to the Fuzzy Analytic Hierarchy Process (FAHP) for mitigating these variations in PCA and to develop software for prioritizing the selected stretches based on chosen performance indicators from M&R aspects. In this study, the functional performance of pavements is determined by assessing the type, severity, and quantity of distress through a detailed pavement condition survey and represented in terms of the pavement condition index (PCI). The pavement roughness is measured using Machine for Evaluating Roughness using Low-cost Instrumentation (MERLIN) and is defined in terms of the International Roughness Index (IRI). The Benkelman Beam deflection technique is used to structurally evaluate the pavement. From the deflection values, characteristic deflection is calculated. Traffic volume influences the efficiency and life of a pavement and thereby possess an impact on the M&R decisions. Thus, traffic volume data expressed in terms of Commercial Vehicles Per Day (CVPD) is also considered to

✉ T. K. Smrudu
smrudutk333@gmail.com
V. S. Sanjay Kumar
sanjay.natpac@gmail.com
Jisha Akkara
jishaakkara@jecc.ac.in

¹ Jyothi Engineering College, Thrissur, Kerala, India
² KSCSTE-National Transportation Planning and Research Centre, Thiruvananthapuram, Kerala, India

Published online: 15 June 2023



Springer

J. Akkara



Jyothi Engineering College

Reaccredited with NAAC (Grade A) and NBA Programmes*

Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University
A CENTRE OF EXCELLENCE IN SCIENCE AND TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR, 679531 | Ph. +91 4884 259000 | info@jecc.ac.in | www.jecc.ac.in



*NBA reaccredited B.Tech Programmes in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering valid till 2025



Jyothi





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List of B.Tech Honours (2022-23 Batch)

Student Name	Program & Branch	CGPA	Status
JEENA JOHNSON	B.Tech-CIVIL ENGINEERING	8.91	Approved by University
RHEA SAMUEL	B.Tech- ELECTRICAL AND ELECTRONICS ENGINEERING	8.89	Approved by University





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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY (A State Government University) Thiruvananthapuram, Kerala, India

23.08.2023

PROVISIONAL CERTIFICATE

This is to certify that the following candidate has qualified for the award of degree as detailed below:

Name	: JEENA JOHNSON
Register Number	: JEC19CE011
Degree	: Bachelor of Technology (Honours) in Civil Engineering with Minor in Electrical and Electronics Engineering
Month & Year of Passing	: June 2023
College of Study	: JYOTHI ENGINEERING COLLEGE
Cumulative Grade Point Average (CGPA)	: 8.91 (First Class with Distinction)

Controller of Examinations



Authorized Signatory
APJ Abdul Kalam Technological University
Date: Wed Aug 23 19:41:16 IST 2023





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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY (A State Government University) Thiruvananthapuram, Kerala, India

21.08.2023

PROVISIONAL CERTIFICATE

This is to certify that the following candidate has qualified for the award of degree as detailed below:

Name	: RHEA SAMUEL
Register Number	: JEC19EE012
Degree	: Bachelor of Technology (Honours) in Electrical and Electronics Engineering with Minor in Mechatronics
Month & Year of Passing	: June 2023
College of Study	: JYOTHI ENGINEERING COLLEGE
Cumulative Grade Point Average (CGPA)	: 8.89 (First Class with Distinction)

Controller of Examinations



Authorized Signatory
APJ Abdul Kalam Technological University
Date: Mon Aug 21 12:35:30 IST 2023





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Additional certification programmes

LIST OF STUDENTS SUCCESSFULLY COMPLETED NPTEL ONLINE CERTIFICATE COURSES

Sl.No.	NAMES
1	Bineetha Wilson A
2	Jeena Johnson
3	Surya C S
4	Architha K P
5	Abin Bljoy
6	Akhil Jose
7	Alan Jose
8	Athul Murali
9	Anshif E A
10	Aron Shaji
11	Febin Yesudas
12	P Pavan
13	Saibin Jose
14	Sandra Jojo



Handwritten signature in green ink.



