



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Report on Open course 2020-21

Preamble: Programme Outcomes (POs) are the accomplishments of graduates of a programme immediately after their graduation. POs are formulated broadly based on knowledge, skill and attitude. Knowledge and skills are imparted through the curriculum. In principle, the curriculum, pedagogy and assessment should support the attainment of this set of outcomes in order to make the programme a truly outcome-based one.

Curriculum mapping is a tool for checking the extent to which the outcomes are achieved. A curriculum mapping can be conceptualised as an analysis of the provision of opportunities for learning in a curriculum in relation to the curriculum's intended learning outcomes. By constructing a curriculum map, you will have an overview of how far and where in your programme each intended outcome is being addressed. We can then determine whether the learning opportunities provided are sufficient and in appropriate sequence so that adjustments can be made accordingly.

Value Added Programs / Open Courses: These are additional (over and above the curriculum) courses where the faculty/department can offer to bridge the gap found in the curriculum. These courses add value to the existing courses which enable the students acquire all the graduate attributes (POs) to become successful professionals. Therefore open course conduction for this semester as per Calendar of events was decided between 1.6.2021 to 5.06.2021.

I. Initiation:

There may be some gaps in the curriculum prescribed by the university. Hence, identifying the gaps based on Programme Outcomes (POs) /Graduate Attributes (GAs) of the UG/PG programme was taken up. The PAC (Programme Assessment Committee) of the department was asked to adopt the following procedure for identification of gaps and to decide the Value-Added Programmes / Open courses (VAPs):

- The departments (PAC) to discuss the additional learning requirements (Open Courses) for the students/representatives of each semester to bridge the gaps of curriculum.
- Programme Assessment Committee (PAC) to hold the meetings with the faculty members to decide or identify the required VAPs/Open Courses.
- PAC to identify the appropriate resource persons / experts to teach the value-added programmes/Open
- Approval of the *additional learning* requirements (Courses) by Internal Quality Assurance Cell (IQAC) / Principal to ensure quality is essential.

II. Implementation of Open-Course(Instruction given to the Departments):

• Depending on the nature of the course, the teaching methodology may be adopted.



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- Minimum of 25 hours should be engaged (with Maximum hands-on sessions).
- 50% of the experts / resource persons must be from Industry(external). Remaining 50% from the hosting department (Internal). Remuneration/TA for external experts may be paid as per the institutional norms. There shall be no remuneration for internal experts.
- There shall be minimum of 10 students and maximum of 60 students.
- Information about the course must be notified to all the students of the institute well in advance.
- The interested faculty members of the department/institute may be attended.

Note:

- Each department to identify and nominate the coordinator (Faculty member) for Open Courses.
- Open Course is made mandatory for all 2nd and 3rd year students of BMSIT&M and it's the responsibility of respective HODs to motivate the students to register for Open Course.
- Registration is through ONLINE only. Maximum permissible number of students for each course is 60.

Following procedure were asked to follow in conducting VAPs/Open Courses:

- Request letter / mail along with the course contents of the Open Course from the department to the expert/resource person shall reach at least two weeks prior to the event.
- Receiving the acceptance from the Expert / Resource Person with his requirements (Lab/ICT).
- HoDs to arrange the required lab facilities / Infrastructure.
- Share the contents of the course with the students well in advance.

III. Impact Analysis to be done:

- Quiz/Assignment/Test shall be conducted on 5th day (Saturday) of the Programme, and the results must be considered for PO attainment of the programme.
- Feedback from the students on the quality of the course delivery must be taken.

Note: All the supporting documents of each phase (Initiation, Implementation and Impact Analysis) must be maintained in the Department.

SCHEDULE of the Open-course Execution:

- Conduction of PAC meeting to identify the gaps (To decide the Courses): 24.5.2021
- Identification of Courses and preparation of Course Contents: 25.5.2021

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- Define the Course Outcomes (COs) and mapping to POs: 25.5.2021
- Identification of resource Persons (Industry): 27.05.2021
- Duration of Conduction: 1.6.2021 5.6.2021
- Assessment and Evaluation (Test/Quiz and Feedback): 5.6.2021
- Online Registration Opens on: 27.05.2021
- Registration Fee (decided by the Department): 29.5.2021

Note:

- Upon successful completion of the Course, the Certificates shall be issued to the students who have scored at least 60% of the marks.
- The excess amount remained after the event shall be utilised for the Departmental Tech-Fest.

No. of Courses to be offered by the departments were decided as follows:

Department	Intake (IV/VI)	No. of Open
-	Semester	Courses (at least)
Electronics & Communication Engineering	180	6
	180	
Computer Science & Engineering	180	9
	180	
Mechanical Engineering	60	
	60	2
Electronics & Telecommunication Engineering	60	
	60	2
Electrical & Electronics Engineering	60	2
	60	
Information Science & Engineering	120	5
	180	
Civil Engineering	60	2
	60	
Master of Computer Applications	60	2
	60	
Artificial Intelligence & Machine Learning		1
Physics	-	1
Chemistry	-	1
Mathematics	-	1



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List of Open Course offered and Registered by participants

SI no.	Dept	Open Course Title	Registrations	Coordinator name
1	AI&ML	Deep Learning with Python	60	Dr. Vishwa Kiran S
2	CHEM	Applies Design thinking and NANO Research	17	Dr. Jyoti Roy Choudhuri
3	CSE	Cyber Security and Block Chain Technology	60	Dr. Anjan Krishnamurthy
4	CSE	Build Instagram in 5 Days-Full Stack Web Development	60	Dr. Sunanda Dixit
5	CSE	C programming for placement	60	Prof. A. Mari Kirthima
6	CSE	Object Oriented Programming with Java for Industry	60	Prof. Anand R, Prof.Jagadish .P, Prof. Srivani
7	CSE	Machine Learning for Beginners	48	Dr. HemaMalini B H
8	CSE	Project and Finance Management	60	Prof. Rajesh N V
9	CSE	Python with Machine learning	60	Dr. HemaMalini B H
10	CSE	Full Web stack development	33	Dr. Sunanda Dixit
11	CSE	Cyber security: Challenges and Solutions	32	Dr. Anjan Krishnamurthy
12	CIV	Revit Architecture for beginners	60	Prof. Shobha, Prof. Vinod B R
13	CIV	Advanced Surveying using Total Station, E- Surveying Software and Drone	68	Dr. Chandrashekharappa Agasnalli, Dr. Anupkumar Ekbote
14	ECE	Fundamentals of IOT and Circuit Simulation	30	Dr. Dankan Gowda V
15	ECE	8085 Microprocessor Basics	4	Prof. Thyagaraj T
16	ECE	Design and analysis of Microwave and Electronic devices	9	Dr. Amit Kumar, Dr. Prachi Sharma
17	ECE	Machine Learning for Image Analysis	38	Dr. Vijayalakshmi G V, Prof. Chandraprabha R, Prof. Shilpa Hiremath
18	ECE	Applied Embedded system and IoT	39	Dr. Anil kumar D, Prof. Saneesh C T, Dr. Mala C S
19	ECE	Cryptocurrencies and the Technology Behind it!	62	Dr. M. C. Hanumantharaju
20	EEE	Application of Multilevel Inverters	11	Dr. Sanjay Lakshminarayanan

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21	EEE	MATLAB Applications In Electrical Engineering	52	Dr. Prashant A Athavale Prof. Vikram Chekuri Prof. Rajnikanth
22	ЕТЕ	Advanced Networking and IOT Applications	44	Prof. Saritha I G
23	ETE	MATLAB Programming on Engineering Applications	42	Prof. Thejaswini S
24	ISE	ANDROID Application Development	60	Dr. Geeta Patil, Prof. Shanthi D L
25	ISE	Programming for IT Career	60	Prof. Mahalakshmi S, Dr. Veena N, Prof. Ambika R Subhash
26	ISE	Internet of Things with Hands-on	44	Dr. Surekha K B, Dr. Narasimha Murthy M S, Dr. Shridhar Sanshi
27	ISE	Robotics with Artificial Intelligence	60	Dr. Sheela Kathavate, Dr. Rudresh Shirwaikar, Prof. Swetha, Prof. Vinutha
28	ISE	Data Science Using Python	68	Dr.Manjunath T N, Dr.Pushpa S K, Prof. Gireesh Babu, Prof. Chandrashekar
29	MATH	Essential Mathematics for Data Science and Machine Learning	59	Dr. Jojy Joseph Idicula, Dr. Pushpa B V
30	MECH	Introduction to Computational Fluid Dynamics	43	Dr. Avinash
31	MECH	Data Analysis using Excel	61	Dr. Keerthi Kumar N, Dr. Madhu M C
32	PHY	Materials for Devices: An idea to Engineering Start-Ups	8	Dr. C. Kavitha, Dr. N. Dhananjaya

We are happy to inform that the total participants registered for various courses were 1360, out of which 55 were external participants. The experts, both internal and external had put in great efforts in delivering topics that were in leading technologies. This initiative will enhance the student's employability and also creates a talent pool at the department and the college level.

Interestingly, for some courses, there is a high demand from the students to increase the course period and teach them the advanced topics in that courses. Having understood their eagerness and interest in learning the topics, an honest attempt was made to collect feedback from students so as to improvise on conduction, preparedness, offering the right courses, engaging the right resources persons, etc... in the times to come. This feedback will certainly shape the planning process of conducting open course nest time. The details of all the open courses are given form the next page.



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Department:	Artificial Intelligence and Mach	ine Learning							
Title of the O		Deep Learning with Python							
Targeted Stud	dents from Branches	CSE/ISE/EC/ETE/MCA							
Registration		Rs. 300							
No. of studen		51							
Software/Har	dware Tools used	Anaconda/IDLE							
Delivery Met	hods	ppt/programming/projects							
Assessment N	Methods (e.g.: Quiz, test,	Quiz							
mini- project	, report submission, etc.)								
Open Course	Name	Dr. Vishwa Kiran S							
Chief	Mobile No.	9845105680							
Coordinator	Email ID	vishwakiran@bmsit.in							
Details		-							
Internal	Name	Dr. Bharathi Malakreddy A							
Resource	Designation	Professor							
Person	Mobile Number	8660358175							
Details	Name	Dr. Vishwa Kiran S							
	Designation	Associate Professor							
	Mobile Number	9845105680							
	Name	Dr. Anupama H.S							
	Designation	Associate Professor							
	Mobile Number	9741043410							
External	Name	Mr. Amarthya							
Resource	Designation	Full Stack Web Developer							
Person	Company/Organization	Impavid Technologies							
Details	Mobile Number/email-id	8147485107							
	Name	Dr. Santi Natarajan							
	Designation	Honorary Professor							
	Company/Organization								
	Mobile Number/email-id	9739185291							
	Gaps: (Please indicate the gaps 09, PO10, PO12, PSO1, PSO2	in terms of POs/PSOs)							
Abstract The department of Artificial Intelligence and Machine Learning successfully conducted 5 days training on Deep learning with Python. Dr. Bharathi M A, delivered introductory session deep learning and it's applications. Followed by introductory session an external Speaker Mr. Amarthya delivered a hands on session for three full days covering major topics of deep learning which includes CNN, ANN, working of Artificial Neural networks, building ANN using Tensorflow and Keras, RNN, LSTM, building self-organizing maps. Participants were made to identify specifici animals from a dataset of 10000 pictures. One of the assignment was to predict stock market with a dataset. Later participants were to trained to build credit card fraud detection system. The									



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June 1-5, 2021 internal speakers Dr. Vishwa Kiran S and Dr. Anupama H S, covered basics of Python required for Deep Learning. Photograph of the event: open course: Deep Learning will X ... ☑ ☆ III\ 🗓 Bharathi M A is presenting Meeting details BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT • Bharathi M A 1BY19Al023 Janavi 12. INTRODUCTION 1by19ai025 pranavi.k 12 A What is Deep Learning? 1BY19Al026_Lahari Bale 💃 💸 1BY19Al057_ T... 🚷 Anupama H S Deep learning is a branch of machine learning that uses data, 1BY19AlO27 Tejas M A loads and loads of data, to teach computers how to do things 1BY19AI028 Madhumit... (N) 1BY19AI007 A only humans were capable of before. 1BY19Al029 MANOJ 12. For example, how do machines 1BY19AlO34 Mrinal 12 solve the problems of (N) 1BY19AI055 Su perception? 1BY19Al035 -Nagaabhi... 1BY19AlO38 Parag N 1BY18CS219_V... (N) 1BY19AI052_S. 1BY19AlO39 Pratiksha ... 🔏 1 cc Meeting details ^ Bharathi M A Raise hand Turn on captions is presenting へ *信* 智 (か) ENG 09-24 Type here to search 0 C (9) https://meet.google.com/eog-yygz-ftd **(** Meeting details A 1BY19AI059 DHANANJAY 🚷 1BY19AI026... 🚷 1BY19AI035 ... 🚷 1BY19AI044 ... 🚷 1BY19AI055 K Swetha EC... (Nay MSE... (Nay 18Y19A1039... (Nay MSE... M Deeksha N ETE-2019-23 JOSEPH KENANIAH G E... H M G K Swetha ECE-201 1BY19AI057.. (National States of the Control of t N 18Y19AI019 MONISHA SOMASHEK... Nivedita S ETE-2019-23 N 1BY19AI053 N 1BY19AI048 VINAY M S ECE-2018-2... Raise hand CC **†** Meeting details @ ^ 0



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Open Course	CO-1	Explain basic principles of Deep Learning and Python programming language
Outcomes	CO-2	Classify data by applying various clustering algorithms using python programming.
	CO-3	Identify and apply the appropriate deep learning technique for classification, pattern recognition, and optimization and decision problems.
	CO-4	Evaluate the performance of various Classification algorithms in deep learning using python programming.

CO-PO Mapping for open course of "Deep Learning with Python"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1					2							2	
CO2			2									2	
CO3	3								2	2		3	
CO4		3			2							2	

Feedback from external expert:

1. External Speaker apprecited the participants for being interactive

Feedback (critical) from students:

- 1. Python Course must be conducted before Deep learning
- 2. Some of the sessions handled by external speaker should have been clearer

Feedback from External participants (if any):

1. – NIL-

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

- 1. Pre -requisite to be covered first
- 2. Sufficient time must be given to participants to complete their assignment



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Sample course feedback form

Open Cou Thank you for parti We want to hear yo * Required	arse on cipating in our	event.				is.
Email *	n					
Did the Open Cour						
		2		4	5	
Poor		0				Excellent
How clear were cor	ncepts presented	d by the speak	ers?			
		2				
Not Clear	0	0	0	•	0	Very Clear
Overall how satisfic	ed were you wir	h this Open C	ourse? *			



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Department:	CHEMISTRY						
Title of the O		APPLIED DESIGN THINKING & NANO RESEARCH					
Targeted Stud	lents from Branches	ECE, ME					
Registration I		Rs 100					
No. of studen		15					
Software/Har	dware Tools used	Google meet					
	hods (e.g.: ppt presentation, chalk & on, videos, project, etc.)	Ppt presentation and videos					
Assessment N	Methods (e.g.: Quiz, test, mini- t submission, etc.)	Quiz and Assignment					
Open	Name	Dr. Jyoti Roy Choudhuri					
Course	Mobile No.	8296799794					
Chief Coordinator Details	Email ID	jyotiroy@bmsit.in					
Internal	Name	Dr. Ramakrishnappa T					
Resource	Designation	Associate Professor					
Person	Name	Dr. Bincy Rose Vergis					
Details	Designation	Assistant Professor					
(Please use	Name	Dr. K H. Sudheer Kumar					
additional	Designation	Assistant Professor					
rows for	Name	Mrs. Swetha G. A.					
multiple resource	Designation	Assistant Professor					
persons)	Name	Dr. Jyoti Roy Choudhuri					
persons)	Designation	Assistant Professor					
	Name	Dr. Jyothi C Abbar					
	Designation	Assistant Professor					
	Name	Dr. Sureshkumar K					
	Designation	Assistant Professor					
External	Name	Prof. Siddappa A Patil					
Resource	Designation	Professor					
Person Details	Company/Organization	Department of Nanocatalysis and Drug Molecules, CNMS, Jain University					
	Name	Dr. Srinivasa Budagumpi					
	Designation	Associate Professor					
	Company/Organization	Department of Organic					
		Chemistry, Jain University					
Curriculum Gaps:	Not Applicable.						



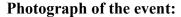
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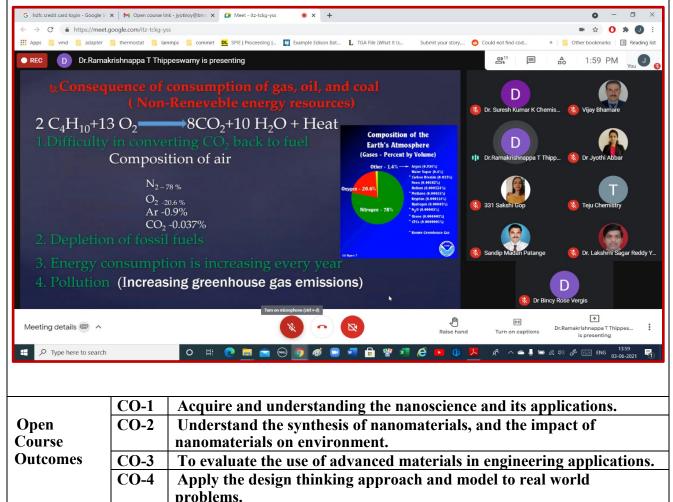
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Abstract

This course provides an introduction to Nanotechnology and Design Thinking. Nano research involves the materials having unique properties which make them suitable candidates for technological improvement and thus can be used in various applications. Nanomaterials are cornerstones of nanoscience and nanotechnology. The use of revolutionized techniques helps us to improve the methods of preparation of such materials with improved functionality. Nanomaterials have already shown a significant influence in the field of battery technology, in catalysis, in biomedical and various other technologies. The students of all engineering branches can find application of these materials in their field.





CO-PO Mapping for open course of "APPLIED DESIGN THINKING & NANO RESEARCH"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	3	2											
CO2		2	1										
CO3				2									
CO4			3	1		2		3					



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Feedback from external expert:

- 1. Well planned open course
- 2. Good research topics identified

Feedback (critical) from students:

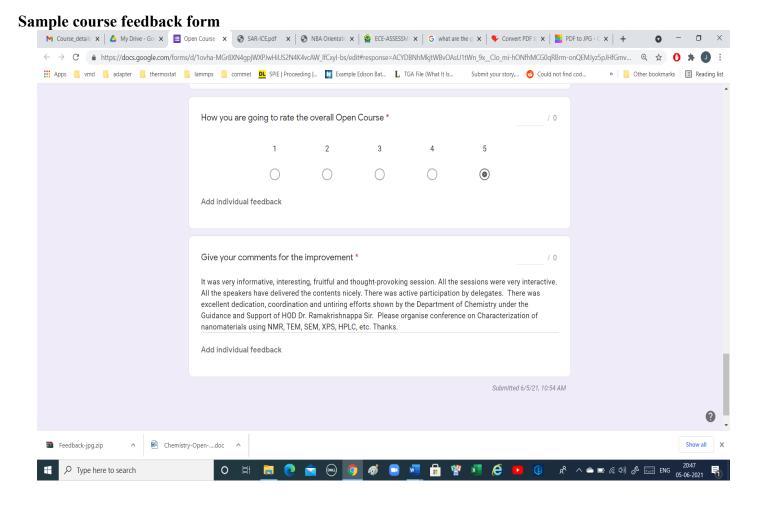
- 1. Very Helpful course
- 2. Can utilize in PBL

Feedback from External participants (if any):

- 1. Very helpful course
- 2. External resource person are very good

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

- 1. Live lab demo will be helpful
- 2. Include nanocomposite material application in battery





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Department: Computer S	cience and Engineering.					
Title of the Open Course		Cyber Security & Block Chain				
Targeted Students from	Branches	All				
Registration Fee		200				
No. of students attended		60				
Software/Hardware Too	ls used	Software				
Delivery Methods (e.g.:	ppt presentation, chalk	PPT Presentation.				
&talk, simulation, video						
Assessment Methods (e.	g.: Quiz, test, mini-	Quizzes				
Project, report submission						
Open Course Chief	Name	Dr. Anjan Krishnamurthy.				
Coordinator Details	Mobile No.	9731317861				
(One Point Contact)	Email ID	anjank-cse@bmsit.in				
Internal Resource	Name	Dr. Arun Kumar B R				
Person Details	Designation	Professor				
(Please use	Mobile Number	9886008210				
additional	Name	Dr. Anjan Krishnamurthy.				
rows for	Designation	Associate Professor and PG				
multiple		Coordinator				
resource	Mobile Number	9731317861				
persons)	Name	Prof. Durga Devi G Y				
	Designation	Assistant Professor				
	Mobile Number	9480613001				
	Name	Prof. Shivakumara T				
	Designation	Assistant Professor				
	Mobile Number	9060900986				
External	Name	Ms. Nalini Kanan				
Resource	Designation	Senior Technical Architect				
Person Details	Company/Organization	IBM ISL				
(Please use additional	Mobile Number/email-id					
	Name	Mr. Parameswaran Selvam				
	Designation	Blockchain Technology Specialist				
	Company/Organization					
	Mobile Number/email-id					
Curriculum Gaps:		Gaps was observed in PO1, PO3 as				
(Please indicate the		ne PAC meeting on 21st May 2021.				
gaps in terms of	Curricular Gaps were seen	in PO6-12 in the UG program.				
POs/PSOs)						
Abstract (Brief Details		portant role in the field of information				
of the open course with	information have become one of the					
less than 250 words)	biggest challenges in the present day. Whenever we think about					
	the cyber security the first thing that comes to our mind is 'cyber crimes' which are increasing immensely day by day. Various					
	offines which are mereas	mg minerisery day by day. Various				



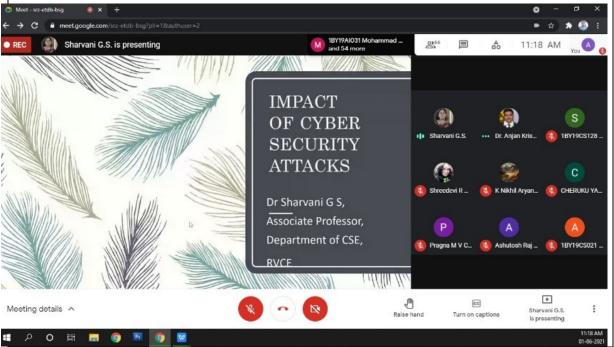
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Governments and companies are taking many measures in order to prevent these cybercrimes. Besides various measures cyber security is still a very big concern to many. This course mainly focuses on challenges faced by cyber security on the latest technologies. It also focuses on latest about the cyber security techniques, ethics and the trends changing the face of cyber security. Block chain is a technology that is developed using a combination of various techniques such as mathematics, algorithms, cryptography, economic models, and so on. Block chain is a public ledger of all cryptocurrency transactions that are digitized and decentralized. All the transactions cryptocurrencies are stored in chronological order to help users in tracking the transactions without maintaining any central record of the transactions. This course will discuss the security and privacy of the block chain along with their impact with regards to different trends and applications. The chapter is intended to discuss key security attacks and the enhancements that will help develop a better block chain systems.

Photograph of the event:

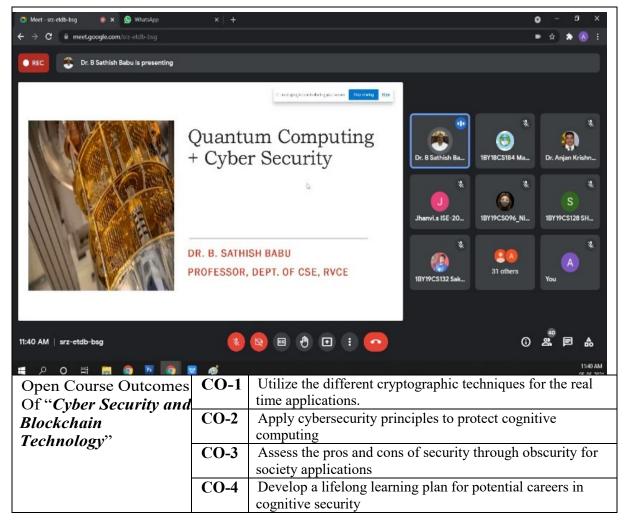




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CO-UG PO Mapping for open course of "Cyber Security and Blockchain Technology"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1					X	X		X				X	
CO2				X	X	X		X				X	
CO3			X			X		X				X	
CO4				X	X	X		X	X			X	

CO-PG PO Mapping for open course of "Cyber Security and Blockchain Technology"

COs	PO1	PO2	PO3	PO4	PO5	PO6
CO1:Utilize the different cognitive cryptographic techniques for the real life applications	X	X				
CO2:Apply cybersecurity principles to protect			X			



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digital infrastructures			
CO3: Assess the pros and cons of security through obscurity for society applications		X	
CO4:Develop a lifelong learning plan for potential careers in cyber security			X

Feedback from external expert:

- 1. The session are interactive with good spontaneous response.
- 2. Appreciated the initiatives to bridge the gap between industry and academia.

Feedback (critical) from students:

- 1. Students have appreciated the session and have given very good rating.
- 2. Students have expressed the technological coverage was good with practical hands on experience.

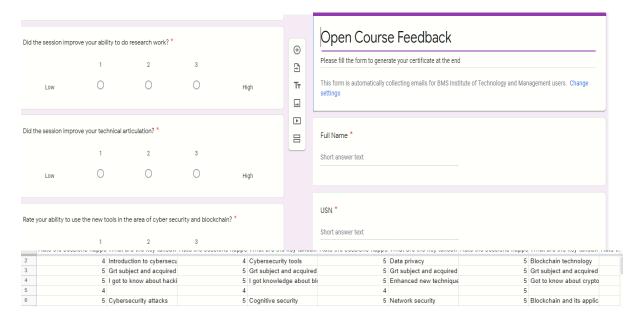
Feedback from External participants (if any):

1. Nil

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

- 1. To start the process at least 15 days prior to the commencement of the open course.
- 2. To have single source format where the data can be upload in a time bound manner.

Sample course feedback form





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Department: Computer Scien	nce and Engg					
Title of the Open Course		Build Instagram in 5 Days! And Web Full stack Development				
Targeted Students from Br	anches	ECE,EEE,CSE,ISE				
Registration Fee		Rs.250 and Rs.350 for Outside BMSIT				
No. of students attended		73				
Software/Hardware Tools	used	Atom Text Editor, VS Code, Python				
Delivery Methods (e.g.: pp	t presentation,	PPT Presentation, chalk and talk,				
chalk &	,	Project				
talk, simulation, videos, pr	oject, etc.)					
Assessment Methods (e.g.:		Daily Assignments				
project, report submission,	etc.)					
Open Course Chief	Name	Dr. Sunanda Dixit				
Coordinator Details	Mobile No.	+91 83105 29894				
(One Point Contact)	Email ID	sunandadixit_cse@bmsit.in				
Internal Resource	Name	Dr. Sunanda Dixit				
Person Details (Please	Designation	Associate Professor				
use additional		+91 83105 29894				
rows for multiple	Mobile Number					
resource persons)	Name	Dr. Dhanalakshmi B K				
	Designation	Assistant Professor				
	M 1 1 N 1	9632744662				
7 17	Mobile Number	1.0.1				
External Resource	Name	Ayush Seth				
Person Details	Designation	Frontend Developer				
(Please use additional	Company/Organi zation	Styx				
	Mobile	9793855446, littlebitbot@gmail.com				
	Number/email-id					
	Name	Ravi Kumar Singh				
	Designation	Full Stack Developer				
	Company/Organi zation	Styx				
	Mobile	8335978244,				
	Number/email-id	ravikrsngh1999@gmail.com				
Curriculum Gaps:		development underlying web				
(Please indicate the	principles is show	<u>.</u>				
gaps in terms of		nd development and Back end				
POs/PSOs)		ether with Django are missing.				
ĺ		Develop Android application by setting				
	up Android deve	lopment environment.				

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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Abstract

In the digital realm, a website is an essential element for businesses, irrespective of their size and type. It helps them increase their brand presence via the Internet breaking the geographical boundaries. A professional website design itself can be used to attain various marketing strategies in order to help your business surge. Thoughtfully created website designs have a far outspread reach than any other form of marketing tools. A professional web design arouses the curiosity of the visitors to dive in further. Web design is about deciding on a lot of elements such as the layout, graphics, colors, fonts, structure, content, text styles, interactive features, imagery, interface, standardized code, etc. It involves a wide range of skills and disciplines

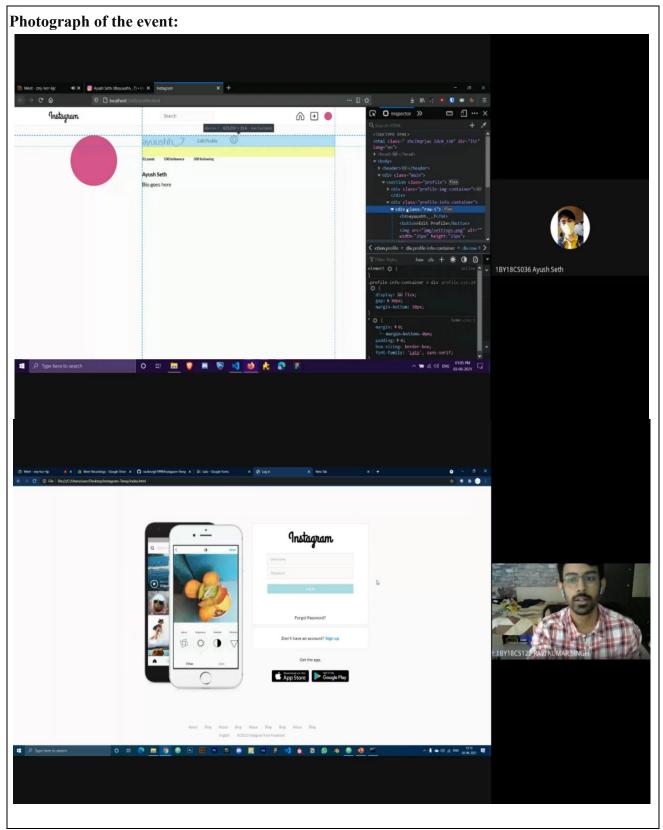
This 5-days course will mainly focus on forming basics of web development and deployment, which will cover all aspects frontend, backend and deployment to the server. The main focus of the course is the new technology used in industries called Django which is a framework for web development using python. Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel.

One of the session is on Mobile application development. It is the process to making software for smartphones and digital assistants, most commonly for Android and iOS. The software can be preinstalled on the device, downloaded from a mobile app store or accessed through a mobile web browser. Design and Develop Android application by setting up Android development environment.



