

Name: Dr.S.SHYAM SUNDER RAO
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Department: Mechanical Engineering
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Experience (in years):31
Teaching:(VNRVJIET)- 21
Industrial (Ashok Leyland-1988-1996)-7
Research (Ashok Leyland-1996-1999)- 3

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D.)	Year of passing	Specialization
1.	B.Tech. NIT(REC) Warangal	1988	Metallurgy
2.	M.Tech. JNTUH, Hyderabad	2002	Industrial Engineering and Management.
3.	MBA, IGNOU, New Delhi	2004	Production & Operations
4.	Ph.D., JNTUH, Hyderabad	2016	Mechanical Engg.(IE)

2. Teaching and Learning:

2.1. Teaching Interests:

Metallurgy and Material Science, Operations Research, Material Technology, Production Planning and Control, Production Technology, Management Science, Nanotechnology Production and Operations Management, Industrial Engineering and Management, Material Technology etc.

2.2. Novel Teaching & Learning Techniques adopted:

VNR Lab Protocol, Videos, PPT, On job practice, On line tools, Giving live examples, participating the students in the discussion, WIT & WIL, POGIL etc.

2.3. Involvement in curriculum updating / Design:

- As a member of Board of Studies of ME and AE, reviewed the entire syllabus.

- Modified the curriculum of Metallurgy and Material Science, Operations and Research, Industrial Engineering and Management, Optimization Technique, Material Technology etc.
- Framed the syllabus for the Operations Research for CS & BS (Computer Science and Business Systems coordinating along with CSE Dept.) and the lab for Operations Research.

2.4 Presently teaching/load.

1. IV B.Tech. I. Sem-ME1-operatinos Research
2. IV B.Tech. I. Sem-ME2-operatinos Research
3. ECE/EEE/IT-Work Shop
4. M.Tech. -Projects Guide
5. B.Tech. Projects Guide
6. M.Tech Projects reviews
7. B.Tech. Projects review
8. ME-Work Shop
9. Metallurgy and Materials Engineering Lab
- 10.Industrial Engineering
- 11.Operations Research for CS & BS

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Exploring the new innovations in technologies
- Teaching and Learning
- Research, Reading etc.

3.2. CCA/ECA Organized:

- Conducting training to students towards Industry Oriented Mini and major Projects2017,2018
- Organized SINTILLATIONS in 2018
- Organized the SINTILLATIONS in 2019
- Faculty coordinated and Reviewed the projects for M.Tech and B.Tech

3.3. CCA/ECA participated:

- SINTILLATIONS2016 (Committee member)
- SINTILLATIONS2017 (committee member)
- Delivered expert lecture on composite materials in MLR institute of Engineering and Technology.

3.4. Counseling and Mentoring Activity:

- Mentor for B.Tech. II year students.

3.5. Committees involved in:

Department level:

- Conducted class review meetings with student representatives.2015onwards
- Department development committee.
- Member in BOS
- Member in Syllabus review committee
- Member in Department Accreditation and Autonomy committee-NBA, NAAC, UGC, JNTUH (2008 onwards)
- In-charge of Metallurgy and Materials Engineering Lab

Institute Level:

- Institute Management Representative for ISO9001:2015
- In charge for Central Stores
- SINTILLATIONS2017, Coordination committee member
- Coordination committee member- SINTILLATIONS2018,
- In charge of committee/chairman- SINTILLATIONS2019,
- Coordinator- NBA, NAACA,
- Coordinator for Lab inspection team JNTUH etc.

3.6 Governance and Administration

1. Lab In-Charge (Metallurgy and Material Science-Purchase of material, consumables, non-consumables, maintenance of equipment and machinery, JNTUH uploading etc. Preparation of Lab protocols

2. Central Stores In charge (institutional work) Maintenance, procurement, inventory maintenance of stationery materials, electrical, electronics, computer peripheries, plumbing items etc.

3. ISO 9001:2015 certification-Management Representative for the Institution

Maintenance of documents, procedures, conducting audits etc.

4. Furniture committee head (/i/c)-maintenance of furniture-furniture repairs etc.

5. Coordinator for-TEQIP, NBA and NAAC-Criteria In charge-V

6. Extension activities participated-Sinti Committee i/c and class coordinated

7. Internship arranged for M.Tech. projects etc.

8. As a team member in Pedestal water taps (COVID-19)- As a team member in Pedestal water taps-searched for the suitable taps, pipes for the covid19, and contributing in that work to fixing the new pedestal water taps