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DEPARTMENT OF MECHANICAL ENGINEERING

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22GE14534310123

To
ANSHIF EA
ENKAKKATTIL HOUSE, AMKAVU
KALLINGALAKATHU HOUSE, MULLURKARA
CHELAKKARA
KERALA - 680586
PH. NO :9048519270

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ANSHIF EA

for successfully completing the course

Non-conventional Energy Resources

with a consolidated score of **55** %

Online Assignments	20.47/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 2009

Devendra Jalihal

Prof. Devendra Jalihal

Chairman

Centre for Continuing Education, IITM

Jan-Apr 2022

(12 week course)

Andrew Thangara

Prof. Andrew Thangara

NPTEL, Coordinator

IT Madras



Indian Institute of Technology Madras



Roll No: NPTEL22GE14534310123

To validate and check scores: <https://npTEL.ac.in/noc>



Joralk



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Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ABIN BIJOY

for successfully completing the course



Problem Solving Through Programming in C

with a consolidated score of **75 %**

Online Assignments	24.63/25	Programming Assignment	25/25	Proctored Exam	25.5/50
--------------------	----------	------------------------	-------	----------------	---------

Total number of candidates certified in this course: 2015

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS101543490114

To validate the certificate



No. of credits recommended: 3 or 4





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Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

BINEETHA WILSON A

for successfully completing the course



Geographic Information Systems

with a consolidated score of **75 %**

Online Assignments	24.38/25	Proctored Exam	50.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **340**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Apr 2023

(12 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23CE16S43320323

To validate the certificate



No. of credits recommended: 3 or 4





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Motivation Through Scholarship

Students benefited by scholarships, freships, etc. provided by the institution



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No: JEC/2/A/8/23

03 April 2023

ORDER

JEEC – Management Scholarships - Approval of - Orders Issued.

The Management of Jyothi Engineering College, as part of its policy to extend scholarship to meritorious students of our college based on their family income and marks scores in Plus Two examinations is pleased to grant scholarships to the eligible students admitted in the year 2022-23 and to renew the scholarships granted in respect of the students of previous years

The list of students whose scholarships are granted for the year 2022-23 (Including the renewal of scholarships to previous batches is attached herewith. The students Concerned are directed to meet the Executive Manager and to obtain the details.

Management Scholarship based on Family income and Marks obtained:-

Departmental Scholarship (Including LET Admission)	-	Rs. 41,34,450.00
Scholarships (Special cases)	-	Rs. 11,37,597.00
Management Merit Scholarship (KEAM Rank up to 5000)	-	Rs. 75,000.00
Management Merit Scholarship (KEAM Rank 5001-10000)	-	Rs. 3,37,500.00
Management Merit Scholarship (KEAM Rank 10001-15000)	-	Rs. 4,20,000.00
Management Merit Scholarship (KEAM Rank 15001-20000)	-	Rs. 4,50,000.00
Management Merit Scholarship (KEAM Rank 20001-25000)	-	Rs. 4,30,000.00
Scholarship based on Plus Two marks scored – (90 to 94%)	-	Rs. 3,80,000.00
Scholarship based on Plus Two marks scored – (95% and above)	-	Rs. 11,30,000.00
Tuition Fee Waiver scholarships - 2019 Batch	-	Rs. 14,25,000.00
Tuition Fee Waiver scholarships - 2020 Batch	-	Rs. 19,50,000.00
Tuition Fee Waiver scholarships - 2021 Batch	-	Rs. 15,00,000.00
Tuition Fee Waiver scholarships - 2022 Batch	-	Rs. 11,25,000.00
Management Scholarship (2020-21 Batch)	-	Rs. 1,08,000.00
Management Scholarship (2021-22 Batch)	-	Rs. 7,49,000.00
Management Scholarship (2022-23 Batch)	-	Rs. 62,74,100.00
		Rs.2,16,25,647.00
		=====
Hostel Scholarship	-	Rs. 1,11,036.00

Hostel Scholarship

Rs.2,16,25,647.00

Rs. 1,11,036.00

Detailed list of all eligible students are attached herewith.