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June 1-5, 2021

Open Course Outcomes	CO-1	Illustrate the Semantic Structure of HTML and CSS
Of "Open course Title"	CO-2	Compose forms and Tables using HTML and CSS
	CO-3	Building Backend Using Django
	CO-4	Develop Mobile App Development

CO-PO Manning for open course of "Building Instagram in 5 Days!"

	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	X			X		X			X				
CO2	Х			X							X	Х	
CO3	Х			Х		х			х		х		
CO4	X			Х	X				X		X		

Feedback from external expert:

- 1. Conducting Open Course is useful to all branches is a very good initiative. Its good to deliver lectures along with hands-on.
- 2. Participants are very curious and showing lot of interest. It's a good experience to share the knowledge.

Feedback (critical) from students:

- 1. It was wonderful sessions. Both the resource persons Mr.Ayush and Mr.Ravi did a great job in teaching us. They did excellent work in making us understand concepts, clearing all of our doubts. They presenting was so good that even we were ready to ready extra sessions beyond time limit. It's been very useful effective sessions. Thank you.
- 2. These sessions were very interesting. The resource persons dedication level & knowledge about the topic is incredible. Thank you so much.

Feedback from External participants (if any):

- 1. Amazingly informative...
- 2. It's a useful session where we don't have the background of Web development could able to learn from scratch.

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

1. More time to be allotted than it was allotted this time.

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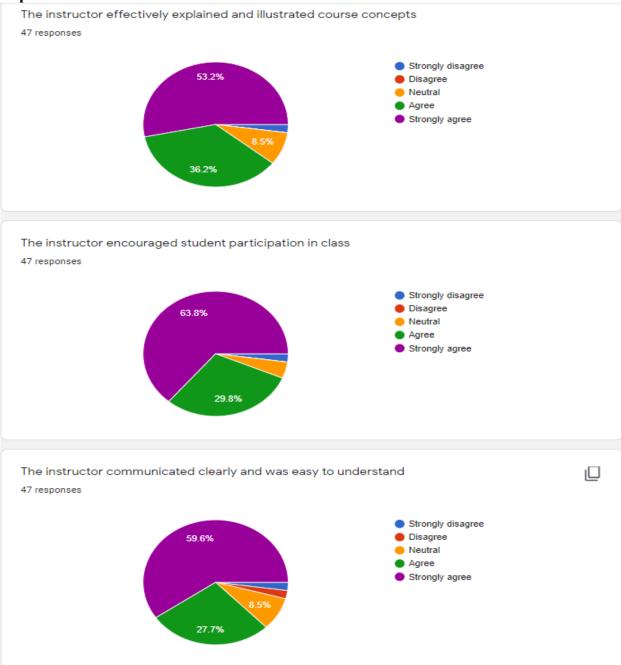
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Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Sample course feedback form





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Comp	outer Science and Engi	neering				
Title of the Open Co		C Programming for Placements				
Targeted Students fr	om Branches	CSE, ISE, ECE, ETE, EEE				
Registration Fee		Rs. 200				
No. of students atten	ded	49				
Software/Hardware	Tools used	VMware, Ubuntu				
Delivery Methods (e	e.g.: ppt presentation,	PPT, hands on by sharing programs on				
chalk &		Google Drive. Demo				
talk, simulation, vide	eos, project, etc.)					
	s (e.g.: Quiz, test, mini-	Quiz, C Program Execution				
project, report submi	ission, etc.)					
Open Course Chief		Ms. Vidya R Pai				
Coordinator	Mobile No.	7019993919				
Details	Email ID	rvidyapai@bmsit.in				
Internal	Name	Dr. Archana				
Resource	Designation	Assiatant Professor				
Person Details	Mobile Number	9663299433				
External	Name	Mr. Mohammed Mukhtar Ahmed				
Resource	Designation	Corporate Trainer				
Person	Company/Organizati	Corporate Trainer				
Details	on					
	Mobile	-				
	Number/email-id					
	Name	Ms. Divyatha Prabhu and Mr. Mayur				
	Designation	Founder and Co-Founder				
	Company/Organizati	V-DYA				
	on	0217400070				
	Mobile	8317480860				
	Number/email-id	M. A. de de Charalles				
	Name	Ms. Arundhati Shanbhag				
	Designation Company/Organizati	Data Scientist AI Enterprise Software Pvt. Ltd				
	Company/Organizati	AT Enterprise Software rvt. Ltd				
	on Mobile	89515 36800, arus2396@gmail.com				
	Number/email-id	07313 30000, at us2370@gman.com				
Curriculum	PO5,P06,PO7,PO8	<u> </u>				
Gaps:	1 00,1 00,1 07,1 00					
Cupo.						
	I					

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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Abstract

C is a Middle-Level Language. The middle-level languages are somewhere between the Low-level machine understandable assembly languages and High-Level user friendly languages. Being a middle-level language, C reduces the gap between the low-level and high-level languages. It can be used for writing operating systems as well as doing application level programming.

Helps to understand the fundamentals of Computer Theories. Most of the theories related to computers like Computer Networks, Compiler Designing, Computer Architecture and Operating Systems are based on C programming language and requires a good knowledge of C programming if you are working on them. In the modern high level languages, the machine level details are hidden from the user, so in order to work with CPU cache, memory, network adapters, learning C programming is a must.

Fewer Libraries. C programming language has fewer libraries in comparison with other high-level languages. So, learning C programming also clears programming concepts to a great extent as you have to write lot of things from scratch. You will not be dependent on the programming language entirely for implementing some basic operations and implementing them on your own will also help you to build your analytical skills.

C is very fast in terms of execution time. Programs written and compiled in C executes much faster than compared to any other programming language. C programming language is very fast in terms of execution as it does not have any additional processing overheads such as garbage collection or preventing memory leaks etc. The programmer must take care of these things on his own.

Embedded Programming. C is extensively used in Embedded Programming. Embedded Programming is also referred to as microcontroller programming, where C program is used to control microcontrollers. Microcontrollers and embedded programming is widely used in auto-motives, Robotics, Hardware etc..

If a person learns C programming first, it will help him to learn any modern programming language as well. As learning C help to understand a lot of underlying architecture of operating system. Like, pointers, working with memory locations etc. auto-motives, Robotics, hardware etc..

This course is designed to benefit students not only in project building in above specified domains, but also to cater the placement needs.

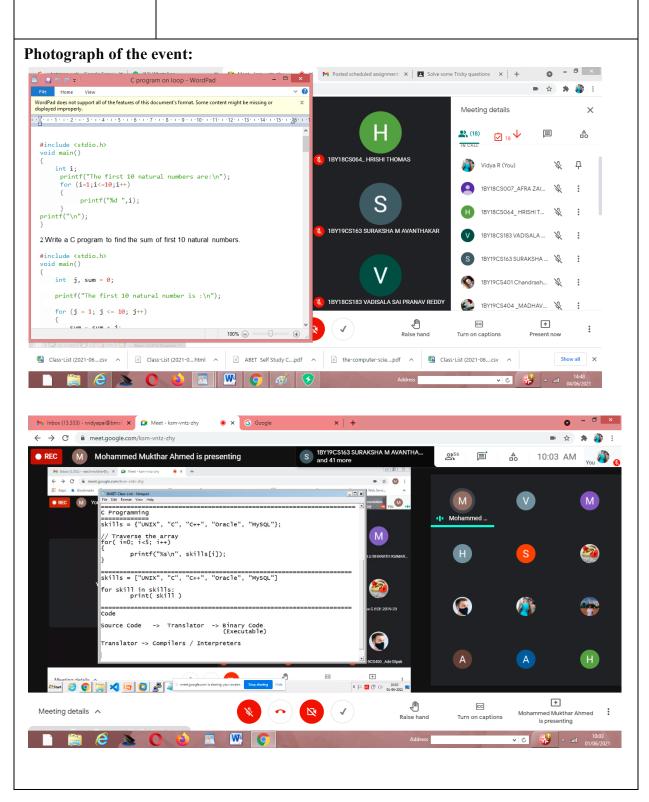


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The external resource person is a company trainer with a decade of experience in training software engineers and researchers.



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Open Course	CO-1	Illustrate the fundamental and C programming concepts
Outcomes	CO-2	Demonstrate the use of programming constructs arrays and
Of " C		structures for an inclusive solution to given problem,
Programming for	CO-3	Organize the given problem by modularizing in to functions
Placements"		and structures.
	CO-4	Analyze the program flow of given problem and present
		programming solution to with efficiency.
	CO-5	Applying problem solving strategies for projects concerning
		Engineering and Societal domains

CO-PO Mapping for open course of "C Programming for Placements"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	2												
CO2	2				2								
CO3		2	2		2								
CO4			2	2	2								
CO5						2	2	2					

Feedback from external expert:

- 1. The session was a very interesting experience for me. It was a good event and helped many students.
- 2. I enjoyed sharing my experience while conducting the session and interacting with the students. It was well organized by the faculty.

Feedback (critical) from students:

- 1. It was wonderful sessions. The resource person Mr. Mohammed Mukhtar Ahmed did a great job in teaching us. He did an excellent work in making us understand concepts C, clearing all of our doubts.
- 2. These sessions were very interesting. The resource persons Mrs. Divyatha Prabhu and Mr Mayur enlightened us regarding placements and how to prepare for placements. Thank you so much.



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OPEN COURSE 2020-2021 (EVEN SEM)

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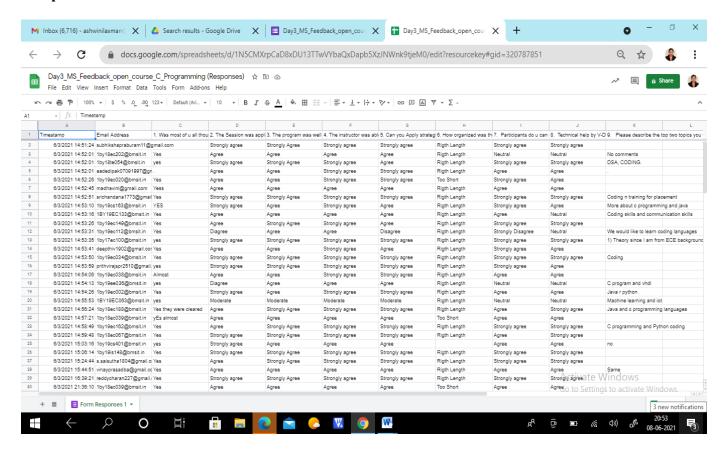
Feedback from External participants (if any):

1. NIL

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

1. More time to be allotted on placement activities.

Sample course feedback form





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Computer	· Science and Engineering				
Title of the Open Cours		Object Oriented Programming			
_		with JAVA for Industry			
Targeted Students from	Branches	CSE,ISE,ECE,EEE			
Registration Fee		Rs.200/-			
No. of students attended	d	50			
Software/Hardware Too	ols used	JAVA Compiler/Eclipse IDE			
Delivery Methods (e.g.:	: ppt presentation, chalk &	PowerPoint presentation,			
talk, simulation, videos	, project, etc.)	videos, project.			
Assessment Methods (e	e.g.: Quiz, test, mini-	Quiz			
project, report submissi	on, etc.)				
Open Course Chief	Name	Prof.Anand R			
Coordinator Details	Mobile No.	9060687975			
(One Point Contact)	Email ID	anandor@bmsit.in			
Internal Resource	Name	Prof.Srivani			
Person Details	Designation	Assistant Professor			
(Please use		8904021886			
additional	Mobile Number				
rows for	Name	Prof.Shivakumar T			
multiple	Designation	Assistant Professor			
resource		9060900986			
persons)	Mobile Number				
External	Name	Dr Niranjan A			
Resource	Designation	Professor			
Person Details	Company/Organization	Malla Reddy University,			
(Please use additional		Hyderabad			
	Mobile Number/email-id	8123033210			
	Name	Prof.Basavaraju S			
	Designation	Assistant Professor			
	Company/Organization	Brindavan College of			
		Engineering,Bangalore			
	Mobile Number/email-id	9591426287			
	Name	Prof.Ramesh T			
	Designation	Assistant Professor			
	Company/Organization	Presidency			
		University,Bangalore-64			
	Mobile Number/email-id	9886152115			
Curriculum Gaps:	PO5, PO6, PO11, PO12				
(Please indicate the					
gaps in terms of					
POs/PSOs)					



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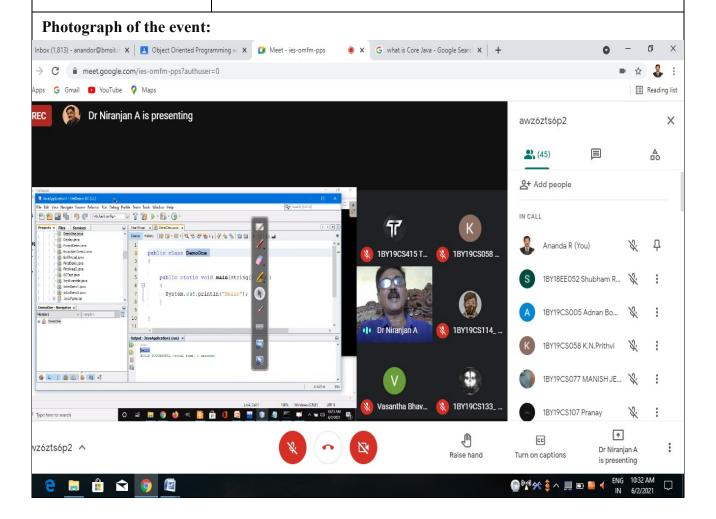
OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Abstract

Java is the one of the most popular programming languages in the world today. It works on any platform, and is the core language used in developing Android apps. It's a great first language for any aspiring programmer, so whether you want to program Android apps, web apps, or simply learn the foundational skills.

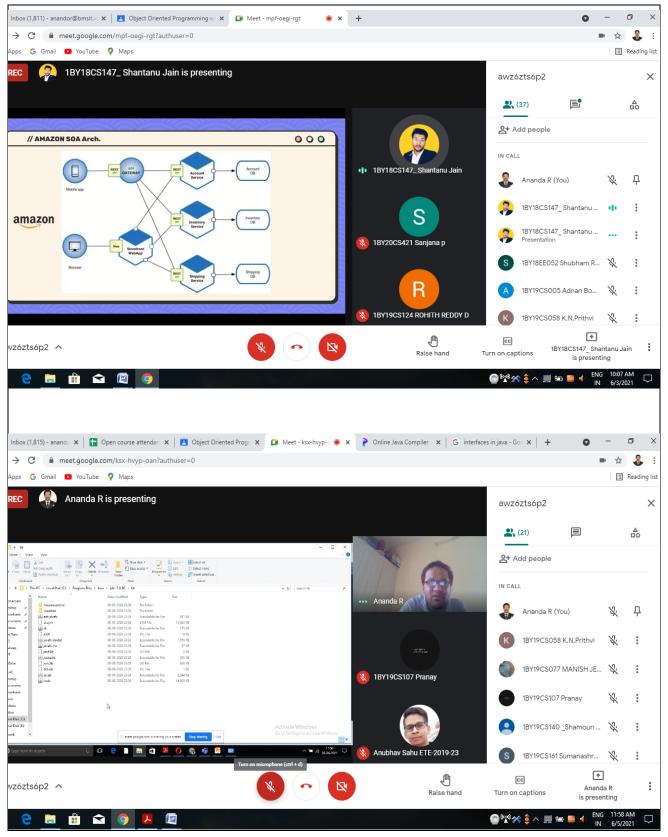
This course will introduce you to some of the most powerful programming concepts in Java, including: objects, inheritance and collections. You will learn how to use these object-oriented programming concepts in code examples, discover how these concepts are used in applications that require user input, and understand the benefits of mastering these concepts in Java. By the end of the course, you will understand how and when to apply foundational Java concepts, and will gain a deeper understanding of the tools and logic that professional Java developers use every day.





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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

	CO1	Explain the object-oriented concepts and JAVA.
Open Course Outcomes	CO2	Apply the object oriented concepts and techniques for the development of the user application.
"Object Oriented Programming with JAVA	CO3	Develop computer programs to solve real world problems in Java.
for Industry"	CO4	Interpret the need for advanced Java concepts like enumerations and collections in developing modular and efficient programs.
	CO5	Enable project teams to maximise value of software delivered, and ensure customer satisfaction.

CO-PO Mapping for open course of "Object Oriented Programming with JAVA for Industry"

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
										X			
1										X			
				X						X	X		
					X					X	X		
					X					X			
	PO1	PO1 PO2	PO1 PO2 PO3	PO1 PO2 PO3 PO4		X	X	X X	X X	X X	X X X X	X X X X X X	X X X X X X

Feedback from external expert:

- 1.Good effort were put in to bring about a change in the students towards the learning aspects of the language.
- 2.It was informative and helpful as we gained a lot of knowledge about JAVA and its applications.

Feedback (critical) from students:

- 1.Students asked to include more practical sessions on basics.
- 2.It could have been better but good effort from the teachers.



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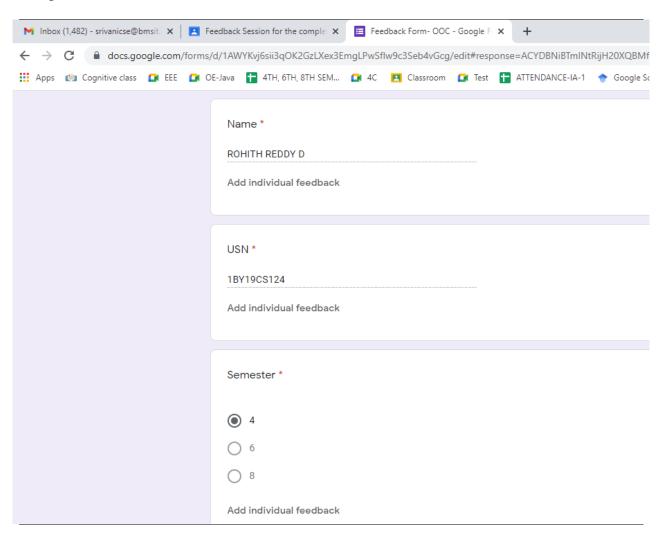
June 1-5, 2021

Feedback from External participants (if any):NIL

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

- 1. Sample mini projects.
- 2.Different IDE used in Industry and its comparison.

Sample course feedback form





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OPEN COURSE 2020-2021 (EVEN SEM)

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Apps 🚇 Cognitive class 🔼 EEE 🚺 O	E-Java 🚹 4TH, 6TH, 8TH SEM	△ 4C	Classroom	Test	ATTENDANCE-IA-1	♦ Google So
	Neutral Disagree Strongly disagree Add individual feedback					
	Did you find this course	e more	useful ? Rate it	*		
	1		2	3	4	5
	0		\circ	\circ	•	\circ
	Add individual feedback					
	Overall Remarks * Excellent idea					
	Add individual feedback					



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Compute	er Science and Engineerin	ng			
Title of the Open Course		Machine Learning For Beginners			
Targeted Students from	Branches	CSE, ISE, ECE, ETE, AI&ML, EEE			
Registration Fee		Rs. 200			
No. of students attended		60 +60			
Software/Hardware Too	ls used	Google Colab, Python IDLE, Jupyter			
		Notebook			
Delivery Methods (e.g.:	ppt presentation, chalk &	PPT, hands on by sharing programs on			
talk, simulation, videos,	project, etc.)	Google Drive. and Links to datasets.			
Assessment Methods (e.	g.: Quiz, test, mini-	Quiz			
project, report submission	on, etc.)				
Open Course Chief	Name	Dr. HemaMalini B H			
Coordinator Details	Mobile No.	7204844628			
(One Point	Email ID	bhhemaraj@bmsit.in			
Contact)	27	P H W II : P H			
Internal Resource	Name	Dr. HemaMalini B H			
Person Details	Designation	Associate Professor			
(Please use additional	Mobile Number	7204844628			
rows for	Name	Mr. Allen Benny			
multiple	Designation	BMSIT Student, Free lancer, Web			
resource	N 1 '1 N 1	Developer Control of the Control of			
persons)	Mobile Number	72908 37260, allen.officially@gmail.com			
persons)	Name	Mr. Aritra Paul,			
	Designation	aritra1.paul@gmail.com BMSIT Student, Free lancer, Data			
	Designation	Scientist			
	Mobile Number	89682 93922, Aritra1.paul@gmail.com			
	Name	Mr. Sandeep Kumar			
	Designation	BMSIT Student, Free lancer, Web			
	Designation	Developer Developer			
	Mobile Number	91355 66028, sandy2864.py@gmail.com			
External	Name	Mr. Manoj Kumar			
Resource	Designation	Data Scientist			
Person Details	Company/Organization	Ex Walmart, Ex-Rolls Royce			
	Mobile Number/email-id	98449 33228,			
		manhojkummar@gmail.com			
	Name	Mr. Bhargav Sagiraju			
	Designation	Data Scientist,			
	Company /Organization	Money View			
	Mobile Number/email-id	88610 48971,			
		bhargavsagiraju@gmail.com			



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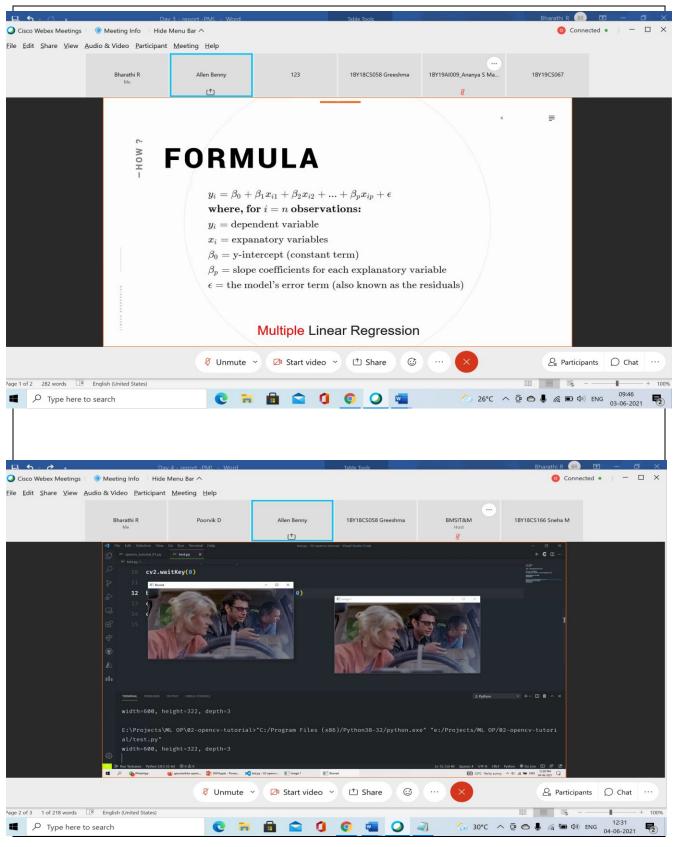
OPEN COURSE 2020-2021 (EVEN SEM)

N-64		OPENC	JUKSE 202	20-2021 (EVEN	SEMI)
ಸದ್ಯಶಂ			June 1-5, 2	021	
		Name		Ms. Arundhati S	Shanbhag
		Designation		Data Scientist	
		Company/Orga	nization	AI Enterprise S	oftware Pvt. Ltd
		Mobile Numbe		89515 36800, ar	us2396@gmail.com
Curriculum Ga	aps:	PO6-PO12 not met			
(Please indicat	-	This open course helps to bridge this gaps			
gaps in terms o		•	•	0 01	
POs/PSOs)					
Abstract		learning using Python, an approachable and well-known programming language. The sessions talk about supervised vs. unsupervised learning, look into how statistical modeling relates to machine learning, and do a comparison of each. The sessions also introduced Open CV, use of Open CV in Machine Learning, training and testing the models, the recommendation systems, Ethical hacking, the use of ML in Walmart, Rolls Royce etc.			
Photograph of Webex meeting changed: ML fc sco Webex Meetings M Mc Edit Share View Audio & Bharathi R	Cisco Web	ex Meetinas - Meetina X P	withon With ML/opencourse = 18Y18CS179, TEJASHWINL	G X BMSIT 1BY19A1009_Ananya S Ma	Connected • · · · · · · · · · · · · · · · · · ·
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simple_linear_regression.ipyn				Comment 😃 Share 🌣 👔	A • Adarsh
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Visualising the Training set results			Salary_Data.csv >	1 to 30 of 30 entries Filter	AL Aditi Lal
<pre>1 plt.scatter(X_train, y_train, color = 'red') 2 plt.plot(X_train, regressor.predict(X_train), color = 3 plt.title('salary vs Experience (Training set)')</pre>			1.1 1.3 1.5	93933.00 46205.00 37731.00	AS O Akshat Sharma
4 plt.xlabel('Years 5 plt.ylabel('Salar	of Experience')		2.0 2.2 2.9	43525.00 39891.00 56642.00	AG • Amogh Raj Guttal
6 plt.show()			3.0	60150.00 54445.00	AR Amrutha R



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Open Course Outcomes	CO1	Discuss the basic concepts of machine learning.					
Of "Machine Learning	CO2	Illustrate concept learning, ID3, ANN, Bayes classifier, k nearest					
For Beginners"		neighbor,					
	CO3	CO3 Analyze the given data using Machine learning techniques.					
	CO4	Devise a solution for complex problems using Machine learning techniques.					
	CO5	Develop a code using any suitable language for a real time application					

CO-PO Mapping for open course of "Machine Learning For Beginners"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	3												
CO2		3											
CO3			3										
CO4				3									
CO5					3			3	3				3

Feedback from external expert:

- 1. It was a great experience and we learned a lot too along the way, everything was beautifully organised and the whole process was very systematic.
- 2. It was a great experience the faculty members were very supportive and conducted the sessions in a systematic manner.
- 3. It was a really good experience, throughout the session Bharathi ma'am and Hema Malini ma'am both were very supportive.

Feedback (critical) from students: NIL

Feedback from External participants (if any):

1. NIL

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



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OPEN COURSE 2020-2021 (EVEN SEM)

Department: COMPUT	ER SCIENCE AND ENGI	NEERING					
Title of the Open Cours	e	PROJECT AND FINANCE					
_		MANAGEMENT					
Targeted Students from	Branches	41					
Registration Fee		200					
No. of students attended	1	36					
Software/Hardware Too	ols used	MS Project					
Delivery Methods (e.g.:	ppt presentation, chalk	PPT PRESENTATION					
& talk, simulation, vide							
Assessment Methods (e	.g.: Quiz, test, mini-	REPORT SUBMISSION					
project, report submissi							
Open Course Chief	Name	Prof Rajesh N V					
Coordinator Details	Mobile No.	8073237035					
(One Point Contact)	Email ID	rajesh@bmsit.in					
Internal Resource	Name	Prof. Ambika G N					
Person Details	Designation	Assistant Professor, CSE					
(Please use	Mobile Number	9902323632					
additional	Name	Prof Chethana C					
rows for	Designation	Assistant Professor, CSE					
multiple	Mobile Number	9880745545					
resource	Name	Prof Rajesh N V					
persons)	Designation	Assistant Professor, CSE					
	Mobile Number	8073237035					
External	Name	Mrs. Shwetha					
Resource	Designation	Senior Software Engineer					
Person Details	Company/Organization	HPE, Bangalore					
(Please use additional	Mobile Number/email-id	9535208300					
	Name	Dr. Pradeep					
	Designation	Professor and Placement officer					
	Company/Organization	SVIT					
	Mobile Number/email-id	9900100486					
	Name	Mr. Rajesh					
	Designation	Dept of Instrumentation and					
		Engineering					
	Company/Organization	MSRIT					
	Mobile Number/email-id	9535066843					
	Name	Mrs. Swathi					
	Designation	Senior Analyst					
	Company/Organization	TCS					
	Mobile Number/email-id	8553491936					



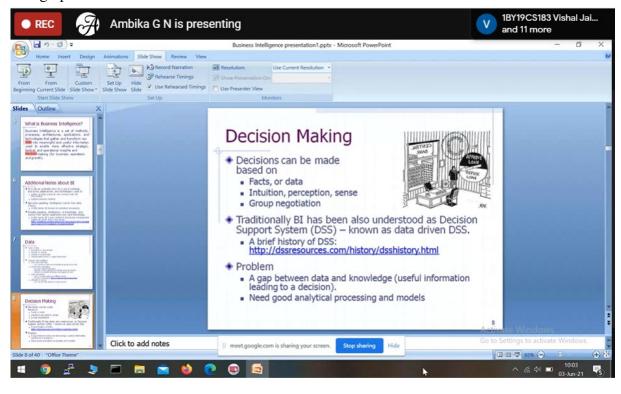
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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)	Gap found in PO-11 in the curriculum hence the project management and finance course will fill the gap
Abstract	Project Management and Finance (PMF) is an iterative approach to planning and guiding project processes. The main benefit of Project Management is its ability to respond to issues as they arise throughout the course of the project. Making a necessary change to a project at the right time can save resources and, ultimately, help deliver a successful project on time and within budget. Project methodology breaks down projects into small pieces that are completed in work sessions that run from the design phase to testing and quality assurance (QA). These sessions are often called sprints, the term for iteration used in one specific and popular agile development method known as Scrum.

