



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:25-06-2020

Department	MECHANICAL ENGINEERING	Application No.	20200130
Area of Research	ALTERNATIVE FUELS - BIO OIL FROM PYROLYSIS	Research Mode	FULL TIME

Name :RAKHESH I P
Date of Birth / Age :30-10-1995 / 24 Years
Gender :MALE
Category :OBC
e-Mail ID :r.i743@ymail.com
Mobile :9790469389



Rakhesh I P

Father's/Husband's Name	PACHAMAANICKAM K P	Father's/Husband's Occupation	AGRICULTURISTS
Family Income	NIL	Residential Type	RURAL
Birth Place	COLACHEL	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	SINGLE
Aadhaar No.	285818112825	PAN No.	BQZPR4748C
Physically Challenged	NO	Type of Disability	-
Address for Communication: 5/46A2 KEEZHKARAI MONDAIKADU KANYA KUMARI DISTRICT TAMIL NADU INDIA Pin-629252		Permenant Address: 5/46A2 KEEZHKARAI MONDAIKADU KANYA KUMARI DISTRICT TAMIL NADU INDIA Pin-629252	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
SSLC	GENERAL	ST MARYS HIGHER SECONDARY SCHOOL COLACHEL	2011	88.8		REGULAR
HSC	MATHS BIOLOGY	CARMEL HIGHER SECONDARY SCHOOL	2013	75.3		REGULAR
BE	MECHANICAL ENGINEERING	STELLA MARYS COLLEGE OF ENGINEERING	2017	7.38	FIRST	REGULAR
ME	THERMAL ENGINEERING	ANNA UNIVERSITY REGIONAL CAMPUS TIRUNELVELI	2020	8.14	FIRST	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature

Payment Details

Transaction ID	Reference	Date of transaction	Amount	Status
20200130_200630174658	SHMP8948042616	30-06-2020	600	SUCCESS

Energy Production from Biomass By means of Pyrolysis Process

Generally all over the world, energy sector plays a vital role in the development and implementation of technologies in each country. The present energies are based on the fossil resources and it reaches to peak in daily role. The fossil energy sources are based on petroleum, natural gas and coal. Utilization of fossil resources for the energy production induces harmful effects that leads to the global warming. For the forthcoming year, the energy sector will face complication due the fuel scarcity. To reduce these problems, researchers are revealing their research in the field of alternative fuels. In the alternative fuels, biomass places a major role in reducing the scarcity of fuels.

Biomass is said to be organic materials which is found energy from the sunlight. Solar energy is used to convert water and carbon dioxide to form starch and also oxygen cycle. The energy from biomass plays a significant role for the local energy demand. It is the primary source of energy for the people in developing countries and it is easily available for world's poor for cooking and space heating in reasonable price. The energy obtained from the biomass as direct burning along the human ages. It is an exothermic process for the heat generation. The heat is induced due to the oxidation process. Biomass is converted into bio-gas, bio-ethanol, bio-diesel and bio-char.

Bio fuels can be subdivided into three generation with respect to feedstock. They are first generation from food crops, second generation from non food and lignocelluloses biomass and third generation from algal biomass. The extraction method of secondary fuel from primary fuel is classified at different ways. Primary and Secondary fuel can be analyzed with reference to standard reference by using

different methods for characterization of fuels. In comparison of biomass material as fuel with coal has the higher oxygen and hydrogen.

Methodology:

- Find the correct biomass for the pyrolysis process by knowing the percentage of cellulose, hemicelluloses and lignin content
- Addition of plastic or tyre with biomass for the improvement of oil if necessary
- End product such as Char, Oil and gas is characterized and detailed analysis of end use.

Expected Result

Oxygen content in biomass bio oil is high. By using some techniques oxygen can be reduced. Char can be used as catalyst in water treatment process. Gas efficiency is calculated for the performance of gas turbines or gas engines.



