



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:24-05-2020

Department	MECHANICAL ENGINEERING	Application No.	20200020
Area of Research	THERMAL ENGINEERING	Research Mode	PART TIME

Name :PRADEEP
Date of Birth / Age :09-04-1992 / 28 Years
Gender :MALE
Category :BC
e-Mail ID :pradeepmech9492@gmail.com
Mobile :7373110586



R. Pradeep

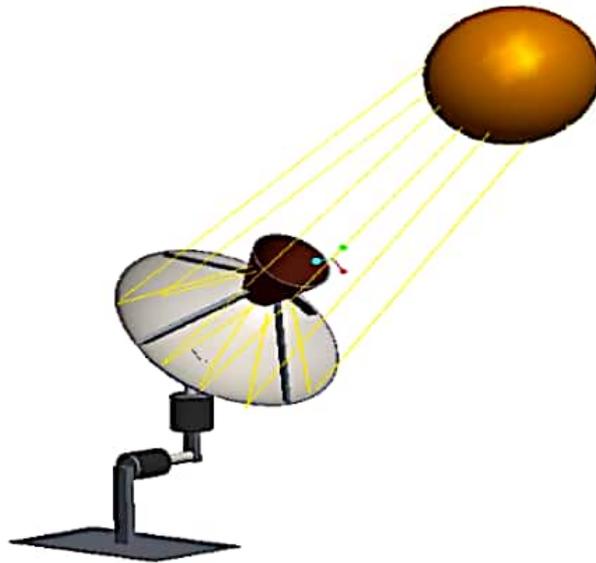
Father's/Husband's Name	RAJAMANI	Father's/Husband's Occupation	FOREMAN
Family Income	200000	Residential Type	URBAN
Birth Place	MADURAI	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	SINGLE
Aadhaar No.	570600165694	PAN No.	CAOPP3260P
Physically Challenged	NO	Type of Disability	-
Address for Communication: 24 SONAIYAR KOVIL STREET NARIMEDU, MADURAI MADURAI DISTRICT TAMILNADU INDIA Pin-625002		Permenant Address: 24 SONAIYAR KOVIL STREET NARIMEDU, MADURAI MADURAI DISTRICT TAMILNADU INDIA Pin-625002	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.E	THERMAL ENGINEERING	ANNA UNIVERSITY	2015	7.4	FIRST	REGULAR
B.E	MECHANICAL ENGINEERING	ANNA UNIVERSITY	2013	7.1	FIRST	REGULAR

Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
VAIGAI COLLEGE OF ENGINEERING	ASSISTANT	2018-11-02	2020-05-24	TEACHING	
JCT COLLEGE OF ENGINEERING	ASSISTANT PROFESSOR	2015-11-02	2018-11-01	TEACHING	