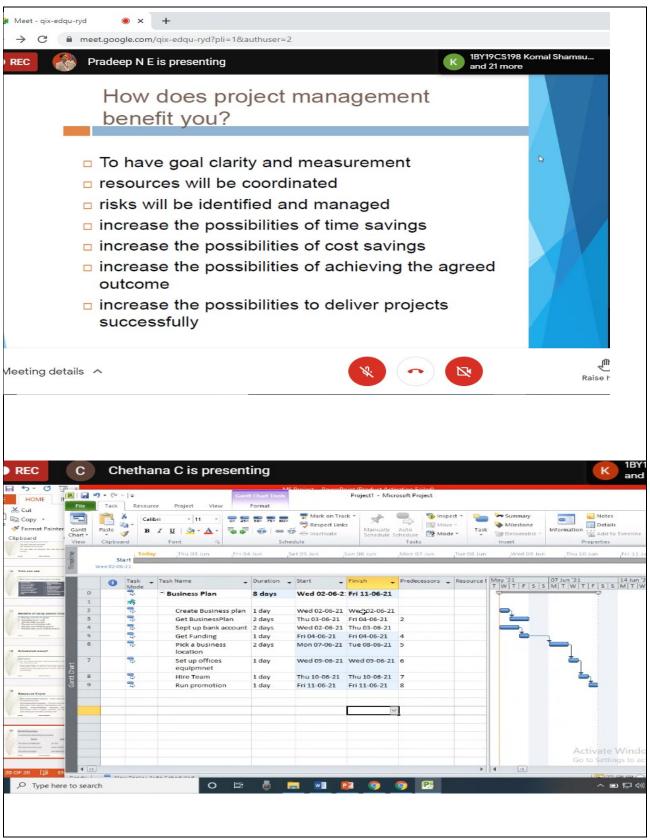
Photograph of the event:





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OPEN COURSE 2020-2021 (EVEN SEM)

CO-PO Mapping for ope "Project and Finance Ma	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	О	PO 10	PO 11	PO 12		
CO1: Understand the princ project management.	ciples of												*	
CO2:Apply continuous pla collaboration and transpare techniques													*	
CO3: Develop the project include planning, manager controlling.					*						*	*		
CO4:Define the benefits o Agile approach to managin	_							*					*	*
CO5:Enable teams to max delivered, and ensure custo stakeholder satisfaction	imise valı							*					*	
CO6:Contribute to creating culture	g an Agile	2												*
Open Course Outcomes	CO-1	Unc	lers	tand	the p	orinc	iples	of j	proj	ect	mai	nagen	nent.	
Of "PROJECT AND FINANCE	CO-2	App tran	•	con rency	tinuo tech			nni	ng,	c	olla	borat	ion	and
MANAGEMENT"	CO-3			p t ment			ects rolli		hich	1 .	incl	ude	planı	ning,
	CO-4	Defi	ne		bene	fits			g a	n A	Agil	e app	proacl	h to
	CO-5	0 01 0								sure				
	CO-6 Contribute to create an agile culture													

BMS

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Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Feedback from external expert:

- 1. Well organized and students were very interactive
- 2. Thanks for this wonder full opportunity

Feedback (critical) from students:

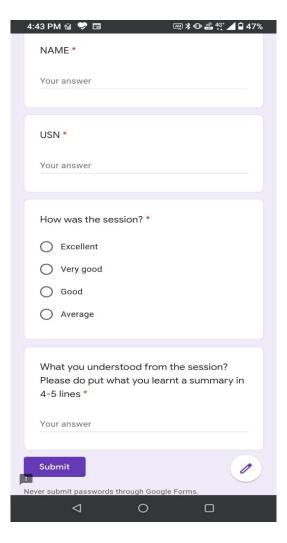
- 1. The session was a little specific to CSE.
- 2. The first day the session was too general

Feedback from External participants (if any): NIL

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

- 1. Next time the course should even be specific to other branches.
- 2. Some of the concepts were CSE oriented.

Sample course feedback form





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: COMPU	JTER SCIENCE AND EN	NGINEERING						
Title of the Open Cours	se	Python With Machine Learning						
Targeted Students from	Branches	CSE, ISE, ECE, ETE, AI&ML, EEE						
Registration Fee		Rs. 200						
No. of students attende	d	60 +60						
Software/Hardware To	ols used	Google Colab, Python IDLE, Jupyter						
		Notebook						
Delivery Methods (e.g.	: ppt presentation, chalk	PPT, hands on by sharing programs on						
& talk, simulation, vide		Google Drive. and Links to datasets.						
Assessment Methods (e	e.g.: Quiz, test, mini-	Quiz						
project, report submiss	ion, etc.)							
Open Course Chief	Name	Dr. HemaMalini B H						
Coordinator	Mobile No.	7204844628						
Details (One	Email ID	bhhemaraj@bmsit.in						
Point Contact)								
Internal Resource	Name	Dr. HemaMalini B H						
Person Details	Designation	Associate Professor						
(Please use	Mobile Number	7204844628						
additional	Name	Mr. Allen Benny						
rows for	Designation	BMSIT Student, Free lancer, Web						
multiple		Developer						
resource	Mobile Number	72908 37260, allen.officially@gmail.com						
persons)	Name	Mr. Aritra Paul, aritra1.paul@gmail.com						
	Designation	BMSIT Student, Free lancer, Data						
		Scientist						
	Mobile Number	89682 93922, Aritra1.paul@gmail.com						
	Name	Mr. Sandeep Kumar						
	Designation	BMSIT Student, Free lancer, Web						
		Developer						
	Mobile Number	91355 66028, sandy2864.py@gmail.com						
External	Name	Mr. Manoj Kumar						
Resource	Designation	Data Scientist						
Person	Company/Organization	Ex Walmart, Ex-Rolls Royce						
Details	Mobile Number/email-	98449 33228, manhojkummar@gmail.com						
	id	M DI C ' '						
	Name	Mr. Bhargav Sagiraju						
	Designation	Data Scientist,						
	Company/Organization	Money View						
	Mobile Number/email-	88610 48971, bhargavsagiraju@gmail.com						
	id	M A H & CH 11						
	Name	Ms. Arundhati Shanbhag						



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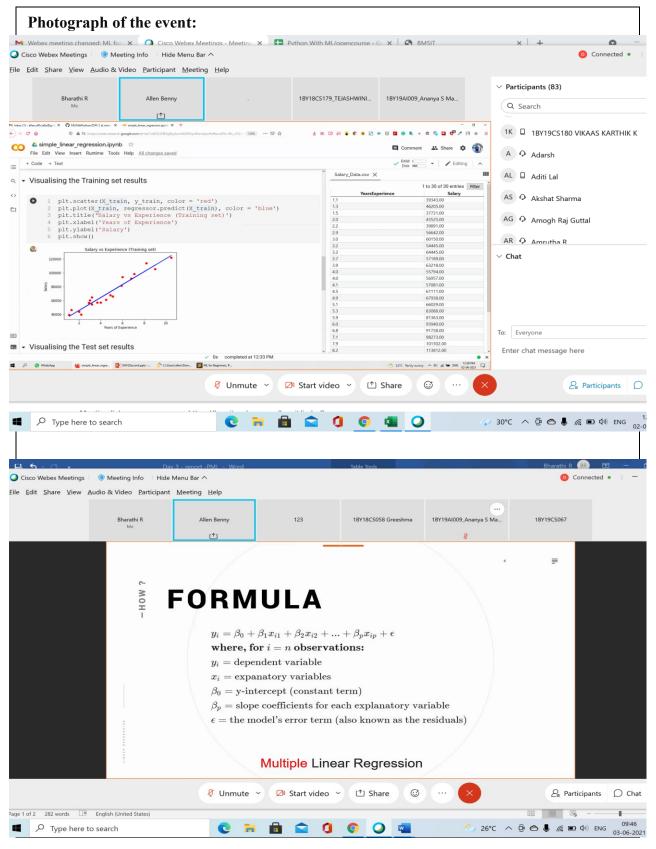
OPEN COURSE 2020-2021 (EVEN SEM)

	Designation	Data Scientist								
	Company/Organization	AI Enterprise Software Pvt. Ltd								
	Mobile Number/email-	89515 36800, arus2396@gmail.com								
	id									
Curriculum Gaps:	PO6-PO12 not met									
(Please indicate	This open course help	s to bridge these gaps								
the gaps in terms										
of POs/PSOs)										
Abstract	In this open course the participants dive into the basics of machine									
Austract		an approachable and well-known programming								
		language. The sessions talk about supervised vs. unsupervised learning,								
		modeling relates to machine learning, and do a								
	<u> </u>	he sessions also introduced Open CV, use of								
	1 *	Learning, training and testing the models, the								
	_	ns, Ethical hacking, the use of ML in Walmart,								
	Rolls Royce etc.									



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OPEN COURSE 2020-2021 (EVEN SEM)



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Open Course Outcomes	CO-1	Discuss the basic concepts of machine learning.								
Of "Python With	CO-2	Illustrate concept learning, ID3, ANN, Bayes								
Machine Learning"		classifier, k nearest neighbor,								
	CO-3	Analyze the given data using Machine learning								
		techniques.								
	CO-4	Devise a solution for complex problems using								
		Machine learning techniques.								
	CO-5	Develop a code using any suitable language for a real								
		time application								

CO-PO Mapping for open course of "Python with Machine Learning"

	11	0				,							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	3												
CO2		0											
CO2		3											
CO3			3										
CO4				3									
				J									
CO5					3			3	3				3

Feedback from external expert:

- 1. It was a great experience and we learned a lot too along the way, everything was beautifully organised and the whole process was very systematic.
- 2. It was a great experience the faculty members were very supportive and conducted the sessions in a systematic manner.
- 3. It was a really good experience, throughout the session Bharathi ma'am and Hema Malini ma'am both were very supportive.

Feedback (critical) from students: -NIL-

Feedback from External participants (if any): NIL

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



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Computer	Science and Engg	
Title of the Open Cour	se	Web Full stack Development
Targeted Students from	n Branches	ECE, EEE, CSE, ISE
Registration Fee		Rs.250 and Rs.350 for Outside BMSIT
No. of students attended	ed .	24
Software/Hardware To	ools used	Atom Text Editor, VS Code, Python
Delivery Methods (e.g	.: ppt presentation, chalk	PPT Presentation, chalk and talk,
& talk, simulation, vid		Project
Assessment Methods (e.g.: Quiz, test, mini-	Daily Assignments
project, report submiss	ion, etc.)	
Open Course Chief	Name	Dr. Sunanda Dixit
Coordinator Details	Mobile No.	+91 83105 29894
(One Point	Email ID	sunandadixit_cse@bmsit.in
Contact)		
Internal Resource	Name	Dr. Sunanda Dixit
Person Details	Designation	Associate Professor
(Please use		+91 83105 29894
additional	Mobile Number	
rows for	Name	Dr. Dhanalakshmi B K
multiple	Designation	Assistant Professor
resource		9632744662
persons)	Mobile Number	
External	Name	Ayush Seth
Resource	Designation	Frontend Developer
Person Details	Company/Organization	Styx
(Please use additional	Mobile Number/email-id	9793855446,
		littlebitbot@gmail.com
	Name	Ravi Kumar Singh
	Designation	Full Stack Developer
	Company/Organization	Styx
	Mobile Number/email-id	8335978244,
		ravikrsngh1999@gmail.com
Curriculum Gaps:		lopment underlying web principles
(Please indicate	is shortfall	
the gaps in terms		velopment and Back end
of		with Django are missing.
POs/PSOs)		op Android application by setting
	up Android developme	ent environment.

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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Abstract (Brief Details of the open course with less than 250 words)

In the digital realm, a website is an essential element for businesses, irrespective of their size and type. It helps them increase their brand presence via the Internet breaking the geographical boundaries. A professional website design itself can be used to attain various marketing strategies in order to help your business surge. Thoughtfully created website designs have a far outspread reach than any other form of marketing tools. A professional web design arouses the curiosity of the visitors to dive in further. Web design is about deciding on a lot of elements such as the layout, graphics, colors, fonts, structure, content, text styles, interactive features, imagery, interface, standardized code, etc. It involves a wide range of skills and disciplines

This 5-days course will mainly focus on forming basics of web development and deployment, which will cover all aspects frontend, backend and deployment to the server. The main focus of the course is the new technology used in industries called Django which is a framework for web development using python. Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel.

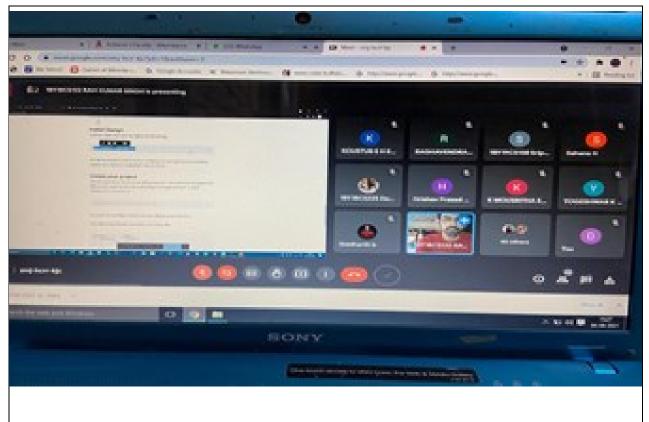
One of the session is on Mobile application development. It is the process to making software for smartphones and digital assistants, most commonly for Android and iOS. The software can be preinstalled on the device, downloaded from a mobile app store or accessed through a mobile web browser. Design and Develop Android application by setting up Android development environment.

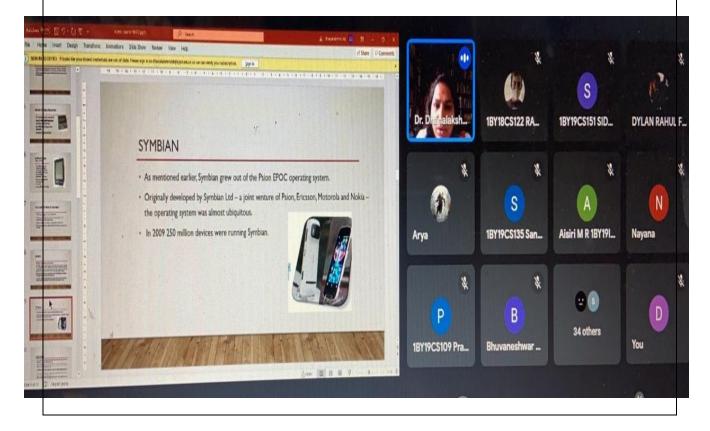
Photograph of the event:



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OPEN COURSE 2020-2021 (EVEN SEM)





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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Open Course Outcomes Of "Web Full stack Development"	CO-1	Illustrate the Semantic Structure of HTML and CSS Compose forms and Tables using HTML and CSS
	CO-3	Building Backend Using Django
	CO-4	Develop Mobile App Development

CO-PO Mapping for open course of "Web Full stack Development"

	PO1	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	X		X		X			X				
CO2	X		X							X	X	
CO3	X		X		X			X		X		
CO3	Λ		Λ		Λ			Λ		Λ		
CO4	X		X	X				X		X		

Feedback from external expert:

- 1. Conducting Open Course is useful to all branches is a very good initiative. Its good to deliver lectures along with hands-on.
- 2. Participants are very curious and showing lot of interest. It's a good experience to share the knowledge.

Feedback (critical) from students:

- 1. It was wonderful sessions. Both the resource persons Mr. Ayush and Mr. Ravi did a great job in teaching us. They did excellent work in making us understand concepts, clearing all of our doubts. They presenting was so good that even we were ready to ready extra sessions beyond time limit. It's been very useful effective sessions. Thank you.
- 2. These sessions were very interesting. The resource persons dedication level & knowledge about the topic is incredible. Thank you so much.

Feedback from External participants (if any):

- 1. Amazingly informative...
- 2. It's a useful session where we don't have the background of Web development could able to learn from scratch.

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

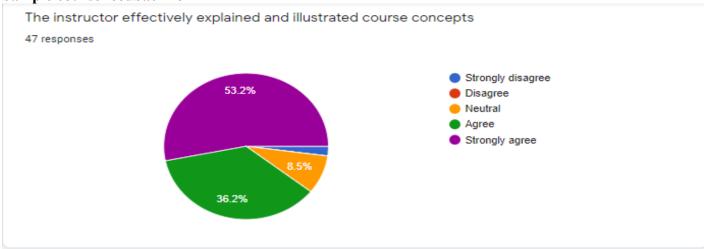
1. More time to be allotted than it was allotted this time.

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OPEN COURSE 2020-2021 (EVEN SEM)

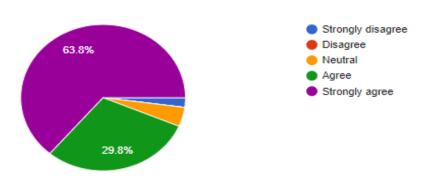
June 1-5, 2021

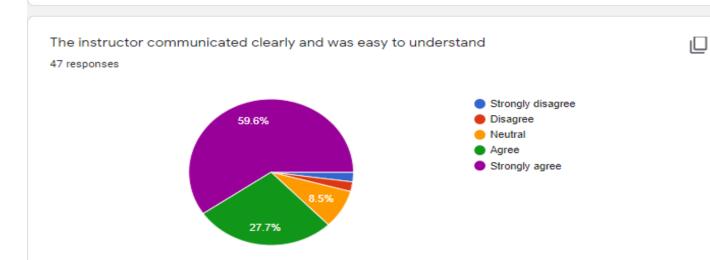






47 responses







Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Computer	Science and Engineering.					
Title of the Open Cour	se	Cyber Security – Challenges and Solutions				
Targeted Students from	n Branches	All				
Registration Fee		200				
No. of students attende	ed	60				
Software/Hardware To	ols used	Software				
Delivery Methods (e.g.	.: ppt presentation,	PPT Presentation.				
chalk & talk, simulatio						
Assessment Methods (e.g.: Quiz, test, mini-	Quizzes				
project, report submiss	ion, etc.)					
Open Course Chief	Name	Dr. Anjan Krishnamurthy.				
Coordinator Details	Mobile No.	9731317861				
(One Point Contact)	Email ID	anjank-cse@bmsit.in				
Internal Resource	Name	Dr. Arun Kumar B R				
Person Details	Designation	Professor				
(Please use	Mobile Number	9886008210				
additional	Name	Dr. Anjan Krishnamurthy.				
rows for	Designation	Associate Professor and PG Coordinator				
multiple	Mobile Number	9731317861				
resource	Name	Prof. Durga Devi G Y				
persons)	Designation	Assistant Professor				
	Mobile Number	9480613001				
	Name	Prof. Shivakumara T				
	Designation	Assistant Professor				
	Mobile Number	9060900986				
External	Name	Ms. Nalini Kanan				
Resource	Designation	Senior Technical Architect				
Person Details	Company/Organizatio	IBM ISL				
(Please use additional	n	04 00000 4000				
	Mobile Number/email-id	+91-98808-42087				
	Name	Mr. Parameswaran Selvam				
	Designation	Blockchain Technology Specialist				
	Company/Organizatio	IBM India Ltd.,				
	n	Town India Divin				
	Mobile Number/email-	parselva@in.ibm.com				
	id	•				
Curriculum Gaps:	· · · · · · · · · · · · · · · · · · ·	rs Gaps was observed in PO1, PO3 as per				
(Please indicate		PAC meeting on 21st May 2021.				
the gaps in terms of POs/PSOs)	Curricular Gaps were so	een in PO6-12 in the UG program.				



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Abstract

Cyber Security plays an important role in the field of information technology .Securing the information have become one of the biggest challenges in the present day. When ever we think about the cyber security the first thing that comes to our mind is 'cyber crimes' which are increasing immensely day by day. Various Governments and companies are taking many measures in order to prevent these cyber crimes. Besides various measures cyber security is still a very big concern to many. This course mainly focuses on challenges faced by cyber security on the latest technologies. It also focuses on latest about the cyber security techniques, ethics and the trends changing the face of cyber security. Blockchain is a technology that is developed using a combination of various techniques such as mathematics, algorithms, cryptography, economic models, and so on. Blockchain is a public ledger of all cryptocurrency transactions that are digitized and decentralized. All the transactions of cryptocurrencies are stored in chronological order to help users in tracking the transactions without maintaining any central record of the transactions. This course will discuss the security and privacy of the blockchain along with their impact with regards to different trends and applications. The chapter is intended to discuss key security attacks and the enhancements that will help develop a better blockchain systems.

Photograph of the event:

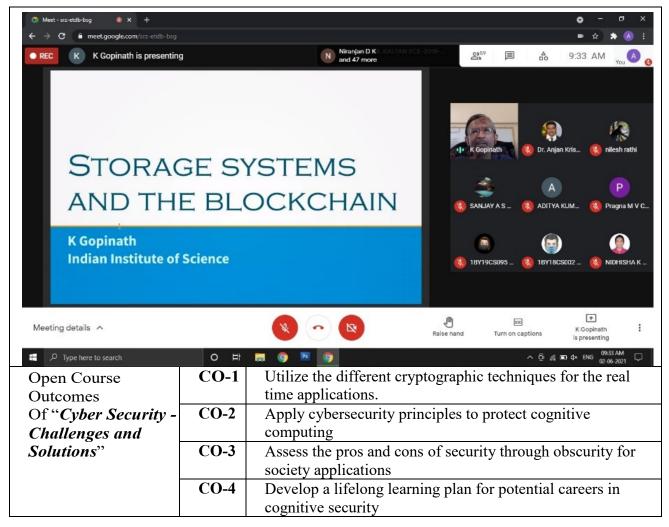




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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021



CO-UG PO Mapping for open course of "Cyber Security - Challenges and Solutions"

3 3 1 3													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1					X	X		X				X	
CO2				X	X	X		X				X	
СОЗ			X			X		X				X	
CO4				X	X	X		X	X			X	

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OPEN COURSE 2020-2021 (EVEN SEM)

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CO-PG PO Mapping for open course of "Cyber Security - Challenges and Solutions"

COs	PO1	PO2	PO3	PO4	PO5	PO6
CO1:Utilize the different cognitive cryptographic techniques for the real life applications	X	X				
CO2:Apply cybersecurity principles to protect digital infrastructures			X			
CO3: Assess the pros and cons of security through obscurity for society applications				X		
CO4:Develop a lifelong learning plan for potential careers in cyber security						X

Feedback from external expert:

- 1. The session are interactive with good spontaneous response.
- 2. Appreciated the initiatives to bridge the gap between industry and academia.

Feedback (critical) from students:

- 1. Students have appreciated the session and have given very good rating.
- 2. Students have expressed the technological coverage was good with practical hands on experience.

Feedback from External participants (if any):

1. Nil

2.

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

- 1. To start the process at least 15 days prior to the commencement of the open course.
- 2. To have single source format where the data can be upload in a time bound manner.

Sample course feedback form

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



3 4 5

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OPEN COURSE 2020-2021 (EVEN SEM)

	Did the session	on improve your ability t	to do research work? *			(+)			
		1	2	3		₽			
	Low	0	0	0	High	Тт			
	Did the session	on improve your technic	cal articulation? *			Þ			
		1	2	3					
			2						
	Low	O	O	O	High				
	Rate your abi	ity to use the new tools	in the area of cyber sec	curity and blockchain?	•				
ano occasiono mappo	THE US OF THE PARTY	1	2	3		unoun 1101		Times are are not surround	TIMES U
4	Introduction to cybersecu		Cybersecurity tools		Data privacy			Blockchain technology	
	Grt subject and acquired		Grt subject and acquired		Grt subject and ac	quired		Grt subject and acquired	
5	I got to know about hacki	5	I got knowledge about blo		Enhanced new tec	hnique	5	Got to know about crypto	
4		4		4	1		5		
5	Cybersecurity attacks	5	Cognitive security		Network security		5	Blockchain and its applic	



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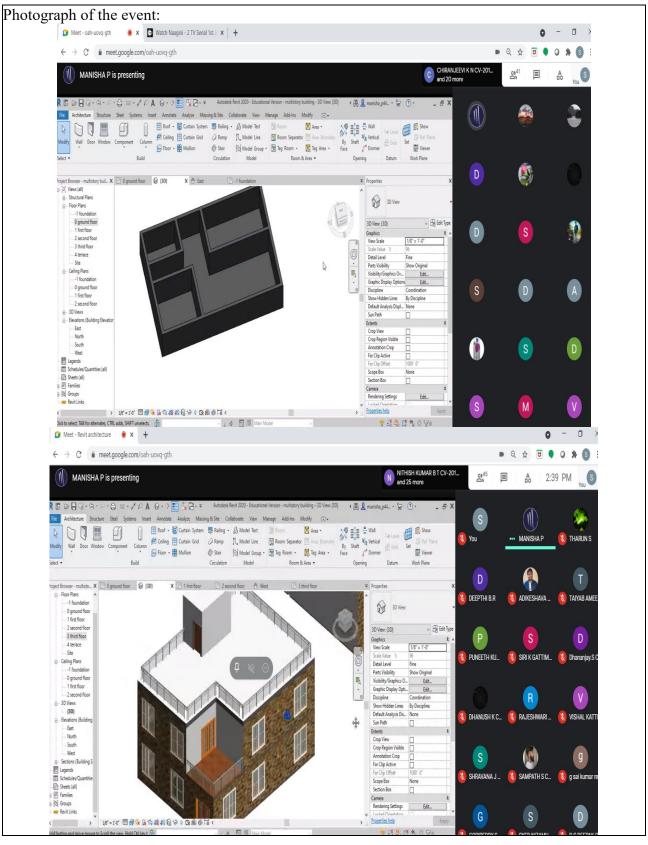
OPEN COURSE 2020-2021 (EVEN SEM)

Department: Civil En	gineering	
Title of the Open Co		Revit Architecture for Beginners
Targeted Students fi	om Branches	Civil, Mechanical, Electrical
Registration Fee		Rs.600/-
No. of students atter	nded	60
Software/Hardware	Tools used	Revit Architecture
Delivery Methods (e	e.g.: ppt presentation,	Live online
chalk & talk, simula	tion, videos, project, etc.)	
Assessment Method	s (e.g.: Quiz, test, mini-	Quiz
project, report subm		
Open Course Chief		Mr. Vinod BR
Coordinator Details	Mobile No.	9060179977
(One Point Contact)	Email ID	vinobr@bmsit.in
Internal Resource	Name	Mrs. Shobha R
Person Details	Designation	Assistance Professor
(Please use		9901333533
additional	Mobile Number	
rows for multiple	Name	Mr. Vinod B R
resource persons)	Designation	Assistance Professor
		9060179977
7 17	Mobile Number	
External Resource	Name	Mr. Pradeep Kallur
Person Details	Designation	Managing Director
(Please use	Company/Organization	Medini
additional	Mobile Number/email-id	990081006/ www.medini .in
	Name	Ms.Manisha and Mr.Mohan Prabhu
	Designation	Engineering
	Company/Organization	Medini
G : 1 G	Mobile Number/email-id	990081006/ www.medini.in
Curriculum Gaps:		e, select, and apply appropriate techniques,
(Please indicate the		ngineering and IT tools including prediction
gaps in terms of POs/PSOs)	9	engineering activities with an
POS/PSOS)	understanding of the limit	
	through multidisciplinary	ated to civil engineering built environment
Abstract		nology the world is looking for in civil
TOSHACI		asic tool of BIM is AutoCAD & Revit
	·	des many of the tools which have advanced
	·	ery private organization is using these tools,
		Indian government is looking forward to
	make this as mandate for	e



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

	CO-1	Describe building information modelling methodology and its
Open Course		benefits
Outcomes	CO-2	Use different parts of the Revit Architecture user interface and
Of "Revit		work with different types of architectural elements and families.
Architecture for	CO-3	Use the different views listed in the Project Browser, control the
Beginners"		visibility and graphical.
	CO-4	Representation of objects in architecture model, and work with
		elevation, section, and 3D views.
	CO-5	Set up a project and transfer standards between projects, add and
		modify levels in project model, create and modify grids.

CO-PO Mapping for open course of "Revit Architecture for Beginners"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1					√					√		√	
CO2					√					✓		√	
CO3					√					✓		√	
CO4					√					✓		√	
CO5					√					✓		√	

Feedback from external expert:

1. Interested in conducting more of these trainings.

Feedback (critical) from students:

1. This open course was informative and covered all the basic concepts of Revit Architecture. It went smooth. And it was highly required especially for the civil engineering students. Everything was done properly and just the time given wasn't enough. Overall i m satisfied with the course and thankful to the teaching staff for conveying the information nicely and listening properly to the queries of student also.

Feedback from External participants (if any): -NIL-

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

1. Need more time



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Sample course feedback form

				70
1by19cv007				
Add individual feedbac	k			
Email *				
1by19ev007@bmsit.in				
Add individual feedbac	k			
Phone Number *				/ 0
9380781731				
Add Individual feedbac	k			
1.1: Questionnaire ba Your first question?	sed on Activity/To	pic for Feedback on	Relevance.	
		pic for Feedback on b. Moderately agree		Score
				Score / 0
Your first question? * 1. Is this topic of relevance in the	a. Strongly agree			



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OPEN COURSE 2020-2021 (EVEN SEM)

Department: Department of	f Civil Engineering	
Title of the Open Course		Advanced Surveying using Total
		Station, ESurveying Software and
		Drone
Targeted Students from Br	Civil and other Branches	
Registration Fee		340
No. of students attended		68
Software/Hardware Tools	used	ESurveying Software
Delivery Methods (e.g.: pp	t presentation, chalk &	PPT Presentation, Project, Chalk
talk, simulation, videos, pr	oject, etc.)	
Assessment Methods (e.g.:	Quiz, test, mini-	Quiz
project, report submission,	etc.)	
Open Course Chief	Name	Dr Chandrashekharappa Agasnalli
Coordinator Details	Mobile No.	8105515564
(One Point Contact)	Email ID	
Internal Resource	Name	Dr Chandrashekharappa Agasnalli
Person Details (Please	Designation	Assistant Professor
use additional		8105515564
rows for multiple	Mobile Number	
resource persons)	Name	Dr Anupkumar G Ekbote
	Designation	Assistant Professor
		9591431809
	Mobile Number	
External Resource	Name	Mr. Murali Babu
Person Details	Designation	Vice President
(Please use additional	Company/Organization	ESurveying Softech
	Mobile Number/email-id	9738557731,
		murali@esurveying.net
	Name	Mr. Sanjay
	Designation	Engineer
		ESurveying Softech
	Mobile Number/email-id	7676178768, sanjay@esurveying.net
	Name	Mr. Raghavendra
	Designation	Surveyor
_	Company/Organization	ESurveying Softech
	Name	Dr. Gulshan Taj
	Designation	Associate Professor
	Company/Organization	Sona College of Technology, Salem
	Mobile Number/email-id	drgulshaniit@gmail.com



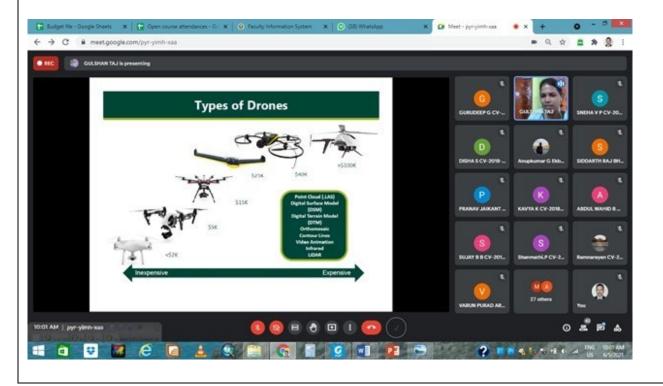
Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)	Identified Latest technology which are useful for current market business strategy
Abstract	E-Surveying software will help to process the Extensive survey data especially Restoration Project, New Proposed Project, High ways and Tunnel project and Water supply and Town planning projects. Data will collect from ground survey and data processing will be done through this ESurveying software. The drawing and design will prepare with these data. With a drone, surveyors can capture many more topographic data points, hence more accurate volume measurements. They can also do this in a much safer way than if they had to manually capture the data by going up and down a stockpile. Students will be able to learn advanced software's to process extensive survey project and drone survey data.

