



National Institute of Technology
Tiruchirappalli

राष्ट्रीय प्रयोगिकी संस्थान
तिरुचिरापल्ली

தேசிய தொழில்நுட்பக் கழகம்
திருச்சிராப்பள்ளி

Home

About

Administration

Academic

Admission

Departments / Centres

Research

Faculty

Dr. C. Sathiya Narayanan



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Qualification

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Regional Engineering College - Bharathidasan University	2007		
M.E.	Regional Engineering College - Bharathidasan University	1996	Manufacturing Technology / I Class	
B.E.	Mookambigai College of Engineering - Bharathidasan University	1994	Mechanical Engineering/ I Class	

Field(s) of Specialization

- Sheet Metal Forming, EDM

Appointment Particulars

Job Title	Employer	From	To
Professor	National Institute of Technology, Tiruchirappalli	21-09-2022	Till Date
Associate Professor	National Institute of Technology, Tiruchirappalli	12-03-2018	20-09-2022
Assistant Professor	National Institute of Technology, Tiruchirappalli	01-07-2010	11-03-2018
Assistant Professor / Lecturer (S.S)	National Institute of Technology, Tiruchirappalli	01-07-2007	30-06-2010
Lecturer	National Institute of Technology, Tiruchirappalli	29-03-2006	30-06-2007
Assistant Professor	J.J. College of Engineering and Technology, Trichy	01-07-2001	28-03-2006
Lecturer	J.J. College of Engineering and Technology, Trichy	30-09-1996	30-06-2001

Publications

International Journals : 73

International Conferences : 30

National Conferences : 02

◦ Journals

Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Head of the Department	Department of Production Engineering, NITT	March-2022	Till date
Associate Dean (FW)	NITT	21-12-2018	March-2022
Warden (Agate, Coral, Mess A & B)	NITT	21-02-2018	20-07-2019
Faculty In-Charge FESTE MBER 2018	NITT	12-03-2018	11-03-2019
Staff advisor of PEA	Department of Production Engineering, NITT	01-06-2020	31-05-2021
Class Advisor	Department of Production Engineering,	01-06-2018	31-05-2021

Position	Faculty/Department/Centre/Institution	From	To
	NITT		
Project coordinator	Department of Production Engineering, NITT	01-06-2020	31-05-2021
Member in convocation committee	NITT	01-06-2018	24-09-2021
Department Member in Ph.D. Admission Committee	Department of Production Engineering, NITT	01-06-2018	24-09-2021
Member in convocation committee	NITT	01-01-2007	31-12-2017
Member in Ph.D. Admission Committee	Department of Production Engineering, NITT	01-05-2011	10-11-2017
Member in stock verification committee	Department of Production Engineering, NITT	01-04-2007	01-12-2016
Project coordinator for M.Tech	Department of Production Engineering, NITT	01-07-2013	31-05-2014
Staff advisor for M.Tech Class	Department of Production Engineering, NITT	01-07-2012	31-05-2014
Member in department level NBA committee	Department of Production Engineering, NITT	01-06-2008	02-05-2014
Faculty In-charge for purchasing materials/machine	Department of Production Engineering, NITT	01-06-2012	31-05-2013
Staff advisor of PEA	Department of Production Engineering, NITT	01-07-2010	01-07-2011
Project coordinator	Department of Production Engineering, NITT	01-07-2010	31-05-2011
Class Advisor	Department of Production Engineering, NITT	01-06-2008	31-05-2011
Member in core committee for	NITT	01-03-2009	01-03-2010

Position	Faculty/Department/Centre/Institution	From	To
implementation of DST			
Member in publication committee in SCMIS conference	NITT	01-06-2007	31-05-2008

Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Academic Expert member of the BOS, Mechatronics Engineering Program of Kumaraguru College of Technology, Coimbatore	Kumaraguru College of Technology, Coimbatore	2021	-
Academic Expert member of the BOS, for B.E. (Mechanical Engineering) & M.E. (Manufacturing Engineering), M.Kumarasamy College of Engineering, Karur	M.Kumarasamy College of Engineering, Karur	2021	-
Invited Lecture in MECHNOVA 19	PRIST, Thanjavur	2019	-
Invited Talk in Webinar	SRMS CET Bareilly	2021	-
DC Member for Five Research Scholars	Anna University	2020	-
DC Member for Three Research Scholars	Anna University	2019	-
DC Member for Three Research Scholars	Anna University	2018	-

