



## 2.3 - Teaching- Learning Process

<b>2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences</b>		
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**Musaliar**  
COLLEGE OF ENGINEERING AND TECHNOLOGY

Musaliar College PO  
Pathanamthitta - 689653  
Kerala, India




## 1. Online Course Students Certificates



# NPTEL Online Certification


(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**ALFIYA NIZAM**  
for successfully completing the course  
**Data Base Management System**  
with a consolidated score of **53** %


Online Assignments	17.92/25	Proctored Exam	35.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **2095**




Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur


Jan-Mar 2022  
(8 week course)



Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



FREE ONLINE EDUCATION  
**swayam**  
Pathshala vidya, jayate vidya

Roll No: NPTEL22CS51533760073


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



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## NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to  
**SAM K THAMPAN**  
for successfully completing the course

**Data Base Management System**

with a consolidated score of **54** %


Online Assignments	22.92/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **2095**




Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur


Jan-Mar 2022  
(8 week course)



Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS51543780543

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



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PATHANAMTHITTA



**NAAC**  
NATIONAL ASSESSMENT AND  
ACCREDITATION COUNCIL

## Certificate of Completion

✿ This is to certify that ✿

**ANAKHA MOHAN NAIR (MCK20MCA-2004)**

*of MCA has successfully participated the Workshop on  
"Android Application Development using JAVA" Conducted on  
08,09 & 10 December 2021.*

**Dr A S ABDUL RASHEED**  
PRINCIPAL

**Dr TEENA JOSEPH**  
HoD

**Prof Indula Subash**  
Coordinator

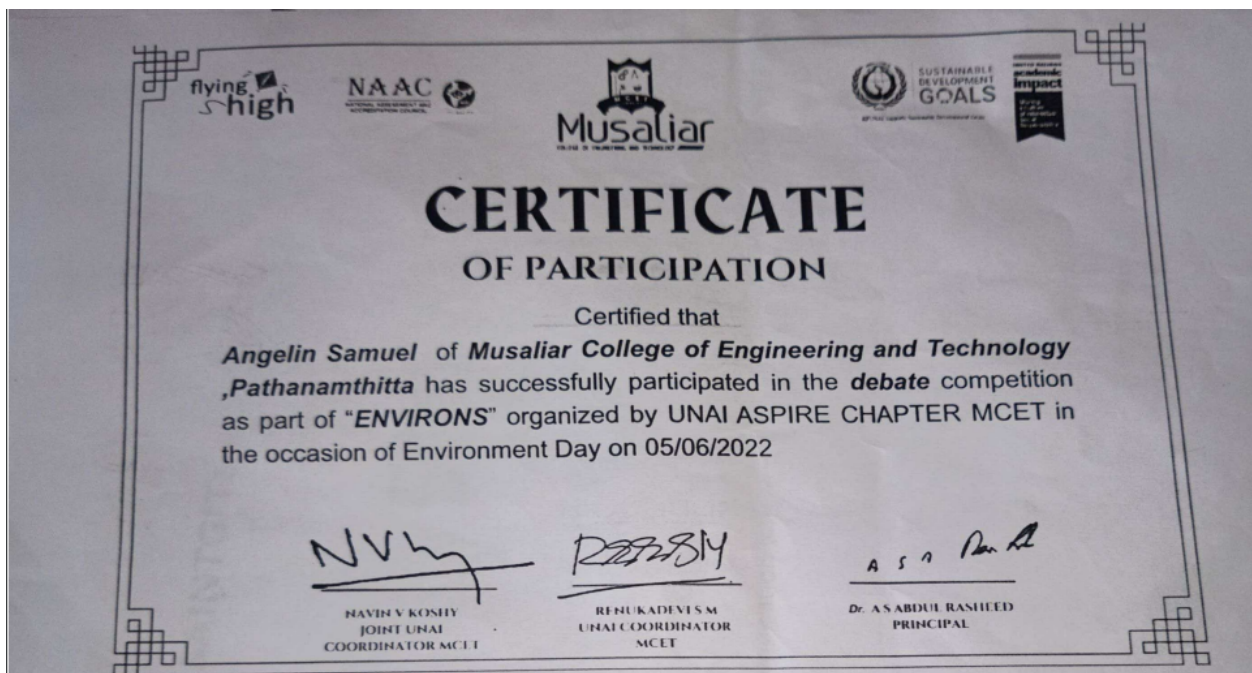


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Kerala, India



**2. Student Certificates- Project Competition, Paper presentation Design contest etc- Problem Solving methodologies, Experiential and Participative Learning**





