



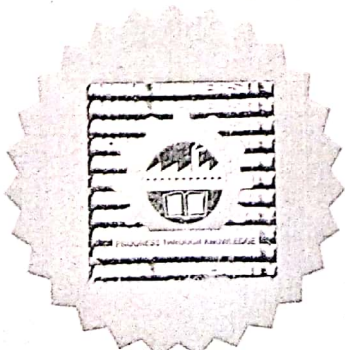
Reg. No.:2006219105/RG

*The Syndicate of the Anna University hereby makes known that*  
**RANJITH KUMAR P** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the Faculty of Mechanical Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2010.*

*Title of the thesis:*

**INVESTIGATION ON MICROTURNING OF ELECTRODE MATERIALS IN INTEGRATED MULTIPROCESS MICROMACHINE TOOL**

*Given under the Seal of the University*



Chennai 600 025  
India

December 2010 *Controller of Examinations*

GAR/12/10

*V. Jayaram*

*Srinivasan*  
Registrar

*Srinivasan*  
Vice-Chancellor

ANNA UNIVERSITY - CHENNAI



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Minutes of the First Doctoral Committee Meeting



Minutes of the DC/MC Meeting for Confirmation



Minutes of the Synopsis DC Meeting & Examiner's Panel



Minutes for Thesis Resubmission



Panel of Subject Experts for Viva-Voce Examination



Ph.D/M.S(Research) Public Viva-Voce Notification



Name : RANJITH KUMAR P

Old / New Reco. No. : 13.02.01.263 / 2920058

Faculty : Mechanical Engineering

Proceedings for Viva-Voce Examination



Claim form and Account Particulars Submission



Synopsis / Thesis Status



Region : AUT-TRICHY

Mobile : 9894958888

Email : ranjjith@gmail.com

Yearly Progress Report Approval

Jan 2020 - Dec 2020

Document Despatched Status



Office Address :  
M.A.M. SCHOOL OF ENGINEERING  
SIRUGANUR  
Tiruchirappalli  
621105



**ANNA UNIVERSITY:: CHENNAI - 25**  
**Department of Mechanical Engineering**  
**MAM School of Engineering, Siruganur, Tiruchirappalli- 621 105**

**Ph.D. Public Viva-Voce Examination**

Name of the Scholar : D. Raj kumar  
Registration Number : 20112012011  
Category of registration : Part-time  
Faculty : Mechanical Engineering  
Title of the Thesis : Process capability analysis of drilling CFRP Composites  
Date and Time of Viva-voce Examination : 26.12.2018 and 9.30 A.M.  
Venue : Seminar hall, Department of Mechanical Engineering, MAM School of Engineering, Siruganur, Tiruchirappalli - 621 105.  
Name and address of the Supervisor : Dr. P. Ranjithkumar  
Professor  
Mechanical Engineering,  
MAM School of Engineering, Siruganur,  
Tiruchirappalli - 621 105.  
Name and address of the Joint Supervisor : Nil  
(if applicable)

All are cordially invited

Date : 12.12.2018  
Place : Siruganur

Signature of the Supervisor

Signature of the HoD/Director of the Centre of the Supervisor  
(Name and seal)

**Dr. P. RANJITH KUMAR, M.E., Ph.D.**  
**PRINCIPAL**

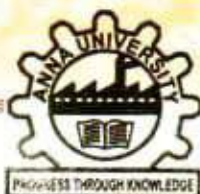
**M.A.M. School of Engineering**  
**Siruganur, Trichy-621 105.**

Copy to:

1. PS to Vice chancellor, Anna University, Guindy, Chennai-25.
2. PA to Registrar, Anna University, Guindy, Chennai-25.
3. The Controller of Examinations, Anna University, Guindy, Chennai-25.
4. The Director, Centre for Research, Anna University, Guindy, Chennai-25.
5. The Director, Academic courses, Anna University, Guindy, Chennai-25.
6. The Regional Director, Anna University, BIT Campus, Trichy-24.
7. The Deputy Director (Research), Anna University, BIT Campus, Trichy-24.
8. The Principals & Deans, Government Engineering College and Anna university constituent college
9. The Principals, All Self Financing Engineering Colleges in Tamilnadu
10. All HOD'S, MAM School of Engineering, Siruganur, Trichy with a request to display in the notice board.
11. Notice Board, Department of Mechanical Engineering, MAM School of Engineering, Siruganur, Trichy 621 105



# Anna University



Reg.No.20112012011/RG



*The Syndicate of the Anna University hereby makes known that*  
**RAJKUMAR D** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the* **Faculty of Mechanical Engineering**, *having been certified by the duly appointed examiners to be qualified to receive the same in the year* **2018**. *The degree has been awarded in compliance with the* **“University Grants Commission, Regulations 2009”**.


