

HARISH KURUVA

Harish Kuruva, MM18d406

Research Scholar (M.S. & Ph.D. dual degree program)
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Objective:

To give the best in the research field for overall benefit & growth of our state by facing the challenges and I will show my caliber and gain some experience to develop something which makes our lives easier and safer.

Academic Details:

<i>QUALIFICATION</i>	<i>YEAR</i>	<i>INSTITUTION</i>	<i>CGPA/PERCENTAGE</i>
Direct. Ph.D.	2019*	IIT Madras	8.33
<i>B. TECH</i>	<i>2014-2018</i>	<i>RGUKT, AP IIIT</i>	<i>8.94</i>
<i>PUC</i>	<i>2012-14</i>	<i>RGUKT, AP IIIT</i>	<i>8.25</i>
<i>SSC</i>	<i>2011-12</i>	<i>ZPHS, VADDEMANU</i>	<i>9.7</i>

Areas of Interest:

- Nano Science and technology
- Photo-Catalysis
- Thin films and coatings

Internship:

Summer internship:

May – June ' 17

Company: **Magma** Engineering Asia Pacific Pte Ltd

Project Title: **Modeling Brake Drum by the sand process with Casting Simulation Software**

- MAGMA-SOFT is a virtual simulation software, for this a 3D Solid model using Pro-E the Drum is designed and imported into MAGMA and Solidification was done to find the Thermal Feed Modulus in order to decide the Feeder and Runner size, next followed by Simulation the Filling and Solidification of molten metal in Sand process was done. After analyzing these results, it is concluded that to reduce defects in macro level as well as in micro-level it is mandatory to improve the quality of casting by Simulating the Piston with more Iterations.

- **Ms C. Usha Kiranmai**, Executive Academy, Magma Engineering Asia Pacific Pvt Ltd. is given the technical support and suggestions in the development of project.

Key projects:

Title: Generation of electricity from rotating wheels

January'16

- The aim is to produce electricity from rotating wheels by using DC-Generator. Presented it by using a bicycle on the occasion of First convocation of RGUKT, RK Valley, Kadapa.

Workshops:

- Participated in a 2 days' workshop on **“Nondestructive testing”** conducted by Department of Metallurgical and Material Science Engineering at RGUKT, RK Valley, Kadapa. along with Kalva Engineers PVT Limited, Hyderabad. **March'16**
- Participated in a 2 days' workshop on **“Failure analysis of materials”** conducted by Department of Metallurgical and Material Science Engineering at RGUKT, RK Valley, Kadapa.

Instrument skills:

March'19

- **Microstructural characterization:** Optical Microscope and X-ray Diffraction (XRD), BET-Surface area analysis, Particle size analyzer.
- **Material Testing:** Brinell hardness Tester, Rockwell Hardness Tester, Vickers Hardness Tester, Creep Tester, Impact Tester and Fatigue Tester.
- **Heat Treatment:** Muffle furnace, Electric Muffle Furnace and Microwave furnace.
- **Nondestructive testing:** liquid penetration testing, magnetic particle testing, eddy current testing, acoustic emission, radiography and ultrasonic testing.

Computer Proficiency:

- **Programming Languages:** C, Basic Mat lab
- **Operating Systems:** Windows & Linux family.
- **Software and Simulators:** MS office

Co-curricular activities:

- Worked as a **“Mess Inspection Committee”** member. **October'16**
- Worked as **Organizer** for **“Meta Quiz”** & **“Parishkar”** in ‘ Abhiyanth’, a **National level techno fest** that was held in our college. **March'17**

Achievements:

- Stood as **Mandal topper in SSC** board examination. **May'12**
- Secured **441st** rank in Andra Pradesh Residency Of junior college (**APRJC**) conducted by A.P Government. **May'12**

Declaration:

I, hereby declare that all the information above is authentic to the best of my knowledge.

Signature of candidate

Harish Kuruva