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Dec 10, 2022

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Video

Unlisted

None

Nov 6, 2022

163

0

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Video

Unlisted

None

Nov 5, 2022

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Shyma Kareem

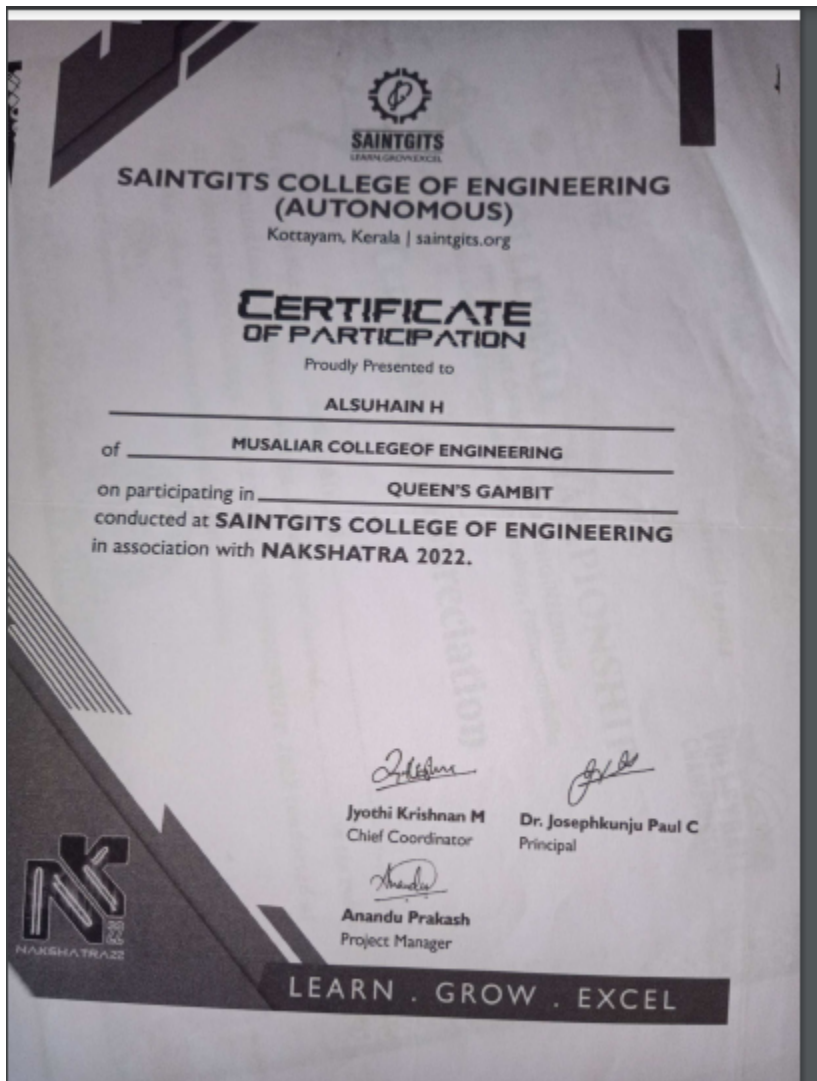
Video	Unlisted	None	Date	Views	Comments	Likes (vs. dislikes)
schroter scheme	Unlisted	None	Dec 10, 2022	18	0	100.0%
signal digital signature scheme	Unlisted	None	Dec 10, 2022	26	0	-
PGP	Unlisted	None	Nov 6, 2022	86	0	100.0%
DSS module 4	Unlisted	None	Nov 6, 2022	163	0	100.0%
SSL MODULE 4	Unlisted	None	Nov 5, 2022	90	0	100.0%

6



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Kerala, India



 **RINA**  
CIN : U74999KL 19723000245

**KERALA STATE ELECTRONICS  
DEVELOPMENT CORPORATION LTD.**  
(A Government of Kerala Undertaking)

**KELTRON**

**KELTRON CONTROLS**  
Aroor P.O, Alappuzha District  
Kerala, India, Pin : 688 534  
E-mail : keltco@keltcon.org

Phone :  
+91 478 2830700  
+91 478 2872323 - 4 (2 Lines)  
Fax : +91 478 2872322

---

**CERTIFICATE**

This is to certify that **Mr. BITHIN JOHNSON BLOJOY B.Tech(ECE)** student of **MUSALIAR COLLEGE OF ENGINEERING & TECHNOLOGY, Pathanamthitta, Kerala Pin-689,653** has successfully completed his 14 days *Internship program* from 09.11.2021 to 24.11.2021 in **KELTRON CONTROLS, AROOR, A division of Kerala State Electronics Development Corporation Limited(K.S.E.D.C.),** in partial fulfillment of his Bachelor Degree of Technology in Electronics and Communication Engineering studies.

He has undergone his study in our various Strategic Business Units (SBU)  
(1) Control & Instrumentation Group (CIG), (2) Strategic Services Group (STSG),  
(3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor.

