



RAJARAJESWARI COLLEGE OF ENGINEERING

(Under the auspices of the Moogambigai Charitable and Educational Trust)

(Affiliated to the Visvesvaraya Technological University, Belgaum)

(Recognized by the AICTE, New Delhi)

#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru-560074.

Phone: +91-80-28437124, +91-28437375, Fax: +91-80-2843 7373, www.rrce.org



DEPARTMENT OF MECHANICAL ENGINEERING

Date: 01/01/2020

Circular

It is hereby informed to all the staff members that the department is organizing 03 days SDP on the topic “**Material Science**” from **06th to 08th Jan 2020**. All are requested to attend the SDP and make better utilization of the recourse person and opportunity.

Coordinators

HoD - ME



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DEPARTMENT OF MECHANICAL ENGINEERING

3Days Staff Development Program on

“Material Science”

06th to 08th Jan 2020

Sl. No.	Topic	Resource Person	Date & Time
	Inauguration and Welcome 9:00 to 10:15 AM		
1	Introduction	Prof. Dr. Shankara Reddy RRCE.	06 th Jan 2020 10:30 to 12:30
2	Introduction to Crystal Structure		6 th Jan 2020 2:00 to 3:30
3	Alloys, Steels, Solidification & Hands on session		7 th Jan 2020 09:30 to 12:30
4	Heat Treatment, Ferrous and Non-Ferrous Alloys & Hands on session		7 th Jan 2020 2:00 to 3:30
5	Other Materials, Material Selection & Hands on session		8 th Jan 2020 9:30 to 12:30
	Valedictory and feedback session 3:00 to 3:30		



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Program Report

On day 1 Mr. Radhakrishna R K highlighted The foundation for understanding the structure and behavior of materials common in mechanical engineering. Material Science for all is the next step in the industry. Dr.R Shankara Reddy addressed the supply chain operation effectively as it reduces costs, while delivery products to the customers when they want it, how they want it.

On day 2 Mr. Radhakrishna R K Types of fatigue loading with examples, Mechanism of fatigue, fatigue properties, fatigue testing. Material Science trend, the is making Heat treatment: Annealing, normalizing, hardening and tempering of steel. for all companies. The use of sensors and cloud connectivity powered by the internet. is propelling the advancement in industries. Companies are improving safety, cost, stream line manufacturing with capabilities was addressed by Dr. C Ramesh

On day 3 To learn Composite materials - Definition, classification, types of matrix materials & reinforcements, Metal Matrix Composites (MMCs), Ceramic Matrix Composites (CMCs) and Polymer Matrix Composites (PMCs), Particulate-reinforced and fiber- reinforced composites, Fundamentals of production of composites, characterization of composites, constitutive relations of composites, determination of composite properties from component properties, hybrid composites. Applications of composite materials. Numerical on determining properties of composites