Position	Institution	From	To
Board of Studies - Updating the Curriculum	KSR College of Technology, Tiruchengode	2017	-
Board of Studies - Updating the Curriculum	KSR College of Technology, Tiruchengode	2016	-
Workshop	Bannari Amman Institute of Technology, Satyamangal	2010	-
International Conference	J.J.College of Engineering and Technology	2012	-
International Conference	MME Department, NIT, Trichy	2015	-
DC Member	Anna University	2009	-
DC Member	Anna University	2010	-
DC Member	Anna University	2011	-
DC Member	Anna University	2012	-
DC Member	Anna University	2013	-
DC Member	Anna University	2014	-
DC Member	Anna University	2015	-
DC Member	Anna University	2016	-
DC Member	Anna University	2017	-
Workshop	VIT Vellore	2016	-
DC Member	VIT Vellore	2017	-
DC Member	VIT Vellore	2016	-
DC Member	VIT Vellore	2015	-
Workshop	Roever College of Engineering and Technology, Pera	2013	-
Workshop	Kongunadu College of	2015	-

Position	Institution	From	To
	Engineering and Technology		

Projects guided at Postgraduate level

S. No.	PG Thesis Title	Student Name	Year
1	Development of Multi Point Forming Tool for Incremental Sheet Metal Forming Process, Multiple Sheet Forming of Dual Phase Steel and Multi Point Incremental Forming of SS 420 Sheets	K. A. SELVA RAJAN	2022
2	Development of Proactive measure for improving Plant safety performance by mapping incidents root causes with Safety observations data	Ankit Singh Rawat	2022
3	Multi Objective Optimization and Investigation of Surface Roughness in Incremental Forming of duplex stainless steel grade 2205	Redkar Arjun Ganpat	2022
4	Process Simulation of Single Point Incremental Forming using a Finite Element Model	Nihad Najeeb	2022
5	Formability Analysis and Multi Objective Optimization of duplex stainless steel grade 2205 in Single Point Incremental Sheet Forming	Redkar Arjun Ganpat	2021
6	Multi Objective Optimization of Single Point Incremental Forming of Perforated Sheet Using Desirability Function Method	Nihad Najeeb	2021
7	Modelling and Multi Objective Optimization of Single Point Incremental Sheet Forming on Cu Ni 70/30	Deepak Joy	2021
8	Multi Response Optimization of Parameters in Incremental Sheetmetal Forming of Ni-200 Alloy	Mohammed CK	Rameez 2021
9	Formability Evaluation of Cu-Ni 70/30 Alloy on Single Point Incremental Forming Method	Deepak Joy	2020
10	Formability of Nickel 200 Alloy by Incremental Sheet Metal Forming	Mohammed CK	Rameez 2020
11	Multi Response Optimization on Single Point Incremental Forming of Hyperbolic Shape Cu/Al Bimetallic Sheet	Aman Kumar Bharti	2020
12	Optimization of Process Parameter for Single Point Incremental Forming on Titanium Alloy OT4-1 using	Rakesh Patel	2020

