

DEPARTMENT OF PHYSICS

OPEN COURSE 2020-2021 (ODD)

June 1-5, 2021

Date: 5-06-2021

Department: Physics						
Title of the Open Course		Materials for Devices: An introduction to Engineering Startups				
Targeted Students from Brand	ches	4 th and 6 th SEM All branch engineering students, research scholars and research staffs				
Registration Fee		Rs.100				
No. of students attended		8				
Software/Hardware Tools use	ed	Google Meet				
Delivery Methods (e.g.: ppt p	resentation, chalk &	PPT Presentation and Youtube videos				
talk, simulation, videos, proje	ct, etc.)					
Assessment Methods (e.g.: Que project, report submission, etc.	uiz, test, mini- c.)	MCQ G-form written Quizzes conducted and evaluated for the sessions				
Open Course Chief	Name	Dr. C. Kavitha, Dr. Dhananjaya.N				
Coordinator Details (One Point Contact)	Mobile No.	+919008303399, +919036840280				
	Email ID	gkavitha21@bmsit.in, ndhananjayas@bmsit.in				
	Name	Dr. Daruka Prasad B				
Internal Resource Person Details (Please use additional rows for multiple resource persons)	Designation	Assistant Professor, Department of Physics, BMSIT&M				
	Mobile No.	+91-9535100437				
	Topics	Research Methods to do good research and 4th Generation Solar Cells				
	Name	Mrs. Ashwini K R				
	Designation	Assistant Professor, Department of Physics, BMSIT&M				
	Mobile No.	9844529596				
	Topics	Nanophosphors for WLED Applications				



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	Name	Dr. Jyoti C Abbar				
	Designation	Assistant Professor, Chemistry dept, BMSIT&M				
		+918123500885				
	Mobile Number					
	Names	Dr C.Kavitha, Dr.Dhananjaya.N, Dr.Lokesh, Dr.Basavaraj. R.BDept of Physics, BMSIT&M, Bangalore				
External Resource	Name	Dr. Naveen				
Person Details	Designation	Assistant Professor				
(Please use additional	Company/Organization	Presidency University, Bangalore				
	Mobile Number/email-id	9945508611				
	Торіс	ZnO nanomaterials for chemiresistive gas sensors				
	Name	Dr. Hareesh K				
	Designation	Assistant Professor				
	Company/Organization	School of applied sciences, Reva University				
	Mobile Number/email-id	9986996834				
	Торіс	Supercapacitors: Design, Fabrication and Application				
	Name	Dr.Udhaya Banu				
	Designation	Assistant Professor				
	Company/Organization	Centre for Research and Innovations. Adichunchanagiri University, Mandya				
	Mobile Number/email-id	8867492598				
	Торіс	Doped and composite materials for Hydrogen production and Lithium ion battery				
	Name	Dr. Prem Sai,				
	Designation	Research scholar				
	Company/Organization	IIT-Bombay				
	Mobile Number/email-id	premsaii@gmail.com				
	Name	Dr. Nagaraju G				
	Designation	Assistant Professor				



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	Company/Organization	SIT, Tumkur						
	Mobile Number/email-id	9620157141						
	Торіс	Synthesis of novel electrode material for lithium ion batteries						
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)	We have covered the following POs through the open coursePO5: Modern Tool UsagePO6:The Engineer and SocietyPO7:Environment and Sustainability							
Abstract (Brief Details of the open course with less than 250 words)	Smart Materials plays a vital role in making devices such as flexible electronic devices, Medical devices, Nano devices, sensors, energy storage devices and water purification devices etc., to make human life simple. This open course aims in familiarizing the participants with various device making materials, which can lead to engineers to setup startup company with the products made with these smart materials. Students of all engineering branches and aspirants who wish to take multi-disciplinary fields are most welcome to join this course.							
	Topic to be covered:							
	Commerical Graphene Products: Introduction and market status							
	➤ 4th Generation Solar Cell devices for the future Energy Needs							
	 Research Methods & Methodologies for doing good research Multifunctional Nanomaterials for Light Emitting Diode devices 							
	➤ Super conducting Device	ees						
	> Physics of Nano materia	als fundamentals to Device level						
	➤ Sensor Device materials							
	Liquid Crystal Display Devices							
	Super capacitor, Water filter and Medical Devices.							

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Add best(high resolution), Four photograph of the event:

Image: space	← Dr. (<complex-block></complex-block>					
Open Course Outcomes	CO-1	Able to understand advanced / smart materials synthesis					
Of "Material for devices: An introduction to Engineering	CO-2	Able to apply characterization techniques					
Startups"	CO-3 Able to fabricate the devices						
	CO-4	Able to analyze the materials/devices for industrials applications					

CO-PO Mapping for open course of "Materials for Devices: An introduction to Engineering Startups"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO 1	3	3	3	3									
CO 2					3								
CO 3			3	3		3							
CO 4						3	3						

Feedback from external expert:

1.mhowladar -startup expert told that our startup open course is a good choice

Feedback (critical) from students:

1. students told that the course is very new, interesting and informative.



Feedback from External participants (if any):

1. students told that the course is very new, interesting and informative.

Corrective methods/suggestions to consider while conducting open course next time (at least two points)

- 1. If it is offline, the interaction will be more effective.
- 2. The hands on training in the research lab would have been given more effectively to students

Sample course feedbackform

(Attach filled feedback form in bmp/png.jpg format, submitted by a participant)





Dr. C. Kavitha and Dr. Dhananjaya.N Signature of the (dept)Open-Coordinator

Dr. R. Lokesh Head of the Department