  
**ANIL KUMAR K.V**  
GENERAL MANAGER



29.11.2021

Email:keltco@keltcon.org

Sanjay Peter - Training Coordinator

---

Regd. Office : KELTRON HOUSE, VELLAYAMBALAM, THIRUVARANATHAPURAM - 625 833, website : www.keltcon.org



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Pathanamthitta - 689653  
Kerala, India



 **KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.**  
(A Government of Kerala Undertaking)  
CIN : UT4999PL1972S0C00249

**KELTRON** 

**KELTRON CONTROLS**  
Aroor P.O., Alappudha District  
Kerala, India, Pin : 689 634  
E-mail : kelfca@keltron.org

Phone :  
+91 478 2830790  
+91 478 2872323 - 4 (2 Lines)  
Fax : +91 478 2872322

**CERTIFICATE**

This is to certify that **Mr. STAINS ALEX JOSEPH B.Tech(ECE)** student of **MUSALIAR COLLEGE OF ENGINEERING & TECHNOLOGY, Pathanamthitta, Kerala Pin-689,653** has successfully completed his 14 days *Internship program* from 09.11.2021 to 24.11.2021 in **KELTRON CONTROLS, AROOR, A division of Kerala State Electronics Development Corporation Limited (K.S.E.D.C.),** in partial fulfillment of his Bachelor Degree of Technology in Electronics and Communication Engineering studies.

He has undergone his study in our various Strategic Business Units (SBU)  
(1) Control & Instrumentation Group (CIG), (2) Strategic Services Group (SSSG),  
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We wish all success in his future endeavor.

  
**ANIL KUMAR K.V.**  
GENERAL MANAGER

  
29.11.2021

Email: kelfca@keltron.org      Boney Peter - Training Co-ordinator

Regd. Office : KELTRON HOUSE, VELLAYAMBALAM, THIRUVANANTHAPURAM - 695 031, website : www.keltron.org



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Kerala, India



## 3 Lecture Talk, Workshops, Webinar, Career Guidance etc

### About the Institute

Musaliar College of Engineering and Technology is a NAAC accredited Engineering & Management Institution under the renowned Musaliar Education Trust. The Musaliar Education Trust is a charitable trust founded in the year 2001 by a group of successful educationalists and technocrats having vast experience in the educational and technical fields. The College is comfortably located in a sprawling campus within the town limits of Pathanamthitta Municipality. Zero tolerance to indiscipline, 100% active pedagogy, total support for incubators and start-ups and moulding students into employable engineers is a unique feature of Musaliar.

**Programmes Offered:**  
B Tech (Civil, CSE, ECE, EEE & Mechanical)  
M Tech (CSE & VLSI)  
MCA & MBA

### About The Department

Department of Computer Science and Engineering was established in the year 2002 with the objective of imparting quality education in the field of Computer Science. Our department mission is to enhance the fundamentals of computer engineering and evolve our students into top-notch computer professionals. To this end, real-time projects and industry internships play a very important role in creating livewire computer engineers for the global workplace. Our department offers 3 programmes:

- B Tech (Computer Science and Engineering)
- M Tech (Computer Science and Engineering)
- MCA (Master of Computer Applications)

### Vision and Mission

**VISION**  
To produce competent and dynamic professionals in the field of Computer Science and Engineering to thrive and cater the changing needs of the society through research and education.

**MISSION**

- To impart high quality technical education and knowledge in Computer Science and Engineering.
- To introduce moral, ethical and social values to Computer Science and Engineering students.
- To establish industry institute interaction to enhance the skills of Computer Science and Engineering students.
- To promote research aimed towards betterment of society.

### Organizing Committee

**Chief Patron**  
Mr. P. I. Sherief Mohammed  
Chairman, Musaliar Education Trust

**Patrons**  
Dr. A. S Abdul Rasheed  
Principal  
Prof. Jayaprasad R  
Dean Academics

**Convener**  
Dr. Teena Joseph  
HoD  
CSE Department  
Mobile: 9497530357  
Email: drteenajoseph21@gmail.com

**Coordinators**  
Prof. Giri S M  
Assistant Professor  
Mobile: 9745504279  
Email: girisudarsan1990@gmail.com

### Our Team

Dr Teena Joseph  
Prof Usha Gopalakrishnan  
Prof Deepa Thomas  
Prof Shyma Kareem  
Prof Jan Mary Thomas  
Prof Giri S M  
Prof Salitha M K  
Prof Praseetha S Nair  
Prof Amrutha Vishnupriya S  
Prof Athira B  
Prof Amrutha S Nair  
Prof Surji Mol R  
Prof Sanooja Beegam A  
Prof Rajeeva Rahman