*Title of the Thesis:*

**PROCESS CAPABILITY ANALYSIS OF DRILLING CFRP COMPOSITES**

*Given under the seal of the University*



Chennai 600025  
India  
December 2019  
GANDHISI

  
**Controller of Examinations**  
RAJKUMAR D

  
**Registrar**

  
**Vice-Chancellor**





# CENTRE FOR RESEARCH

ANNA UNIVERSITY, CHENNAI-600 025



Proceedings of the Ph.D. Viva-Voce Examination of Mr.Vijayan.K held at 2.30 PM on 28.05.2019 in SEMINAR HALL M.A.M SCHOOL OF ENGINEERING TRICHY PIN CODE-621105

The Ph.D. Viva-Voce Examination of Mr.Vijayan.K (Reg. No. 2011S2012016) on his/her Ph.D. Thesis Entitled " EXPERIMENTAL INVESTIGATION AND PARAMETRIC OPTIMIZATION OF LASER BEAM WELDING FOR LOW CARBON STEEL " was conducted on 28.05.2019 at 2.30 PM in the SEMINAR HALL M.A.M SCHOOL OF ENGINEERING TRICHY PIN CODE-621105.

The following Members of the Oral Examination Board were present:

1. Dr. P. Asokan ,Professor,Department of Production Engineering  
,National Institute of Technology ,Truchirappalli - 620 015 Tamil Nadu  
Indian Examiner
2. Dr. M. Kamaraj,Professor,Department of Metallurgical and  
Materials Engineering,Indian Institute of Technology  
Madras,Chennai - 600 036  
Subject Expert
3. Dr. Ranjithkumar.P,Professor, Department of Mechanical  
Engineering, M A M School of Engineering,Truchirappalli  
Supervisor

The research scholar, Mr. Vijayan.K presented the salient features of his/her Ph.D. work. This was followed by questions from the board members. The questions raised by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by the Indian/Foreign examiner have been carried out and incorporated in the Thesis before the Oral examination.

Based on the scholars research work, his/her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr.Vijayan.K be awarded Ph.D. degree in the Faculty of Mechanical Engineering.

*Asokan 28/5/19*  
Indian Examiner

*M. Kamaraj*  
28/5/2019

Subject Expert

*Ranjithkumar.P*  
Dr. P. RANJITH KUMAR, M.E., Ph.D.  
PRINCIPAL  
M.A.M. School of Engineering  
Siruganur, Trichy-621 105.



# Anna University



Reg.No.2011S2012016/RG



The Syndicate of the Anna University hereby makes known that **VIJAYAN K** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Mechanical Engineering**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2019**. The degree has been awarded in compliance with the “**University Grants Commission, Regulations 2009**”.


*Title of the Thesis:*

**EXPERIMENTAL INVESTIGATION AND PARAMETRIC OPTIMIZATION OF LASER BEAM WELDING FOR LOW CARBON STEEL**

*Given under the seal of the University*



Chennai 600025  
India  
December 2019

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

VIJAYAN K

REGISTRAR





# CENTRE FOR RESEARCH

ANNA UNIVERSITY, CHENNAI-600 025



Proceedings of the Ph.D. Viva-Voce Examination of Mr. Manikandan.K hold at 02.00 PM on 03.09.2021 in SEMINAR HALL, DEPARTMENT OF MECHANICAL ENGINEERING, UNIVERSITY COLLEGE OF ENGINEERING PANRUTI, PANRUTI, via online - Zoom Meeting

The Ph.D. Viva-Voce Examination of Mr Manikandan.K (Reg. No. 2011S2012007) on his/her Ph D. Thesis Entitled "

EXPERIMENTAL STUDIES ON WIRE ELECTRIC DISCHARGE MACHINING OF SUPERALLOYS

" was conducted on 03.09.2021 at 02.00 PM in the SEMINAR HALL, DEPARTMENT OF MECHANICAL ENGINEERING, UNIVERSITY COLLEGE OF ENGINEERING PANRUTI, PANRUTI, via online - Zoom Meeting.