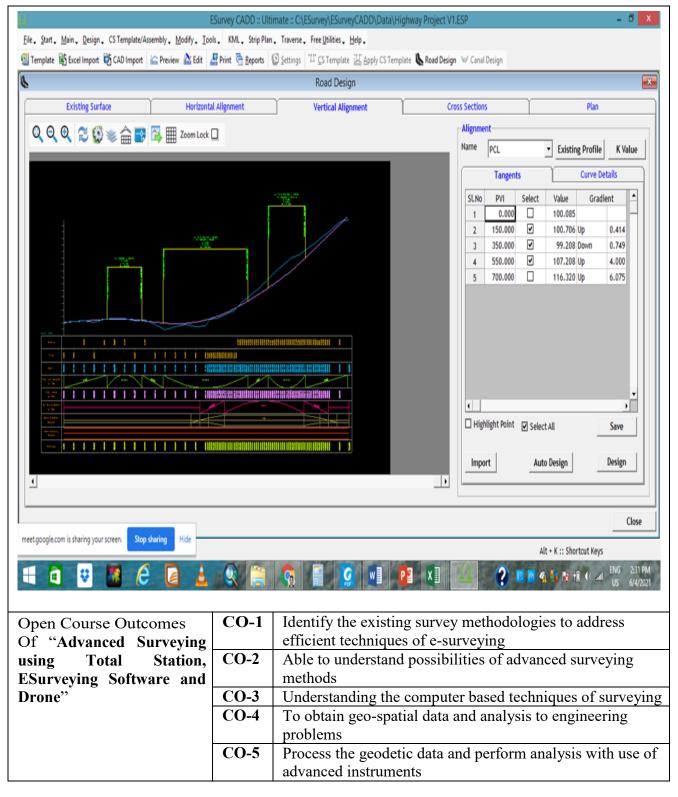
Photograph of the event:





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)





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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

CO-PO Mapping for open course of "Advanced Surveying using Total Station,

ESurveying Software and Drone"

		<u> </u>	· · · · · · · ·	una D	10110									
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1					3							3	3	
2			3		3	3						3	3	
3					3					3		3		
4	3	3			3						3	3	3	
5		3	3		3						3	3		

Feedback from external expert:

- 1. Excellent
- 2. Excellent

Feedback (critical) from students:

- 1. Satisfactory
- 2. Satisfactory

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

- 1. Satisfactory
- 2. Satisfactory



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: DEPARTMENT OF ELECTRONICS AND COMMUNICATION							
Title of the Open Course		FUNDAMENTALS OF IOT AND CIRCUIT SIMULATION					
Targeted Students from Bi	ranches	Circuit Branches ECE/ETE/EEE/CSE/ISE					
Registration Fee	200/-						
No. of students attended		30					
Software/Hardware Tools	Software/Hardware Tools used						
Delivery Methods (e.g.: pp		PPT presentation, Simulation,					
talk, simulation, videos, pr	roject, etc.)	Mini Projects, Hardware with live					
		demo and video.					
Assessment Methods (e.g.	=	Quiz.					
project, report submission							
Open Course Chief	Name	Dr. Dankan Gowda V					
Coordinator Details	Mobile No.	9844554940					
(One Point Contact)	Email ID	dankan.v@bmsit.in					
Internal Resource	Name	Dr. Dankan Gowda V					
Person Details (Please	Designation	Assistant Professor					
use additional	Mobile Number	9844554940					
rows for multiple	Name	Prof. Lakshmisagar H S					
resource persons)							
	Designation	Assistant Professor					
	Mobile Number	+91 81230 08252					
External Resource	Name	Mr. Manju J R					
Person Details	Designation	Professional IoT Trainer					
(Please use additional	Company/Organization	Siemens centre of Excellence in Manufacturing deputed to NIT Trichi					
	Mobile Number/email-id	+91 94486 42127					
	Name	Dr. VADDI NAGA PADMA					
		PRASUNA					
	Designation	Associate Professor					
	Company/Organization	ATRIA Institute of Technology					
	Mobile Number/email-id	+91 98805 98093					
	Name	Mr. Chethan					
	Designation	IoT Trainer, COE-IOT					
	Company/Organization	DASSAULT SYSTEM, Deputed to NMIT.					
	Mobile Number/email-id	+91 84978 71319					
	Name	Mr.Akash J					
	Designation	Founder					



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

	Company/Organization	Life Bolt Innovation Pvt. Ltd						
	Mobile Number/email-id	+91 8861848898						
	Name	Mr. Sandeep Singh						
	Designation	Senior Project Manager						
	Company/Organization	Electropro Pvt. Ltd +91 74060 50506						
	Mobile Number/email-id							
	Name	Dr. Mohan B A						
	Designation	Associate Professor						
	Company/Organization	IoT Trainer, IOT COE, NMIT						
	Mobile Number/email-id	+91 96329 12432						
	Name	Dr. M Nagbushanam						
	Designation	Assistant Professor						
	Company/Organization	MSRIT						
	Mobile Number/email-id	+91 9739566766						
	Name	Prof. Vinay T R						
	Designation	Assistant Professor						
	Company/Organization	NMIT						
	Mobile Number/email-id	+91 9886845587						
	Name	Prof. Vinay Kumar B C						
	Designation	Assistant Professor						
	Company/Organization	SKIT						
	Mobile Number/email-id	+919742290659						
Curriculum Gaps:	PO3,PO5,PO9.PO10 and PO12							
(Please indicate the								
gaps in terms of								
POs/PSOs)	The explosive growth of the	—Internet of Things is changing the						
Abstract (Brief Details of								
the open course with less	current trends in the world and the rapid drop in price for typical IoT components is allowing people to innovate new designs and							
than 250 words)	products. In this course, students will learn the importance of IoT							
	in society, the current components of typical IoT devices and trends							
	for the future. IoT design considerations, constraints and interfacing							
	between the physical world and your device will also be covered.							
	Addition, students will also learn how to make design trade-offs							
	between hardware and software. This course will also cover key							
	components of networking to ensure that students understand how							
	to connect their device to the Internet. So this online course has been organized in order to provide the students a platform to learn the fundamental concepts of IoT, the software's used to establish the communication between the devices and the various IoT protocols used and its importance.							
	Prerequisites: Students must have basic knowledge on							
	microcontrollers and embedded C programming. The students will							

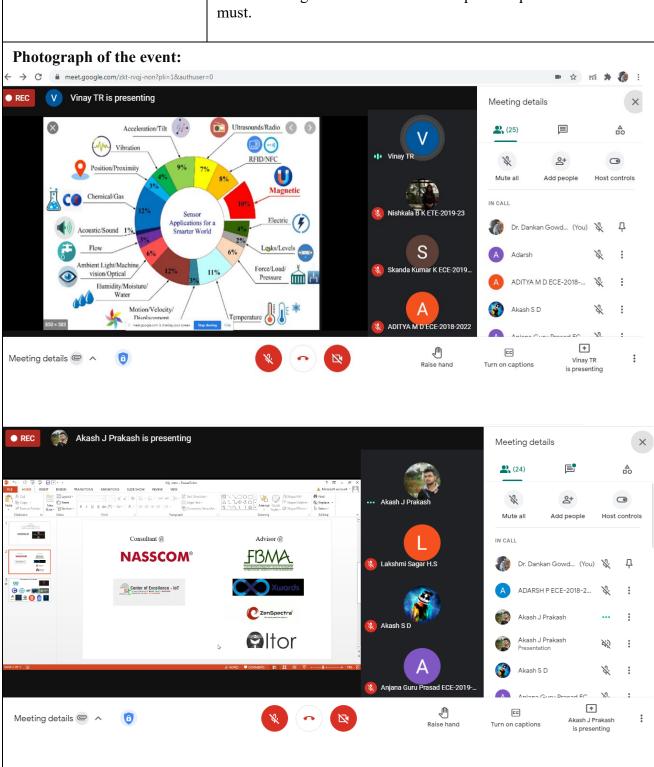


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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

be requiring to participating actively in creative thinking exercises and be willing to be innovative. Participate in open discussions is a must.



STATE OF TECHNOLOGY

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Open Course Outcomes	CO-1	Demonstrate the fundamental concepts of the Internet of				
Of "FUNDAMENTALS OF		Things and its applications and architecture models.				
IOT AND CIRCUIT	CO-2	Design the real time applications using Arduino Controller				
SIMULATION"		and Sensors				
	CO-3	Apply the python programming concepts to create				
		connection with the hardware devices for IoTs.				
	CO-4	Illustrate the features of IoT Communication Protocols				
		and Need for Security issues in the IoT applications				
	CO-5	Develop an IoT system having a simple three-layer web				
		application				

CO-PO Mapping for open course of "Fundamentals of IoT and Circuit Simulation"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1													3	
CO2	3												3	3
CO3		3											3	
CO4			3		3							3	3	
CO5						3			3	3			3	

Feedback from external expert:

1.

Respected Dr. Dankan Gowda sir,

I am happy being part of the Open Course on "Fundamentals of IOT and Circuit Simulation" course as a Resource Person.

Very impressive and active participation by all the students, resembles that this program was well thought.

Credit goes to BMSIT Management and Organizing team. Also, it is very well planned and organized.

As a resource person I appreciate all your students for their interactive participation throughout the long hours of hands-on sessions and quizzes. I was thoroughly impressed about the overall program and inspired.

Regards

Dr. Vaddi Naga Padma Prasuna,

Associate Professor,

ECE Dept,

WiE AG Advisor,

AIT, Bangalore, 9880598093

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

2. Hello Dankan,

I take this opportunity to firstly thank you for letting me take a session as an external expert in IoT & AI to bridge the gap of industry and academia needs. This is a wonderful attempt in building the gap. If this would be taken up based on the student interest as a part-time development program it would really help them out.

Student performance:

I felt it lacks a lot of professionalism in them I can't come to a conclusion at this point of time as to what is the reason for the same.

Suggestion:

I would request you and the faculties to start treating them as corporate employees and encourage professional communications rather than using more of informal modes for communication.

Regards:

Mr.Akash J

Life Bolt Innovation Pvt. Ltd

Feedback (critical) from students:

- The course was very informative, it would have been more better if we could have had more hands on sessions.
- ❖ It was a really good session with lot of improvement in my knowledge, very informative! This type of course should be given a time slot in regular weeks also.
- ❖ The course was well organized with respect to the timings and resource persons. It was informative. The time duration of the course could have been extended to more than 5 days. And more hands on sessions would have been better.

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

- 1. As per the student's suggestion time duration of the open course is extended if it is possible.
- 2. extending hands on sessions, live demo projects.



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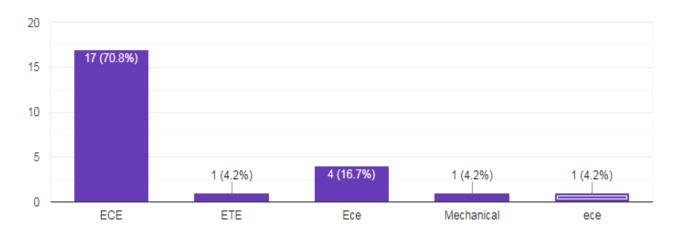
OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

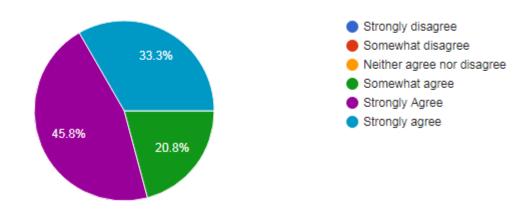
Sample course feedback form

Department

24 responses



1. The open course offered was good enough to improve my knowledge and skills 24 responses



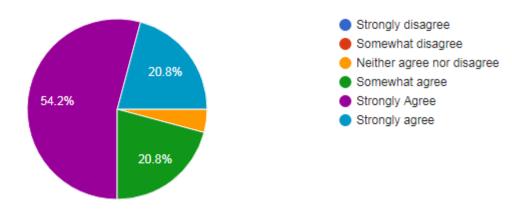


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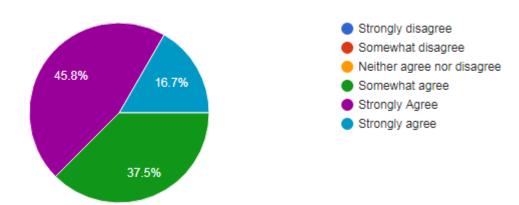
June 1-5, 2021

2. The contents covered in the open course meets the course outcomes defined 24 responses



3. The duration of the open course was very appropriate.

24 responses



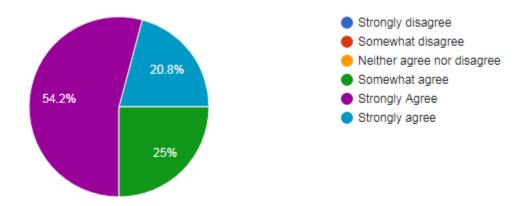


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OPEN COURSE 2020-2021 (EVEN SEM)

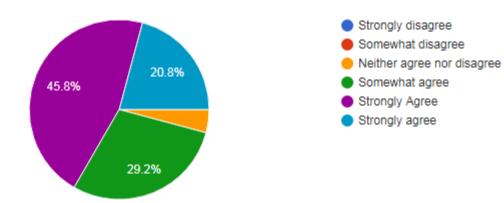
June 1-5, 2021

4. The open course helped me a lot to improve my knowledge that is required 24 responses



5. The contents of the open course were properly framed in accordance with the Industry requirement

24 responses





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Electronics an	d Communication	
Title of the Open Course		Microprocessor 8085 Basics
Targeted Students from Br	anches	All branches
Registration Fee		Rs. 200.
No. of students attended		4
Software/Hardware Tools	used	Microprocessor simulation tool
Delivery Methods (e.g.: pp	ot presentation, chalk &	PPT, simulation
talk, simulation, videos, pr		
Assessment Methods (e.g.:		Quiz
project, report submission,		
Open Course Chief	Name	Prof. Thyagaraj
Coordinator Details	Mobile No.	9845133392
(One Point Contact)	Email ID	thyagaraj_tanjavur@bmsit.in
Internal Resource	Name	Dr. Ambika R
Person Details (Please	Designation	Professor
use additional		9449527539
rows for multiple	Name	Dr. C S Mala
resource persons)	Designation	Professor
		9448611588
	Name	Prof. Shashikala J
	Designation	Asst. Professor
		7259703549
External Resource	Name	Dr. R Aparna
Person Details	Designation	Professor
(Please use additional	Company/Organization	Siddaganga Institute of Technology
	Mobile Number/email-id	9480408455/raparna@sit.ac.in
	Name	
	Designation	
	Company/Organization	
	Mobile Number/email-id	
Curriculum Gaps:		-requisite knowledge.
(Please indicate the	2. PO5: not proficient w	vith simulators.
gaps in terms of		
POs/PSOs)	The 2025 is a manufact 2 1:4:	miaranroaggar that is wood widely some
Abstract	the world to introduce stu assembly language programmenrich the knowledge of the position of microprocessor fundamen	microprocessor that is used widely across idents to microprocessor concepts and ming. In this course, The course intends to participants with understanding the basics itals, then dive deep into the architecture set. Finally introduce assembly language
		nch of programming questions.

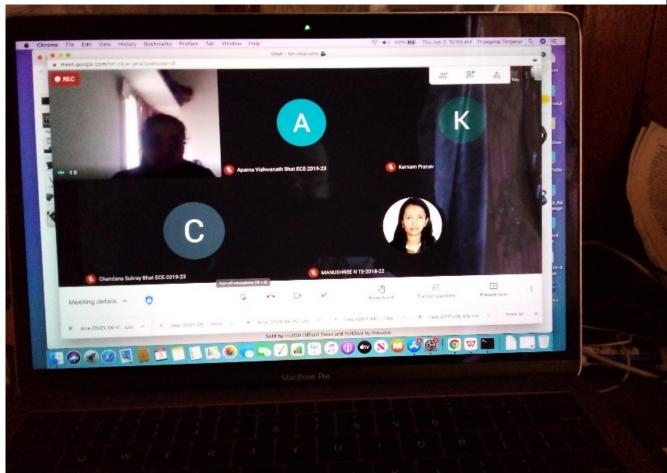


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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Photograph of the event:

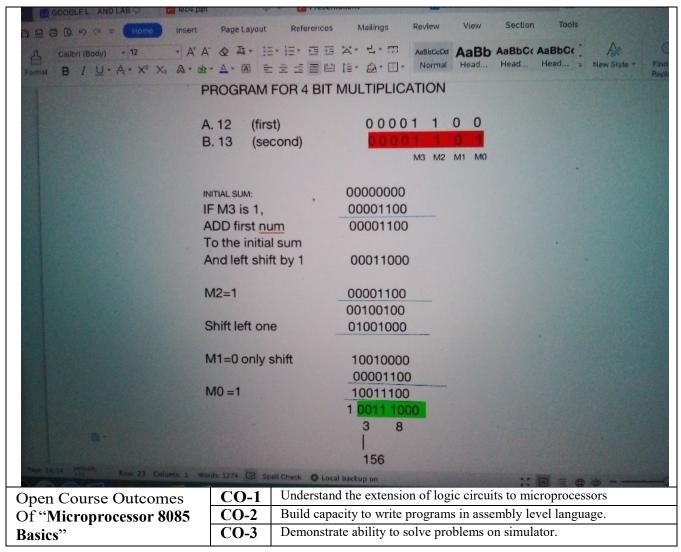




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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021



CO-PO Mapping for open course of "Microprocessor 8085 Basics"

PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
	_	_											
~~.	-	_											
CO ₁	3	2											1
CO2		2	3									2	1
COZ)									2	1
CO ₃					3							3	1
													1
	1	1	ĺ	ĺ	ĺ	ĺ	ĺ		ĺ	1			

Feedback from external expert:

1. GOOD INITIATIVE

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Feedback (critical) from students:

1. Events can be organized in much efficient manner with better industry personals. Greater emphasis on "out of the box" teaching is required.

Feedback from External participants (if any): -NIL

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

- 1. Ask student suggestions on what they wish to learn.
- 2. Provide appropriate incentive to the coordinators.

Sample course feedback form

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

The open course offered was good enough to improve my knowledge and skills.												
	1	2	3	4	5							
Strongly disagree	0	0	0	0	•	Strongly agree						
The contents covered in the open course meets the course outcomes defined												
	1	2	3	4	5							
Strongly disagree	0	0	0	•	0	Strongly agree						
The duration of the ope	en course v	The duration of the open course was very appropriate.										
	1	2	3	4	5							
strongly disagree	1	2		4	5	strongly agree						
strongly disagree The open course helped	0	0	0	0	•							
	0	0	my know	0	•							



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

The contents of the open course were properly framed in accordance with the Industry requirement *												
	1	2	3	4	5							
Strongly disagree	0	0	0	•	0	Strongly agree						
The resource persons indepth.	nvited to th	ne open co	ourse were	good end	ough to cov	ver the topics in						
	1	2	3	4	5							
Strongly disagree	0	0	0	0	•	Strongly agree						
The timing chosen for c	pen cours	e (just one	e week afte	er the regu	ılar classes	s) is appropriate. *						
	1	2	3	4	5							
Strongly disagree	0	0	0	0	•	Strongly agree						
The open course cover	ed most of	the key a	spects pro	vided in th	ne course s	schedule						
	1	2	3	4	5							

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

	1	2	3	4	5							
Strongly disagree	0	0	0	0	•	Strongly agree						
I feel we need more and more of these kinds of new initiatives which bring all of us together as one Team.												
	1	2	3	4	5							
Strongly disagree	0	0	0	0	•	Strongly agree						
Time management was	effective t	hroughou	t the oper	course								
	1	2	3	4	5							
Strongly disagree	0	0	0	0	•	Strongly agree						
I am more inspired to utilise open course to project based learning, Industry internship, job opportunity etc.												
	tilise open											



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Electronic	es and Communication Eng	ineering
Title of the Open Cours	e	Design and Analysis of Microwave and Electronic Devices
Targeted Students from	Branches	ECE, EEE, ETE
Registration Fee		Rs. 200/-
No. of students attended	1	06
Software/Hardware Too	ols used	CST Microwave Studio, ANSYS HFSS, Vectored Network Analyzer
Delivery Methods (e.g.: & talk, simulation, vide	os, project, etc.)	PPT Presentation, Simulation, Videos
Assessment Methods (e project, report submission		Quiz
Open Course Chief	Name	Dr. Amit Kumar
Coordinator Details	Mobile No.	8010377545
(One Point Contact)	Email ID	amitkumar@bmsit.in
Internal Resource	Name	Dr. Amit Kumar
Person Details	Designation	Assistant Professor
	Mobile Number	8010377545
	Name	Dr. Prachi Sharma
	Designation	Assistant Professor
	Mobile Number	93150 43596
External	Name	Dr. Jugul Kishor
Resource	Designation	Associate Professor
Person Details	Company/Organization	JIMS Engineering Management
(Please use additional		Technical Campus, Greater Noida
	Mobile Number/email-id	97179 66545, jugulkishor@gmail.com
	Name	Mr. Rajesh Kulalar
	Designation	Technical Expert
	Company/Organization	Jyoti Electronics, Ahmedabad
	Mobile Number/email-id	97256 87478,
		rajesh@jyotimicrosystems.com
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)	new software tools like of designing antennas and mandard tool Vectored not filter measurements. They	Os (4, 5, 6, 7, 8, 9). Students will learn about CST Microwave Studio, ANSYS HFSS for nicrowave filters. They also learn about the etwork Analyzer for antenna and microwave learn to identity few complex problems related ution through engineering practices like mology.



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OPEN COURSE 2020-2021 (EVEN SEM)

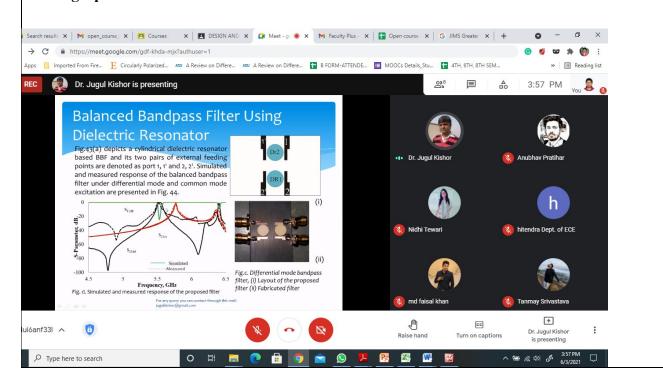
June 1-5, 2021

Abstract (Brief Details of the open course with less than 250 words)

The Course is aimed that describing some fundamentals concepts and software tools required to design and analyze few Microwave Devices like (Microstrip Antenna, MIMO antenna, Dielectric Resonator Antenna, Horn Antenna, and Microwave Filters) and few Electronics Devices like (MOSFET, thin-film transistor and some more). We will be providing a demo on Vector Network Analyzer for antenna measurement.

This open course is designed for students interested in designing Microwave and Electronic devices required for handheld devices like Mobile, Laptop, Wi-Fi, Bluetooth, and many more. They will get to know the flavor of high-data-rate transmission through 4G/5G applications.

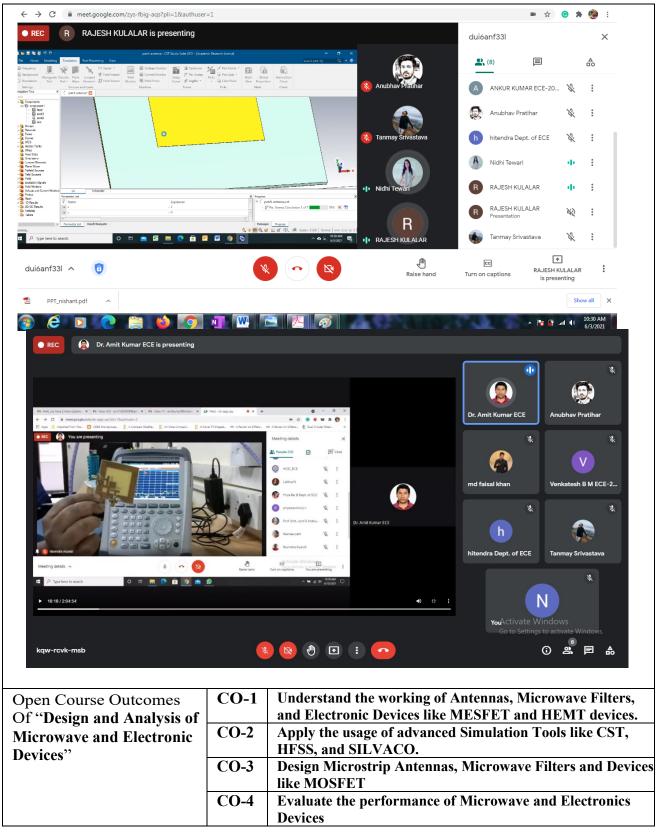
Photograph of the event:





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OPEN COURSE 2020-2021 (EVEN SEM)





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

CO-PO Mapping for open course of "Design and Analysis of Microwave and Electronic Devices"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	3	3	2										
CO2		3	3	3	3			3	3		2	2	
CO3	2	2	3	3	3	2	3	3	3		2	2	
CO4	3	3		3	3		2	3					

Feedback from external expert:

- 1. More Students who are willing to go for higher studies should be encouraged for this research oriented open-course.
- 2. Hands-on practice of the software by the students would be more beneficial. Advise them to download student version of CST Microwave Studio software available on https://edu.3ds.com/en/software/cst-studio-suite-student-edition

Feedback (critical) from students:

- 1. Students should be given more such opportunity to get involved in such interactive courses
- 2. Installed software access will be more beneficial for hands-on experience.

Feedback from External participants (if any):

- 1. Request to arrange something in Artificial Intelligence
- 2. Demo version of the installed software should have been more beneficial for hands-on experience.

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

- 1. Pre- installed software access for the students.
- 2. Students should be given more such opportunity to get involved in such interactive courses



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Sample course feedback form

Timestamp	Email Address	Name of the Student	Semest er	USN	Depart ment	Mobile No	1.The open course offered was good enough to improve my knowledge and skills.	13. My suggestions to improve these open courses in future:	14. My other comments:
6/5/2021 14:35:32	1BY15EC013@b msit.in	Anubhav Pratihar	6th	1BY15EC013	ECE	8971644895	Strongly agree	NA	NA
6/5/2021 14:37:26	1by17ec417@bm sit.in	VENKATESH B M	6	1by17ec417	ECE	8861081999	Strongly agree	Higer education	Nothing
6/5/2021 14:40:15	nidhitewari.tewari @gmail.com	Nidhi Tewari	External		Electron ics	9479847958	Strongly agree	helpful to me to enhance my knowledge. It was really a very good effort by our faculty.	
6/5/2021 14:41:15	mdfaisalkhan99 @gmail.com	MD FAISAL KHAN	External	??	Ece	9015533074	Strongly agree	There needs to be some interactions in the class	Request to arrange something in Artficial Intelligence
6/5/2021 14:43:26	1by18ec170@bm sit.in	Tanmay Srivastava	4	1BY18EC170	ECE	7367965350	Strongly agree	I would certainly love to have more such opportunities such as these in the future.	an amazing experience an interesting journey with different resource people specializing in different fields and a vast span of knowledge.
6/5/2021 14:45:27	1by18ec019@bm sit.in	Ankur Kumar	4	1BY18EC019	ECE	6202647679	Strongly agree	Students should be given more such opportunity to get involved in such interactive courses	



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Electronics an	d Communication Eng	gineering				
Title of the Open Course		Machine Learning for Image Analysis				
Targeted Students from Br	anches	ECE, CSE, ISE, EEE, CIV, MECH				
Registration Fee		Rs. 200/-				
No. of students attended		38				
Software/Hardware Tools	used	MATLAB, Python				
Delivery Methods (e.g.: pp	ot presentation, chalk	ppt presentation, simulation, project				
& talk, simulation, videos,						
Assessment Methods (e.g.	Quiz, test, mini-	Quiz, test				
project, report submission,	etc.)					
Open Course Chief	Name	Dr. Vijayalakshmi G V				
Coordinator Details	Mobile No.	9449378246				
(One Point Contact)	Email ID	vijayalakshmi@bmsit.in				
	Name	Prof. Chandraprabha				
	Mobile No.	88676 18157				
	Email ID	chandra@bmsit.in				
	Name	Prof. Shilpa Hiremath				
	Mobile No.	88846 11668				
	Email ID	shilpasharankh@bmsit.in				
Internal Resource	Name	Dr. Vijayalakshmi G V				
Person Details (Please	Designation	Associate Professor				
use additional	Mobile Number	9449378246				
rows for multiple	Name	Prof. Chandraprabha				
resource persons)	Designation	Assistant Professor				
	Mobile Number	88676 18157				
	Name	Prof. Shilpa Hiremath				
	Designation	Prof. Shilpa Hiremath				
	Mobile Number	Assistant Professor				
	Name	Dr.Surekha R Gondkar				
	Designation	Associate Professor				
	Mobile Number	96635 99656				
	Name	Prof. Mamatha K R				
	Designation	Assistant Professor				
	Mobile Number	99720 42574				
	Name	Mr. Siddarth Shetty				
	Mobile Number	87225 51612				
	Name	Mr. Abdul Rehman				
	Mobile Number	87225 51612				
	Name	Mithilesh Jagannathan				



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

External Resource	Designation	Solution Architect
Person Details	Company/Organiz	Honey well, Pune
(Please use additional	ation	
(1 lease use additional	Mobile	mithileshjagannathan@gmail.com
	Number/email-id	
	Name	Dr. Ruban Nersisson
	Designation	Associate Professor and HoD
	Company/Organiz	VIT, Vellore
	ation	, , , , , , , , , , , , , , , , , , , ,
	Mobile	nruban@vit.ac.in
	Number/email-id	
	Name	Dr. Vijayarajan
	Designation	Associate Professor
	Company/Organiz	VIT, Chennai
	ation	,
	Mobile	viraj2k@gmail.com
	Number/email-id	
	Name	Dr. Chandrakala H T
	Designation	Assistant Professor
	Company/Organiz	GFGC, Tumkur
	ation	
	Mobile	chandrakl80@gmail.com
	Number/email-id	
	Name	Dr. Bhagirathi Halalli
	Designation	Assistant Professor
	Company/Organiz	GFGC, Raibag
	ation	
	Mobile	bhagyaigali@gmail.com
	Number/email-id	
	Name	AbhishekPShenoy
	Designation	SoftwareDeveloper,TeamLead
	Company/Organiz	SigSenzTechnologiesPvt.Ltd,
	ation	Bangalore
	Mobile	70195 76068
	Number/email-id	
Curriculum Gaps:		ortunity in learning the various software
(Please indicate the		I their lifelong learning skills by executing
gaps in terms of	the projects individua	ally.(PO12)
POs/PSOs)		
Abstract		learning for image analysis is for automating
Abstract		e analysis. This course discusses the basic
		nodological directions in which the various
	machine learning alg	orithms (supervised or unsupervised) can be
	adapted for image a	nalysis in pattern recognition applications.
	Image analysis in	cludes image processing and Pattern
	recognition. Image p	processing involves using a set of tools for



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

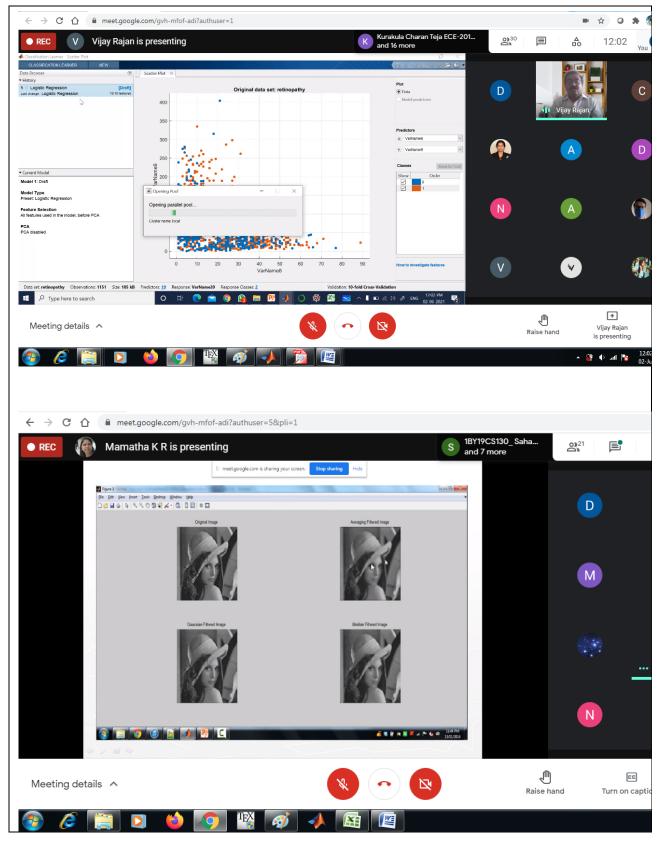
enhancing, compressing, restoring and segmenting the images. It also extracts features for image description. Pattern recognition assigns the extracted features or patterns to the classes based on their relationship. Computer/Machine vision is an area in which image analysis is of importance. A typical application of a machine vision system is in the manufacturing industry, either for automated visual inspection or for automation in the assembly line. Character recognition is another important area of analysing text images, with major implications in automation and information handling. Computer-aided diagnosis is an application of medical image analysis with machine learning, aimed at assisting doctors in making diagnostic decisions. This open course is designed for students to gain the knowledge of machine learning for image analysis through MATLAB® from the basics. In this course we cover various types of analysis while highlighting the image enhancement, segmentation, restoration, feature extraction and machine learning modules.