Thomas Kakkassery

Fr. THOMAS KAKKASSERY
Executive Manager

To
The Members

Copy to: The PRL/RGR/ Accounts Section/File

True C

Joseph

Joseph

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Joseph
Dr. JOSE P. THEPATTI
Principal
Jyothi Engineering College
Cherturuthy, Thrissur - 679531



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STUDENTS CLEARED COMPETITIVE EXAMINATIONS

Graduate Aptitude Test in Engineering
 വിദ്യാഭ്യാസ മന്ത്രാലയം

Scorecard

Name of Candidate	VISHNU VIJAYAN	
Parent's/Guardian's Name	VIJAYAN TN	
Registration Number	CE23S71327084	
Date of Birth	12-Jun-2001	
Examination Paper	Civil Engineering (CE)	

GATE Score:	323	Marks out of 100**:	24.34		
All India Rank in this paper:	13929	Qualifying Marks**	General	EWS/OBC (INCL)	SC/ST/PwD
Number of Candidates Appeared in this paper:	83187		26.6	23.9	17.7

Valid up to 31st March 2026

Mohitep
Prof. Preetamkumar M. Mohite
 Organizing Chairman, GATE 2023
 on behalf of NCB-GATE, for MoE

* Normalized marks for Civil Engineering (CE) paper

** A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category for which valid category certificate, if applicable, is produced along with this score card.

General Information

The GATE 2023 score is calculated using the formula

$$\text{GATE Score} = S_g + (S_t - S_g) \frac{(M - M_q)}{(M_t - M_q)}$$

where,

- M is the marks obtained by the candidate in the paper, mentioned on this GATE 2023 scorecard
- M_q is the qualifying marks for general category candidate in the paper
- M_t is the mean of marks of top 0.1% or top 10 (whichever is larger) of the candidates who appeared in the paper (in case of multi-session papers including all sessions)
- S_g = 350, is the score assigned to M_q
- S_t = 900, is the score assigned to M_t

In the GATE 2023 score formula, M_q is 25 marks (out of 100) or $\mu + \sigma$, whichever is greater. Here μ is the mean and σ is the standard deviation of marks of all the candidates who appeared in the paper.

Qualifying in GATE 2023 does not guarantee either an admission to a post-graduate program or a scholarship/assistantship. Admitting institutes may conduct further tests and interviews for final selection.

Graduate Aptitude Test in Engineering (GATE) 2023 was organized by Indian Institute of Technology Karpur on behalf of the National Coordination Board (NCB) – GATE for the Department of Higher Education, Ministry of Education (MoE), Government of India.

True Copy Attested



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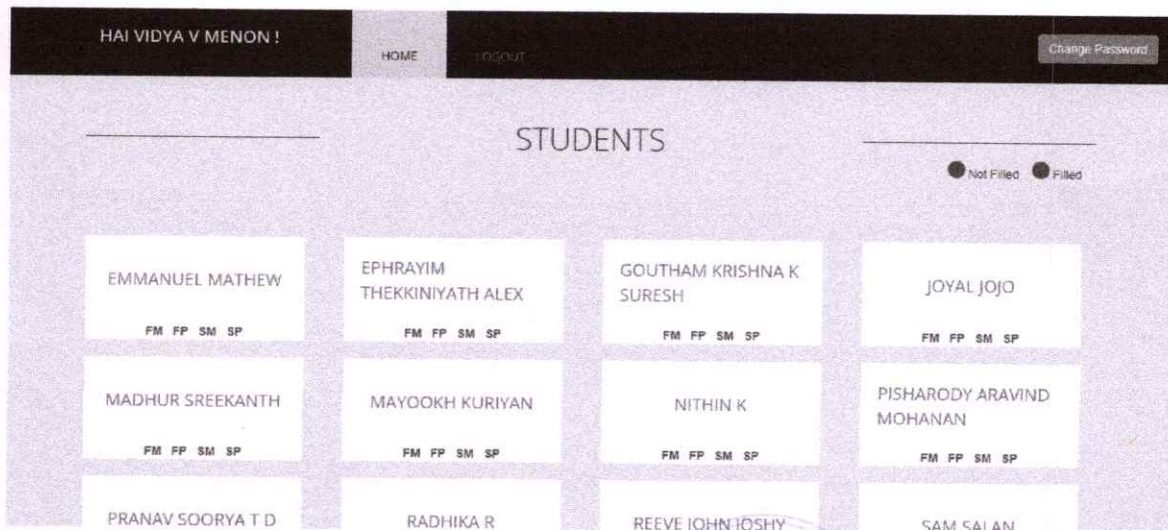
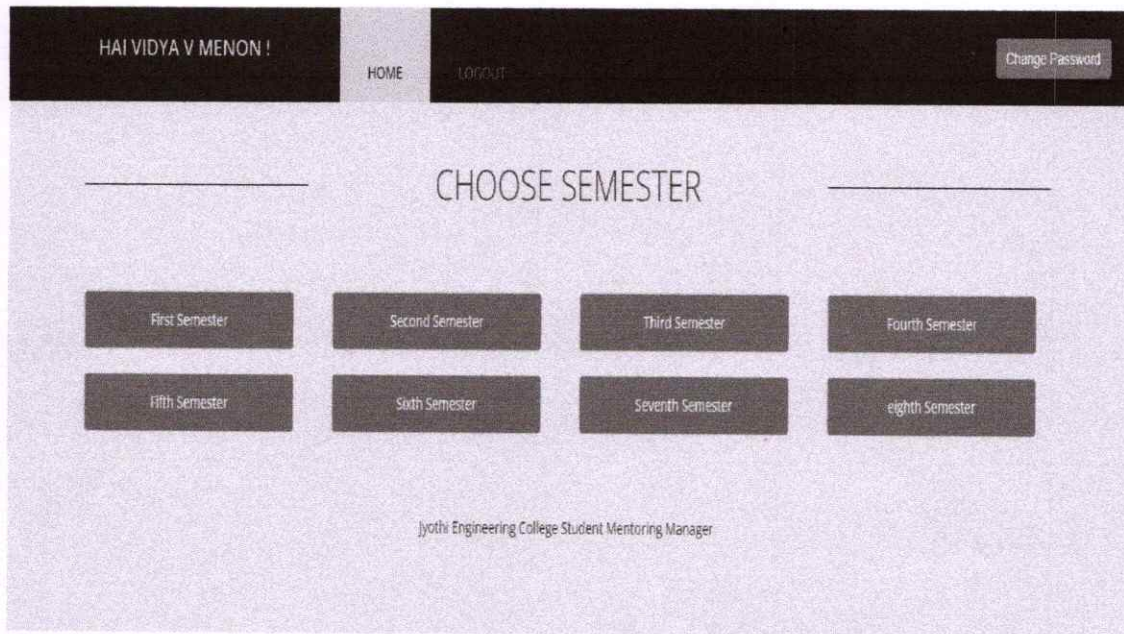