The following Members of the Oral Examination Board were present:

- |  |                                    |
|--|------------------------------------|
| 1. Dr. V Vasu, Associate Professor, Department of Mechanical Engineering, National Institute of Technology Warangal, Warangal - 506 004 Telangana India          | Indian Examiner                    |
| 2. Dr. M Kamaraj, Professor, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai - 600 036 India ph 9445964269 | Subject Expert                     |
| 3. Dr. Ranjithkumar.P, Professor, Department of Mechanical Engineering, M.A.M. School of Engineering, Tiruchirappalli  | Supervisor                         |
| 4. Dr.S Muthukumar, Assistant Professor, Department of Mechanical Engineering, University College of Engineering Panruti, Panruti - 607 106                      | Research Co-ordinator/<br>Convener |

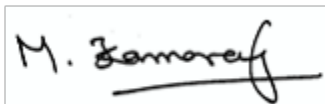
The research scholar, Mr. Manikandan.K presented the salient features of his/her Ph.D. work. This was followed by questions from the board members. The questions raised by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by the Indian/Foreign examiner have been carried out and incorporated in the Thesis before the Oral examination.

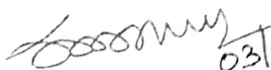
Based on the scholars research work, his/her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr. Manikandan.K be awarded Ph.D. degree in the Faculty of Mechanical Engineering.

  
Indian Examiner

(Dr. V Vasu, MED, NIT Warangal)



Subject Expert

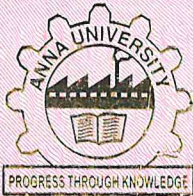
  
Research Co-ordinator

03/09/2021  
**Dr. S. MUTHUKUMARAN, M.E., Ph.D.**  
Assistant Professor,  
Department of Mechanical Engineering,  
University College of Engineering Panruti,  
Panruti - 607 106.

  
Supervisor  
**Dr. P. RANJITH KUMAR, M.E., Ph.D.,**  
PRINCIPAL

M.A.M. School of Engineering  
Siruganur, Trichy-621 105.





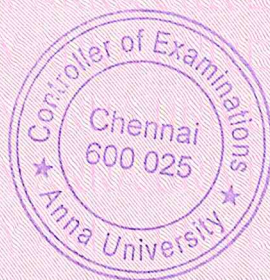
# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: SAR012106

This is to certify that the candidate has qualified for the award of *Degree of Doctor of Philosophy* in compliance of the UGC Regulations 2009 as detailed below:

Name : MANIKANDAN K  
Registration Number : 2011S2012007  
Degree : Ph.D.  
Department/Centre/Subject : MECHANICAL ENGINEERING  
Faculty : MECHANICAL ENGINEERING  
Date, Month & Year of Viva-Voce : 03.09.2021  
Examination held : 03.09.2021  
Title of the Thesis : EXPERIMENTAL STUDIES ON WIRE ELECTRIC DISCHARGE MACHINING OF SUPERALLOYS



Controller of Examinations

Chennai - 600 025

Date: 05-OCT-2021

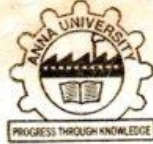


SI. No. : CR 109487

Read by	<i>L. Selvanayagi</i>
Checked by	<i>R. V. idjeapriya</i>



# Anna University



Reg.No. 2012120026/RG

*The Syndicate of the Anna University hereby makes known that*  
**CHANDRASEKARAN K** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the Faculty of Mechanical Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year* **2014**. *The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*

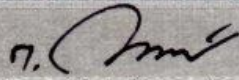
*Title of the Thesis:*

**EXPERIMENTAL STUDY OF MACHINING PARAMETERS FOR TURNING STAINLESS STEEL USING DIFFERENT COATED TOOLS**



*Given under the Seal of the University*

Chennai 600 025  
India  
November 2014  
KAB02104

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor



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Minutes of the Synopsis DC  
Meeting & Examiner's Panel



Minutes for Thesis  
Resubmission



Panel of Subject Experts for  
Viva-Voce Examination



Ph.D/M.S(Research) Public  
Viva-Voce Notification



Proceedings for Viva-Voce  
Examination



Claim form and Account  
Particulars Submission



Synopsis / Thesis Status



Yearly Progress Report  
Approval  
Jan 2020 - Dec 2020

Document Despatched  
Status



Name : K CHANDRASEKARAN K

Old / New Reco. No. : / 2520054

Faculty : Mechanical Engineering

Region : Anna University-CHENNAI

Mobile : 9942042664

Email : kchandrusekaran1984@yahoo.in

Office Address :  
MAM School of Engineering  
Trichy  
Tiruchirappalli  
621105





CENTRE FOR RESEARCH  
ANNA UNIVERSITY  
CHENNAI 600 025

Telephone : + 91-44-2235 0361  
: + 91-44-2235 7366  
Fax : + 91-44-2220 1213  
Email : dirresearch@annauniv.edu  
dirresearch@gmail.com

Dr.USHA NATESAN  
DIRECTOR

Lr.No: SUPR/25<sup>th</sup> RB/ DB

Dated: 31.01.2015

To

**Dr.CHANDRASEKARAN K**

Assistant Professor

Department of Mechanical Engineering

Nadar Saraswathi College of Engineering and Technology,

Vadaputhupatti, Theni-625531.