Photograph of the event: Photograph of the event: REC Shilpa Hiremath is presenting Rec Shilpa Hiremath is presenting



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OPEN COURSE 2020-2021 (EVEN SEM)



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Open Course Outcomes Of "Machine Learning for	CO-1	Design image analysis methods for use in pattern recognition applications.
Image Analysis"	CO-2	Analyse and interpret the Feature extraction process of a data to understand the underlying information present
	CO-3	Use the MATLAB along with image processing, statistics and machine learning tool boxes to model the pattern recognition applications of study.

CO-PO Mapping for open course of "Machine Learning for Image Analysis"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1			3										
CO2				3									
CO3					3				3	1		2	

Feedback from external expert:

1. External experts were happy to share their expertise in the course

Feedback (critical) from students:

- 1. These were good but we went too deep into the topic. It would be better if we had few more classes.
- 2. On a whole, it was nice, informative, useful course. It really worth our time.
- 3. I had a very good sessions from a week. I tried understand topics, Thanks lecturers your time. :)
- 4. It was really nice, we came to know some topics

Feedback from External participants (if any): -NIL-

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

- 1. There are many complex things that are covered in this open course with respect to 4th sem syllabus, it would have been much better if the course concepts were slightly understandable for 4th sem students.
- 2. More courses should be offered

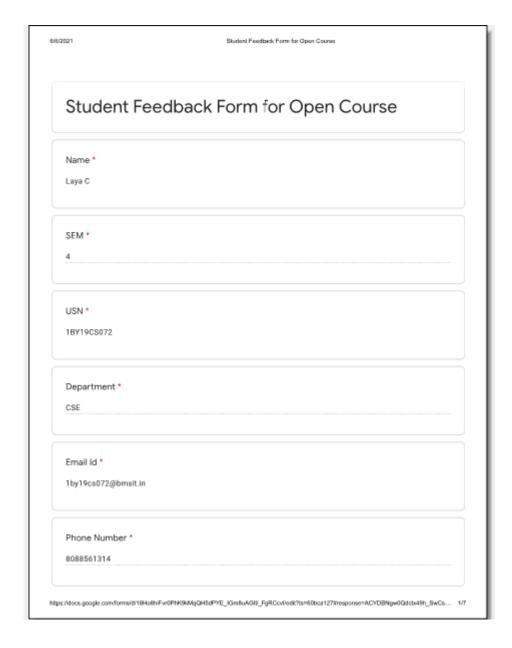


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OPEN COURSE 2020-2021 (EVEN SEM)

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Sample course feedback form





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OPEN COURSE 2020-2021 (EVEN SEM)

/2021	Student Feedback Form for Open Course
1. Tì	ne open course offered was good enough to improve my knowledge and skills. *
0	Strongly disagree
0	Somewhat disagree
\circ	Neither agree nor disagree
\circ	Somewhat agree
0	Strongly agree
2. T	he contents covered in the open course meets the course outcomes defined *
0	Strongly disagree
\circ	Somewhat disagree
\circ	Neither agree nor disagree
0	Somewhat agree
0	Strongly agree
3. T	he duration of the open course was very appropriate. *
0	Strongly disagree
\circ	Somewhat disagree
\circ	Neither agree nor disagree
0	Somewhat agree
0	Strongly agree
ps://docs	.google.com/forms/d/18Ho8hiFvr0PhK9kMqQH5dPYE_lGm8uAGHj_FgRCovl/edik?ts=60bca127#response=ACYDBNgw0Qdctx49h_9wCs



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

The open course helped me a lot to improve my knowledge that is required for the Indust Strongly disagree Somewhat disagree Somewhat agree Strongly agree The contents of the open course were properly framed in accordance with the Industry equirement * Strongly disagree Somewhat disagree Neither agree nor disagree Neither agree nor disagree Somewhat agree Somewhat agree Strongly agree	
Somewhat disagree Neither agree nor disagree Strongly agree The contents of the open course were properly framed in accordance with the Industry equirement. Strongly disagree Somewhat disagree Neither agree nor disagree Somewhat agree	try *
Neither agree nor disagree Somewhat agree Strongly agree The contents of the open course were properly framed in accordance with the Industry equirement * Strongly disagree Somewhat disagree Neither agree nor disagree Somewhat agree	
Strongly agree The contents of the open course were properly framed in accordance with the Industry equirement.* Strongly disagree Somewhat disagree Neither agree nor disagree Somewhat agree	
The contents of the open course were properly framed in accordance with the Industry equirement * Strongly disagree Somewhat disagree Neither agree nor disagree Somewhat agree	
The contents of the open course were properly framed in accordance with the Industry equirement.* Strongly disagree Somewhat disagree Neither agree nor disagree Somewhat agree	
Strongly disagree Somewhat disagree Neither agree nor disagree Somewhat agree	
Somewhat disagree Neither agree nor disagree Somewhat agree	
Neither agree nor disagree Somewhat agree	
Somewhat agree	
Strongly agree	



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OPEN COURSE 2020-2021 (EVEN SEM)

	he resource persons invited to the open course were good enough to cover the topics in th. *
0	Strongly disagree
0	Somewhat disagree
0	Neither agree nor disagree
0	Somewhat agree
0	Strongly agree
7. TI	ne timing chosen for open course (just one week after the regular classes) is appropriate. *
0	Strongly disagree
0	Somewhat disagree
0	Neither agree nor disagree
0	Somewhat agree
0	Strongly agree



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OPEN COURSE 2020-2021 (EVEN SEM)

6/6/2021	Student Feedback Form for Open Course
8. The open o	course covered most of the key aspects provided in the course schedule *
○ Strongly o	lisagree
Somewha	t disagree
○ Neither ag	gree nor disagree
Somewha	t agree
Strongly a	gree
9. The course usage and ot	helped me to acquire sufficient teamwork, continuous learning, modern tools her skills. *
Strongly of	lisagree
Somewha	t disagree
O Neither as	gree nor disagree
Somewha	t agree
Strongly a	gree
https://docs.google.com/fo	rms/d/18Ho8hiFw0Phk9kMqQH5dPYE_lGm8uAGHI_FgRCovl/edk?ts=60bca127#response=ACYDBNgw0Qdctx49h_9wCs 5/7



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OPEN COURSE 2020-2021 (EVEN SEM)

6/6/2021	Student Feedback Form for Open Course
	I feel we need more and more of these kinds of new initiatives which bring all of us ether as one Team. *
0	Strongly disagree
0	Somewhat disagree
0	Neither agree nor disagree
0	Somewhat agree
0	Strongly agree
11. 7	Time management was effective throughout the open course.*
0	Strongly disagree
0	Somewhat disagree
0	Neither agree nor disagree
0	Somewhat agree
0	Strongly agree
https://docs	.google.com/forms/d/18Ho6hFw0PhK9kMqQH5dPYE_lGm8uAGHI_FgRCovl/edit/ts=60bca127#response=ACYOBNgw0Qdctx48h_9wCs 6/7



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

6/6/2021	Student Feedback Form for Open Course
	am more inspired to utilise open course to project based learning, Industry internship, job ortunity etc. •
0	Strongly disagree
0	Somewhat disagree
0	Neither agree nor disagree
0	Somewhat agree
0	Strongly agree
My s	suggestions to improve these open courses in future: *
	other comments: * s really nice , we came to know some topics
	This form was created inside of BMS Institute of Technology and Management.
	Google Forms
https://docs.	google.com/forms/d/18Ho8hiFvr0PhK8kMqQH5dPYE_lGm8uAGHI_FgRCcv4ledk?ts=60bca127#response=ACYDBNgw0Qdctx49h_9wCs 7/7



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: DEPA	RTMENT OF ELECTRONIC	S AND COMMUNICATION				
Title of the Open Co		Applied Embedded systems and IoT				
Targeted Students f	rom Branches	ECE/ETE/EEE/CSE/ISE				
Registration Fee		200/-				
No. of students atte	nded	39				
Software/Hardware	Tools used	Tinker CAD, Node MCU, Thing				
		Speak, Arduino, RPi, RTOS,				
	e.g.: ppt presentation, chalk	PPT presentation, Simulation, Mini				
& talk, simulation,	videos, project, etc.)	Projects, Hardware				
		demonstration,Write and talk				
	ls (e.g.: Quiz, test, mini-	Quiz.				
project, report subm		D 4 31 D				
Open Course Chief		Dr. Anil kumar D				
Coordinator	Mobile No.	9886216203				
Details (One	Email ID	anilkumard81@bmsit.in				
Point Contact)	Name	D. C.C.M.I.				
Internal		Dr.C S Mala				
Resource Person Details	Designation	Dean Student welfare				
Person Details	Mobile Number Name	9448611588 Dr.Anil kumar D				
	Name	Dr.Anii kumar D				
	Designation	Associate Professor				
	Mobile Number	9886216203				
	Name	Prof. Saneesh C T				
		Associate Professor,				
		9731382840				
		Prof. Dwarakanath G V				
		Assistant Professor				
		9916155597				
External	Name	Mr.Faizan Shukoor				
Resource	Designation	Team Leader				
Person	Company/Organization	Sunsoftronics Systems, Bangalore				
Details	Mobile Number/email-id	+91 9900446647				
(Please use						
additional	PO2 PO5 PO0 PO10	0012				
Curriculum	PO3, PO5, PO9, PO10 and F	7012				
Gaps: (Please indicate the						
gaps in terms of POs/PSOs)						



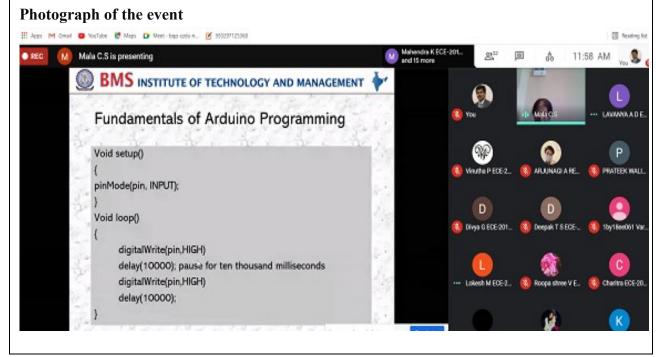
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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Abstract (Brief Details of the open course with less than 250 words)

Embedded systems are vital to modern society. Given that they are purpose-built for specific applications, they enable designs and optimizations that make it possible for us to enjoy the benefits of technology while minimizing cost and power consumption. Without embedded systems, our world would look vastly different than it does today. As technologies and movements like the Internet of Things, Industry 4.0, and "smart" homes & vehicles continue to gain traction, embedded systems will become more and more important. Understanding how embedded devices work and the myriad of applications where they can be used will make you better equipped to understand the world around you and leverage the benefits of embedded systems.

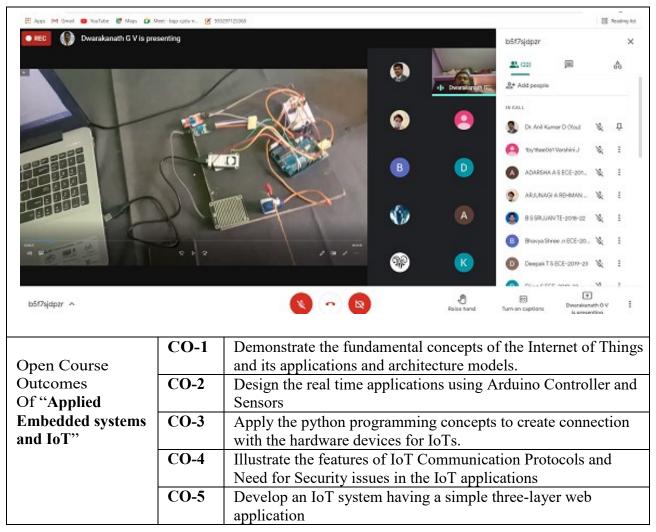




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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021



CO-PO Mapping for open course of "Applied Embedded systems and IoT"

<u>CO-1</u>											ins anu			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1													3	
CO2	3												3	3
CO3		3											3	
CO4			3		3							3	3	
CO5						3			3	3			3	



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OPEN COURSE 2020-2021 (EVEN SEM)

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Feedback from external expert: - NIL-

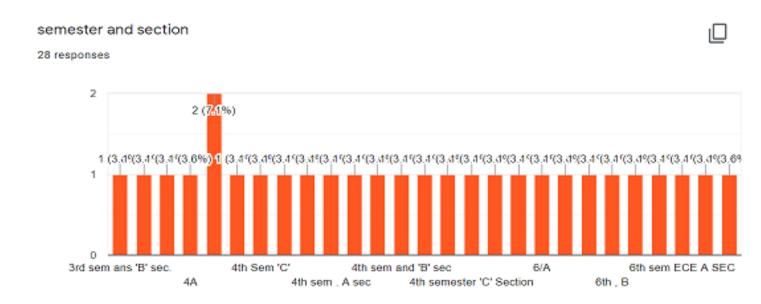
Feedback (critical) from students

- ❖ It was a really good session with lot of improvement in my knowledge, very informative! This type of course should be given a time slot in regular weeks also .
- ❖ The course was well organized with respect to the timings and resource persons. It was informative. The time duration of the course could have been extended to more than 5 days. And more hands on sessions would have been better.

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

- 1. As per the student's suggestion time duration of the open course is extended if it is possible.
- 2. extending hands on sessions, live demo projects.

Sample course feedback form



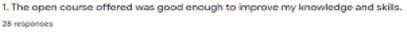
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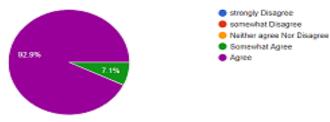
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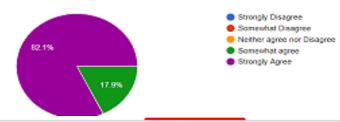
OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

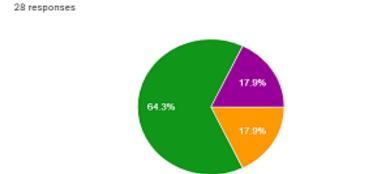




The contents covered in the open course meets the course outcomes defined.
 responses



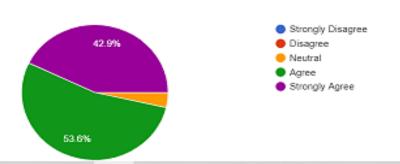
3. The duration of the open course was very appropriate.





 The open course helped me a lot to improve my knowledge that is required for the Industry

28 responses





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OPEN COURSE 2020-2021 (EVEN SEM)

Department: Electron	ics and Communication Engir	neering					
Title of the Open Cou		Cryptocurrencies and the					
1		Technology Behind it!					
Targeted Students from	m Branches	All Branches of Engineering					
Registration Fee		Rs 200					
No. of students attend	ed	62					
Software/Hardware To	ools used	Python, Solidity					
	g.: ppt presentation, chalk &	PPT Presentation, Live Demos,					
talk, simulation, video		Simulation Tools, Videos					
	(e.g.: Quiz, test, mini-	Quiz					
project, report submis							
Open Course Chief	Name	Dr. M. C. HANUMANTHARAJU					
Coordinator	Mobile No.	9742290764					
Details (One	Email ID	mchanumantharaju@bmsit.in					
Point Contact)							
Internal	Name	Dr. M. C. HANUMANTHARAJU					
Resource Person	Designation	Professor					
Details	Mobile Number	9742290764					
External	Name	Mr. Chandra Bhushan					
Resource	Designation	Founder and CEO					
Person	Company/Organization	CBK Infotech India Private Limited,					
Details		Bengaluru					
	Mobile Number/email-id	9632429982					
Curriculum	Engineering Knowledge	, Design and Development, Problem					
Gaps: (Please	Analysis, Modern Tools, Project Management and Finance						
indicate the gaps							
in terms of							
POs/PSOs)							
Abstract	To really understand wl	nat is special about Bitcoin, we need to					
Austract	understand how it work	as at a technical level. We'll address the					
	important questions abou	ut Bitcoin, such as:					
		? What makes Bitcoin different? How					
	•	s? How anonymous are Bitcoin users?					
		ice of Bitcoins? Can cryptocurrencies be					
	regulated? What might t	he future hold?					
	10, 11,						
		know everything you need to be able to					
		n when reading claims about Bitcoin and					
		You'll have the conceptual foundations					
		ecure software that interacts with the					
<u> </u>	Dittom network. And you	u'll be able to integrate ideas from Bitcoin					



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

in your own projects. Photograph of the event: å meet.google.com/zcc-exhv-soq?pli=1&authuser=1 Hanumantharaju M C is presenting 4:20 PM BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT **HOW TO STORE CRYPTOCURRENCIES** Wallet: A cryptocurrency wallets are used to store cryptocurrencies **Desktop Wallet Hardware Wallet** M edge YASHAS D ECE-2018-20. EXODUS CoinPayments **Online Wallet Mobile Wallet Desktop Wallet** 02-06-2020 **†** Raise hand CC Meeting details ^ numantharaju M C is presenting 信 (中) ENG 04:20 PM 03:06-2021 **> 0** CHANDAN U ECE-2018-.. and 13 more 0)28 C Bhushan is presenting Bitcoin and Blockchain ··· C Bhushan Block 51 Block 52 Block 54 H

BMS

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Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Open Course Outcomes Of "Cryptocurrencies	CO-1	Acquire a fundamental understanding of cryptocurrency and e-payment – the basic principles as well as the technical and business aspects;
and the Technology Behind it!"	CO-2	Evaluate cryptocurrency and e-payment systems, applications and protocols;
	CO-3	Design and implement cryptocurrency and e-payment systems/applications.
	CO-4	Identify major research challenges and technical gaps existing between theory and practice in cryptocurrency.

CO-PO Mapping for open course of "Cryptocurrencies and the Technology Behind it!"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	1												
CO2		2											
CO3			3		3								
CO4				1							1		

Feedback from external expert:

- 1. First of its kind these kind of courses was conducted by the academic institution
- 2. The open course was new and enlightened all students with theory and practical's

Feedback (critical) from students:

- 1. Wonderful course we loved it .teachers have done a great job thank you
- 2. Now its our job to do incessant research on crypto, as many of them are novice in this thing, so rest all is incumbent upon us that we shouldn't be immured to just limited currency, its now time to explore virtual currency...At last i must say Thank You SIR! It was very informative.

Feedback from External participants (if any): -Nil-

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

- 1. More number of open course in this direction
- 2. Longer duration is better



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Sample course feedback form

/7/2021	Cryptocurrencies and the Technology Feedback - Google Forms
	1. The open course offered was good enough to improve my knowledge and skills. *
	Strongly Disagree
	○ Somewhat Disagree
	Neither Agree nor Disagree
	○ Somewhat Agree
	Strongly Agree
	2. The contents covered in the open course meets the course outcomes defined. *
	Strongly Disagree
	O Somewhat Disagree
	Neither Agree nor Disagree
	O Somewhat Agree
	Strongly Agree

https://docs.google.com/forms/d/1ePaSsRjSXecUQznq3kf1D2KNA2qXqQyHTMjkF1dRTXc/edit#response=ACYDBNjOAjo6EdbjJ6TCMBoF6J_6DhD5F-LpQZMTA2LChJLszlBJ-EFaXw6si9d4ww



6/7/2021

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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

	Cryptocurrencies and the Technology Feedback - Google Forms	
3. Th	ne duration of the open course was very appropriate.*	
0	Strongly Disagree	
0	Somewhat Disagree	
0	Neither Agree nor Disagree	
0	Somewhat Agree	
•	Strongly Agree	
	he open course helped me a lot to improve my knowledge and skills that are required for the listry *	
0	Strongly Disagree	
0	Somewhat Disagree	
0	Neither Agree nor Disagree	
0	Somewhat Agree	
	Somewhat Agree Strongly Agree	
•		S-Braner
•	Strongly Agree QSXecuQznq3M1DZKNAZqXqQyHTMjkF1dRTXc/ediffresponse~ACYDBNjQAjo6EdhjJ6TCMBoF6J_6DhD5F-LpQZMTAZLChJLsziBJ-EFaXw6sBd	
•	Strongly Agree RISXecUQznq3kf1D2kNA2qXqQyHTMjkF1dRTXc/edit#response**ACYDBNjOAjo6EdhjJ8TCMBoF01_6DnD5F-LpQZMTA2LChJLsziBJ-EFaXw6sBd Cryptocurrencies and the Technology Feedback - Google Forms 5. The contents of the open course were properly framed in accordance with the In	
•	Strongly Agree RISXecuQznq3kf1D2KNA2qXqQyHTMjkF1dRTXc/editinesponse**ACYDBNjOAjo6EdhjJeTCMBoFoJ_6DnD5F-LpQZMTA2LChJLsziBJ-EFaXwosiBd Cryptocurrencies and the Technology Feedback - Google Forms 5. The contents of the open course were properly framed in accordance with the In requirement *	
•	Strongly Agree RISXecUQzrq3M1DZKNAZqXqOyHTMIRF1dRTXc/editiresponse-ACYDBNjOApc6EdtyJ6TCMBoF8J_6DnD0F-LpQZMTAZLChJLsz/BJ-EFAXw6s/Bd Cryptocurrencies and the Technology Feedback - Google Forms 5. The contents of the open course were properly framed in accordance with the In requirement * Strongly Disagree	
•	Strongly Agree RISKecUQznq3M1DZKNAZQXQQyHTMIRF1dRTXc/editinesponse~ACYDBNjOAjc6EdhjJ6TCMBoF5J_6DnD5F-LpQZMTAZLChJJ.sziBJ-EFAXw6siBd Cryptocurrencies and the Technology Feedback - Google Forms 5. The contents of the open course were properly framed in accordance with the In requirement * Strongly Disagree Somewhat Disagree	

6. The resource persons invited to the open course were good enough to cover the topics in depth.
*

Strongly Disagree

O Somewhat Disagree

Neither Agree nor Disagree

Somewhat Agree

Strongly Agree

https://docs.google.com/forms/d/1ePaSsRjSXecUQznq3kf1D2KNA2qXqQyHTMjkF1dRTXc/edit#response=ACYDBNjOAjo6EdbjJ6TCMBoF6J_6DhD5F-LpQZMTA2LChJLsziBJ-EFaXw6sl9d4wn

5/9



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

6/7/2021	Cryptocurrencies and the Technology Feedback - Google Forms
	7. The timing chosen for the open course (just one week after the regular classes) is appropriate. *
	Strongly Disagree
	O Somewhat Disagree
	Neither Agree nor Disagree
	O Somewhat Agree
	Strongly Agree
	8. The open course covered most of the key aspects provided in the course schedule *
	○ Strongly Disagree
	○ Somewhat Disagree
	Neither Agree nor Disagree
	○ Somewhat Agree
	Strongly Agree
https://docs.google.com/forms	kid/1ePaSsRjSXecUQznq3kf1D2KNA2qXqQyHTMjkF1dRTXc/ediffresponse=ACYDBNjOAjo6EdbjJ6TCMBoF6J_6DhD5F-LpQZMTA2LChJLsziBJ-EFaXw8siBd4ww
6/7/2021	Cryptocurrencies and the Technology Feedback - Google Forms
	9. The course helped me to acquire sufficient teamwork, continuous learning, modern tools usage and other skills. *
	Strongly Disagree
	Osomewhat Disagree
	Neither Agree nor Disagree
	O Somewhat Agree
	Strongly Agree
	10. I feel, we need more and more of these kinds of new initiatives, which bring all of us together as

https://docs.google.com/forms/d/1ePaSsRjSXecUQznq3kf1D2KNA2qXqQyHTMjkF1dRTXc/edit#response=ACYDBNjOAjo6EdijJ8TCMB6F6J_6DhD5F-LpQZMTA2LChJLsziBJ-EFaXw6si9d4ww

One Team. *

Strongly Disagree

Somewhat Disagree

Neither Agree nor Disagree

Somewhat Agree

Strongly Agree

/9



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

11. Time management was effective throughout the open course. *

Strongly Disagree
Somewhat Disagree
Neither Agree nor Disagree
Strongly Agree

12. I am more inspired to utilize open course to project-based learning, Industry internship, job opportunity etc. *

Strongly Disagree
Somewhat Disagree
Strongly Disagree
Strongly Disagree
Strongly Disagree
Somewhat Disagree
Somewhat Disagree
Somewhat Disagree
Somewhat Agree
Strongly Agree

https://docs.google.com/forms/d/1ePaSsRjSXecUQznq3kf1D2KNA2qXqQyHTMjkF1dRTXc/edit#response=ACYDBNjOAjo6EdbjJ6TCMBoF6J_6DhD5F-LpQZMTA2LChJLsziBJ-EFaXw6s/8d4ww

8/9

6/7/2021

Cryptocurrencies and the Technology Feedback - Google Forms

13. My suggestions to improve these open courses in future: *

More basic knowledge about crypto for those who don't know about it would be better

14. My other comments: *

Wonderful course we loved it .teachers have done a great job thank you

Submitted 05/06/2021, 15:30



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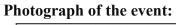
OPEN COURSE 2020-2021 (EVEN SEM)

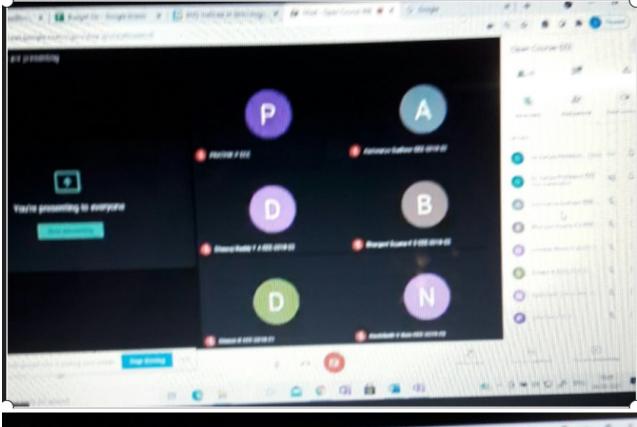
Department: Electrical:	and Electronics Engineering	
Title of the Open Cour		Application of Multilevel Inverters
Targeted Students from	m Branches	EEE, ECE, CSE, ISE, ETE
Registration Fee		Rs. 100/-
No. of students attende	ed	11
Software/Hardware To	ools used	Laptop, Mobile, MSOFFICE
Delivery Methods (e.g	g.: ppt presentation, chalk	Power point, Digital writing pad
& talk, simulation, vic	leos, project, etc.)	(Onenote), Youtube videos.
Assessment Methods	(e.g.: Quiz, test, mini-	Quiz
project, report submiss	sion, etc.)	
Open Course Chief	Name	Dr. Sanjay Lakshminarayanan
Coordinator Details	Mobile No.	9148902185
(One Point	Email ID	sanjay.eee@bmsit.in
Contact)		
Internal Resource	Name	Dr. Sanjay Lakshminarayanan
Person Details	Designation	Professor
External	Name	Dr. B. Chandra Sekhar
Resource	Designation	Technical Lead
Person Details	Company/Organization	Tata Consultancy Services Ltd.
	Mobile Number/email-id	chandu.2097@gmail.com
Curriculum Gaps:	Program Outcomes 7-12	are not addressed much.
Abstract	discussions on the PN jun BJTs. The two level in configurations was analyz three phase bridge with chexagonal space vector d shown. The method of ave (SVPWM) was discussed Inverter was analyzed, shown on the base Cascaded-H bridge and flethe videos. Mr. B. Chandrinput converters which are polygonal voltage space vecusing cascaded 2 level invoperate induction motors.	semiconductor devices was touched with ction, working of MOSFETs, IGBTs and everter in half-bridge and full bridge ed. SPWM technique was introduced. The oncept of space vectors was touched. The iagram and the resulting waveforms was raging space vectors in space vector PWM. The three level neutral point clamped lowing its advantages and disadvantages. Iter was also introduced. Youtube videos sics of Multilevel Inverters. The NPC, ying capacitor topologies were covered in a Sekhar from TCS gave a talk on Multilevel inverters. 12-sided ctor based multilevel inverter was derived erters. Scalar control using V/f control to was taught. Some other optimal multilevel mined as give in a recent journal paper.