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Activities of Slow learners

Mentoring Details

STUDENT MENTORING MONITORING SOFTWARE



Jeyaraj



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MENTORING TYPE

First Mentoring Meeting

Second Mentoring Meeting

First Parent Call

Second Parent Call

Jyothi Engineering College Student Mentoring Manager

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Mentoring Report

Sl.No	Student Name	Tutor	Adm_year	Batch	Branch	Semester	Mentoring_type	Date_mentoring	Time_mentoring	Report	Disciplinary_action
1	VISHNU C	Drisya M.k	2020	ECE	ECE	56	first_parent_call	30-06-2023	29:00:0	Invited for PTA meeting. Informed about the PTA meeting.	
2	SISIRA KM	Drisya M.k	2020	ECE	ECE	56	first_parent_call	30-06-2023	29:00:0	invited for PTA meeting, informed about the bad performance in sessional exam,	
3	SANDRA JOSEPH	Jyothsna G K	2020	CSB	CS	56	first_mentoring	26-06-2023	20:00:0	Good academic performance.	Advised the importance of academic performance for placements.



Joseph



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9 ABHINAV KRISHNA UN	Anto Zacharias	2020	MEA	ME	S6	first_mentoring	20-06-2023	30:00.0	Discuss academics. Total 26 arrears upto date
10 ADITH PRADEEP	Anto Zacharias	2020	MEA	ME	S6	first_mentoring	20-06-2023	00:00.0	Discuss about academics and character of student. Got disciplinary action in last academic year
11 SANJO TS	Jyothsna G K	2020	CSB	CS	S6	first_mentoring	27-06-2023	15:00.0	Very good results. Advised the importance of academic performance for placements
12 AJEL LORANCE	Anto Zacharias	2020	MEA	ME	S6	first_mentoring	20-06-2023	45:00.0	He got 11 arrears up to date. Discuss need of clearing all arrears before S8 university exam.
13 AKHIL K	Anto Zacharias	2020	MEA	ME	S6	first_mentoring	20-06-2023	00:00.0	Discuss need for clearing all arrears. 27 arrear papers upto S5
14 RAHULSREENIVASAN P	Shine P Xaviour	2020	AD	AD	S6	first_parent_call	20-07-2023	30:00.0	No supplies till now. studying only at the time of examination or mini-project presentation. more