Sir/Madam,

**Sub:** Ph.D./M.S. (By Research) Programme – Supervisor Recognition – Orders – Issued.

**Ref:** Your application for Supervisor Recognition.

\*\*\*\*\*

I am by direction to inform that you are recognized as a Supervisor (**Ref.No.2520054**) for guiding Ph.D. and M.S. (By Research) scholars of this University under the faculty of **Mechanical Engineering.**

Area of Specialization: "**Manufacturing Engineering And Optimization**"

The functions and responsibilities of the supervisor are described under clause (7) of the Ph.D./M.S. (By Research) regulations of this University and applicable as and when amendments are made to the Regulations from time to time.

***Supervisors working in the recognized R&D Centre of Industries/non-recognized research Departments of Engineering College/Architecture Schools situated within Tamil Nadu shall function only as Joint Supervisor.***

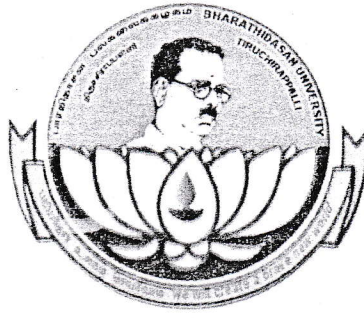
I request you to adhere strictly the regulations (available in <https://cfr.annauniv.edu/research/instructions.php>) when you start guiding scholars.

In all future correspondence quote **2520054** for reference.

  
DIRECTOR

**Copy to** : Head of the Department / Institution





Code No. 05626 :S.No. 537700

**பாரதிதாசன் பல்கலைக்கழகம்**  
**BHARATHIDASAN UNIVERSITY**

(Established by the Government of Tamil Nadu in 1982; Recognized by UGC under 2f and 12B of UGC Act;  
Member, Association of Indian Universities and Association of Commonwealth Universities; Accredited by NAAC with 'A' Grade)

**அறிவியல் புலம்**  
**FACULTY OF SCIENCE**

**பாரதிதாசன் பல்கலைக்கழக ஆட்சிக் குழு பிப்ரவரி 2010**

ஆம் ஆண்டு **எஸ். முருகானந்தம்** என்பவர்  
கணிதவியல் பிரிவில் **முனைவர்** என்னும்  
பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி  
**முனைவர்** என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக  
இலச்சினையுடன் வழங்குகிறது.

*The Syndicate of the* **BHARATHIDASAN UNIVERSITY** *hereby makes*  
*known that* **S. MURUGANANDAM** *has been admitted*  
*to the Degree of* **DOCTOR OF PHILOSOPHY,** *in the subject*  
**MATHEMATICS,** *having been certified by duly*  
*appointed Examiners to be qualified to receive the same in*  
**FEBRUARY 2010.**

Thesis Title

"STUDY ON OPTIMIZATION PROBLEMS IN FUZZY ENVIRONMENT"

*Given under the seal of the University.*



ANNA UNIVERSITY:: CHENNAI - 25  
Department of Mathematics  
M.A.M. School of Engineering  
Siruganur, Trichy - 621 105

Ph.D. Public Viva-Voce Examination

Name of the Scholar : K.Hema  
Registration Number : 2011S5012005  
Category of registration : Part-time  
Faculty : Science & Humanities  
Title of the Thesis : Contributions to the Study on Assignment Problems in  
Fuzzy Environment  
Date and Time of Viva-voce Examination : 22.05.2019, 10.15 A.M  
Venue : Seminar Hall,  
M.A.M. School of Engineering,  
Siruganur, Trichy - 621 105.  
Name and address of the Supervisor : Dr. S. Muruganandam,  
Professor & Head,  
Department of Mathematics,  
M.A.M. School of Engineering,  
Siruganur, Trichy-621 105.