### Technical Support

Mr Binu V S  
Mr Rniju John  
Mr Anuraj  
Mrs Deepa Balan  
Mrs Sreeja K S

**3 DAY ADD ON COURSE**  
**ON**

**"ARTIFICIAL INTELLIGENCE"**

**18-20 April 2022**

**Organized by**  
**DEPARTMENT OF**  
**COMPUTER SCIENCE AND**  
**ENGINEERING**

**Resource Persons**

**Dr Sandhya Harikumar**  
Assistant Professor  
Amrita Viswa Vidyapeetham  
Amritapuri

**Dr Shibu**  
Associate Professor  
MBC  
Peerumed

**Prof Annie Varghese**  
HOD  
MBC  
Peerumed

**Prof Greshma Sarath**  
Assistant Professor  
Amrita Viswa Vidyapeetham  
Amritapuri

**Prof Nishana**  
Assistant Professor  
College of Engineering  
Pathanapuram



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#### 4 Students seminars

MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY, PATHANAMTHITTA  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
S7CSE Seminar(CSQ413) Internal Evaluation Committee 2019- 23 Batch

The Seminar Internal Evaluation committee for S7 CSEis constituted with the following members.

1. Dr Teena Joseph (HoD)
2. Prof Usha Gopalakrishnan
3. Prof M K Salitha

  
Coordinator

  
HoD  
DR. TEENA JOSEPH  
HOD CSE  
MCET PATHANAMTHITTA

Acting



MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY, PATHANAMTHITTA				
Department of Electronics and Communication Engineering				
Rubrics for BTech Seminar Evaluation 2019 Scheme(CSQ413)				
a	Technical Content (30)	Excellent (5)	Good (4)	Average (3)
		Material sufficient for clear understanding. Excellent Presentation. Diagrams and Contents were Visible. Format was correct. Explanation was good.	Material sufficient for clear understanding. Good Presentation. Diagrams and Contents were Visible. Format was correct. Explanation was good.	Material sufficient for clear understanding. Good Presentation. Diagrams and Contents were almost Visible. Format was almost correct. Explanation was good.
b	Depth of knowledge (20)	Excellent (10)	Good (8)	Average (6)
		All the slides were explained with confidence The presenter explained content beyond the presented slides Questionnaire was encouraged Answers were confident and correct	All the slides were explained well The presenter explained the content within the presented slides Questionnaire was barely encouraged The answers were almost correct	All the slides were explained The presenter explained content within the presented slides only Questionnaire was not encouraged The answers were almost correct
c	Overall Presentation (25 marks)	Excellent (20)	Good (16)	Average (12)
		Perfect time framing Good details within the slides Readable slides Excellent presentation The Points within the slides were short and self explanatory	Good time framing Readable slides Good presentation The Points within the slides were short	Average time framing Readable slides Average presentation The slides were paragraphed
d	Ability to answer questions (15 marks)	Excellent (15)	Good (12)	Average (9)
		Excellent knowledge of the topic Confident and good answers Excellent attitude Answering based on proper examples or references	Good knowledge of the topic Good answers Good attitude Answering based on proper examples or references	Average knowledge of the topic Average answers Average attitude Answering based on presentation
e	Report (10)	Excellent (10)	Good (8)	Average (6)
		Text written in correct format with contents in logical order All sections properly divided and numbered, with List of references in the standard format properly cited in the text following a consistent style	Text written in correct format with all sections mentioned List of references in the standard format references are properly cited in the text.	Text written in correct format for most of the parts. References are listed. Most of the references are properly cited in the text

Coordinator

HoD





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Pathanamthitta - 689653  
Kerala, India

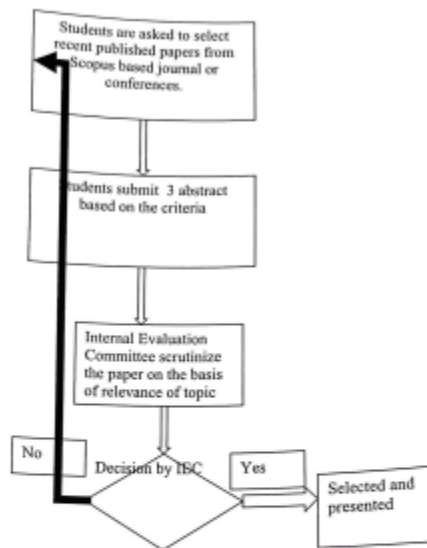


**MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY,  
PATHANAMTHITTA  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Report on BTech seminar approval process.**

Students were asked to submit abstracts as well as synopsis of three topics on recent research area. A seminar approval committee constituted with the Seminar Coordinator as the Chairman and two other faculty members, scrutinized the topics. Depending on the novelty, societal impact and few other aspects, the committee accepted one topic and rejected the others.

