



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:22-12-2020

Department	MECHANICAL ENGINEERING	Application No.	202020161
Area of Research	THERMAL MANAGEMENT	Research Mode	PART TIME

Name :MOHAMMED AFZAL A
Date of Birth / Age :24-05-1986 / 34 Years
Gender :MALE
Category :OBC
e-Mail ID :amohammedafzal@gmail.com
Mobile :9895080043



Father's/Husband's Name	AMEERUDEEN J	Father's/Husband's Occupation	RETIRED PENSION
Family Income	INR 3.7 LAKHS	Residential Type	RURAL
Birth Place	KOLLAM	Mother Tongue	MALAYALAM
Religion	MUSLIM	Martial Status	MARRIED
Aadhaar No.	867122553819	PAN No.	BASPA3096H
Physically Challenged	NO	Type of Disability	-
Address for Communication: JANNATH MANZIL KOTTIYAM P.O KOTTIYAM KOLLAM DISTRICT KERALA INDIA Pin-691571		Permenant Address: JANNATH MANZIL KOTTIYAM P.O KOTTIYAM KOLLAM DISTRICT KERALA INDIA Pin-691571	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.TECH	INDUSTRIAL REFRIGERATION & CRYOGENICS	UNIVERSITY OF KERALA	2010	8.85 CGPA	FIRST CLASS	REGULAR
B.TECH	MECHANICAL ENGINEERING	UNIVERSITY OF KERALA	2007	6.05 CGPA	FIRST CLASS	REGULAR

Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
MES INSTITUTE OF TECHNOLOGY & MANAGEMENT, KOLLAM	ASSISTANT PROFESSOR	2010-06-02	2020-12-22	TEACHING	

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202020161_201224190816	VSBI9591410047	24-12-2020	600	SUCCESS

PhD Research proposal

OPTIMIZATION OF THERMAL PARAMETERS FOR THE MANAGEMENT OF ELECTRIC VEHICLE BATTERY SYSTEM

Now a days, Electric vehicles develop fast and have become popular due to their zero emission and low cost effectiveness. The performance and life-cycle costs of electric vehicles depend inherently on batteries. The service life, capacity, and internal resistance of the batteries are sensitive to temperature changes. Overheating caused by electron's movements during chemical reactions during the charging and discharging process in elevated temperatures can lead to fatal destruction of the batteries. Hence an efficient battery thermal management system is one of the most necessary technologies for success of the electric vehicles in the long term. The functions of battery thermal management system include the accurate measurement and monitoring of the battery temperature, the effective cooling of the battery pack when the temperature is too high and rapid heating under low temperature conditions.

This proposed research mainly focuses on the optimization of thermal parameters for the performance of the battery system in the state of art of electric vehicles.

MOHAMMED AFZAL A

Assistant Professor

Department of Mechanical Engineering

MES Institute of Technology & Management

Kollam, Kerala-691572



FACULTY OF ENGINEERING AND TECHNOLOGY

The Senate of the University of Kerala hereby makes known that **Mohammed Afsal, A.** has been admitted to the Degree of Master of Technology, he having been certified by duly appointed examiners to be qualified to receive the same, and having been by them placed in the **First Class** at the examination held in **December 2010**, his subject of specialisation being Branch **Mechanical Engineering**.

Elective **Industrial Refrigeration and Cryogenic Engineering**.

Given under the seal of the University

University Buildings
Thiruvananthapuram September 29, 2011




Vice Chancellor



കർമ്മിണി വ്യജ്യതേ ഗ്രന്ഥാ
കേരള സർവകലാശാല

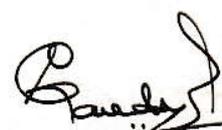
FACULTY OF ENGINEERING AND TECHNOLOGY

The Senate of the University of Kerala hereby makes known that Mohammed Afsal, A. has been admitted to the Degree of Bachelor of Technology under Mechanical Engineering Branch, he having been certified by duly appointed examiners to be qualified to receive the same and having been by them placed in the First Class at the examination held in June 2007 .