ANNA UNIVERSITY, CHENNAI - 600 025

B.E. DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF GRADES

Folio No. AUU1094572
R136890611077P



NAME OF THE CANDIDATE	RAKHESH I P
CÔLLEGE OF STUDY	STELLA MARY'S COLLEGE OF ENGINEERING
PROGRAMME & BRANCH	B.E. Mechanical Engineering

REGISTER NO.	963513114036	REGULATIONS	2013
GENDER	MALE	DATE OF BIRTH	30-OCT-95
MONTH & YEAR OF LAST APPEARANCE	April 2017	MEDIUM OF INSTRUCTION	English

SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING
01	CY6151	Engineering Chemistry - I	3	D	6	JAN 2014
01	GE6151	Computer Programming	3	C	7	JAN 2014
01	GE6152	Engineering Graphics	4	C	7	JAN 2014
01	HS6151	Technical English - I	4	C	7	JAN 2014
01	MA6151	Mathematics - I	4	E	5	JAN 2014
01	PH6151	Engineering Physics - I	3	D	6	JAN 2014
01	GE6161	Computer Practices Laboratory	2	S	10	JAN 2014
01	GE6162	Engineering Practices Laboratory	2	B	8	JAN 2014
01	GE6163	Physics and Chemistry Laboratory - I	1	B	8	JAN 2014
02	CY6251	Engineering Chemistry - II	3	C	7	APR 2014
02	GE6252	Basic Electrical and Electronics Engineering	4	E	5	APR 2014
02	GE6253	Engineering Mechanics	4	E	5	APR 2014
02	HS6251	Technical English - II	4	C	7	APR 2014
02	MA6251	Mathematics - II	4	A	9	APR 2014
02	PH6251	Engineering Physics - II	3	D	6	APR 2014
02	GE6261	Computer Aided Drafting and Modeling Laboratory	2	S	10	APR 2014
02	GE6262	Physics and Chemistry Laboratory - II	1	S	10	APR 2014
03	CE6306	Strength of Materials	4	B	8	NOV 2014
03	CE6451	Fluid Mechanics and Machinery	3	D	6	NOV 2014
03	EE6351	Electrical Drives and Controls	3	B	8	NOV 2014
03	MA6351	Transforms and Partial Differential Equations	4	B	8	NOV 2014
03	ME6301	Engineering Thermodynamics	3	E	5	NOV 2014
03	ME6302	Manufacturing Technology - I	3	C	7	NOV 2014
03	CE6461	Fluid Mechanics and Machinery Laboratory	2	S	10	NOV 2014
03	EE6365	Electrical Engineering Laboratory	2	S	10	NOV 2014
03	ME6311	Manufacturing Technology Laboratory - I	2	S	10	NOV 2014
04	GE6351	Environmental Science and Engineering	3	C	7	APR 2015
04	MA6452	Statistics and Numerical Methods	4	C	7	APR 2015
04	ME6401	Kinematics of Machinery	3	C	7	APR 2015
04	ME6402	Manufacturing Technology - II	3	C	7	APR 2015
04	ME6403	Engineering Materials and Metallurgy	3	C	7	APR 2015
04	ME6404	Thermal Engineering	3	B	8	APR 2015
04	CE6315	Strength of Materials Laboratory	2	S	10	APR 2015
04	ME6411	Manufacturing Technology Laboratory - II	2	S	10	APR 2015
04	ME6412	Thermal Engineering Laboratory - I	2	S	10	APR 2015
05	GE6075	Professional Ethics in Engineering	3	C	7	NOV 2015
05	ME6501	Computer Aided Design	3	D	6	NOV 2015
05	ME6502	Heat and Mass Transfer	3	E	5	NOV 2015

SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING
05	ME6503	Design of Machine Elements	3	B	8	NOV 2015
05	ME6504	Metrology and Measurements	3	E	5	NOV 2015
05	ME6505	Dynamics of Machines	3	E	5	NOV 2015
05	ME6511	Dynamics Laboratory	2	S	10	NOV 2015
05	ME6512	Thermal Engineering Laboratory - II	2	S	10	NOV 2015
05	ME6513	Metrology and Measurements Laboratory	2	S	10	NOV 2015
06	ME6601	Design of Transmission Systems	3	B	8	APR 2016
06	ME6602	Automobile Engineering	3	B	8	APR 2016
06	ME6603	Finite Element Analysis	3	B	8	APR 2016
06	ME6604	Gas Dynamics and Jet Propulsion	3	D	6	APR 2016
06	MG6851	Principles of Management	3	D	6	APR 2016
06	ME6004	Unconventional Machining Processes	3	C	7	APR 2016
06	GE6674	Communication and Soft Skills - Laboratory Based	2	A	9	APR 2016
06	ME6611	C.A.D. / C.A.M Laboratory	2	S	10	APR 2016
06	ME6612	Design and Fabrication Project	2	S	10	APR 2016
07	GE6757	Total Quality Management	3	E	5	NOV 2016
07	ME6701	Power Plant Engineering	3	C	7	NOV 2016
07	ME6702	Mechatronics	3	C	7	NOV 2016
07	ME6703	Computer Integrated Manufacturing Systems	3	C	7	NOV 2016
07	ME6005	Process Planning and Cost Estimation	3	D	6	NOV 2016
07	ME6012	Maintenance Engineering	3	D	6	NOV 2016
07	ME6711	Simulation and Analysis Laboratory	2	S	10	NOV 2016
07	ME6712	Mechatronics Laboratory	2	S	10	NOV 2016
07	ME6713	Comprehension	1	S	10	NOV 2016
08	ME6863	Engineering Economics	3	D	6	APR 2017
08	IE6605	Production Planning and Control	3	C	7	APR 2017
08	ME6016	Advanced I.C. Engines	3	C	7	APR 2017
08	ME6811	Project Work	6	S	10	APR 2017

*** End of Statement ***
Cumulative Grade Point Average : 7.38
Classification : FIRST CLASS

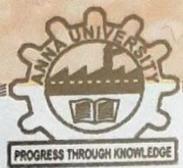
SEM - Semester, C - Credits, LG - Letter Grade, GP - Grade Point

Range of Marks	91 - 100	81 - 90	71 - 80	61 - 70	57 - 60	50 - 56	< 50
Letter Grade	S	A	B	C	D	E	U
Grade Point	10	9	8	7	6	5	0

$$CGPA = \frac{\sum_{i=1}^n C_i GP_i}{\sum_{i=1}^n C_i}$$

where C_i - is the credits assigned to the course
 GP_i - is the point corresponding to the grade obtained for each course
 n - is number of all courses successfully cleared during all the semesters

Anna University



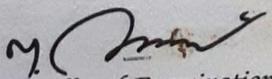
Reg.No. 963513114036/RG

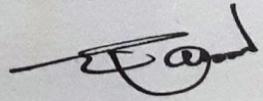
The Syndicate of the Anna University hereby makes known that **RAKHESH I P** has been admitted to the **DEGREE OF BACHELOR OF ENGINEERING** in **MECHANICAL ENGINEERING** under the *Faculty of Mechanical Engineering*, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same, and has been placed in **FIRST CLASS** at the Examination held in **APRIL 2017**.

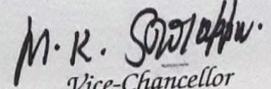
Given under the Seal of the University



Chennai 600 025
India
June 2018


Controller of Examinations


Registrar


Vice-Chancellor



ANNA UNIVERSITY, CHENNAI - 25
M.E. DEGREE EXAMINATIONS
GRADE SHEET



Sl.No: MA 2927603

Folio No. AUR1520771

NAME OF THE CANDIDATE	RAKHESH I P				REGISTER NO.	950018414008	
DATE OF BIRTH	30-OCT-95	GENDER	MALE	MONTH & YEAR OF EXAMINATION	DEC 2018	DATE OF PUBLICATION	13-FEB-19
COLLEGE OF STUDY	REGIONAL CENTRE OF ANNA UNIVERSITY, THIRUNELVELI				REGULATIONS	2017 (CBCS)	
PROGRAMME & BRANCH	M.E. Thermal Engineering						

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
01	MA5153	Advanced Numerical Methods	4	B	6	PASS
01	TE5101	Advanced Thermodynamics	4	A	8	PASS
01	TE5102	Advanced Fluid Mechanics	3	B+	7	PASS
01	TE5151	Advanced Heat Transfer	4	A	8	PASS
01	EY5152	Energy Resources	3	B+	7	PASS
01	TE5002	Advanced Internal Combustion Engines	3	A	8	PASS
01	TE5111	Thermal Engineering Laboratory	2	O	10	PASS
*** End of Statement ***						

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered	23									
Credits Earned	23									
Grade Points Earned	54									
Grade Point Average (GPA)	7.565									
Cumulative Credits Earned	23	Cumulative Grade Point Average (CGPA)				7.57	Medium of Instruction : ENGLISH			

RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination

Chennai - 600 025.