  
Coordinator



*[Signature]*  
(Scavenger coordinator)





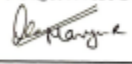




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Kerala, India



## 5. Industrial Visit, Internship and industrial training proof

 <b>Musaliar</b> COLLEGE OF ENGINEERING AND TECHNOLOGY <small>(Approved by AICTE, India) (Affiliated to APJ Abdul Kalam Technological University) (ISO 9001:2015 Certified) (NAAC Accredited)</small> Musaliar College P. O., Pathanamthitta - 689653, Kerala, India 0469 2301702   email: dcaccerrcet@gmail.com   www.musaliarcollege.com		<b>Department of CIVIL ENGINEERING</b>
File Ref: MCET/CE/Aods/Co-Curr	30/5/22	
To The Principal MCET		
<u>SITE VISIT AT PATHANAMTHITTA</u>		
Sir, 1. It has been proposed to conduct a site visit for S8, S6 and S4 CE students on 31/5/2022 for the demonstration of the undergoing Pile Load Test for the Ring Road Overbridge project at Pathanamthitta. 2. Therefore, it is requested to grant permission for the above programme.		
Thanking you  Lekshmi Nair Assistant Professor Dept of Civil Engineering		
Remarks by HOD	Dis fully maybe permitted. Recommended & forwarded to Dean (A&D) 	
Remarks by Dean (Academics & Administration)	Rec. 30-05-2022 	
Approved/Not Approved	 Principal	



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**DX GLOBAL SOFTWARE SOLUTIONS**  
DXG SOFTS PRIVATE LIMITED 

Date: 12/05/2022

### CERTIFICATE FOR INDUSTRIAL VISIT

This is to inform whomsoever it may concern that 27 students and 2 faculties of 4<sup>th</sup> year, B.Tech Computer Science, Musaliar College of Engineering and Technology, Pathanamthitta, have visited Dx Global software Solutions, Kochi, Kerala on 12<sup>th</sup> May 2022 as part of their academic curriculum.

We wish all the success in their endeavors.

The student's details are attached herewith.

For Dx Global Software Solutions



Muhammad Shahjad S  
Managing Director

For DXG SOFTS PVT. LTD.



  
Managing Director



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Kerala, India



**STAKQUE**  
INFOTECH

# CERTIFICATE

## OF PARTICIPATIONS

This is to inform whomsoever it may concern that 27 students and 2 Faculties of 4<sup>th</sup> Year, B.Tech Computer Science, Musaliar College of Engineering and Technology, Pathanamthitta, have visited Stakque Infotech Pvt. Ltd Mangalore, Karnataka on 11<sup>th</sup> May 2022 as part of thier academic curriculum.

We wish all the success in their future endeavour.

The student's details are attached herewith.