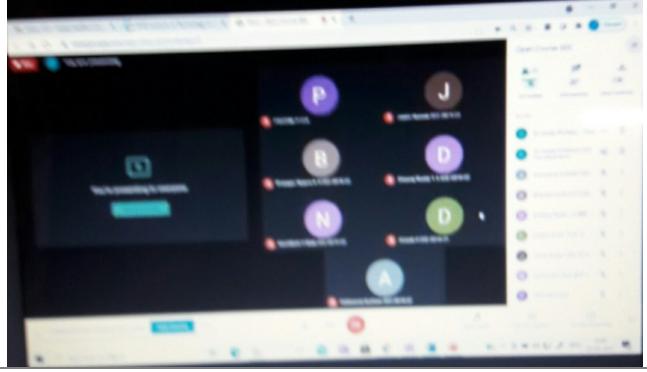


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OPEN COURSE 2020-2021 (EVEN SEM)

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Open Course Outcomes	CO-1	Become familiar with applications of 2-level, single and three phase inverters
Of "Application of Multilevel Inverters"	CO-2	Learn about application and concepts of multilevel inverters such as harmonics, EMC etc.
Withthever inverters	CO-3	Understand "NPC" and cascaded H-bridge topologies.
	CO-4	Learn about cascading two level inverters to get higher level inverters

CO-PO Mapping for open course of "Application of Multilevel Inverters"

								PO11	PSO3
CO1	3	3	2	2	3				
CO2	3	3	2	2	2				
CO3	3	3	2	3	3				
CO4	3	2	2	2	2				

Feedback from external expert: -NIL-

Feedback (critical) from students:

1. Some simulations should be shown.

Feedback from External participants (if any): -NIL-

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

- 1. More documentation (photos) to be done.
- 2. Simulations should be shown.



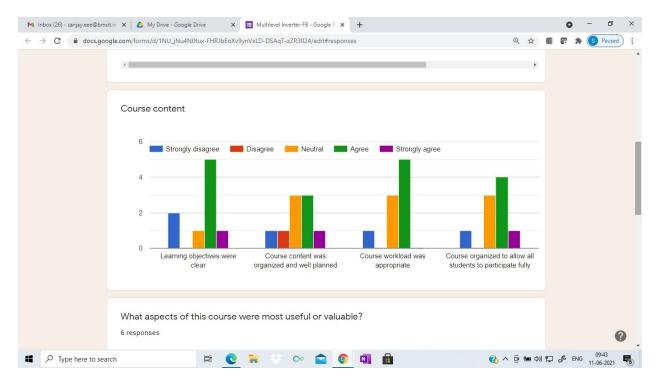
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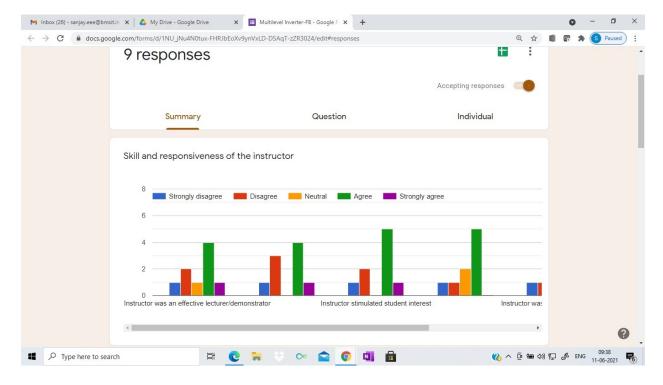
OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Sample course feedback form

See photos for feedback responses.







Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Electr	rical and Electronics Engine	eering					
Title of the Open Co		MATLAB Applications in Electrical					
		Engineering					
Targeted Students from	om Branches	EEE					
Registration Fee		100.00					
No. of students atten	ded	47					
Software/Hardware	Tools used	MATLAB, SIMULINK, SIMSCAPE					
Delivery Methods (e	g.g.: ppt presentation, chalk	PPT Presentation, Simulation, and					
& talk, simulation, v		Projects					
	s (e.g.: Quiz, test, mini-	Quiz, Mini Project, Report making					
project, report submi	ission, etc.)						
Open Course Chief	Name	Dr Prashant A Athavale					
Coordinator	Mobile No.	9448874716					
Details (One	Email ID	prashanth@bmsit.in					
Point Contact)							
Internal	Name	Dr Prashant A Athavale					
Resource	Designation	Asst Professor					
Person Details		9448874716					
	Mobile Number	74100/4/10					
	Name	Vikram Chekuri					
	Designation	Asst Professor					
		9035284177					
	Mobile Number						
	Name	Mr Rajnikanth					
	Designation	Asst professor					
		9964312907					
	Mobile Number						
External	Name						
Resource	Designation						
Person	Company/Organization						
Details	Mobile Number/email-id						
(Please use							
additional	200						
Curriculum	PO 5: Modern Tool Usage						
Gaps: (Please							
indicate the							
gaps in terms							
of							
POs/PSOs)							

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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Abstract (Brief Details of the open course with less than 250 words)

The MATLAB Application in Electrical Engineering was a specifically designed Open Course for the 4th and 6th Sem E&EE students. This course made use of the present pandemic driven situation of non-accessibility to the hardware components to both the students and the faculty. The entire course was delivered online with ample emphasis on the simulation of varieties of electrical concepts like filters, controllers and circuits. To make the most out of it, the students were given a detailed introduction to the basic MATLAB coding, and the SIMULINK in the first few sessions of the course. Gradually the concepts related to MATLAB applications were introduced.

The course provided the essential knowledge required to build basic modeling techniques and developing SIMULINK block diagrams in the electrical domain. Participants were provided with a working understanding of system modeling and design validation in SIMULINK/SIMSCAPE. Demonstrated how to analyse and relate the mathematical modeling with physical modeling in a simple RC parallel circuit.

Students were given a detailed introduction to the Control System MATLAB and Simulink: They cover the basics of MATLAB and Simulink and introduce the most common classical and modern control design techniques such as block reduction method, transfer function, PID controller. At the end of the 5 day course a quiz was conducted for 30 marks, covering most of the concepts taught during the Open Course. The participants were also given 3 mini problems, for which each student is required to submit a solution to any one of the problem. A feedback on various aspects about the open course has been taken.

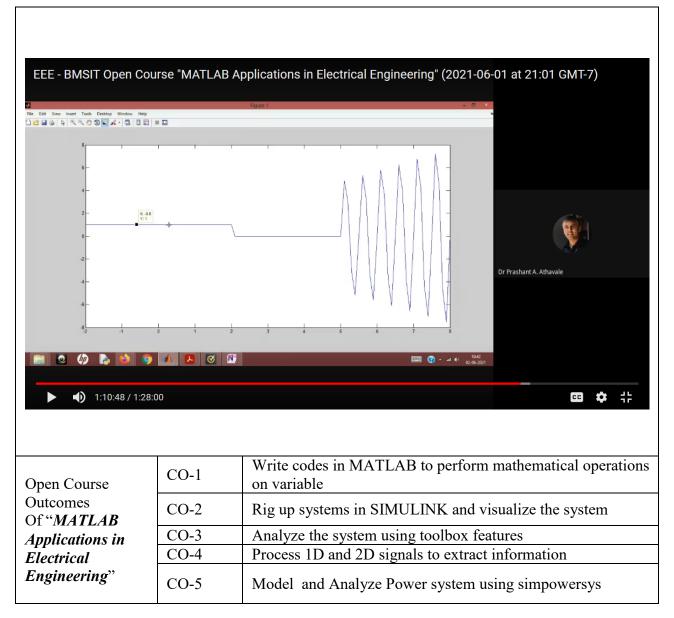
Photograph of the event: M Every day requir X Den course at X Open Course E X Registration De X BMSIT ··· ☑ ☆ Q Search 🛈 🖴 🔩 https://meet.google.com/ftz-acni-svo <u>√</u> ||\ □ • ≡ Vikram Chekuri is presenting 23 2:01 PM You ▲ MathWorks® Products Vikram Chekuri **Get MATLAB** Try MATLAB **Get Campus Buy Now** Software to MATLAB through your school + CC Meeting details ^ Vikram Chekuri Raise hand Turn on captions is presenting



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021



CO-PO Mapping for open course of "MATLAB Applications in Electrical Engineering"

								PO10	PO11	PSO3
CO1	2	2	3	3	3					
CO2		2	2	3	3					
СОЗ		2	2	3	3					
CO4	2	3	3	3	3					
CO5	3	3	3	3	3					



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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

Feedback from external expert: -NIL-

Feedback (critical) from students: -NIL-

Feedback from External participants: -NIL-

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

1. Since the Open Courses are required / offered to mitigate the curricular gaps, EEE students must be made to take up the courses from the EEE department itself.

Sample course feedback form (←) → ℃ ๋ https://docs.google.com/forms/d/1sPI1CQmmQv-anVtvQ3ND8mIqeAUqJLjLuHd8P ・・・ ☑ ☆ □ Q Search Open Course Evaluation Form 🗀 🕏 Responses 32 Questions 32 responses Accepting responses Individual Question Summary 6 of 32 > III 1by19ee042@bmsit.in Responses cannot be edited Course Evaluation Form - MATLAB Applications in **Electrical Engineering** Please submit feedback regarding the course you have just completed on "MATLAB Applications in Electrical Engineering", since 1st June, including feedback on course structure, content, and instructor. In case of any difficulty, please contact Dr Prashant A. Athavale (+91 9448874716).



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 (EVEN SEM)

Department: Electro	nics & Telecommunication	engineering					
Title of the Open Co	ourse	Advanced Networking and IOT					
		Applications					
Targeted Students fi	om Branches	ETE,ECE,ISE,ME,EEE,CSE					
Registration Fee		150/-					
No. of students atter	nded	38 (students) + 1 (external) = 39					
Software/Hardware	Tools used	Packet tracer, Wire shark, Turbo C					
Delivery Methods (e	e.g.: ppt presentation,	PPT, Simulation and Projects					
`	tion, videos, project,	,					
etc.)							
Assessment Method	s (e.g.: Quiz, test, mini-	Quiz, Report submission					
project, report subm	ission, etc.)						
Open Course Chief	Name	Prof Saritha I G					
Coordinator	Mobile No.	9916128329					
Details (One	Email ID	Saritha.i.g@bmsit.in					
Point Contact)	Name	Prof. Thejaswini S					
	Mobile No.	9008637144					
	Email ID	Thejaswini.s@bmsit.in					
Internal	Name	Prof Mallikarjuna Gowda					
Resource	Designation	Associate Professor					
Person Details	Mobile Number	9986738339					
(Please use	Name	Prof Sumathi M S					
additional	Designation	Assistant Professor					
rows for	Mobile Number	9036274256					
multiple	Name	Prof Saritha I G					
resource	Designation	Assistant Professor					
persons)	Mobile Number	9916128329					
	Name	Prof Sowmyashree M S					
	Designation	Assistant Professor					
	Mobile Number	9620901561					
	Name	Prof Raghunandan G H					
	Designation	Assistant Professor					
	Mobile Number	9535009317					
External	Name	Dr. Mohammed Riyaz ahmed , , School of					
Resource	Designation	Assistant Director, multidisciplinary					
Person		studies,					
Details	Company/Organization	Reva University					
(Please use	Mobile Number/email-id	9886564566					
additional	Name	Mr. Asuthosh,					
	Designation	Associate Consultant					
	Company/Organization	TCS					
	Mobile Number/email-id	7760982428					
	Name	Mr Abhijith					



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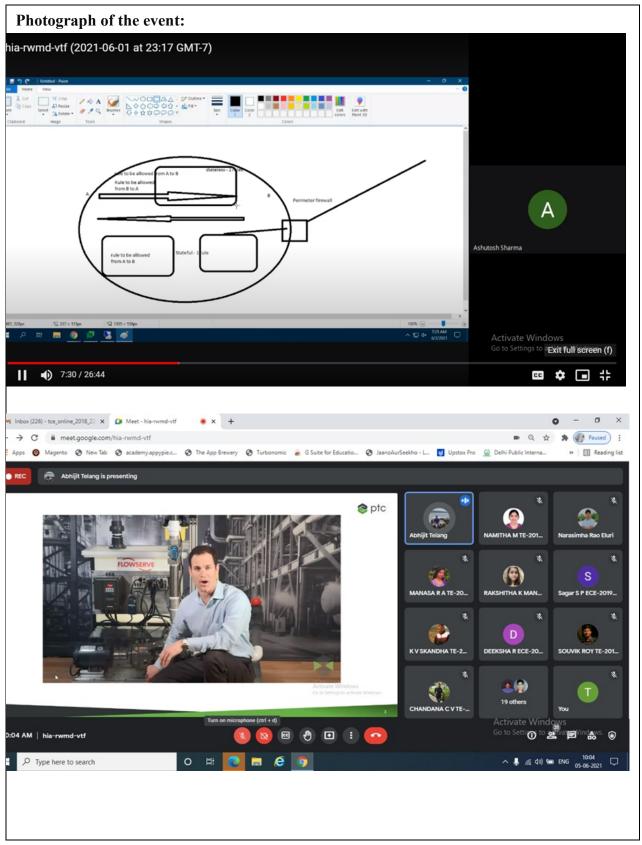
OPEN COURSE 2020-2021 (EVEN SEM)

	Designation	Business Development Manager
	Company/Organization	Softcell Technologies Private Limited
	Mobile Number/email-id	9930172037
	Name	Mr. Abhishek Suresh,
	Designation	Cyber security manager
	Company/Organization	Societal general
	Mobile Number/email-id	9739730801
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)	PO3,5,6,7,9,10,12	
Abstract (Brief Details of the open course with less than 250 words)	through wires, optical fibration interact with each other the network is the sharing of rois a knowledge in the brattalso maps to the parallel	coup of computers connected with each other es or optical links so that various devices can hrough a network. The aim of the computer esources among various devices. Networking in. The network maps to neural connectivity. active network of ideas in the mind. Concept illustration of how the brain works. They also intelligence can be built.
	conceptual connectivity in	k concept is a directed graph representing the brain. The term is analogous to a semantic istics, concept map used in knowledge used as a mnemonic prop.
	running on multicore syst scale data movement on er in networking and the Interphysical objects. "things "tother technologies for the with other devices and sy course is to introduce at applications using various tool boxes and Evolution advances using 5G networking, embedding	tems by harnessing multicore parallelism to and systems in order to improve the efficiency ernet of things (IoT) describes the network of that are embedded with sensors, software, and purpose of connecting and exchanging data stems over the Internet ,the objective of this dvanced concepts of Networking and IOT tool boxes like Packet tracer, Firewalls, IOT of First generations to 4 th generations and its orks. The course imparts knowledge on usage led systems and security tool for IOT also impart concepts of data structure using C OT automations.
		orking model on packet tracer and wire shark standing concepts clearly rather understanding



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OPEN COURSE 2020-2021 (EVEN SEM)





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OPEN COURSE 2020-2021 (EVEN SEM)

June 1-5, 2021

	CO-1	Understand the Concepts of Networking and IOT.
Open Course	CO-2	Apply the knowledge to implement Networking models and
Outcomes		security
Of "Advanced	CO-3	Analyse different tool for implementation of Networking and
Networking and		security.
IOT Applications"	CO-4	Develop a model for societal or environmental applications
		using IOT.
	CO-5	Write a report for the developed model.

CO-PO Mapping for open course of "Advanced Networking and IOT Applications"

1 O 1/1											ОГЛР		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1													
CO2	3												3
CO3		3											3
CO4			2		3	2	2		3			2	3
CO5										3			

Feedback from external expert:

1. External experts were happy to share their knowledge in our open course.

Feedback (critical) from students:

1. More on hands on session with extended duration of open course

Feedback from External participants (if any):

1. Sessions were good enough to cover all the concepts, happy for attending such course during this pandemic situation.

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

- 1. More on inter disciplinary application oriented courses can be planned
- 2. More courses should be offered



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OPEN COURSE 2020-2021 (EVEN SEM)

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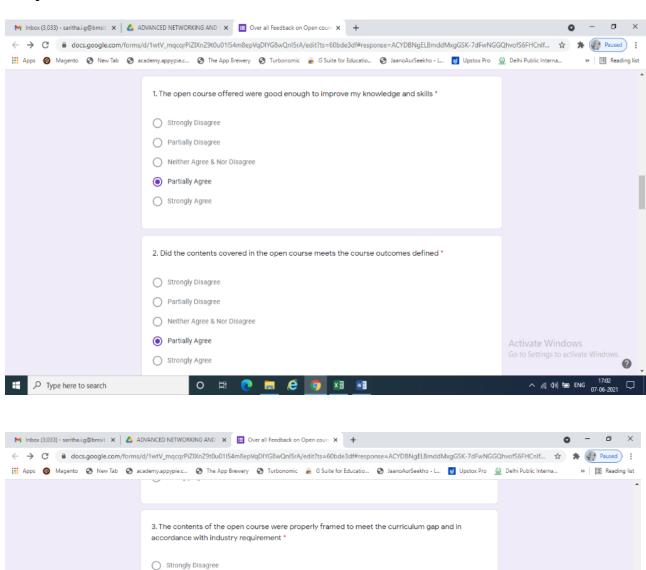
Sample course feedback form

Partially Disagree
 Neither Agree & Nor Disagree

Partially AgreeStrongly Agree

Strongly Disagree
Partially Disagree
Neither Agree & Nor Disagree

Type here to search

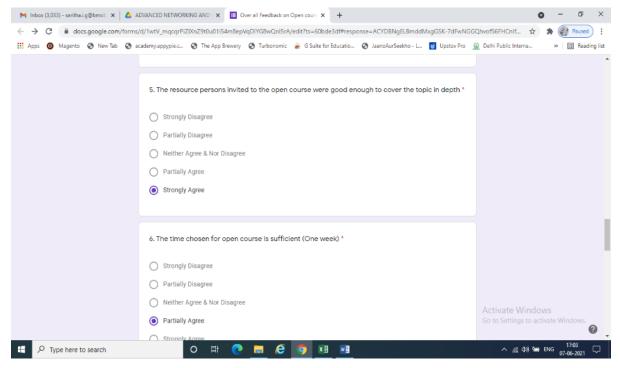


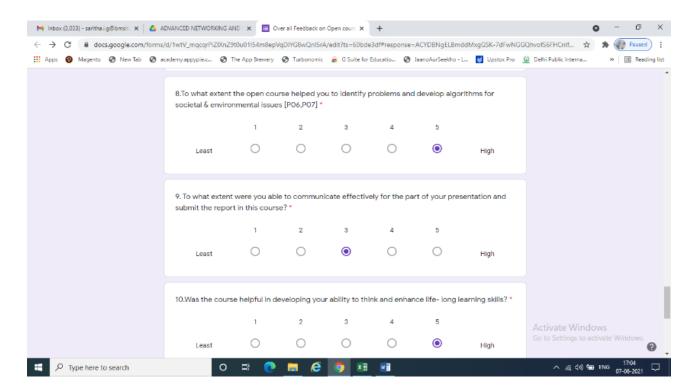
4. The open course helped me to improve my knowledge that is required for the industry *



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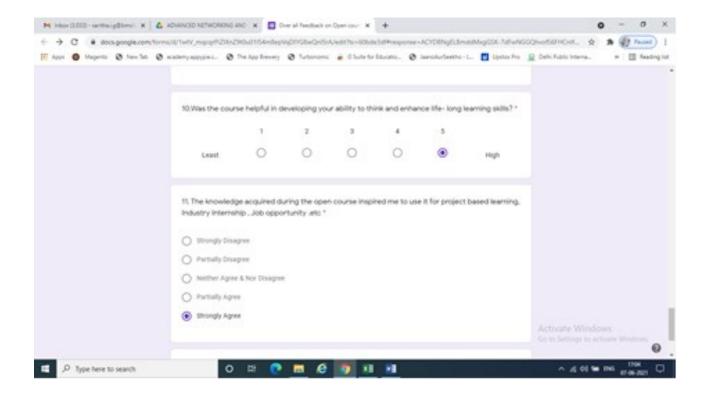






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OPEN COURSE 2020-2021June 1-5, 2021





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 June 1-5, 2021

Department: Electroni	cs & Telecommunication E	Ingineering					
Title of the Open Cour		MATLAB Programming on					
1		Engineering Applications					
Targeted Students from	n Branches	ETE, ECE, CSE, ISE, EEE, MECH,					
		AI&ML					
Registration Fee		Rs. 150/-					
No. of students attended	ed .	40 + 2 [External Participants]					
Software/Hardware To	ools used	MATLAB & Simulink					
Delivery Methods (e.g.	.: ppt presentation, chalk	PPT presentation, Simulation,					
& talk, simulation, vid		project, Videos					
Assessment Methods (e.g.: Quiz, test, mini-	Quiz, Mini-project with report					
project, report submiss		submission					
Open Course Chief	Name	Prof. Thejaswini S					
Coordinator Details	Mobile No.	9008637144					
(One Point	Email ID	Thejaswini.s@bmsit.in					
Contact)	Name	Prof. Saritha I G					
	Mobile No.	99161 28329					
	Email ID	saritha.i.g@bmsit.in					
Internal Resource	Name	Dr. Seema Singh					
Person Details	Designation	Professor & Dean (ER)					
(Please use	Mobile Number	97403 74780					
additional	Name	Prof. Mallikarjuna Gowda					
rows for	Designation	Associate Professor					
multiple	Mobile Number	99867 38339					
resource	Name	Prof. Thejaswini S					
persons)	Designation	Assistant Professor					
	Mobile Number	9008637144					
	Name	Prof. Sowmyashree M S					
	Designation	Assistant Professor					
	Mobile Number	96209 01561					
External	Name	Dr. K M Ravikumar					
Resource	Designation	Director					
Person Details	Company/Organization	Oxford College of Engineering					
(Please use additional	Mobile Number/email-id	98803 73629 /					
		kmravikumar75@gmail.com					
	Name	Prof. Nataya					
	Designation	Assistant Professor					
	Company/Organization	Presidency University					
	Mobile Number/email-id 96329 67325 / natya.aithal@gma						
Curriculum Gaps:	Students got the opportunity to learn developing of Algorithms /						
(Please indicate	S	& SIMULINK software tools which					
the gaps in terms		earning skills by executing the projects					
of POs/PSOs)	individually. PO3,5,6,7,9	7,10,12					



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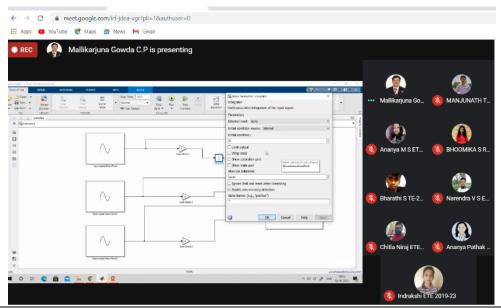
OPEN COURSE 2020-2021June 1-5, 2021

Abstract (Brief Details of the open course with less than 250 words)

The main objective of the course is to inculcate programming fundamentals of MATLAB software tool required for Signal processing. The signal can be 1-D signal for example Bio-signals or 2-D signals such as image. This course is focused on introduction to programming fundamental concepts using **MATLAB** SIMULINK, Various Tool boxes like signal processing, neural network, machine learning and Deep Learning Tool boxes. The course imparts knowledge on usage of MATLAB tools for signal analysis. Analysis of signals includes pre-processing, feature extraction, classification / prediction algorithms. Pre-processing of signals involves designing a suitable filter which will filter out the unwanted signals. In this course designing of filter using signal processing tool box was focused. Feature extraction is a process of dimensionality reduction by which an initial set of raw data is reduced to more manageable groups for processing. Feature extraction involves understanding the signal parameters in various domains like time, frequency and time-frequency domains and extracting the features in these domain. Classification is the process of predicting the class of given data points. Classes are sometimes called as targets/ labels or categories. Classification predictive modeling is the task of approximating a mapping function (f) from input variables (X) to discrete output variables (y).

This open course is designed such that, students will learn basic programming concepts of MATLAB and Simulink. They will be exposed to hands-on sessions on MATLAB inbuilt functions using various tool boxes like Signals processing tool box, neural network tool box, deep learning concepts, Machine Learning application. Using these concepts, student will be able to analyze signals and develop classifiers based on the features extracted.

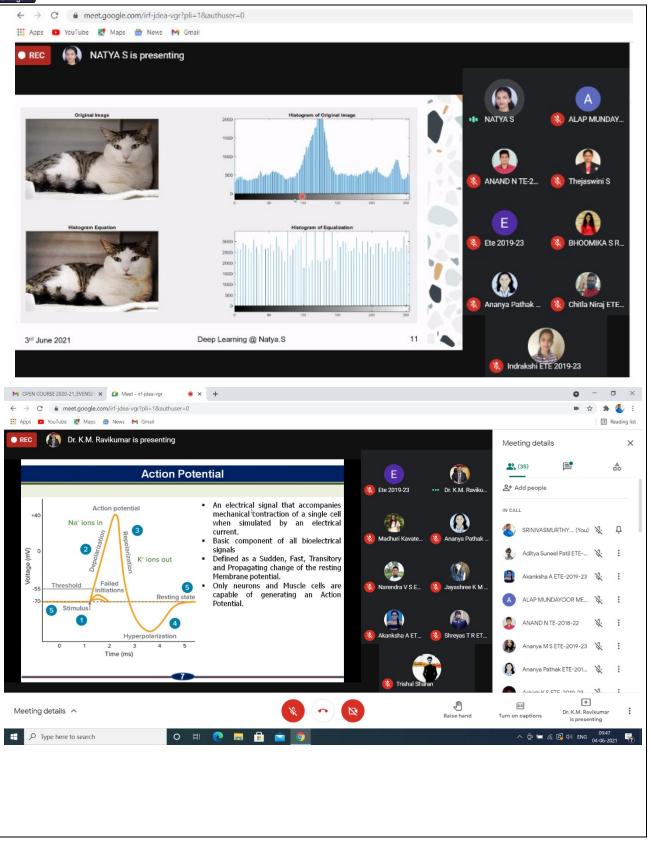
Photograph of the event:





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OPEN COURSE 2020-2021June 1-5, 2021





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

June 1-5, 2021

Open Course	CO-1	Understand the programming fundamentals of MATLAB &
Outcomes		Simulink
Of "MATLAB	CO-2	Apply the knowledge to develop simple code on basic operations.
Programming on Engineering	CO-3	Analyse different tool boxes of MATLAB
Applications"	CO-4	Develop an algorithm for societal or environmental applications
	CO-5	Write a report for the developed algorithm

CO-PO Mapping for open course of "MATLAB Programming on Engineering Applications"

<u> </u>													Hounoin
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO2
CO ₁													
CO ₂	3												3
CO ₃		3											3
CO ₄			2		3	2	2		3			2	3
CO ₅										3			

Feedback from external expert:

- 1. External experts were happy to share their expertise in the course
- 2. They appreciated the conduction of such value added courses

Feedback (critical) from students:

- 1. The only suggestion is if we had more number of days we could have learnt the concepts deeper.
- 2. Though the course was off academic, we didn't feel the burden. It was very informative and I have been excited about the topics dealt and I'll use them in the future properly.
- 3. I seemed, the applications explained by every professor was really interesting

Feedback from External participants (if any):

1. Overall it's nice workshop, please organize workshop on only Deep learning techniques

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

- 1. More on inter disciplinary application oriented courses can be planned
- 2. More courses should be offered



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021June 1-5, 2021

Sample course feedback form

1. The open course offered were good enough to improve my knowledge and skills *
Strongly Disagree
Partially Disagree
Neither Agree & Nor Disagree
O Partially Agree
Strongly Agree
2. Did the contents covered in the open course meets the course outcomes defined *
Strongly Disagree
O Partially Disagree
Neither Agree & Nor Disagree
O Partially Agree
Strongly Agree
The contents of the open course were properly framed to meet the curriculum gap and in accordance with industry requirement *
Strongly Disagree
O Partially Disagree
Neither Agree & Nor Disagree
Pertially Agree
Strongly Agree



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021 June 1-5, 2021

4. The open course helped me to Improve my knowledge that is required for the Industry *
Strongly Disagree
O Partially Disagree
Neither Agree & Nor Disagree
O Partially Agree
Strongly Agree
The resource persons invited to the open course were good enough to cover the topic in depth
Strongly Disagree
O Partially Disagree
Neither Agree & Nor Disegree
O Partially Agree
Strongly Agree
6. The time chosen for open course is sufficient (One week) *
Strongly Disagree
O Partially Disagree
Neither Agree & Nor Disagree
O Partially Agree
Strongly Agree



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021June 1-5, 2021

	7. The open course covered most of key aspects provided in the course schedule *											
	Strongly Disagree											
	O Partially Disagree											
	Neither Agree & Nor Disagree											
	O Partially Agree											
	Strongly Agree											
	8.To what extent t societal & environ				problems and	i develop algo	rithms for					
		1	2	3	4	5						
	Least	0	0	0	0	•	High					
	9. To what extent submit the report			loste effectiv	ely for the pa	rt of your pre	sentation and					
		1	2	3	4	5						
	Least	0	0	0	0	•	High					
	10.Was the course	helpful in de	eveloping you	ur ability to th	Ink and enhan	noe life- long l	earning skills? *					
		1	2	3	4	5						
	Least	0	0	0	0	•	High					
	knowledge acquire g, Industry Internsh				ne to use It f	or project be	sed					
) Str	ongly Disagree											
O Pai	rtially Disagree											
O Ne	ther Agree & Nor Dise	gree										
O Pai	rtielly Agree											
Str	ongly Agree											
	Suggestions * d,The applications ex	plained by evo	ary professor	was really into	eresting							



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

Department: Informatio	n Science and Engineering	
Title of the Open Cours	e	ANDROID Application Development
Targeted Students from	Branches	ISE, CSE, ECE, EEE, MECH, ETE
Registration Fee		CSI Member: Rs 100/-, Non CSI:
		150/-
No. of students attended	1	63
Software/Hardware Too	ols used	Software Tools
Delivery Methods (e.g.:	ppt presentation, chalk	PPt Presentation, simulation using
& talk, simulation, vide	os, project, etc.)	Android Studio, Videos, Project
Assessment Methods (e		Activity based implementation and
project, report submission	on, etc.)	submission
Open Course Chief	Name	Dr. Manjunath T N
Coordinator Details	Mobile No.	9900130748
(One Point Contact)	Email ID	manju.tn@bmsit.in
Internal Resource	Name	Dr. Geeta Patil
Person Details (Please	Designation	Associate Professor
use additional	Mobile Number	9764923424
rows for multiple	Name	Mrs. Shanthi D L
resource persons)	Designation	Assistant Professor
	Mobile Number	9449176450
External Resource	Name	Mr. Ankit Agarwal
Person Details	Designation	Android App Developer
(Please use additional	Company/Organization	Founder of Apps Nesst - Home for
		Software Development
	Mobile Number/email-id	85039 90796
	Name	Mr. Madhu J
	Designation	Senior Software Engineer &
		Freelancer
	Company/Organization	Capgemini
	Mobile Number/email-id	8951797270/
	Name	Mr.Kiran Kumar S
	Designation	Jr. Android Application Developer
	Company/Organization	Parnets Digital Advertisements Pvt.
	N 1 1 N 1 / 1 1 1	Ltd & Freelancer
C : 1 C	Mobile Number/email-id	7624853253
Curriculum Gaps:		ANDROID Studio and programming
(Please indicate the		ls to simulate the working of different
gaps in terms of POs/PSOs)		ed with Hands-on experiments.
rus/rsus)	• The POs mapped	, , , , , , , , , , , , , , , , , , , ,
	PO5,PO6,PO7,PO10,PO	
	• PSO1 is mapped as it in	iciuues



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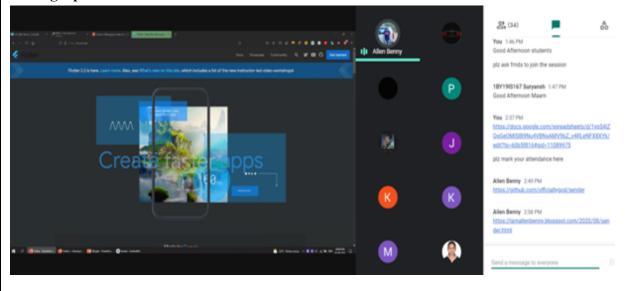
OPEN COURSE 2020-2021

June 1-5, 2021

Abstract (Brief Details of the open course with less than 250 words) ANDROID mobile applications have influenced most of the industries as part of the digital revolution today. It transformed the mobile app market. There is a broad range of Android apps, particularly in the business world. Android app development is the process by which applications are created for devices running the Android operating system. Mobile applications provide different platforms to business and brands. Mobile Apps connect companies directly with users and make better engagement with customers. Mobile apps provide many benefits to companies like better connectivity between user and company, increase user base, better business reach and a major benefit is it makes the brand world popular in minimum time.