S. No.	PG Thesis Title	Student Name	Year
	Taguchi Grey Relational Analysis		
13	Hybrid Optimization for Single Point Incremental Forming of SS 904L	Shah Arjun Ramkripal	2020
14	Investigations on Forming, Fracture and Corrosion Behavior of Stainless Steel 202 Sheet Formed by Single Point Incremental Forming Process	Vignesh. G	2020
15	IMPROVING PRODUCTIVITY of TUNNEL BORING MACHINES	BHAVANA LEKSHMY MV	2020
16	IMPROVING PRODUCTIVITY of TUNNEL BORING MACHINES	BHAVANA LEKSHMY MV	2019
17	Forming and Optimization for SPIF of Bimetallic Cu/Al Alloy Sheets	Aman Kumar Bharti	2019
18	Experimental Investigation of Single Point Incremental Forming on Titanium Alloy OT4-1	Rakesh Patel	2019
19	Incremental Sheet Metal Forming of Aluminium 7475 Alloy	Duddu Vinod Kumar	2019
20	Formability Studies on AA6063 Alloy using the Single Point Incremental Forming Process	Balkrishna	2019
21	Optimization of Aluminium 7475 Alloy sheet during SPIF process	Duddu Vinod Kumar	2018
22	Optimization of Aluminium 6063 Alloy sheet during SPIF process	Balkrishna	2018
23	Optimization of Wall Angle in Incremental Sheet Metal Forming of Al-5083 Alloy	M Jaipal Lambada	2018
24	Optimization of Wall Angle in Incremental Sheet Metal Forming of Al-5754 Alloy	Vangapalli Venkata Chandrasekhararao	2018
25	Optimization of Wall Angle in Incremental Sheet Metal Forming of Al-1100 Alloy	Shaik Saidhul	2018
26	Incremental Sheet Metal Forming of Aluminium 5083 Alloy	M Jaipal Lambada	2017
27	Incremental Sheet Metal Forming of Aluminium 5754 Alloy	Vangapalli Venkata Chandrasekhararao	2017

S. No.	PG Thesis Title	Student Name	Year
28	Incremental Sheet Metal Forming of Aluminium 1100 Alloy	Shaik Saidhul	2017
29	Optimization of Formability and Spring Back in Multi Sheet Single Point Incremental Forming of Pure Aluminium Foil	Neelkamal Haloi	2016
30	Effect of Cryogenic Treatment on Formability in Incremental Sheet Metal Forming of Aluminium Sheets	Surendra Singh Nagdali	2015
31	Optimization of Process Parameters for Eelectro Chemical Machining of Stellite 6B	Ram Krishna Raman	2015
32	Modelling and Optimization of Process Parameters in Incremental Sheet Metal Forming of Al 6081 Alloy Using Genetic Algorithm Technique	Devara Ravi Babu	2014
33	Multiresponde Optimization of ECM Process Parameters for Titanium Carbide Using Grey Relation Analysis and DOE	Pradeep Rathore	2014
34	Parametric Optimization of Electrochemical Machining of Ni Based Alloy (Inconel 718)	Ram Krishna Raman	2014
35	Effect of Texture on Formability in incremental Sheet Forming of Al Sheets	Surendra Singh Nagdali	2014
36	Effect of Process Parameters on Formability in Incremental Forming of Sheet Metal	D.Vinodkumar	2013
37	Optimization of ECM Process Parameters for Al 3% SIC Composite Using Taguchi Method and Anova Analysis	Pradeep Rathore	2013
38	Optimization of Multiple Hole Electrode for Electrical Discharge Machining of Tool Steel	D.Ravichandra	2012
39	Formability Study of Al-6061 Through Incremental Sheet Metal Forming	E. Linganna Gowd	2012
40	Electrical Discharge Machining of Die Steel With Bundled Electrode	Pagidi Madhukar	2012
41	The Influence of Tool Size and Rotation on as Incremental Forming Process	D.Vinod Kumar	2012
42	Electrical Discharge Machining of AISI D3 Tool	R.Prasad Prathipati	2011