CERTIFICATE ID  
224910





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Kerala, India



**DX GLOBAL SOFTWARE SOLUTIONS**  
DXG SOFTS PRIVATE LIMITED



## MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY

### STUDENTS LIST FOR INDUSTRIAL VISIT DEPARTMENT OF CSE

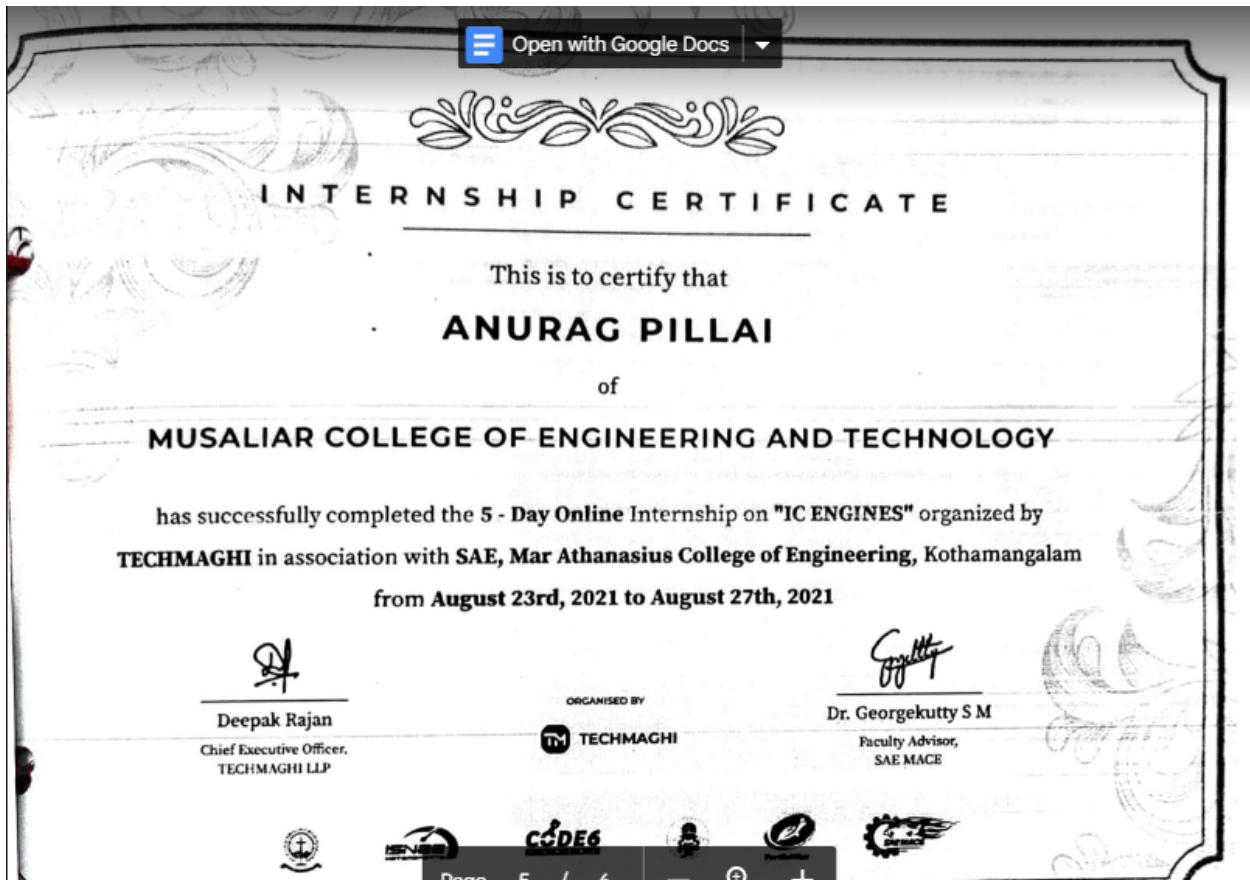
SL NO	NAME	REGISTER NO
1	Aayisha Nourin Shoukath	MCK17VS001
2	Abhirami Suresh	MCK18CS001
3	Ajeena Suresh	MCK18CS002
4	Akshara Sukumaran	LMCK18CS030
5	Amal Kumar G	MCK18CS004
6	Amrutha Santhosh	MCK18CS005
7	Ashtami S	MCK18CS006
8	Aswathy R	MCK18CS007
9	Athul MR	MCK18CS008
10	Bibin Varghese	MCK18CS009
11	Bijimol John	MCK18CS010
12	Feba S John	MCK18CS011
13	Greeshma Ganesh	MCK18CS013
14	Jeethu Johnson	STI18CS014
15	Jefin Pulinhitta Rajan	MCK18CS015
16	Jithuraj KR	MCK18CS016
17	Jomol Varghese	MCK18CS017
18	Lekshmi Vijay	MCK18CS018
19	Muhammad Shamshad S	MCK18CS019
20	Prasanthy S	LMCK18CS032
21	Sajar Mohammed	MCK18CS021
22	Sandraj S Panicker	MCK18CS022
23	Shajan J Jacob	MCK18CS023
24	Sheron Saju	MCK18CS025
25	Sijas M Salim	MCK18CS026
26	Vineeth K	MCK18CS028
27	Vishnu B	MCK18CS029





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Kerala, India



**TORC INFOTECH  
PRIVATE LIMITED**

TORC INFOTECH  
OLD ROAD, KALAMASSERY  
KOCHI, KERALA

SL NO: TOR7X360

**TO WHOMSEVER IT MAY CONCERN**

This is to certify that ALIYA HAMEED, a student of MUSALIAR COLLEGE OF ENGINEERING has completed a 14-days Online/Offline internship training in ARTIFICIAL INTELLIGENCE with INDUSTRIAL 4.0 from April 12-26, 2021 at TORC INFOTECH PVT LTD, Kochi. During this intern period, We found her a sincere, honest, hardworking and dedicated student with a professional attitude who is proactive and is constantly looking to improve her skillset. We also observed that she is skilled at her field.

We wish her every success in all future endeavours

  
ABHI KRISHNA H  
CEO



Date Signed





## 6. Main project report, project into paper, papers published proof



### CERTIFICATE

This is to certify that the report entitled '**AIRLINE PASSENGER SATISFACTION PREDICTION**' submitted by '**PARVATHI UNNIKRISHNAN (REG NO MCK20MCA-2035)**' to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Computer Application is : bonafide record of the project work carried out by her under our guidance and supervision This report in any form has not been submitted to any other University or Institute for any purpose.