Practice of niche technology like ANDRIOD and other helps students to know the industry requirements better. This builds confidence in students to present themselves in placements to get better opportunities. Some students were able to take their learning further to build good projects and setup companies or to work as freelancers.

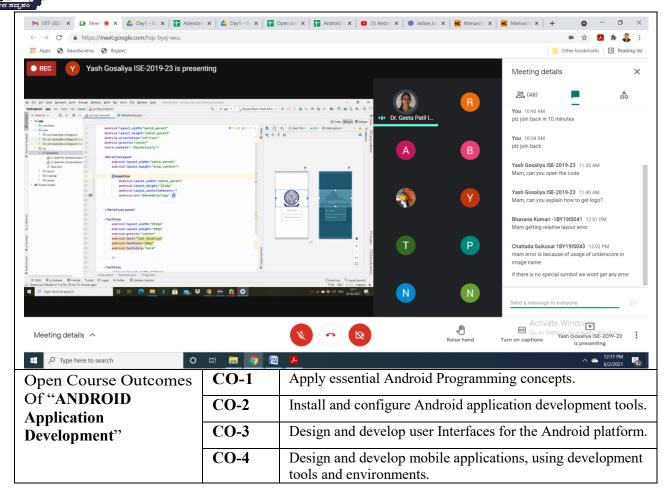
Photograph of the event:



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OPEN COURSE 2020-2021

June 1-5, 2021



CO-PO Mapping for open course of "ANDROID Application Development"

1 0 1	1 o Mapping for open course of the Efforts Tippinearion Development												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
CO1	3												
CO2	3	2											
CO3		2	3		3								
CO4					3	1	2			1	2	2	

Feedback from external expert:

- 1. They enjoyed the session with students.
- 2. More time is required to cover the course in depth.

Feedback (critical) from students:

- 1. Few students expressed that more number of real time projects demonstration.
- 2. Some students expressed more contents in the course

Feedback from External participants (if any): -NIL-



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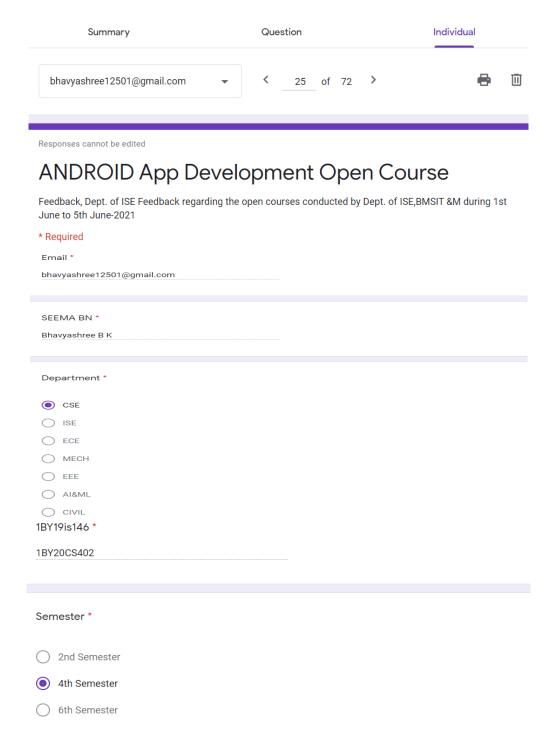
OPEN COURSE 2020-2021

June 1-5, 2021

Corrective methods/suggestions to consider while conducting open course next time

- 1. The pace of few sessions were little faster.
- 2. Expressed about the need of some relax time in between to refresh

Sample course feedback form





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

1by19is146@bmsit.in	*				
dipcse2@bmsit.in					
Contribution to learn	iina: *				
	Poor	Fair	Satisfactory	Very Good	Excellent
Mordern skill/tool at the start of course	\circ	0	\circ	0	•
Modern skill/tool gained at end of course	0	0	0	0	•
Application of the skill learned to solve problems in real world	\circ	0	0	0	•
Course content: *					
		Disagree	Neutral		Agree
Learning objectives we clear	ere	0	0		•
Course content was organized and well planned		\circ	0		•
Course workload was appropriate		\circ	0		•
Course organized to al all students to particip fully		\circ	0		•
Hands on session were easy to understand and was useful		0	0		•
The content was presented in an organizmanner	zed	0	0		•



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OPEN COURSE 2020-2021

June 1-5, 2021

Content sharing and evaluation process was motivating to learn more *

YES
NO

Untitled Title

Option 1

What aspects of this course were most useful or valuable? *

Very much useful,I learnt a lot

The session was very good,I'm interested to learn more on this $\,\dots\,$



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OPEN COURSE 2020-2021

Department: Information So	eience and Engineering						
Title of the Open Course		Programming for IT Career					
Targeted Students from Bra	inches	All Branches					
Registration Fee		Rs.150/- (Non CSI) Rs.100/-(CSI)					
No. of students attended	No. of students attended						
Software/Hardware Tools u	Visual studio, HTML, CSS, JS						
Delivery Methods (e.g.: ppt	PPT presentation, Coding						
talk, simulation, videos, pro		, ,					
Assessment Methods (e.g.:		Quiz , Mock Interview					
project, report submission,							
Open Course Chief	Name	Dr.Manjunath T.N					
Coordinator Details (One	Mobile No.	9900130748					
Point Contact)	Email ID	manju.tn@bmsit.in					
Internal Resource Person	Name	Prof.S.Mahalakshmi					
Details (Please use	Designation	Asst Professor					
additional	Mobile Number	8660180443					
rows for multiple resource	Name	Dr.Veena N					
persons)	Designation	Asst Professor					
	Mobile Number	7406699661					
	Name	Prof.Ambika R					
	Designation	Asst Professor					
	Mobile Number	9008610899					
External Resource Person	Name	Mr.Ayush Gupta					
Details	Designation	Associate					
(Please use additional	Company/Organization	PWC					
	Mobile Number/email-id	8181014440					
		/ayushgupta6571@gmail.com					
	Name	Mr.Chethan					
	Designation	Software Developer					
	Company/Organization	AI Myth Inc					
	Mobile Number/email-id	9110466718/chethanjkulkarni@g					
		mail.com					
	Name	Mr.Rahmat Khan					
	Designation	Managing Director					
	Company/Organization	Tecidexa services					
	Mobile Number/email-id	9618901075/					
		rahmatk@hostocron.com					
	Name	Mr.Akash P galgali					
	Designation	Software Developer					
	Company/Organization	Dover Technologies					
	Mobile Number/email-id	8792402686/					
		akashgalagali4@gmail.com					



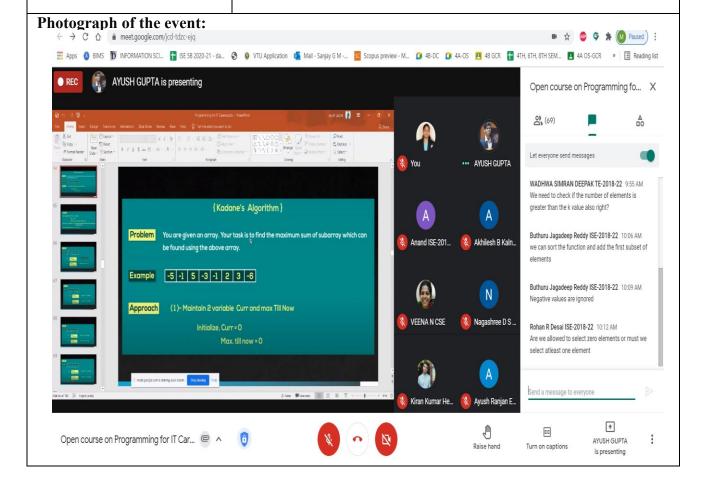
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OPEN COURSE 2020-2021

June 1-5, 2021

POs: 3,5,10,12 Curriculum Gaps: (Please indicate the gaps in terms PSO:1 of POs/PSOs) **Abstract** The knowledge of DSA is tested significantly in the technical hiring process of many companies. This is because the problems that these companies encounter daily are quite huge and complex, and they want to hire smart people who will solve these tasks within minimal time and the least number of resources. Advanced knowledge of Data Structures and Algorithms is a clear indicator of the person's capabilities in solving complex problems in minimal time. In order to face the new market environment which is in constant change, the company must place the customer in the center of its attention. As a result, the company will not follow, first of all, the benefit brought by a certain successful business, but to develop long-term business relationships with the same customers. The integration of Web technologies has an important place into the process of accomplishing companies' objectives to increase the competitiveness degree on the market by generating customers' loyalty. Developing a web-site makes it possible a very good communication with the clients, and this leads, finally, to a constant adaptation of the company's offer to the continuously changing customers'

requests.

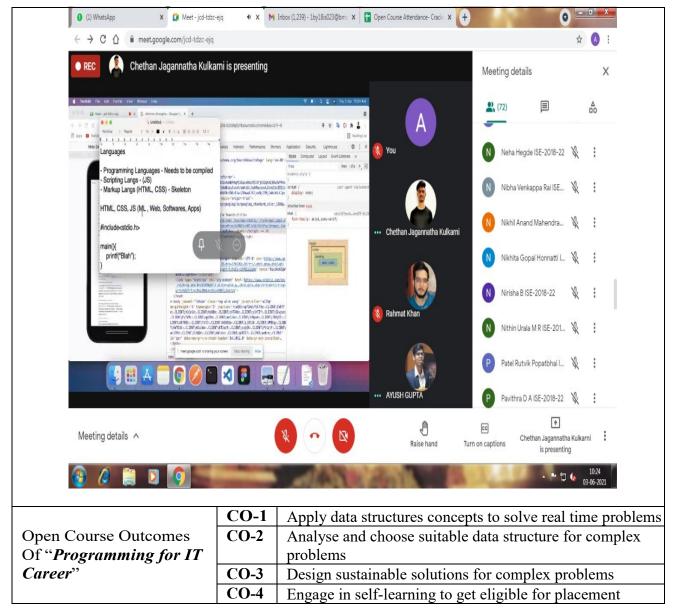




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OPEN COURSE 2020-2021

June 1-5, 2021



CO-PO Mapping for open course of " Programming for IT Career"

	CO-1 O Mapping for open course of Trogramming joi 11 Cureer												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12	PSO
											1		1
CO1	3												
CO2		3											
CO3			3		2								3
CO4										3		3	

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OPEN COURSE 2020-2021

June 1-5, 2021

Feedback from external expert:

- 1. More practical for Core concepts for Placement point of view
- 2. Students were very interactive over the sessions.
- 3. To train students in Data structures, web technologies, AI, data science, Machine Learning, Algorithms, Blockchain, Cloud and Web domain

Feedback (critical) from students:

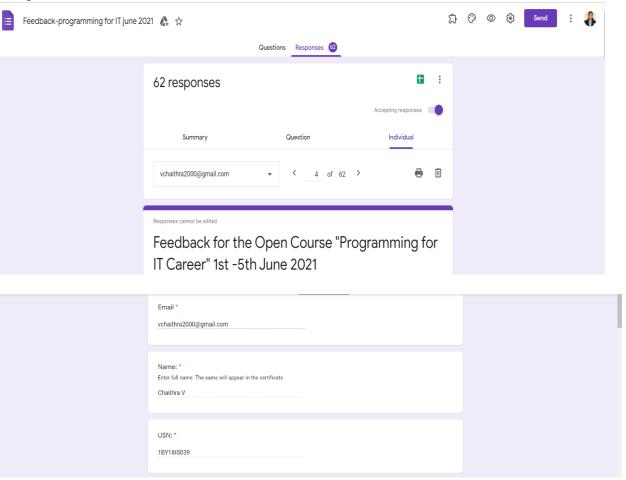
- 1. They thought us most of the concepts, I would like to enhance and work more on that.
- 2. Include algorithms like Dijkstra's, bellman ford. Other placement related topics like deadlock os etc instead of web development session
- 3. The course was taken very well. It would have been better if we also could attempt an aptitude test.

Feedback from External participants (if any): -NIL-

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

- 1. Add other important subjects required for placements like OS, CNS, DBMS
- 2. Giving resources/materials for the preparation for the entire Placement preparation (aptitude, technical interview, coding, hr interview) would also benefit all of us

Sample course feedback form





Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

Department: *							
Information Science and	d Engineering	*					
Semester: *							
4th 6th							
Official Mail-id: * Enter proper Mail-ID. Certificat 1by18is039@bmsit.in	e will be mailer	d to the same Mail-II).				
Contribution to learni	ng: *	Fair	Catinfactory	Very good	Excellent		
Modern skill/tool at the start of course	0	0	Satisfactory	O O	O		
Modern skill/tool gained at the end of course	0	•	0	0	0		
Application of the skill learned to solve problems in real world	0	•	0	0	0		
		_					
Course Content *	D	isagree	Neutral	Agr	ee ee		
Learning objectives were clear		0	•)		
Course content was organized and well planned		0	0	•)		
Course workload was appropriate		0	•	C)		
Course organized to allow all students to participate fully		0	0	•)		
What aspects of this cou	inee ware ***	oot usoful or ve	luable?*				
Data structure concepts rev		ost useful of Va	idable:				



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How would you improve this course? *	
They thought us most of the concepts,I would like to enhance and work more on that.	
It helps you to prepare for your placements *	
Yes	
○ No	
How was your level of understanding towards the concepts *	
C Excellent	
Very good	
Good	
○ Fair	
Have you able to analyse conceptual problems *	
C Excellent	
Very good	
⊚ Good	
Fair	
O Poor	
, FUI	
Have you able to Design code for given problems *	
C Excellent	
○ Very good	
⊚ Good	
Fair	
O Paor	
Have you able to Communicate well in the Mock Placements? *	
O 5 11 1	
C Excellent	
○ Very good	
● Good	
○ Fair	
OPoor	
What are the software tools u learned in the course to code? (Hint: HTML, CSS, Visual Studio) *	
Ds concepts, html,css,oops	
What are the suggestions given by the expert in the mock placement to improve yourself *	
None	



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OPEN COURSE 2020-2021

Department: Inform	nation Science and Engineer	ring				
Title of the Open Cor		Internet of Things with Hands-On				
Targeted Students fro	om Branches	ECE, TE, EEE				
Registration Fee		150/				
No. of students attend	ded	44				
Software/Hardware 7	Tools used	Arduino Simulation -Tinker CAD				
Delivery Methods (e.	g.: ppt presentation, chalk	Simulation, PPT				
& talk, simulation, vi	O 11 1	,				
Assessment Methods	(e.g.: Quiz, test, mini-	QUIZ, Presentation				
project, report submi	ssion, etc.)					
Open Course Chief	Name	Dr. Surekha K.B.				
Coordinator Details	Mobile No.	9035757671				
(One Point	Email ID	surekhakb@bmsit.in				
Contact)						
Internal Resource	Name	Dr. Surekha K.B.				
Person Details	Designation	Associate Professor				
(Please use		9035757671				
additional	Mobile Number					
rows for multiple	Name	Dr. Narasimha Murthy M.S.				
resource persons)	Designation	Assistant Professor				
		9480013001				
	Mobile Number					
	Name	Dr. Shridhar Sanshi Assistant Professor				
	Designation					
		80952 02962				
	Mobile Number					
External Resource	Name	Mr. Rohit Japgal				
Person Details	Designation	Software Technologist				
(Please use	Company/Organization	PHILIPS Innovation Technologist				
additional	Mobile Number/email-id	97399 99464/surya.japs@gmail.com				
Curriculum Gaps:	Curriculum gaps address	sed PO5, PO6,PO12				
(Please indicate the						
gaps in terms of						
POs/PSOs)						
Abstract (Brief		ourse was to introduce the new technology onstrate some hands-on session on IoT.				
Details of the open		ch was handled by Dr Surekha K.B. The				
course with less		arrated to the students. How the evolution				
than 250 words)		pened from the days where the availability				
		also discussed in the session. Architecture				
		nples on IoT was discussed. Students				
		he questions on one particular example				
		unication". Structure of the IoT and Why ar technology in the coming days was also				
		challenges in IoT, protocols used in IoT				
	was also discussed.					



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OPEN COURSE 2020-2021

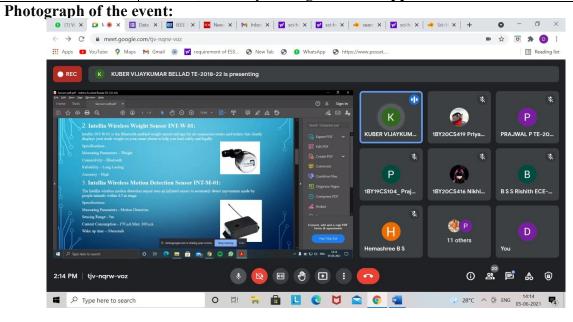
June 1-5, 2021

In the next session Dr Narasimha Murthy, explained the topics "Overview of Sensors, Analog and Digital Sensors". The session was started with couple of questions on fundamentals of IoT, further the brief idea about IoT and its requirement in today's modern life was highlighted. Sensors, its types, and need of sensors in every IoT application was discussed. Adding to the above the discussion was also made on some real time applications of IoT in creating smart home, smart office etc., and the types of sensors

Further sessions, Dr. Shridhar Sanshi gave a hands-on session on using of online simulator tinkercad. Explained how to develop a sketch and design a circuit. Explained working principles of various sensors such as temperature, Photoresistor, servo motor, potentiometer, soil moisture, PIR sensor. Hands-on sessions on interfacing these sensors to Arduino were demonstrated. He also demonstrated the experiments using ultrasonic sensors, controlling DC Motor which can be used in real-time applications. Mr. Anirudh working as a Software Engineer working at Mindtree demonstrated the experiments on the real Arduino board.

The last two days session were handled by Mr. Rohit Japgal, Software Technologist, PHILIPS Innovative Campus. Mr. Rohit Japgal is currently working on Real Time Projects on IOT. He gave the introduction about the Cloud Technology and services of the cloud. He also familiarized the students with various cloud platforms used for IoT. He also explained how to make use of the cloud services in IoT. He introduced Heraku Cloud platform to the students. He also took one example of how the sensed information can be uploaded to cloud. He concluded his session with some applications like automobile Industry and Home automation system. In detail, he demonstrated, how IoT sensor collected data can be processed in cloud.

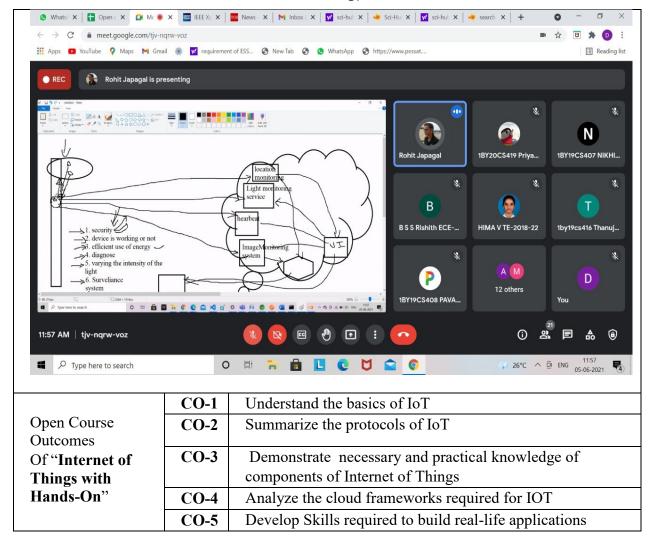
The concluding session students made outstanding presentation on variety of sensors used in different applications, like automobile, health, industry and agricultural applications.



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OPEN COURSE 2020-2021

June 1-5, 2021



CO-PO Manning for onen course of "Internet of Things_Hands On"

CO-PC	CO-PO Mapping for open course of "Internet of Things-Hands On												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO	PO	PO	
										10	11	12	
CO1	1												
CO2	2												
CO3					3							3	
CO4		3				2						2	
			3		3	3						2	

Feedback from external expert: -NIL-

Feedback (critical) from students:

- 1. Instead of presenting ppts we can go through a mini project. This improves our project skills
- 2.By using further new technology

Feedback from External participants (if any): -NIL-



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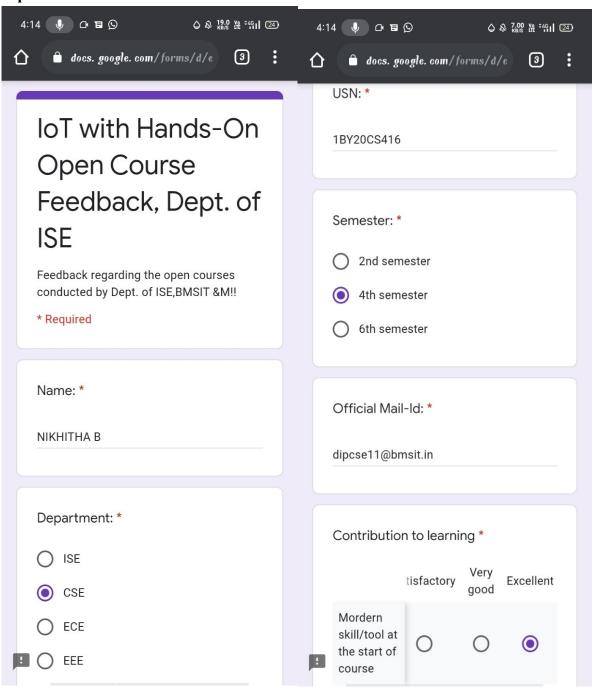
OPEN COURSE 2020-2021

June 1-5, 2021

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

- 1.As a part of the assignment, project can be developed from the students.
- 2.Introducing more Hands-on session compared to Theoretical sessions.

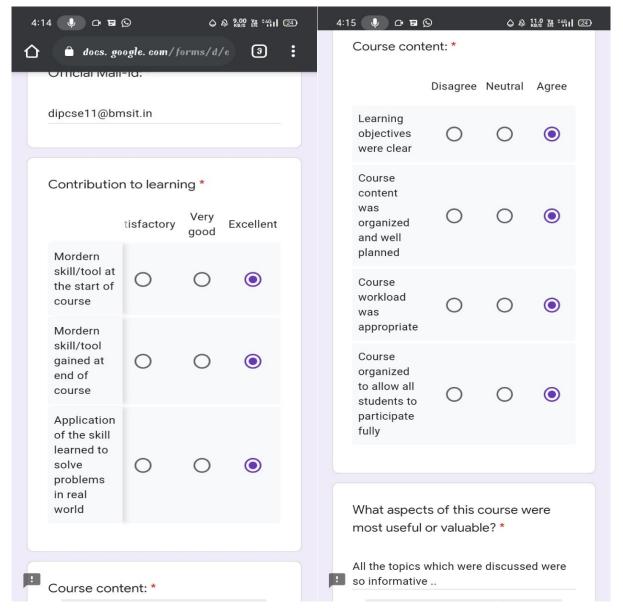
Sample course feedback form





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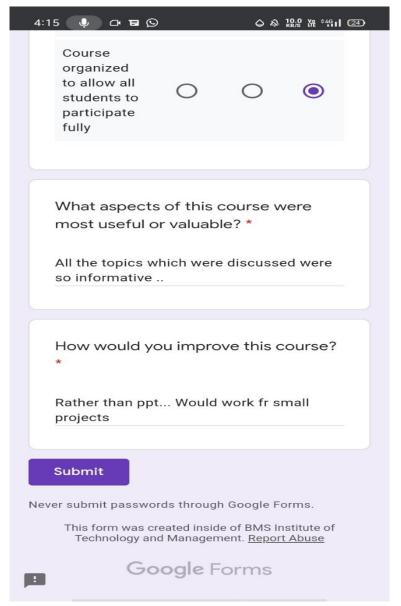
OPEN COURSE 2020-2021





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OPEN COURSE 2020-2021





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OPEN COURSE 2020-2021

Department: Informa	tion Science and Engineeri	ng
Title of the Open Cou	urse	Robotics with Artificial Intelligence
Targeted Students fro	om Branches	60
Registration Fee		100/150
No. of students attend	ded	60
Software/Hardware 7	Tools used	Google meet, google classroom,
		Microcontroller, Robot
Delivery Methods (e.	g.: ppt presentation,	PPT presentation, talks,
chalk &		simulation, videos, project
talk, simulation, vide		
	(e.g.: Quiz, test, mini-	Quiz
project, report submis		
Open Course Chief	Name	Dr.Sheela Kathavate
Coordinator Details	Mobile No.	9880303975
(One Point Contact)	Email ID	sheela@bmsit.in
Internal Resource	Name	Prof. Praveen Kumar
Person Details	Designation	Associate Professor, Dept. of
(Please use		Mechanical Eng.
additional	Mobile Number	8105551352
rows for multiple	Name	Dr. Rudresh Shirwaikar
resource persons)	Designation	Asst. Prof., Dept. of ISE
	Mobile Number	Mob: 9823014550
	Name	Ms. Shreya Basavaraj
	Designation	Student
	Mobile Number	
	Name	Ms. Shashvathi G
	Designation	Student
	Mobile Number	
	Name	Ms. Shrushti
	Designation	Student
	Mobile Number	
External Resource	Name	Ms. Sunaya Shirodkar
Person Details	Designation	Founder-Director
(Please use	Company/Organization	ASIER Solutions
additional	Mobile Number/email-id	9049110210
		/asiercreativity@gmail.com
	Name	Mr. Ketan Naik
	Designation	Project Head
	Company/Organization	ASIER Solutions
	Mobile Number/email-id	8805509675/asiercreativity@gmail.co
		m
	Name	Mr. Susmit Agrawal
	Designation	Project assistant
	Company/Organization	IISc
	Mobile Number/email-id	9731594250/ susmit600@gmail.com



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

	Name Dr. Aditya Saxena							
	Designation Assistant Professor							
	Company/Organization Presidency University							
	Mobile Number/email-id adityasaxena@presidencyuniversity.in							
Cumioulum Cons								
Curriculum Gaps:	Modern tool usage							
(Please indicate the	Ability to design and build hardware products							
gaps in terms of POs/PSOs)	Demonstrating the ability to work in team and communication							
Abstract	Artificial intelligence and robotics are bringing drastic changes in the technological fields. Things we only imagined twenty years back have now become a reality. From automated systems at a manufacturing plant to self-serving robots in a restaurant, technology has evolved, driving humans together. In Today's world, AI and robots serve people as problem-solvers, companions, and first-responders. Technology has evolved for good, and it is not going to stop here. This open course focusses on the basics of Artificial Intelligence, Robotics and Arduino Programming with hands on sessions. The course started with the introduction of external resource members, faculty and student coordinators. The first session discussed the basics of ML along with examples and we made our own training model using Google teachable machine. The rest of the day was spent discussing the various electrical components starting from the basics such as resistors, capacitors, transistors etc. to the more advanced components such as microcontrollers including various examples such as Arduino, these components were then demonstrated using tinkercad software along with a basic blinker program. The next day was centered on the concepts of IOT. This included the specific hardware such as sensors, motors, NODEMCU ESP8266 board. The programming of NODEMCU was done using Blynk app. The next two sessions were spent integrating the NODEMCU with web services such as Adafruit IO and IFTTT. The last session was spent utilizing the real IO devices such as sensors and servos. The next day was spent working on first working robot, this started with the construction and working of first working robot, this started with the construction and working of the LM298N motor driver. Various types of motors such as stepper motors, servos, brushless de motors, etc. were explained. The next two sessions were spent discussing and constructing a basic line follower bot along with the code implementation and this was a practical session with the actual bot running in the							

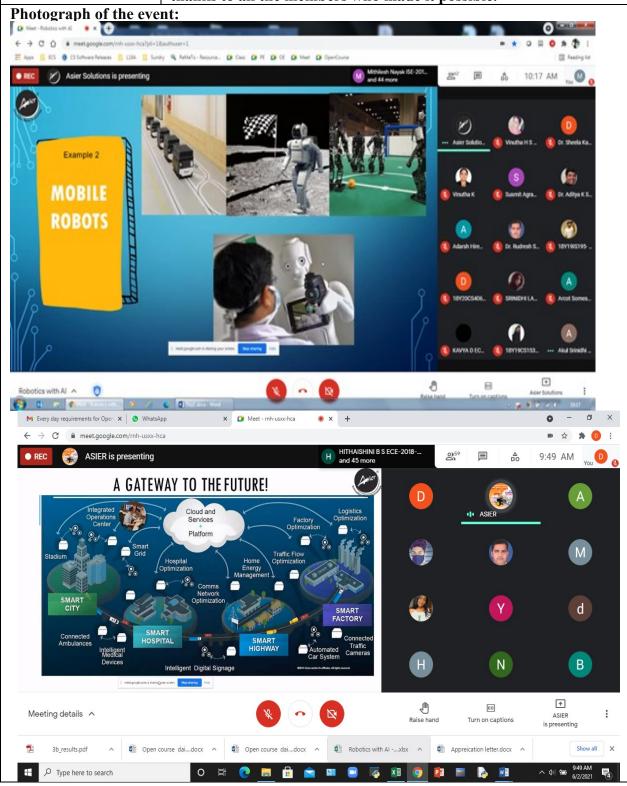


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OPEN COURSE 2020-2021

June 1-5, 2021

case study was presented by the students of 4th semester regarding their project on waste management using ML to determine whether the waste is recyclable or non-recyclable. The afternoon session of the 5th day was a quiz to the participants and feedback sessions. Hence, the course came to an end with a formal thanks to all the members who made it possible.