Date : 09-05-19



SIGNATURE OF THE CANDIDATE



(Signature)

CONTROLLER OF EXAMINATIONS



ANNA UNIVERSITY, CHENNAI - 25
M.E. DEGREE EXAMINATIONS
GRADE SHEET

SI.No: **MA****4780019**

Folio No.

AUQ1361675

NAME OF THE CANDIDATE	RAKHESH I P				REGISTER NO.	950018414008	
DATE OF BIRTH	30-OCT-95	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2019	DATE OF PUBLICATION	22-JUN-19
COLLEGE OF STUDY	ANNA UNIVERSITY REGIONAL CAMPUS, TIRUNELVELI				REGULATIONS	2017 (CBCS)	
PROGRAMME & BRANCH	M.E. Thermal Engineering						

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
02	TE5201	Instrumentation for Thermal Engineering	3	A+	9	PASS
02	TE5202	Fuels and Combustion	3	B+	7	PASS
02	TE5291	Environmental Engineering and Pollution Control	3	A	8	PASS
02	IC5091	Automobile Engineering	3	B+	7	PASS
02	IC5251	Alternative Fuels for IC Engines	3	B+	7	PASS
02	TE5008	Energy Management in Thermal Systems	3	A	8	PASS
02	TE5261	Thermal Systems Simulation Laboratory	2	O	10	PASS
02	TE5211	Technical Seminar - I	1	O	10	PASS
*** End of Statement ***						



Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered		21								
Credits Earned		21								
Grade Points Earned		66								
Grade Point Average (GPA)		8.000								
Cumulative Credits Earned	44		Cumulative Grade Point Average (CGPA)			7.77		Medium of Instruction : ENGLISH		

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination



Chennai - 600 025.

Date : 18-09-19

SIGNATURE OF THE CANDIDATE



SIGNATURE OF THE CONTROLLER OF EXAMINATIONS

CONTROLLER OF EXAMINATIONS



STELLA MARY'S COLLEGE OF ENGINEERING

Aruthengavilai, Azhikal Post,
Kanyakumari District - 629 202

Transfer Certificate

Serial No. : 180

Admission No.: 13RUME036

1. Name of the Student (In block letters) : RAKHESH . I . P
2. Name of the Father / Mother / Guardian : K.P. Pachamaanickam
3. Nationality , Religion & Caste : Indian , Hindu & Nadar
4. Community : BC
5. Sex : Male
6. Date of Birth as entered in the admission register (In figures and words) : 30-10-1995 [Thirty - Ten - Nineteen Ninety five]
7. Personal marks of identification : a) -
b) -
8. Date of admission and the branch in which admitted : 01-08-2013
9. The class in which the student was studying at the time of leaving (in words) : VIII semester, course completed
10. Date on which the student actually left the college : 04-05-2017
11. The Student's conduct and character : Good
12. Date on which the application for transfer certificate was made on behalf of the student by his / her parent or guardian : 12-06-2017
13. Date of the Transfer Certificate issued : 12-06-2017
14. Whether eligible for admission to higher education : Refer Marksheet
15. Course of study : BE
 - a) Name of the College : Stella Mary's College of Engineering
 - b) Academic year : 2013-2017
 - c) Branch : Mechanical Engineering

Date : 12-06-2017



Signature of the Principal
Principal

Declaration by the Student & Parent

I hereby declare that the particulars recorded against items 1 to 7 above are correct and that no change will be demanded by me in future.

Signature of the Student
(with Name & Date)

Signature of the Parent / Guardian
(with Name & Date)

12/06/2017

Note : Erasures and unauthenticated alterations in the certificate will lead to its cancellation.

2132



Welcome RAKHESH I P !!

[Log out](#)

- PROFILE
- EXAM SCHEDULE
- REG.PREVIEW
- ASSESSMENT
- EXAM RESULTS
- ELECTIVE
- GRIEVANCE

[Print](#)

Result for Nov. / Dec. Examination, 2019 [R-2017]

Register Number :	950018414008		
Name :	RAKHESH I P		
Branch :	M.E. Thermal Engineering		
Semester	Subject Code	Grade	Result
03	EY5092	A	PASS
03	TE5074	B+	PASS
03	TE5301	A+	PASS
03	TE5311	O	PASS
03	TE5312	O	PASS

Note : The below GPA is calculated based on the above result only.