S. No.	PG Thesis Title	Student Name	Year
	Steel With Multiple Hole Electrodes		
43	Modelling of Grinding Process of Aluminium-Ti Boride Metal Matrix Composites	Mathew Alex	2010
44	Implementation of Activated TIG Process in Boiler Pressure Parts	N.Srinivasan	2010
45	Optimization of Parameters for Angularity and Squareness in EDM of Inconel 718 Using Grey Relational Analysis	Sathosh Kumar B	2010
46	Improvement of Performance EDM by Adaptive Control While Machining Inconel 718 as Workpiece With Copper Electrode of Different Profile	Senkathir S	2010
47	Formability of Perforated Aluminium 8081 Sheet	Jain Raj V	2009
48	Optimization Machining Parameters in Electrical Discharge Machining of Inconel 718 Using Grey Relational Analysis	Santhosh Kumar B	2009
49	Modelling and Experimental Study of Forces in Surface Grinding	Mathew Alex	2009
50	Taguchi Multiple Performance Characteristics Optimization of Electrical Discharge Machining of Ti Alloy Using Utility Concept	A Palanisamy	2008
51	Formality Limit Diagram of Perforated Aluminium 19000 Sheets	N. Srinivasan	2008
52	Modelling and Analysis of the Rapidly Resolidified Layer of SG Cast Iron in the EDM Process Through the Response Surface Methodology	R.Dinakaran	2007
53	Multi Objective Optimization of EDM Parameters Using Grey Relational Analysis for Ti Alloy	A.Palanisamy	2007
54	Determination of Forming Limit Diagram and Strain Distribution for HSLA Steels	K.Amarendranath	2006
55	The Machining Parameters Optimisation of Electrical Discharge Machining of EN31 Alloy Steel Using RSM	R.Dinakaran	2006

Details of Academic Work

- Curriculum Development – Contributed as a Department Member PR613 – Heat Treatment
- Courses taught at Postgraduate and Undergraduate levels
PG Courses Taught:
PR602 – Advanced Forming Technology
PR613 – Heat Treatment
PR617 - Manufacturing of Non-metallic Products

UG Courses Taught:
PRPC12 - Metallurgy and Materials Engineering
PRPC17 - Forming Technology
PRLR13 - Weldability and Formability Testing Lab
PRIR11 – Engineering Practice
MEIR12 – Engineering Graphics
- Projects guided at Postgraduate level
- Other contribution(s)

Details of Major R&D Projects

Title of Project	Funding Agency	From	To	Ongoing/ Completed
Forming Limit Diagram, Wrinkling Limit Diagram and other Test Results for TISCO High Tensile Interstitial Free and other Steel Sheets	TATA Steel, the TATA Iron and Steel Company Limited	14-07-2005	31-03-2008	Completed
Formability of Low Nickel Stainless Steels	Salem Steel Plant	14-11-2006	14-11-2009	Completed

Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Gunda Yoganjaneyulu	Investigations on the Formability, Fracture and Corrosion Behaviour of Titanium Grade 2 and Grade 4 Sheets Using Incremental Forming Process	Supervisor	2020
C. Raju	Investigations on Incremental Forming of Pure Copper and Aluminium Sheets	Supervisor	2017

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
N. Manikandan	Investigations on Electrochemical Drilling of Superalloys and Titanium alloys	Co-Supervisor	2017
L. Selvarajan	Investigations on Electrical Discharge Machining (EDM) of Conductive Ceramic Composites	Supervisor	2016
K. Elangovan	Statistical Analysis and Modelling of Experimentally Evaluated Forming Limit Strains of Perferated Aluminium Alloy Sheets	Supervisor	2011

Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Role of Quality of Problems and Feedback in Learning	International	21-07-2020	Coordinator	National Institute of Technology, Trichy - 15
How Teachers Can Make a Difference	International	03-08-2020 to 07-08-2020	Coordinator	National Institute of Technology, Trichy - 15
E-Content Development	International	10-08-2020 to 14-08-2020	Coordinator	National Institute of Technology, Trichy - 15
The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal)	International	19-08-2020	Coordinator	National Institute of Technology, Trichy - 15
Metal Forming and Powder Metallurgy	International	28-01-2008 to 30-01-2008	Coordinator	National Institute of Technology, Trichy - 15
Composite Materials: Processing Challenges and Opportunities	International	13-07-2009 to 24-07-2007	Coordinator	National Institute of Technology, Trichy - 15
Emerging Trends in Manufacturing	International	26-09-2016	Coordinator	National Institute of

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Technology		to 01- 10- 2016		Technology, Trichy - 15
Advances in Manufacturing Technology	International	08-08- 2013 to 10- 08- 2013	Coordinator	National Institute of Technology, Trichy - 15

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Academics

Academic Programmes
 Departments
 Faculty
 Rules and Regulations
 Scholarships

Student Life

Admissions

B.Tech. / B.Arch.
 M.Tech. / M.Arch.
 M.Sc. / MA
 MCA / MBA
 MS (By Research)

Other Links

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