Guide

**Prof. Surji Mol**

**Assistant professor**

**Dept of CSE**

Project Coordinator

**Prof. Praseetha S Nair**

**Assistant professor**

**Dept of CSE**

Head of the department

**Dr. Teena Joseph**

**Associate professor**

**Dept of CSE**







DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING  
MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY,  
PATHANAMTHITTA



CERTIFICATE

This is to certify that the report entitled 'DETECTION OF EYE DISEASES USING ML' submitted by 'ALIYA HAMEED (MCK18EC001), ASWIN A KUMAR (MCK18EC002), NIKHIL K THOMAS (MCK18EC007), NEETHU MOHAN (LMCK18EC014)' to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Electronics and Communication Engineering is a bonafide record of the project work carried out by them under my guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose

Project Guide  
Prof. RAJI ELSA VARGHESE  
Assistant Professor  
Dept. of ECE, MCET

Shiney Thankachan  
Assistant Professor ECE  
College of Engineering  
Pathanamthitta  
(External Examiner)

Head of the Department  
Prof. VINOD C  
Assistant Professor  
Dept. of ECE, MCET



<b>MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY, PATHANAMTHITTA</b>				
<b>DEPARTMENT OF MECHANICAL ENGINEERING</b>				
<b>Eighth semester (2018-22 BATCH) Project List</b>				
<b>Students Group</b>	<b>Reg No</b>	<b>Name</b>	<b>Project Name</b>	<b>Project Guide</b>
1	MCK18ME002	ADARSH ANIYAN	Optimizing process parameters of Al 7075 alloy during CNC turning operation	Prof. Smitha G Nair
	MCK18ME003	ADARSH A R		
	MCK18ME032	RAM MOHAN		
	MCK18ME010	ALVIN THANKACHAN		
2	MCK18ME004	AJAY MANOHARAN	3D printing in biomedical field	Prof. Soumyalatha D
	MCK18ME029	NANDHU MANOHARAN		
	MCK18ME018	ATHUL BABU		
	MCK18ME007	AKHIL KRISHNA MOHAN		
3	MCK18ME001	ABHIJITH S NAIR	Experimental Study on the control of emission characteristics of petrol engine using modified charcoal	Prof. Jithin K
	MCK18ME005	AJITHKUMAR A G		
	MCK18ME035	SABARINADH B		
	MCK18ME033	RIJIN SAM REJI		
4	MCK18ME014	ANU V NAIR	Multi purpose Wheelchair	Dr. Shan M Assis
	MCK18ME008	AKHIL PRASAD NAIR		
	MCK18ME017	ASWIN RADHAKRISHNAN		
	MCK18ME022	JAIN JOHN MATHEW		
5	MCK18ME031	P VISHNU	Automated ensuring of safety protocol in exam room	Prof. Madhu G
	MCK18ME023	JESLIN JAMES GEORGE		
	LMCK18ME039	MUHAMMED SHAJAHAN A		
	MCK18ME026	MANU M NAIR		
6	MCK18ME030	NANDU S	Kitchen and garden waste recycler using solar concentrator	Prof. Ajai M
	MCK18ME016	ARUN P THOMAS		
	MCK18ME021	GOKUL RAJ		
	MCK18ME037	SAM ROY		
7	SHM17ME006	HARIS S	Design and development of solar metal cutter	Prof. Anoop T
	MCK16ME019	ARJUN S		
	MCK17ME017	ANIL KUMAR M C		
8	MCK18ME013	ANURAG ASHOK	Design and fabrication of hybrid wind solar tree tribune	Prof. Pramod B
	MCK18ME036	SAJIN P S		



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9	MCK18ME034	ROHITH NAIR H	Low cost oxygen concentrator	Dr. Shan M Assis
	MCK18ME015	ARJUN RAMACHANDRAN		
	MCK18ME009	ALAN BABU		
	MCK18ME028	MUHASIN AKBAR		



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## 7. Relevant part of course diary regarding Assignments and Tutorials

Details of Assignments						
Sl. No.	Date Given	Date of Submission	Description	Date of return after Evaluation	CO	Remarks
1	5/5/22	19/5/2022	For odd Roll Numbers:- - Write the properties of Groups.  - Write notes on Finite Group, Order of Group, Subgroup, Cyclic group and Cyclic Subgroups in Cryptography.	23/5/22	CO1	Sample Sheet attached
			For Even Roll Numbers:- - Write the properties of Ring.  - Write the properties of field and find the application of Field & Ring in Cryptography.	23/5/22	CO1	Sample Sheet attached
2	30/6/2022		For odd Roll numbers:- Discuss different types of Malware with Examples. Discuss about Pollard rho method	5/7/2022	CO4 CO2	Sample Sheet attached
			For Even Roll Numbers:- Explain Quadratic Congruence Relation & discuss how to solve it with proper Examples	5/7/2022	CO3	Sample sheet Attached
			Explain the security Requirement of a DB		CO5	10/7/22