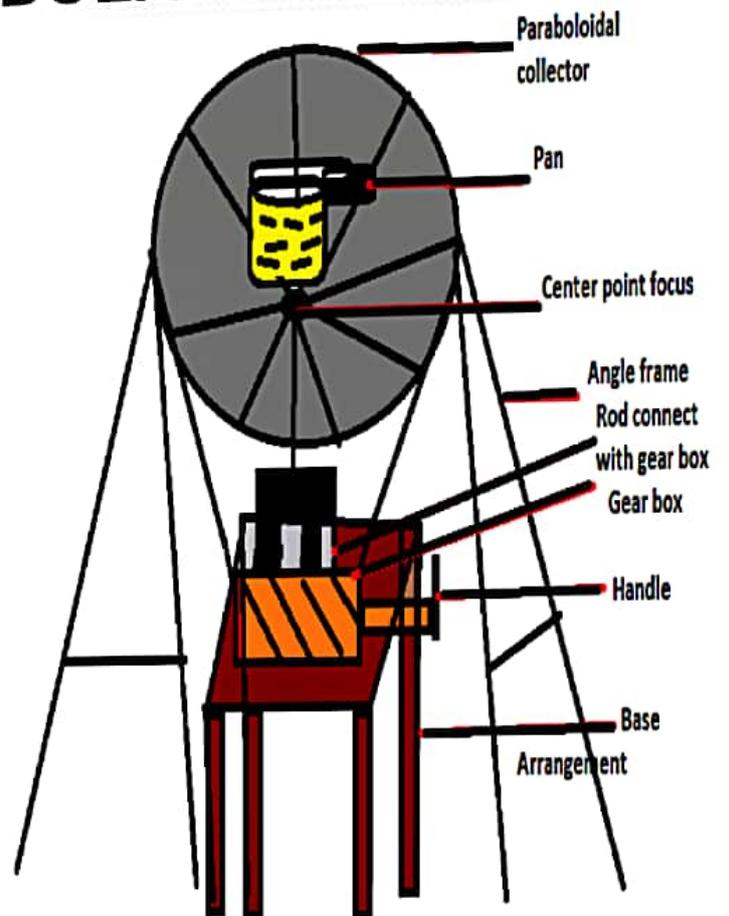
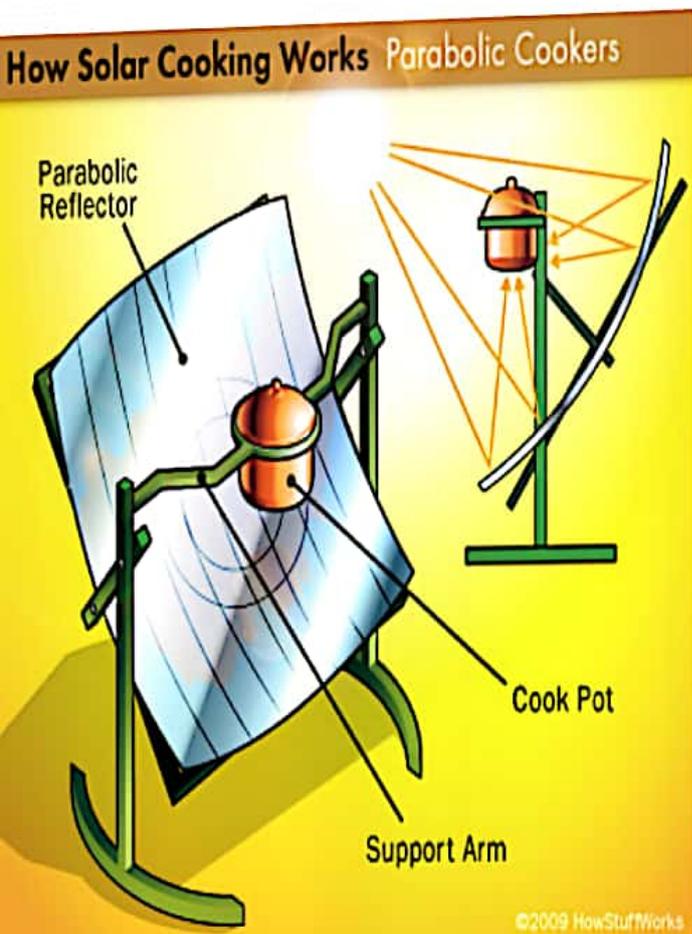
Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
20200020_200710194641	SHMP8984330440	10-07-2020	600	SUCCESS

3D VIEW OF PROJECT



Layer State: SOLAR

COMPARE WITH PARABOLIC COOKERS



The aim of this project is to design a solar cooker using a paraboloidal dish collector. The dish is made up of aluminum material. Aluminum is chosen, as this material reflects sun rays more effectively compared to other materials. There is an arrangement for the cooking pot to be kept. This cooking pot area should be sharply at the focal point of the paraboloidal dish in this arrangement. The cooking pot should be kept so that the heat energy received will be high. As the earth rotates, the inclination of sun rays varies. Hence the sun rays reaching the dish decrease. This makes the system inefficient. So, in order to make the system efficient throughout the day, a mechanical setup is made to rotate the dish based on the inclination of the sun rays. The rotating axis passes through the reflector's centre of mass, allowing the reflector to be turned easily. The cooking vessel is located at the focus which is on the axis of rotation, so the mirror concentrates sunlight onto it all day.