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22	ALOK SUNILKUMAR NAIR	Anto Zacharias	2020	MEA	ME	S6	first_mentoring	20-06-2023	45:00.0	Need of clearing arrears for securing a placement, the higher number of arrears in S4 and S5	
23	SANJU SIBI	Jyothsna G K	2020	CSB	CS	S6	first_mentoring	19-06-2023	20:00.0	Average academic performance.	Advised the importance of academic performance for placements
24	AMAL PAULSON	Anto Zacharias	2020	MEA	ME	S6	first_mentoring	21-06-2023	30:00.0	total number of arrears is 8.	
25	SRINESH. N. T	Shine P Xaviour	2020	AD	AD	S6	first_parent_call	20-07-2023	34:00.0	He is not registered written the s6 examinations, total 24 supplies. So Planning to drop the course.	
26	ANANDAKRISHNAN C S	Anto Zacharias	2020	MEA	ME	S6	first_mentoring	21-06-2023	00:00.0	Discuss importance of securing good mark in the internal exam. Last semester 4 subjects are under	
27	SARIN MADHAV M	Jyothsna G K	2020	CSB	CS	S6	first_parent_call	29-05-2023	30:00.0	Average academic performance	Advised the importance of academic performance for placements



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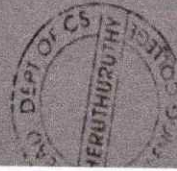
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REMEDIAL DETAILS

Department of Computer Science & Engineering										
Remedial Class Details of 2022 - 2023										
Semester		S3	Subject Code				CST 203			
Subject Name		Data Structure								
Reg No.	Name	First Int marks	Date of Classes Conducted				Topics covered	University (Pass/Fail)	Remarks/Comments	
			4/11/2023	5/01/23	6/01/23	7/01/23				
			1	2	3	4				
JEC21CS121	STEVE TANEX P	27	X	X	X	X	asymptotic notations, problems, graph traversal algorithm, problems, University QP discussion	Pass		
JEC21CS085	PAVIN K JOBY	26	X	X	X	X		Pass		
JEC21CS064	JOBBIN JACOB GEORGE	25	X	X	X	X		Pass		
JEC21CS118	SREE LAKSHMI E A	25	X	X	X	X		Pass		
JEC21CS118	SOAN DIAZ E S	24	X	X	X	X		Pass		
JEC21CS081	MOHITH MOHAN K	22	X	X	X	X		Fail		
JEC21CS070	JOSH JOBY	20	X	X	X	X		Fail		
JEC21CS103	SAJIN SIMON	19	X	X	X	X		Fail		
JEC21CS075	K R JISHNU DEV	17	X	X	X	X		Fail		
JEC21CS072	JOYEL JOSE	13	X	X	X	X		Pass		
JEC21CS106	SANJAY SABU	2	X	X	X	X		Fail		
JEC21CS080	MOHAMMED IRFAN	0	X	X	X	X		Pass		

Name and Signature of Faculty in charge

Dr. Suresh Sasi



Jondhu



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REMEDIAL TIME TABLE

Department of Computer Science and Engineering

DATE	DAY	09.00-09.50	09.50-10.40	10.50-11.40	11.40-12.30	12.30-1.20	01.20-2.10	02.20-03.10	3.10-4.00
01/1/2023	TUESDAY	LSD	DS	DMS	PE	BREAK	DMS	OOPS	SE

DATE	DAY	09.00-09.50	09.50-10.40	10.50-11.40	11.40-12.30	12.30-1.20	01.20-2.10	02.20-03.10	3.10-4.00
01/1/2023	WEDNESDAY	DMS	DMS	OOPS	OOPS	BREAK	DS	DS	DS
02/1/2023	THURSDAY	LSD	DS	DS	DS		OOPS	OOPS	OOPS
03/1/2023	FRIDAY	DMS	DMS	LSD	LSD		OOPS	LSD	LSD

Sheet1 ▾

Dr. Suresh B.S.