4. Conference / Workshop / Seminar / Guest Lectures: Attended

S.No	Name of Course	Organised by	From----- To-----	Duration in weeks	API Score
1	Evaluation and Prevention of Corrosion and Failures (STC/FDP)	University of Hyderabad, Hyderabad& organized by ARCI, ERF	29-Nov-2012 TO 30-Nov-2012	2D	4
2	Institute of winter school on Advances in Aeronautical Materials and (STC/FDP)	MGIT, Hyderabad winter school	15-Dec-2010 19-Dec-2010	1w	10
3	Information Systems on Modelling (STC/FDP)	NIT, WARANGAL MHRD sponsored	19-May-2008to 31-May-2008	2w	20
4	Computational Techniques- HEAT AND MASS FLOW (STC/FDP)	VNRVJIET	01-May-2003 to 06-May-2003	1w	10
5	Total Quality Management in Technical Education(TRAINING)	VNRVJIET	17-Jun-2008 TO 21-Jun-2008	1W	10
6	Nanomaterials and Their applications (STP)	NITTR, Chandigarh	12-Nov-2007 TO16-Nov-2016	1W	10
7	Vendor Quality Management	Indian Statistical Institute, SQC&OR	23-Sep-1997 25-Sep-1997	3D	5
8	Finite Element Methods in Mechanical Engineering	VNRVJIET	25-Feb-2016 27-Feb-2016	3D	5
9	Supply Chain Management with case studies	K L University	24-Apr-2010 25-Apr-2010	1D	2
10	Modelling with STELLA	VNRVJIET	02-Jan-2009 03-Jan-2009	2D	3

11	Quality assurance by Metallography	VNRVJIET	15/05/2012 TO 15/05/2012	1D	2
12	Role of Mechanical Engineers in Chemical Industry(seminar)	VNRVJIET	04/01/2016 TO 04/01/2016	1D	2
13	3D-PRINTING (FDP)	VNRVJIET	2016	3D	5
14	NDT(WS)	VNRVJIET	2016	3D	5
15	AMS(FDP)/ADDITIVE MANUFACTURING	VNRVJIET	2016	3D	5
16	AUTO CAD / CNC &ABACUS etc.	VNRVJIET	2016	2D	3
17	Methods and Practices In SCM	KL UNIVERSITY	Aug,2016	2D	3
18	Insight into Finite element analysis ABAQUS	ABACUS-ETC&VNRVJIET	Oct,2016	2D	3
19	ADAMS software	VNRVJIET	21-11-2017to25-11-2017	5D	10

- **Conducted:** Conducted a one-week workshop /professional training program on “STELLA Software”, VNRVJIET, Hyd.
- Conducted a one-week shop term program on Metallography, about metallurgy lab etc.
- **Attended:** Total Quality Management in Technical education, train the trainer, Geometric modelling using CATIA v5 a practical approach, Finite element applications, etc.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

S.No.	Title/Academic Session/ Subject of lecture delivered	Organising Institution (Name of City & Country)	Whether National or International	Date of lecture	Duration
1	Composite material for Aerospace industry	MLRIT	National	2010	2 hours
2	MEMS	VNRVJIET-FOR eie Dept	National	3&5-10-2013	2 hours

3	Recent trends in Research Opportunities in Manufacturing	VNRVJIET-FOR EIE Dept	National	9-3-16 to 11-3-16	3 days
4	Effect of elements on Sg iron	IIT, BHU	International		3 days

5.2. Articles/Chapters published in Books: -

5.3. Books published -1

5.4. Projects Guided:

a) UG: 90

b) PG: 18

5.5. Research Interests: Metallurgy and Material Science, Production, Operations Research, Material Technology, Production Planning and Control, Production Technology, Nanotechnology, supply chain, system dynamic and simulations.

5.6. PhD students:

a) Enrolled: -

b) Submitted:-

c) Awarded:-

5.7. Papers published in reviewed journals:

S.No	Title of the Paper	Journal Name Vol. No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Case study and experimental investigation towards the CNC Router	IJRSET ISSN-2319-8753online ISSN-2347-6710print	ISSN-2319-8753online ISSN-2347-6710print	5.901	International
2	Fabrication and study of mechanical properties of SISAL, GLASS Fibre and MWCNT (multi walled carbon nanotubes)	IJRSET VOL.4, ISSUE8, ISSN-2319-8753	ISSN-2319-8753	5.901	International
3	Supply chain management,	International Journal of Mechanical and	ISSN1536-2647	1.752	International

	simulation & system Dynamics of an Iron foundry	Automobile Engineering (IJAMS) VOL15, ISSUE2 ISSN1536-2647			
4	Design and study of Supply chain engineering in automobile industry	VO;.3, ISSUE4, ISSN2347-1964	ISSN2347-1964	0.477	International
5	Supply chain management: methods and practices in different organizations	International Journal of Mechanical and Automobile Engineering (IJMAE) 2011, VOL18, PP15-20 ISSN0974-231X	ISSN0974-231X	3.2	International
6	Supply Chain Management: Mathematical Model Experimental results for Supplier-Buyer Coordination, Optimization of inbound Supply chain	International Journal of Mechanical and Automobile Engineering (IJMAE) 2011, VOL18, PP15-20 ISSN0974-231X	ISSN0974-231X	3.2	International
7	Design and Development of an Automated pneumatic press	Elsevier (full paper accepted-to be printed)	ISSN0974-231X	3.2	International
8	Preparing, studying, and drilling the hybrid composite material without orientation of fibres	IJLERA v-2, issue-10, Oct-2017, pp55-66	ISSN:2455-7137	3	International