All are cordially invited

Signature of the Supervisor  
3/5/19  
**DR. S. MURUGANANDAM**  
(Name and Seal)  
Professor and Head  
Department of Mathematics  
M.A.M. School of Engineering  
Siruganur, Trichy - 621 105

Signature of the HoD/Director of the Centre of the Supervisor  
**Dr. P. PRANITH KUMAR, M.E., Ph.D.**  
(Name and Seal)  
PRINCIPAL  
M.A.M. School of Engineering  
Siruganur, Trichy-621 105.

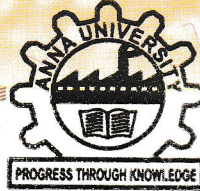
Date : 03.05.2019  
Place: Trichy

Copy to:

1. The Director, Centre for Research, Anna University, Chennai-600 025.
2. The Controller of Examinations, Anna University, Chennai-600 025.
3. Dr. R. Balasubramian, Head, Institute Computer Centre, Indian Institute of Technology Roorkee, Roorkee-247667
4. Dr. J. Subramani, Professor, Department of Statistics, Ramanujan School of Mathematical Sciences, Pondicherry University, Pondicherry-605014.
5. The Principal, M.A.M. School of Engineering, Siruganur, Trichy-621 105.
6. The Principal, M.A.M. College of Engineering and Technology, Siruganur, Trichy-621 105.
7. The Principal, Anna University Affiliated Engineering Colleges.



# Anna University



Reg.No.2011S5012005/RG



The Syndicate of the Anna University hereby makes known that **HEMA K** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Science and Humanities**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2019**. The degree has been awarded in compliance with the “**University Grants Commission, Regulations 2009**”.


*Title of the Thesis:*

**CONTRIBUTIONS TO THE STUDY ON ASSIGNMENT PROBLEMS IN FUZZY ENVIRONMENT**

*Given under the seal of the University*



Chennai 600025  
India  
December 2019  
QAR017095

  
Controller of Examinations  
HEMA K

  
Registrar

  
Vice-Chancellor  
803228080847311A906D663071D0F




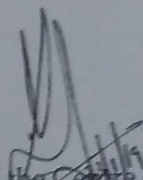
ANNA UNIVERSITY:: CHENNAI - 25  
Department of Mathematics  
M.A.M. School of Engineering  
Siruganur, Trichy - 621 105

Ph.D. Public Viva-Voce Examination

Name of the Scholar : P. Ambika  
Registration Number : 2011S5012001  
Category of registration : Part-time  
Faculty : Science & Humanities  
Title of the Thesis : A Study on Linear Fractional Programming Problems in Fuzzy Environment  
Date and Time : 11.02.2019, 10.25 A.M  
Venue : Seminar Hall,  
M.A.M. School of Engineering,  
Siruganur, Trichy - 621 105.  
Name and address of the Supervisor : Dr. S. Muruganandam,  
Professor & Head,  
Department of Mathematics,  
M.A.M. School of Engineering,  
Siruganur, Trichy-621 105.

All are cordially invited

  
23/1/19  
Signature of the Supervisor  
**Dr. S. MURUGANANDAM**  
Professor and Head  
Department of Mathematics  
M.A.M. School of Engineering  
Siruganur, Trichy - 621 105

  
Signature of the HoD/Director of the Centre of the Supervisor  
**Dr. P. RANJITH KUMAR, M.E., Ph.D.**  
(Name and seal)  
PRINCIPAL  
M.A.M. School of Engineering  
Siruganur, Trichy-621 105.

Date : 23.01.2019  
Place : Trichy

Copy to:

1. The Director, Centre for Research, Anna University, Chennai-600 025.
2. The Controller of Examinations, Anna University, Chennai-600 025.
3. Dr. Rais Ahmad, Professor, Dept. of Mathematics, Aligarh Muslim University, Aligarh-202002.
4. Dr. C. Durairajan, Associate Professor, Dept. of Mathematics, Bharathidasan University, Trichy-620 024.
5. The Principal, M.A.M. School of Engineering, Siruganur, Trichy-621 105.
6. The Principal, Bishop Heber College, Trichy-620 017.
7. The Principal, Anna University Affiliated Engineering Colleges.



# Anna University



Reg.No.2011S5012001/RG

The Syndicate of the Anna University hereby makes known that **AMBIKA P** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Science and Humanities**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2019**. The degree has been awarded in compliance with the "**University Grants Commission, Regulations 2009**".

*Title of the Thesis:*

**A STUDY ON LINEAR FRACTIONAL PROGRAMMING PROBLEMS IN FUZZY ENVIRONMENT**

*Given under the seal of the University*



Chennai 600025  
India  
December 2019  
QAM/17/19

  
Controller of Examinations  
AMBIKA P

  
Registrar

  
Vice-Chancellor