Jerald



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A CENTRE OF EXCELLENCE IN SCIENCE AND TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR
JYOTHI HILLS, VETIKATTIRI P.O., CHERUTHURUTHY, THRISSUR, 679531 | Ph. +91 4884 259000 | info@jecc.ac.in | www.jecc.ac.in



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Question Bank

DEPARTMENT OF MECHANICAL ENGINEERING

MET416 COMPOSITE MATERIALS

QUESTION BANK

1. What are the conditions to be satisfied for a material to be called as a composite material.
2. Classify the composite according to type of matrix and reinforcement.
3. Explain about the function of reinforcement and matrix in composite.
4. What are the advantages and disadvantages of composites
5. Discuss about smart composites
6. Explain about types of bonding at interface
7. Explain about wettability of composites
8. What are the advantages of composite materials over the conventional engineering materials?
9. Explain about 1) Fiber pull out 2) Delamination 3) Fiber bridging 4) Debonding
10. Discuss the roles served by matrix and reinforcement in composite material.
11. Explain the processes in the production of carbon fibers.
12. Name the various grades of glass fibers used as reinforcements.
13. List any three properties of Boron fibers.
14. Explain with neat sketches the production process of glass fibers.
15. Discuss the various types of carbon fibers with their properties and applications.
16. Define whiskers.
17. Explain the following:
 - i) Spray layup method ii) Vacuum bagging method
18. Give a comparison between thermosetting and thermoplastic polymers.
19. Write a short note on filament winding process with a neat sketch.
20. List out the advantages of epoxy resin.
21. List out the various production processes for PMCs?
22. Explain filament winding process with a neat sketch?
23. List out the various production processes for PMCs?
24. Explain filament winding process with a neat sketch?
25. Discuss any one liquid state processing of MMCs with neat sketch.
26. Explain spray co-deposition technique for MMCs processing with neat sketch.
27. Describe squeeze casting method for MMC production with neat figure?
28. Explain the advantages and disadvantages of Metal Matrix Composites?





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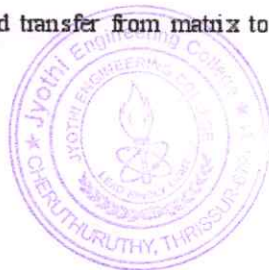
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29. Explain various solid-state production processes for Metal Matrix Composites?
30. What are the advantages of using metals as matrices in composites?
31. What are intermetallic materials? Give Examples?
32. What are the advantages of filament winding process.
33. "Precipitation-hard enable alloy materials are used in the manufacture of metal matrix composites" Comment with proper examples.
34. Discuss the benefits of reaction bonding process of CMCs.
35. With a neat sketch explain liquid infiltration process.
36. With a schematic diagram explain slurry infiltration technique used for fabrication of ceramic matrix composites.
37. Mention the advantages and disadvantages of ceramic matrix composites.
38. Discuss the lanxide process for the fabrication of ceramic matrix composites.
39. State and explain the following failure criteria theories: i) Tsai-Hill ii) Tsai-Wu
40. Explain any two conventional techniques applied for the fabrication of CMCs.
41. Write the major issues to be considered in the liquid infiltration process.
42. State "Maximum stress failure theory" applied in composites.
43. Explain any two conventional techniques applied for the fabrication of CMCs.
44. Write the major issues to be considered in the liquid infiltration process.
45. State "Maximum stress failure theory" applied in composites.
46. Explain Direct Metal oxidation process with neat figure?
47. What are the assumptions in micromechanics studies of composites.
48. Explain Chemical Vapor Infiltration method for CMC production?
49. Explain Sol-Gel technique with neat figures.
50. Give a short note on mechanics of load transfer from matrix to fiber.



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Parents communication

JYOTHI ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
PROGRESS REPORT

NAME OF THE STUDENT: JOHN FRANCIS
ROLL NUMBER: 19

VITH SEMESTER SERIES MARKS

SL. NO	SUBJECT	ATTENDANCE	MAX. MARK	MARKS SCORED
1	EET401: ADVANCED CONTROL SYSTEMS	89	50	20
2	EET413: ELECTRIC DRIVES	64	50	35
3	MET445: RENEWABLE ENERGY ENGINEERING	91	50	33
4	MCN401: INDUSTRIAL SAFETY ENGINEERING	91	50	22
TOTAL			200	110

Remarks: Excellent / Very Good / Good / Satisfactory / Not Satisfactory / Poor

Class Advisor: *AS*

HOD: *[Signature]*

PARENT SIGNATURE: *[Signature]*



John