9	Preparing, studying, and drilling the hybrid composite material with different orientation of fibres	IJLERA v-2, issue-10, Oct-2017,pp48-55	ISSN:2455-7137	3	International
10	Simulation and System dynamic of a laminated industry	IJETAE V-7, I-10,OCT-17	ISSN2250-2459	3.2	International
11	Evaluation of Mechanical and Electrical Properties of Particulate Hybrid Laminar Composite Materials	International Journal for Research in Engineering Application & Management (IJREAM) <i>ISSN: 2454-9150</i> Vol-04, Issue-02, May 2018	ISSN:2454-9150 Vol-04, May 2018	5.9	International
12	Design and Fabrication of PLC Operated Pneumatic Sheet Metal Bending and Shearing Press	International Journal of Emerging Technology and Advanced Engineering Website: www.ijetae.com (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 8, Issue 8, August 2018)	(ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 8, Issue 8, August 2018)	5.0	International

5.8. Papers presented at National / International conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Inbound Supply Chain Management of an Iron Foundry: System Dynamic Approach	ISOM2013 University of Mauritius, Mauritius -	International	7
2	SCM-supplier-buyer mathematical model	AIMTDR2012proceedings ISBN978-93-82062-95-0	International	5
3	Supply Chain Management: Simulation & System Dynamics of an Iron Foundry	ICAM2012 IIT(BHU), Varanasi ISBN978-93-5087-8668	International	5
4	Simulation of an Iron Foundry	ISCI IIT, Bombay	International	3
5	System Modelling, analysis and simulation of an Iron Foundry	ICRIT2012 RIT, Kottayam. Kerala Supply Chain	International	3
6	Supply Chain Management: Methods and Practices in different organization-Mathematical Model and Experimental Analysis	ICASCMM-2011-IIT, Kharagpur paper presented-on supply chain	International	3
7	SCM: Article review	National Conference on sustainable and social comfort-strategizing design and manufacturing (NCOSAS2009) Jan19-20,2009,pp39,VNRVJIET	National	3
8	Mathematical Model &Experimental results	National Conference on Operation Management April28-29,2010, pp103-107 Vignan University, Guntor	National	3
9	Design and Development of Automated pneumatic press	International Conference on Advances in Materials and Manufacturing ICAMM-2016,DRDL,OU	International	5

10	Inbound, Internal SCM of an Iron foundry through simulation and system dynamic model	NCRTME-2016, JNTUH, pp21, april28-29,2016 (Accepted to publish in the journal also)	National	3
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5.9 Webinars/FDP online attended/Participated.

1	Online Webinar series-02-06-2020 to 06-06-2020. Every day 11 am onwards	RECENT REVOLUTIONS IN MECHANICAL ENGINEERING (RRIME-2020)"	JBIT/FDP
2	FDP attended	Webinar on python 1-6/VCE, wgl, IIT B/FDP	
3	Online Course	Webinar on machine learning	
4	WEBINAR	Development of Low-Cost Solar Air Collectors 22/6/20, FXEC, Tiruavelli NIT, Silchar	
5	organized by Dept. of Mechanical Engineering, S.A. Engineering College, Chennai.29mayeb	Webinar on "Insights to Industry 4.0" organized by Dept. of Mechanical Engineering, S.A. Engineering College, Chennai.29mayeb organized by Dept. of Mechanical Engineering, S.A. Engineering College, Chennai.29mayeb	
6	ISHRAE-Anurag university	ISHRAE-Anurag university-Indian society heating, refrigerating, and air conditioning 29,30/5/20 ISHRAE-Anurag university,29,30/5/20	
7	Online course on QMS	Completed online course on QMS/ISO9000:2015	Alison online course https://alison.com/topic/learn/82350/foundations-of-quality-management-system-learning-outcomes
9	WEBINAR	A National LEVEL Webinar on ADVANCED FINITE ELEMENT ANALYSIS- CONCEPTS & APPLICATION*	Mechanical Engineering Department, AISSMS College Of Engineering, Pune
10	FDP	e-certification	18-20June, ALIET
11	FDP (Advanced Data science, and its applications/Machine learning)	FDP –online organized by BVRIT	22-26 June (it is ongoing fdp,3-5pm)

- Elite NPTEL Online Certification for Mathematical Modelling of Manufacturing Process2020

6.Awards / Honours received:

Best paper award for the technical paper presented in IIT(BHU), Varanasi
Received

7. Motto:

- Continuous Improvement- Learn –progress-learn-progress- it is the beauty of life.
- Enjoy the Work.