The mechanical setup, to rotate the paraboloidal dish is done with a DC motor and a gear arrangement. The small gear is connected with the DC motor shaft and the large gear is connected with the shaft that rotates the dish. As the motor rotates, the small gear rotates, which in turn rotates the large gear. Based on the gear ratio, the speed of rotation of the large gear varies. If the gear ratio is 1:4, then for every 4 rotations of small gear, the large gear takes a rotation. This type of gear arrangement is made so that the dish moves slowly. The direction of rotation of the dish (motor) is done by key press. This can be made automatic, with the help of microcontroller. For every hour, the dish has to be rotated by 15 degree angle, in order to compensate the earth's rotation.

Anna University



Reg.No. 910415414011/RG

The Syndicate of the Anna University hereby makes known that **PRADEEP R** has been admitted to the **DEGREE OF MASTER OF ENGINEERING** in **THERMAL 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 **JUNE 2015**.

Given under the Seal of the University.



Chennai 600 025
India
January 2019


Controller of Examinations


Registrar


Vice-Chancellor



ANNA UNIVERSITY, CHENNAI - 25
M.E. DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF GRADES

P105312899518R

Folio No. AU11714258



SEM. NO	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	MONTH & YEAR OF PASSING
01	MA7169	Advanced Numerical Methods	4	E	5	JAN 2014
01	TE7101	Advanced Heat Transfer	4	E	5	JAN 2014
01	TE7102	Advanced Thermodynamics	4	B	8	JAN 2014
01	TE7103	Advanced Engineering Fluid Mechanics	3	C	7	JAN 2014
01	TE7104	Fuels and Combustion	3	C	7	JAN 2014
01	TE7003	Refrigeration Machinery and Components	3	C	7	JAN 2014
01	TE7111	Thermal Engineering Laboratory	2	A	9	JAN 2014
02	TE7201	Design of Thermal Systems	3	C	7	JUN 2014
02	TE7202	Instrumentation for Thermal Engineering	3	B	8	JUN 2014
02	TE7203	Environmental Engineering and Pollution Control	3	B	8	JUN 2014
02	EY7008	Nuclear Engineering	3	C	7	JUN 2014
02	TE7007	Refrigeration Systems Design	3	D	6	JUN 2014
02	TE7008	Energy Management in Thermal Systems	3	D	6	JUN 2014
02	TE7212	Simulation Laboratory	2	S	10	JUN 2014
02	TE7211	Seminar I	1	S	10	JUN 2014
03	EY7010	Steam Generator Technology	3	C	7	JUN 2015
03	TE7010	Advanced Power Plant Engineering	3	B	8	NOV 2014
03	TE7012	Cogeneration and Waste Heat Recovery Systems	3	D	6	NOV 2014
03	TE7312	Project Work (Phase I)	6	A	9	NOV 2014
03	TE7311	Seminar II	1	S	10	NOV 2014
04	TE7411	Project Work (Phase II)	12	B	8	JUN 2015

*** End of Statement ***
Cumulative Grade Point Average : 7.39
Classification : FIRST CLASS

Admission No.

Sl. No. : 909



FATIMA MICHAEL COLLEGE OF ENGG. & TECH.



(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Main Road, Madurai - 625 020. Web : www.fmcet.ac.in e-mail : fmcet935@gmail.com

TRANSFER CERTIFICATE

1. Name of the Student : PRADEEP:R
2. Father's Name : Rajamani: S
3. Register Number : 9104.134.1401
4. Nationality, Religion : Indian - Hindu
5. Caste : Thuluva vellala
6. Community : BC
7. Date of Birth (in words) as entered in the Admission Register : 09.04.1992 (Ninth April)
: Nineteen Ninety Two
8. Class in which the student was studying / studied at the time of leaving : M.E 2nd year Thermal Engineering
9. The Course studied by the Student : M.E
10. Branch of Study : M.E Thermal Engineering
11. Date of Admission to the College : 24.06.2013
12. Date on which the Student actually left the Institution : 18.06.2015
13. Reason for leaving : COURSE COMPLETED
14. Course Completed : Yes / No
15. If yes, Result : Refer Mark sheet

Date :

Seal

PRINCIPAL
FATIMA MICHAEL COLLEGE OF ENGG. & TECH.
Madurai-Sivagangai Main Road,
MADURAI-625 020.