Given under the seal of the University



University Buildings
Thiruvananthapuram April 07, 2008


Vice Chancellor



UNIVERSITY OF KERALA

Book No. **9**

Serial No. **97**

EE II A



Thiruvananthapuram,
Dated **14 MAY 2011**

Register No. **326**

M. Tech. GRADE CARD

Name of Candidate : **Mohammed Afsal: A**

Name of Examination : **Final M. Tech. Degree**

Month and Year of Examination : **December 2010**

Branch : **Mechanical Engineering**

Specialisation : **Industrial Refrigeration and Cryogenic Engineering**

Course Code	Name of Subjects	Credit (Ci)	Grade
	Thesis and Viva-Voce	12	S

SGPA : **9.66**

CGPA : **8.85**

Whole Pass Minimum : **CGPA ≥ 6**

Prepared by : **[Signature]**

Compared by : **[Signature]**

Section Officer : **[Signature]**

[Signature]
CONTROLLER OF EXAMINATIONS

UNIVERSITY OF KERALA

Serial No : 07 04 3031
 Ref. No. EG : 07 33 3031 0



Thiruvananthapuram
 Date : 05/11/2007

Name of Programme : B.Tech. Mechanical Engineering
 Semester : 6
 Month & Year of Exam : Jun 2007
 Name of Student : **MOHAMMED AFSAL A**

Exam Code : **403 03603**
 Candidate Code : **03 419 027**

Statement of Marks

Subject Code	Subjects	Credits	Marks Awarded		
			SM	UM	Total
03602	Design of Machine Elements I	4	40	40	80
	Semester - 1 & 2				5.8
	Semester - 3				5.8
	Semester - 4				5.8
	Semester - 5				5.6
	Semester - 6				6.2
	Semester - 7				6.1
	Semester - 8				6.9
Result : Passed			CGPA 6.05 (Six * Zero Five)		

Prepared By : *Sheela*
 Checked By : *Ayo*

Section Officer *[Signature]*

[Signature]
 Controller of Examinations

* Pass requirements & papers to be cleared if any shown overleaf

Thangal Kunju Musaliar College of Engineering

Kollam - 5, Kerala State



Book No. 05/20

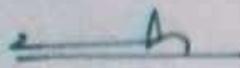
TC No. 181549

22.11.2020

Transfer Certificate

- 1) Name of student (in full) : MOHAMMED AFZAL A
- 2) Date of birth as entered in the admission register : 24.05.1986
- 3) Admission No. and date of admission : 147 04.11.2008
- 4) Date of leaving : 30.04.2010
- 5) Class in which studied at the time of leaving : IV Semester M.Tech Degree
- 6) Whether qualified for promotion to a higher class : Yes
- 7) Group with subjects : Mechanical- Industrial Refrigeration and Cryogenic Engineering
- 8) Whether he/she has paid all fees to the College : Yes
- 9) Whether the student was in receipt of any fee concession or scholarship : No
- 10) Any certificate issued from Institution for Medical Inspection : No
- 11) Name of examination of the University for which the student has been last presented from the College : IV Semester M.Tech Degree Examination
University of Kerala
- 12) Reg. No. of student and date of examination : 326 December 2010
- 13) Whether the student has appeared for the examination : Yes
If appeared
 - i) Part and division he/she has passed : Whole
 - ii) Part and division he/she has failed : Nil
- 14) Reason for leaving : Course Completed




↓ Principal
Thangal Kunju Musaliar
College of Engineering
Kollam-5



MES INSTITUTE OF TECHNOLOGY & MANAGEMENT

CHATHANNOOR (PO), KOLLAM - 691572

Phone: 0474-2590401, 2590700, Fax : 0474-2590700

Website: www.mesitam.ac.in e-mail: info@mesitam.ac.in

Approved by AICTE & Affiliated to A. P. J. Abdulkalam Technological University
[Run by the Muslim Educational Society (Regd), Calicut]

20/MES/CHN/

22/12/2020

EXPERIENCE CERTIFICATE

This is to certify that Sri. Mohammed Afzal A has been working as Assistant Professor in Mechanical Engineering Department of this Institution since 2nd June 2010. During the period, he was found sincere and hardworking. He is amiable in nature and his character is good.




PRINCIPAL
Dr. J. NAZAR
PRINCIPAL
MES INSTITUTE OF TECHNOLOGY AND MANAGEMENT
CHATHANNOOR P.O., KOLLAM - 691572

आयकर विभाग

INCOME TAX DEPARTMENT

MOHAMMED AFZAL A



भारत सरकार

GOVT. OF INDIA

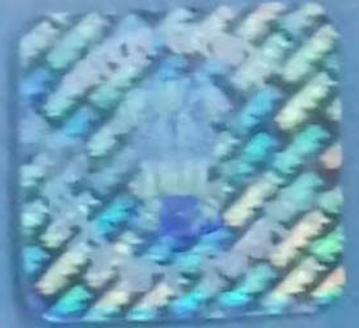
AMEERUDHEEN JAMAL MOHAMMED

24/05/1986

Permanent Account Number

BASPA3096H

Signature



22022012

Self Attested

Mohammed Afzal A



ഭാരത സർക്കാർ

Government of India

മുഹമ്മദ് അഫ്സൽ എ

Mohammed Afzal A

ജനന തീയതി/ DOB: 24/05/1986

പുരുഷൻ / MALE



8671 2255 3819

എന്റെ ആധാർ, എന്റെ ഐഡൻറിറ്റി



ഓരോരുത്തരുടെയും തിരിച്ചറിയൽ അതോറിറ്റി

Unique Identification Authority of India

വിലാസം:

S/O: അമീറുദീൻ, ജന്നത്ത് മൻസിൽ.,

തൊഴുതല പീ ടി, കൊല്ലം, തൃശ്ശൂർ, കൊല്ലം,

കേരളം - 691571

Address:

S/O: Ameerudeen, Jannath

Manzil, Kottiyam P O, Kollam,

Thazhuthala, Kollam,

Kerala - 691571

8671 2255 3819



1947



help@uidai.gov.in

WWW

www.uidai.gov.in

Self Attested

Mohammed Afzal A

B No. 437457



GOVERNMENT OF KERALA

SECONDARY SCHOOL LEAVING CERTIFICATE EXAMINATION

GENERAL EDUCATION DEPARTMENT
SECONDARY SCHOOL LEAVING CERTIFICATE
(Issued under the Authority of the Government of Kerala)



This is to certify that the candidate herein has appeared in the SSLC Examination and has secured the marks as follows

Name of School
KRIST RAJ HIGH SCHOOL, KOLLAM
Admission No. **8550**

- Name : **MOHAMMED AFZAL A**
- Name in Regional Language: **മുഹമ്മദ് അഫ്സൽ എ**
- Sex : **MALE**
- Date of Birth (in figures) : **24/05/1986**
(in words) : **TWENTYFOURTH MAY NINETEEN EIGHTY SIX**
- Religion & Caste : **ISLAM, MUSLIM**
- Nationality : **INDIAN**
- Name of Father: **AMEERUDEEN**
- Name of Mother : **SALEEMA**
- Home Address : **JANNATH MANZIL PALLIMUKKU P.O, KOLLAM.**

18. Signature of the Candidate : *Afzal*



John Domacine J.
Name & Signature of the Head of the Institution with Date
JOHN DOMACINE. J.
PRINCIPAL

Register Number **611306**
Month & Year **March 2001** No. of Chances **1**

Subject	Minimum For the paper	Subject Total	Marks in the Public Examination		Minimum for a pass	State Average		
			Group Total				Subject	Group
			In Figures	In Words				
Group A - Language								
FIRST LANGUAGE Paper - I Malayalam	50	35	172	ONE SEVEN TWO	20	25		
Paper - II Malayalam	50	44				31		
SECOND LANGUAGE English Paper - I	50	34	69		90	13		
Paper - II	50	35				13		
THIRD LANGUAGE Hindi	50	24	24		10	19		
GROUP B - Subject								
Social Sciences Paper - I History & Civics	50	44	249	TWO FOUR NINE	120	22		
Paper - II Geography & Economics	50	28				21		
SCIENCE Paper - I - Physics	50	41				17		
Paper - II - Chemistry	50	27				19		
Paper III - Biology & Health Science	50	20	88		20	19		
MATHEMATICS Paper - I	50	44				18		
Paper - II	50	45	89			15		
TOTAL	600		421	FOUR TWO ONE				

(Marks : 480 and above First Class with Distinction ; 360 to 479 First Class; 240 to 359 Second Class; 210 to 299 Third Class)



PASSED

S. S. S. S.
Secretary
Board of Secondary Education, Kerala

ANNEXURE-I

CERTIFICATE FROM THE ORGANISATION WHERE THE CANDIDATE IS EMPLOYED

Certified that Mr./Ms./Mrs. MOHAMMED AFZAL A is employed as ASSISTANT PROFESSOR (Designation) in the DEPARTMENT OF MECHANICAL ENGINEERING (Department/Division Name) of MES INSTITUTE OF TECHNOLOGY & MANAGEMENT, KOLLAM - 691572 (Institution/Industry Name).

We have no objection in forwarding his/her application for the Ph.D. Research Programme.

FOR FULL TIME:

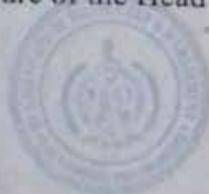
The candidate will be sanctioned leave for the duration of the research programme and will be relieved from duty from _____ to _____ to undertake the full time research work in the University.

FOR PART TIME:

The candidate will be permitted to undertake part time study in the University/College and will be allowed to be present for discussions with the supervisor, attending course works, conduct of experiments and participations in seminars and related presentations. Further the required facilities at our organization will also be provided to the candidate for doing research.

Date: 22-12-20

Signature of the Head of Organization with office seal



Dr. J. NAZAR

PRINCIPAL

MES INSTITUTE OF TECHNOLOGY & MANAGEMENT

KOLLAM - 691572