[Legends](#)

Disclaimer: The result published in this website is provisional only. NIC or O/o CoE, AU are not responsible for any inadvertent error that may have crept in the data / results being published on the Net. This is being published on the Net just for immediate information to the examinees. The Final Mark Sheets issued by the University should only be treated authentic & final in this regard. These Provisional Results will be considered by the University, further, only based on DOTE approval.



SAVE/SHARE RESULTS

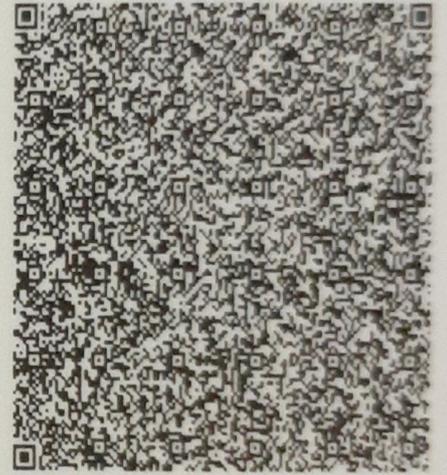
आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA



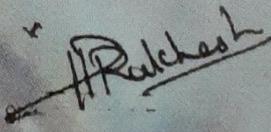
स्थायी लेखा संख्या कार्ड
Permanent Account Number Card
BQZPR4748C



नाम / Name
RAKHESH I P

पिता का नाम / Father's Name
PACHAMAANICKAM

जन्म की तारीख / Date of Birth
30/10/1995


हस्ताक्षर / Signature



सत्यमेव जयते

DOI 04/12/2015

D.L.No : TN75 20150017180
Name : I P RAKHESH
S/D/W of : K P PACHAMANICKAM
Address :
83, N NO 251 KOMBAN VILAGAM,
COLACHEL PO
K K DIST 629251
Temp Addr:
MISBHA EDWIN D/S COLACHEL
DOB : 30/10/1995



Punishments:



सत्यमेव जयते

DOI 04/12/2015

D.L.No : TN75 20150017180
Name : I P RAKHESH
S/D/W of : K P PACHAMANICKAM
Address :
83, N NO 251 KOMBAN VILAGAM,
COLACHEL PO
K K DIST 629251
Temp Addr:
MISBHA EDWIN D/S COLACHEL
DOB : 30/10/1995



Punishments:

2590/17

**FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD
CLASSES APPLYING FOR APPOINTMENT TO POSTS UNDER THE
GOVERNMENT OF INDIA**

This is certify RAKHESH.T.P Son / Daughter
of Mr. PACHAMAANICKAM of Village COLACHEL-B
Kalkulam Taluk District / Division Kanniyakuman in
the Tamil Nadu State
belongs to the Hindu Nadar
community which is recognised as a Backward Class under the Government of India. Ministry of
Welfare Resolution No. 12011/68/93 BCC (C) date 10th Sept. 1993 published in the Gazette of
India Extraordinary part I Section 1 dated 10 th Sept. 1993 Shri RAKHESH.T.P
and/or his family ordinarily reside (S) in the
Kalkulam Taluk
Kanniyakuman Division / District of the Tamil Nadu
State. This is also certify the he/she does not belong to the person/or/Sections (Greamy Layer)
mentioned in column 3 of the Schedule to the Government of India. Department of personal &
Training O.M.No. 36012/22/93 Estt. (SCT) Dated 08.09.1993.



(Handwritten signature and date 27/12/17)
The Executive Magistrate
District Magistrate,
Deputy commissioner etc.
Tahsildar
kalkulam

SEAL

N.B :

- The term 'ordinarily' used here will have the same meaning as in Section 20 of the Representation of the people Act. 1950.
- Where the Certificates are issued by Gazetted Officer of the Union Government of State Governments they should be in same form but counter signed by the District Magistrate or Deputy Commissioner (Certificates issued by Gazetted Officers and attested by District Magistrate / Deputy Commissioner are not sufficient)

Section Officer