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## Details of Tutorials

Sl. No.	Date	Hours/Periods	Topics	Faculty Assigned	Remarks
1	6/5/22 9/5/22	3	Problems on Module I [Euclidean Algorithm, Extended Euclidean Algorithm]		Questions & Sample sheet from students filed.
2	9/5/22 10/5/22	3	Problems on Module I [Modular arithmetic properties, Multiplicative Inverse, Linear Diophantine eq.]		Questions & Sample sheet from students filed.
3	1/6/22 30/5/22	3	Problems on Module II [Fermat's theorem, Abelian group, Euler's totient function.]		Questions & Sample sheet from students filed
4	3/6/22 30/5/22	5	Problems on module II [Euler's theorem, Divisibility algorithm, Miller Rabin test, Fermat factorisation method, Herstein's primality test]		Questions & Sample sheet from students filed
5	23/4/22 23/4/22	4	Problems on Module III [Chinese Remainder theorem, Primitive roots.]		Questions & Sample sheet from students filed.
6	20/4/22 24/4/22	2	Problems on Module III [Elliptic curve arithmetic.]		Questions & Sample sheet from students filed
7	1/5/22 1/5/22	3	Error effect types. Differentiate Reliability & Integrity		Questions & Sample sheet from students filed.

Signature of Faculty

Signature of HOD

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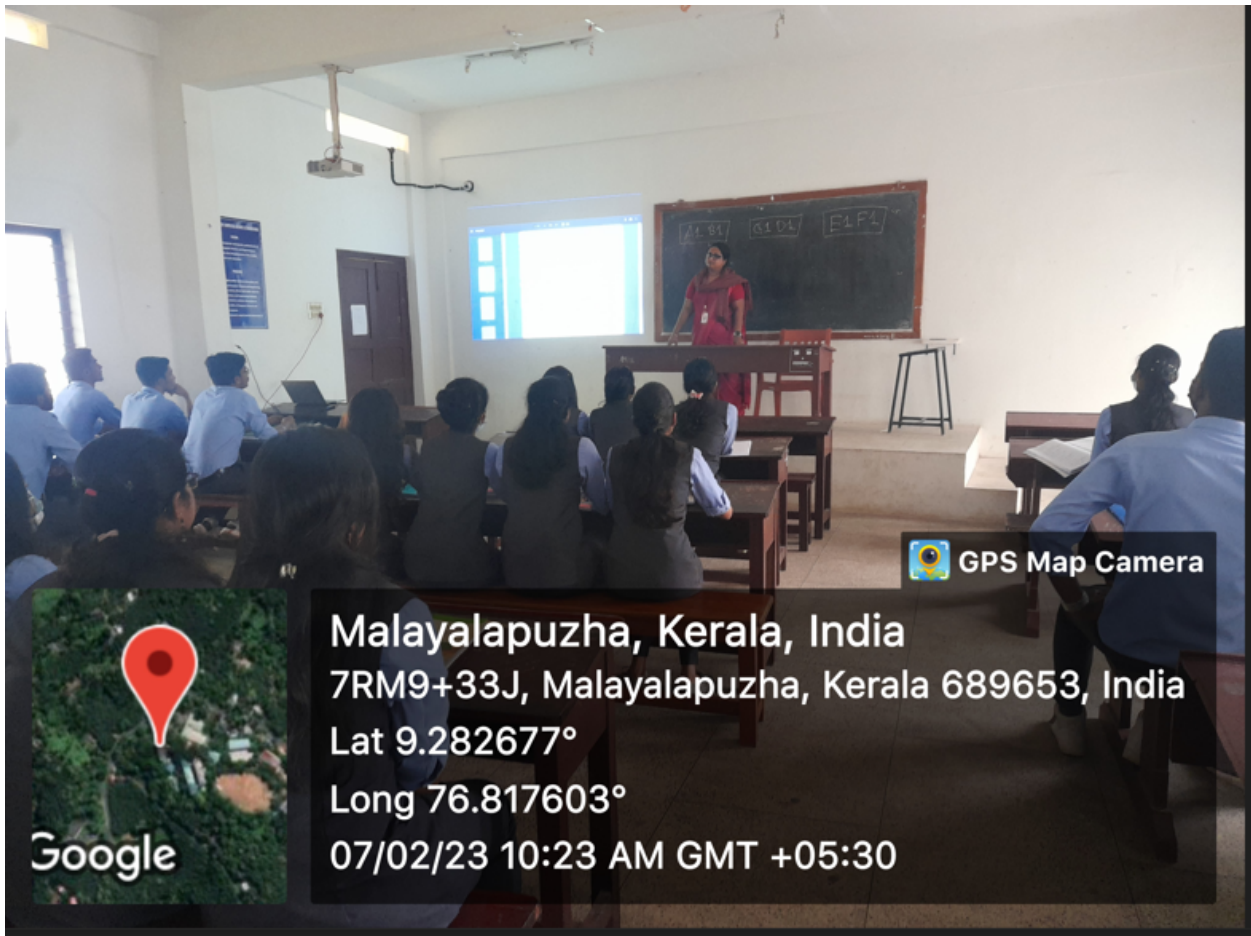


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## 8.Proof for ICT enabled teaching facilities - photo







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## 9. Activities regarding professional bodies