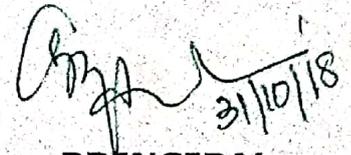
Date: 31.10.2018

SERVICE CERTIFICATE CUM RELIEVING ORDER

This is to certify that **Mr. Pradeep R** was serving as a Assistant Professor in the **Department of Mechanical Engineering** in our institution from 30.11.2015 to 31.10.2018 and he was relieved of her assignments from 31.10.2018.

His Conduct & Character have been good during the period.




31/10/18

PRINCIPAL

PRINCIPAL

JCT College of Engineering & Technology
Pichanur, Coimbatore - 641105

Form No. : HR # 27

Rev.No. : 01

Effective Date : 01-05-2018

JCT College of Engineering and Technology

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Pichanur, Coimbatore - 641 105 Tamil Nadu INDIA Phone: +91 422 2636900 Fax: +91 422 2636901 Email: info@jct.ac.in www.jct.ac.in

आयकर विभाग

INCOME TAX DEPARTMENT



भारत सरकार

GOVT. OF INDIA

R PRADEEP

RAJA MANI

09/04/1992

Permanent Account Number

CAOPP3260P

R. Pradeep

Signature



TN NT



TN58 2012 0007605

Validity

Date of Issue

17-08-2012 (NT) 16-08-2032

Nationality

INDIA

Date of Birth

09-04-1992

Blood Group

B+

Name

PRADEEP R

Father's Name

RAJA MANI S



TN58 2012 0007605



Mobile No

*****2355

Badge No. NIL

17-08-2012
TN58

17-08-2012
TN58

Badge Of

Endorsement Date
06-11-2017

Endorsement No.
TN58 /DLD/0001291/2017

Present Address

OLD NO 26D/1 NEW NO 27,
JAIHINDPURAM MAIN STREET,
MADURAI,625011

Permanent Address

OLD NO 26D/1 NEW NO 27,
JAIHINDPURAM MAIN STREET,
MADURAI,625011

CP R nandak



Form 7 (Rule 1612)

Madurai Licensing Authority

RTO, MADURAI (SOUTH)

**Certificate from Engineering College/Research Organization
Where the Candidate Is Employed**

Certified that Mr./Ms./Mrs. R. PRADEEP is employed as (Designation) ASSISTANT PROFESSOR in the (Department / Division) MECHANICAL of (Engineering College / Organization) VAIGAI COLLEGE OF ENGINEERING. The College / Organization has no objection to forward his / her application for admission to Ph. D. Programme.

FOR FULL-TIME:

The employee will be sanctioned study leave for the minimum duration of the research programme and will be relieved from duty from _____ to _____ in order to undertake Full-time research work in the University Departments/recognized Departments of Engineering Colleges. The necessary relieving order will be given during admission.

(OR)

FOR PART-TIME:

The employee will be permitted to undertake Part-time research in the University Departments/recognized departments of Engineering Colleges and he/she will be permitted to be present for attending course works, discussion with the supervisor, conduct experiments and participate in seminars and research related discussion. Further, the required facilities at our Institute/ organization will also be provided to the employee for doing research.

(Strike out whichever not applicable)

Place : MADURAI
Date : 5-3-20



[Handwritten Signature] 05/03/2020

Signature of the Principal with office seal / Signature of the Head of the R&D organization with office seal
Principal
Vaigai College of Engineering
Therkuthuru, Madurai

[Handwritten Signature] 5/3/2020