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BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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OPEN COURSE 2020-2021

June 1-5, 2021

Open Course	CO-1	Apply the concepts of Microcontroller, IOT and Robot
Outcomes		programming to solve real world problems
Of "Robotics with	CO-2	Will be able to select, and apply appropriate techniques,
Artificial		resources, and IT tools for robotics applications.
Intelligence"	CO-3	Demonstrate the ability to build projects using hardware-
		software co-design.

CO-PO Mapping for open course of "Robotics with Artificial Intelligence"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO3
CO1	Y												
	7 1												
CO2					X								
CO3									X				

Feedback from external expert:

External resource persons appreciated the way the open course was conducted.

They felt that the sessions would be more useful if they are conducted offline as students would be able to understand well.

Feedback (critical) from students:

Students felt that that the resource persons were good

The contents were good and they could understand the practical concepts well as the resource persons explained it well

Arduino and microcontrollers to machine learning and AI was very well explained

Feedback from External participants (if any):

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

- 1. Sessions have to be offline
- 2. The duration was long for online sessions



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

June 1-5, 2021

Sample course feedback form

Name: *	/
Abhay M Pamadi	
Add individual feedback	
Department: *	/ (
○ CSE	
○ ECE	
○ EEE	
○ ME	
○ AI &ML	
CIVIL	



Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

USN: *						/ 0
1BY19IS004						
Add individual feed	lback					
Semester: *						/ 0
2nd sem						
4th sem						
6th sem						
Add individual feed	lback					
Official Mail-Id: * 1by19is004@bmsit.						/ 0
Add individual feed	lback					
Contribution to le	earning: *					
	Poor	Fair	Satisfactory	Very good	Excellent	Score
Mordern skill/tool at the start of course	0	\circ	\circ	0	•	/ 0
Mordern skill/tool gained at end of course	0	\circ	0	0	•	/ 0
Application of the skill learned to solve problems	0	0	0	\circ	•	/ 0
in real world						



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Course content: *							
	Disagree	Neutral	Agree	Score			
Learning objectives were clear	\circ	\circ	•	/ 0			
Course content was organized and well planned	\circ	\circ	•	/ 0			
Course workload was appropriate	\circ	\circ	•	/ 0			
Course organized to allow all students to participate fully	\circ	\circ	•	/ 0			
What aspects of this co				/0			
All the aspects of the cour explained.	se right from Arduin	o and microcontrollers t	o machine learning a	nd AI was very well			
Add individual feedback							
How would you improve this course? */ 0							
None							
Add individual feedback							



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OPEN COURSE 2020-2021

Department: INFORMATION SCIENCE AND ENGINEERING							
Title of the Open Co		Data Science Using Python					
Targeted Students fr	om Branches	60					
Registration Fee		9000					
No. of students atten	ded	60					
Software/Hardware		Jupiter Notebook, Spyder editor for					
		python, Kaggle for dataset					
Delivery Methods (e	e.g.: ppt presentation,	Power point presentation, Videos					
chalk & talk, simular	tion, videos, project,	related to Data Science, Hands-On					
etc.)		session through Spyder, Jupiter					
		Notebook and Google Collab, Mini					
A (3.5.4.1.1	(0 : 4 : : :	projects.					
	s (e.g.: Quiz, test, mini-	Mini project, Problem statements, and					
project, report submi	· ·	report submission in GCR					
Open Course Chief		Dr. Manjunath T. N					
Coordinator Details	Mobile No.	+91 99001 30748					
(One Point Contact)	Email ID	manju.tn@bmsit.in					
Internal Resource	Name	Dr. Pushpa S. K					
Person Details	Designation	HOD of ISE Department					
(Please use	Mobile Number	+91 94492 26987					
additional	Name	Dr. Manjunath T. N					
rows for multiple	Designation	Professor					
resource persons)	Mobile Number	+91 99001 30748					
	Name	Prof. Gireesh Babu C. N					
	Designation	Professor					
	Mobile Number	+91 99025 77161					
	Name	Prof. Chandra Shekar K. T					
	Designation	Professor					
	Mobile Number	+91 97413 20283					
Internal Resource	Name	Mr. Adarsh Hiremath					
Persons -Students	Designation	Student					
Details	Company/Organizatio	BMSIT & M					
(Please use	n Mobile Number/email-	101 02002 75140					
additional	id Number/email-	+91 93802 75140					
rows for multiple	Name	Mr. B. E Abhijeet					
resource persons)	Designation	Student Student					
	Company/Organizatio	BMSIT & M					
	n	DIVERSE W. IVI					
	Mobile	+91 83105 63466					
	Number/email-id						
	Name	Mr. Karan Venkatesh Upamanyu					
	Designation	Student					
	Company/Organizatio	BMSIT & M					
	Mobile Number/email-	+91 87224 55577					

OF TECHNOLOGY SECOND STREET S

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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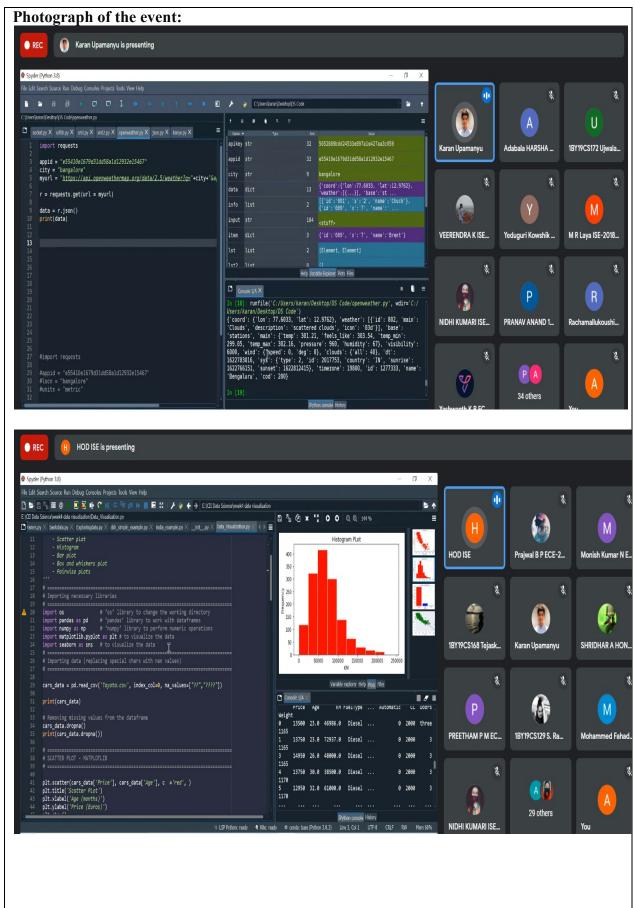
OPEN COURSE 2020-2021

	id
C	
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)	PO-3, PO-4, PO-6, PO-7, PO-8, PO-9, PO-10, PO-12
Abstract	The Open Course was based on Data Science Using Python, conducted by Dept. Of ISE. The Course covered the basics of Python and some aspects of Data Science. The course was started with the introduction to Data Science and how to shape data into analytics. Introduction to python and its components such as Variables, expressions and statements, Conditional Execution, Functions, Loops and iterations, Strings, Files - open data files on your computer and read through the files using Python was explained in detail. Data Manipulation with Lists, Usage of Dictionaries in Python, Data Handling using Tuples, Regular Expressions to handle patterns in strings and extract data from strings using the regular expression programming language, Network programming (How data moves across the network using the Hyper Text Transport Protocol (HTTP)), How we write programs to read data across the network was executed and explained simultaneously. Few other topics that are important to pursue data science was explained, concepts like Data Visualization- To scrape data from the database to produce in browser visualization of the data from the database to produce in browser visualization of the data, Applying different Technique of Correlation & Regression on the Data set using Python, Applying Uni variate/Bi variate / Multi variate, Regression Modelling, Introduction to Advanced Regression Tree, Understanding the Data set and Applying Machine learning models Cluster /Classification model from machine learning philosophy, by understanding the data set was explained by executing in Spyder editor. Finally, the session was ended with a brief information on use cases and websites that are useful to refer and pursue even after the course ends. Feedback from participants was taken after the acknowledgement was given by the coordinator of the course Dr. Manjunath T. N and all other resource persons.



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OPEN COURSE 2020-2021

June 1-5, 2021

Open Course	CO-1	Apply data science concepts and methods to solve problems in real-world contexts.
Outcomes Of "Data Science	CO-2	Design Python scripts for different data exploration problem statements
using Python"	CO-3	Select and utilize the features of modern Tool for data science applications
	CO-4	Demonstrate project management and finance principles for data science applications

CO-PO Mapping for open course of "Data Science using Python"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12	PSO
											1		3
CO1	X												
CO2		X	X										
CO3					X								
CO4												X	

Feedback (critical) from students:

- 1. It is difficult to concentrate on the same topic for 6 hours a day. The course would be easier if daily hour were reduced and the duration of course was increased.
- 2. Concepts like regression model, ml algorithms, how to use python libraries were very useful.

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

- 1. Offline training will be good compared to online delivery.
- 2. Expected more hands-on sessions and mini projects.



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OPEN COURSE 2020-2021

June 1-5, 2021

Sample course feedback form

0 of 5 points	Score released Jun 5 4:07 PM	Release score
Feedback, Dept.	ing Python Open Co. of ISE es conducted by Dept. of ISE,BMSIT &M!! 4@bmsit.in) was recorded on submission of	
Name: * PREETHAM P M Add individual feedback		/ 0
X Department: * X Department: * CSE ISE		/5/5
ECE EEE ME AI &ML CIVIL ETE No correct answers Add individual feedback		×



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Contribution to lear	ning: *					
Contribution to lear	ning.					
	Poor	Fair	Satisfactory	Very good	Excellent	Score
Mordern						
skill/tool at the start of course	\circ	\circ	0	0 0		/ 0
Mordern						
skill/tool gained at end of course	\circ	0	0	0	•	/ 0
Application of						
the skill learned to solve problems in real world	\circ	0	0	•	\circ	/ 0
iii rear world						
Course content: *						
	D	isagree	Neutral	Agre	ee	Score
Learning objectives were clear		\circ	\circ	•		/ 0
Course content was organized and well planned		\circ	0	•		/ 0
Course workload was appropriate		0	0	•		/ 0
Course organized to allow all students to participate fully		0	0	•		/ 0
p,						
What aspects of thi	s course	were most us	eful or valuable?	*		/ 0
Networking and Data v	visualisatio	on				
Add individual feedba	ack					
How would you imp	rove this	course? *				/ 0
It is very good course	l would lik	e you to continu	ie the same			
Add individual feedba	ack					
					Cuh	mitted 6/5/21, 4:07 PI



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OPEN COURSE 2020-2021

Department: Ma	athematics							
Title of the Ope	en Course	Essential Mathematics for Data Science and Machine Learning						
Targeted Studen	nts from Branches	60 (All Branches)						
Registration Fe		Rs 100/-						
No. of students	attended	54						
Software/Hardy	vare Tools used	R software, Python (Spider)						
	ods (e.g.: ppt presentation, mulation, videos, project,	ppt presentation, Videos (Swayam NPTEL)						
Assessment Me	thods (e.g.: Quiz, test,	Quiz conducted using Google forms,						
mini-		GCR, video link activity for modelling the						
project, report s	ubmission, etc.)	LPP, etc after each session and Quiz						
		conducted at the end of the Open Course						
0 0	l N	using Google form						
Open Course Chief	Name	Dr. Jojy Joseph Idicula						
	Mobile No.	9481451250						
Coordinator	Email ID	jojyji@bmsit.in						
Details (One Point Contact)								
Internal	Name	Dr. Karabi Sikdar						
Resource	Designation	Professor & HOD						
Person Details	Designation	9448505128						
(Please use	Mobile Number	9440303120						
additional	Name	Dr. Annamma Abraham						
rows for	Designation	Professor						
multiple	Designation	9448970039						
resource	Mobile Number	7440770007						
persons)	Name	Dr. Jojy Joseph Idicula						
	Designation	Professor						
		9481451250						
	Mobile Number	> 101 101 2 00						
	Name	Dr. Chethan A.S.						
	Designation	Professor						
		9986971127						
	Mobile Number	77 637 . 222 .						
	Name	Mrs Anitha Kiran						
	Designation	Assistant Professor						
	5	9900168787						
	Mobile Number							
	Name	Dr. Annapoorna M.S.						
	Designation	Assistant Professor						
		9964057433						
	Mobile Number							



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OPEN COURSE 2020-2021

	Name	Dr. Kallur Vijaya Kumar
	Designation	Assistant Professor
		9900106939
	Mobile Number	
	Name	Mrs. Sreelakshmi T.K.
	Designation	Assistant Professor
		9620680089
	Mobile Number	
	Name	Dr. Pushpa B.V.
	Designation	Assistant Professor
	Mobile Number	9740653493
	Name	Dr. Shivaprasad Nayak S.
	Designation	Assistant Professor
		9739498520
	Mobile Number	
External	Name	NIL
Resource	Designation	
Person Details	Company/Organization	
(Please use	Mobile Number/email-id	
additional	Name	
	Designation	
	Company/Organization	
	Mobile Number/email-id	
Curriculum	PO5, PO9, PO10 &, PO12	
Gaps: (Please		
indicate the		
gaps in terms		
of		
POs/PSOs)		
Abstract	Online Open Course entitle	ed "Essential Mathematics for Data Science
		vas organized from 1st to 5th June, 2021 in
		tered. There were 4 sessions on each day and
		was 1 hour 30 minutes. Quiz was conducted
		Overall Quiz and Feedback were collected in
	the evening of Day 5 using	e e
	3	Day 1, Dr. Karabi Sikdar discussed about
		ata types, statistical description of data,
	_ · ·	a presentation, measure of central tendency.
	_	basic fundamentals, installation and use of
	,	se of R as a calculator, functions and
	,	calculator, functions and matrix operations, perators, conditional executions and loops,
	0	equences data management with repeats,
	<u> </u>	introduction into concepts such as matrix
	0	escent, single value decomposition and
		sis was given by Dr. Annamma Abraham in
	principal component unuit	Silve of Division live and III

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June 1-5, 2021

the afternoon sessions.

The morning sessions of Day 2 initially began with an introduction to Data science followed by an example on Mathematical Model. Then, the concept of Queueing theory was introduced where Mrs Anitha Kiran explained about Queues found in real life, assumptions made in any queue, the distribution followed by Arrival and Service process, the Queue discipline followed in any queue, customer behaviour, etc. Later, the 2 models M/M/1, M/M/S models were explained in detail. The session concluded by dealing with various examples on the 2 models viz, M/M/1, M/M/S models. In the afternoon sessions, Mathematical Modelling was explained with some of its classifications by Dr. Annapoorna M.S. Also some basic mathematical modelling problems using differential equations were discussed.

Dr. Kallur V Vijayakumar covered the topic Algorithms in Data Science and Machine learning on the Day 3 morning sessions. In his presentation he discussed about - Algorithm Definition, Necessity, Formalization, Expressing algorithms, Typical steps in the development of algorithms, Simple algorithms examples, What is Machine Learning? Definition, Machine Learning Basic Concepts, How We Get Machines to Learn, Challenges and Limitations, A Brief about Classification in Machine Learning, What is Data Science?, Machine Learning Algorithms, Classification, Common Machine Learning Algorithms, Linear regression, Logistic regression. In the afternoon sessions, Dr. Chethan A. S. gave introduction to mathematical concepts in Machine learning and Data Science. He discussed about the Mathematics preliminaries required to understand the concepts in the topics: Linear Algebra, Calculus, Probability and Statistics. He also discussed about the importance of the following with examples: Gradient descent, Principal Component Analysis and Programming of the above in Python.

On the Day 4 morning sessions, Dr. Jojy Joseph Idicula explained the terminologies used in Sampling Distribution with examples. She also discussed about Sampling distribution of mean, Null and Alternative Hypothesis, level of significance, critical region, different types of errors and one & two tailed tests. Students could know how to formulate Null and Alternative Hypotheses. They were explained the significance of ztest, t-test and chi-square test and to draw inferences after applying those tests. They were also shown how to use excel to calculate P value, t or chi square statistic & the critical values. In the afternoon sessions, Dr. Shivaprasad Nayak S completely devoted the talk to integers and their properties. He explained the basic principles of Divisibility, Prime and composite numbers, The Fundamental theorem of Arithmetic, Greatest Common Divisor, Modular arithmetic, Congruence relation, The Extended Euclidian Algorithm, Solving Linear Congruence,

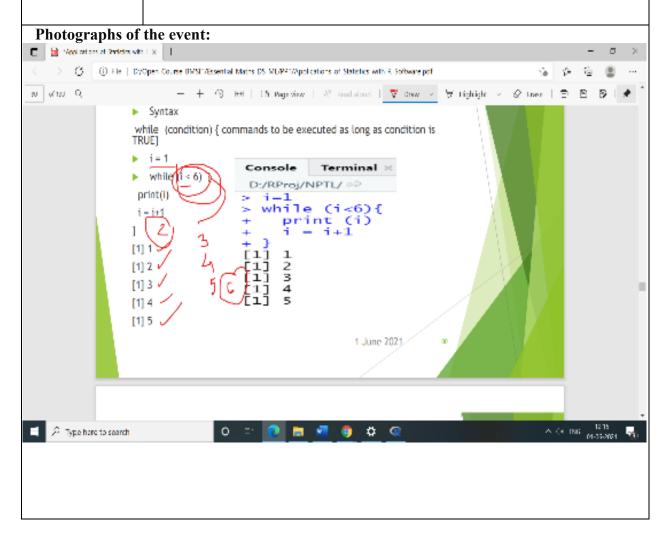
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functions and restricted **Partition** partitions, **Basic** Cryptography and Machine Learning and also looked into some relevant algorithms.

In the morning sessions of the Day 5, Dr. Pushpa B V explained the concepts of linear algebra used in Data Science and Machine learning such as vector space, subspace, linear dependence and independence, inner product, basis and dimensions, linear transformation, orthogonal sets, orthonormals, orthogonal projections, least square solutions, Gram Schmidt process and singular value decomposition. She also discussed some of the applications related to computer science, electrical networks, graph theory and machine learning. Sreelakshmi T.K. gave brief introduction to Linear Programming, modelling of a Linear programming Problem & to get solution of LPP by using graphical method & Simplex method in the afternoon sessions. She also discussed about Linear regression & its applications. For better understanding of the concepts, various activities were conducted throughout the sessions which could be mapped to PO1, PO2, PO9, PO10 & PO12.

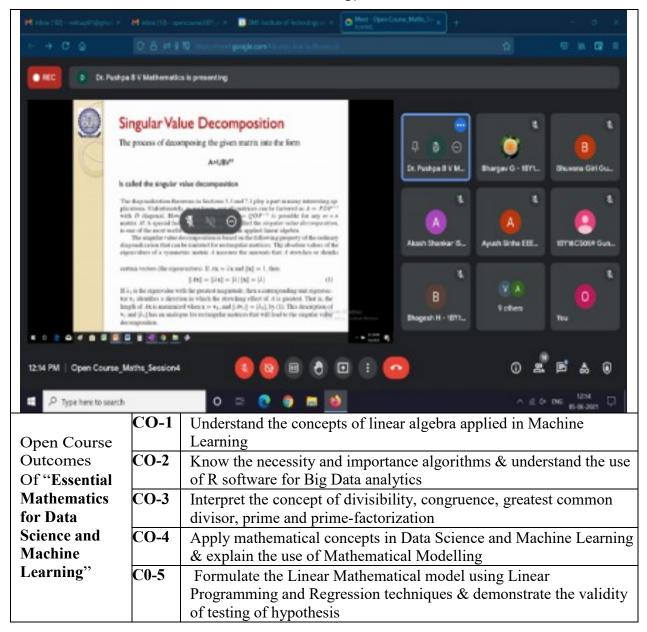




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June 1-5, 2021



CO-PO Mapping for open course of "Essential Mathematics for Data Science and Machine Learning"

IVIaciiii													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12	PSO
											1		3
CO1	3	1										1	-
CO2	3	1			1							1	-
CO3	3	1										1	-
CO4	3	1										1	-
CO5	3	1							1	1		1	-



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OPEN COURSE 2020-2021

June 1-5, 2021

Feedback from external expert: -NIL-

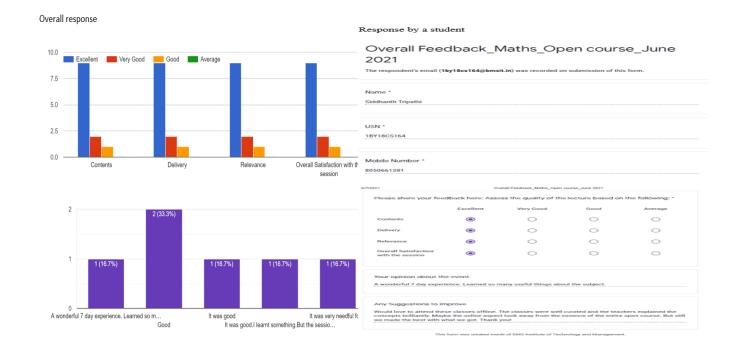
Feedback (critical) from students: -NIL-

Feedback from External participants (if any): -NIL-

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

1. Topic can be selected related to current engineering students' requirements.

Sample course feedback form





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OPEN COURSE 2020-2021

Department: Mechani	ical Engineering					
Title of the Open Cou		Introduction to Computational Fluid				
		dynamics				
Targeted Students fro	om Branches	Mechanical Engineering, Civil				
D :		Engineering P. 100/				
Registration Fee		Rs. 100/-				
No. of students attend		44				
Software/Hardware T		CSFLOW				
	g.: ppt presentation, chalk	PPT Presentation, Software				
&		Demonstration, Simulation, Videos.				
talk, simulation, vide		OUT				
	(e.g.: Quiz, test, mini-	QUIZ				
project, report submis						
Open Course Chief	Name	Dr.Avinash.G , Dr.Jagadeesh.YJ				
Coordinator Details	Mobile No.	953523085				
(One Point Contact)	Email ID	avinash.govindaraju@bmsit.in				
Internal Resource	Name	Dr.Avinash.G				
Person Details	Designation	Assistant Professor				
(Please use	Mobile Number	953523085				
additional	Name	Dr. Jagadeesh.YJ				
rows for multiple	Designation	Assistant Professor				
resource persons)	Mobile Number	9845604585				
External Resource	Name	Vivek				
Person Details	Designation	Manager				
(Please use	Company/Organization	CMS Software, Bengaluru				
additional	Mobile Number/email-id	vivek@hexagon.com				
	Name	Karan Manoj				
	Designation	Application Engineer				
	Company/Organization	CMS Software, Bengaluru				
	Mobile Number/email-id	8105551910/karanmanoj13@gmail.c				
		om				
Curriculum Gaps:	PO5:Modern Tool Usage:					
(Please indicate the	0 0	IT Tool-Industries using analysis				
gaps in terms of		Low. This is Simulation software.				
POs/PSOs)	_	es not have the CFD hence Open				
	Course is conducted. Teac	thing by Industry person also involved.				
		1.1 1				
	`	and thermal aspects of different				
	mechanical systems.)	l is fluid and thormal analysis				
		d is fluid and thermal analysis ems such as ,Flow over aeroplane, flow				
		ugh Overhead projector, analysis is				
	carried by modern softwa	- · · · ·				
	i carried by modern softwa					



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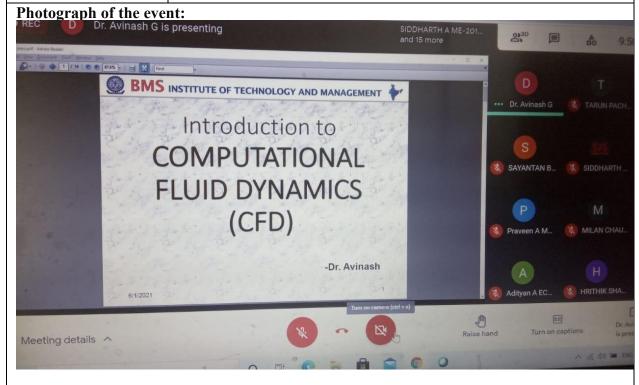
OPEN COURSE 2020-2021

June 1-5, 2021

Abstract

In order to give scope for updating the knowledge in the field of CFD, this open course is conducted. The theory and Analysis by using modern industrial software is used. Both Academician and industry expert were involved to teach and give training. Computational Fluid Dynamics (CFD) is the analysis of fluid flows using numerical methods. Using CFD, you are able to analyze complex problems involving fluid-fluid, fluid-solid or fluid-gas interaction. Engineering fields where CFD analyses are frequently are for example aerodynamics used hydrodynamics. Fluid dynamics is involved with physical laws in the form of partial differential equations. Sophisticated CFD solvers transform these laws into algebraic equations and are able to efficiently solve these equations numerically.

CFD analysis has a great potential to save time in the design process and is therefore cheaper and faster compared to conventional testing for data acquisition. Furthermore, in real life tests, a limited number of quantities are measured at a time; while in a CFD analysis, all desired quantities can be measured at once and with a high resolution in space and time. Open course conducted for 5 days by virtual mode. It has been observed that students shown interest in learning the thermal course by using modern software tools.

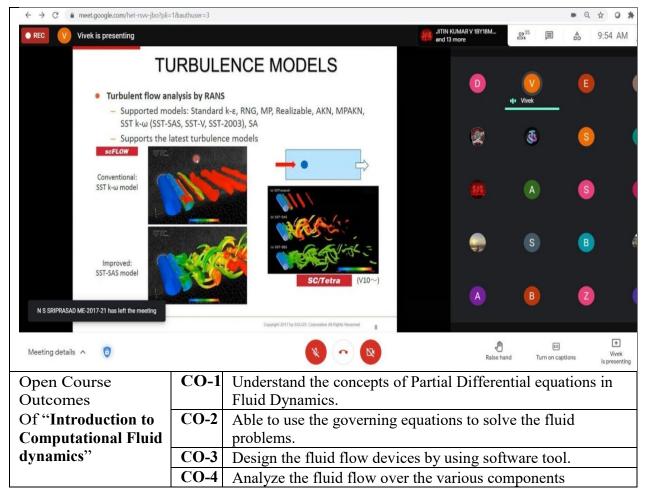




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OPEN COURSE 2020-2021

June 1-5, 2021



CO-PO Mapping for open course of "Introduction to Computational Fluid dynamics"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12	PSO
											1		2
CO1	3	3	3	2	3	-	1	-	1	1	-	1	3
CO2	3	3	2	2	2	-	-	-	1	1	-	1	3
CO3	2	2	3	2	3		-	-	2	1	-	2	3
CO4	3	2	3	2	3	-	-	-	2	1	-	2	3

Feedback from external expert: -Nil

Feedback (critical) from students:

- 1. Personally Felt That The Number Of Sessions Allotted Were Less As This Is A Very Huge Topic And To Be Able To Grasp All Of Those Information In Just 5 Days Is A Little Difficult. By Jayant Bhansali, 1BY18ME022.
- 2. Things Were Well Explained And The Basic Things In Cfd Are Clear To Me After This



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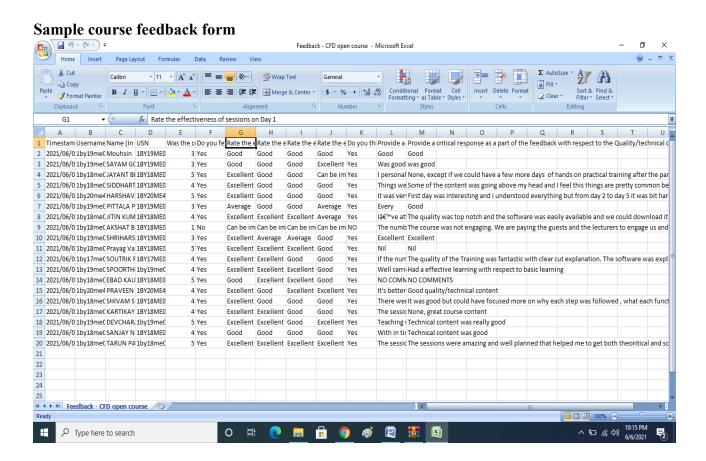
June 1-5, 2021

Course. I Feel This Particular Topic Requires Lot Of Time To Teach Completely. But It Was Summarised Well In Just One Week. By. Siddharth A, 1BY18ME056

Feedback from External participants (if any): -NIL-

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

- 1. Upgrade to use good digital teaching systems
- 2. Demonstrate more problems by using software tool





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OPEN COURSE 2020-2021

Department: ME	CHANICAL ENGINEERI	NG						
Title of the Oper		Data Analysis using Excel						
Targeted Studen	ts from Branches	IV and VI sem UG students of all branches						
Registration Fee		Rs 100/						
No. of students a	attended	61						
Software/Hardw	are Tools used	Microsoft Excel (2010 and above)						
Delivery Method	ds (e.g.: ppt presentation,	PPT Presentation/simulation/videos						
	nulation, videos, project,							
etc.)								
	hods (e.g.: Quiz, test,	Quiz						
	port submission, etc.)							
Open Course	Name	Dr. Keerthi kumar N						
Chief	Mobile No.	9743634934						
Coordinator	Email ID							
Details (One								
Point Contact) Internal	Name	Dr. Keerthi kumar N						
Resource								
Person Details	Designation Mobile Number	Assistant Professor 9743634934						
(Please use	Name							
additional	Designation	Madhu M.C						
rows for	Designation	Assistant Professor, Department of ME,BMSIT&M						
multiple	Mobile Number	8105572970/madhumc@bmsit.in						
resource	Widdle Number	61033/27/0/madmume@binsit.in						
persons)								
External	Name	Mrs. Manasa C.M						
Resource	Designation	Asst.Professor						
Person Details	Company/Organization	Presidency University						
(Please use	Mobile Number/email-id	8088139416						
additional		manasacm@presidencyuniversity.in						
	Name	Mr. Kiran Kumar. N						
	Designation	Sr. Executive, Finance						
	Company/Organization	Soch Apparels PVT Ltd, Bengaluru						
	Mobile Number/email-id	9845432699/gnkirankumar1@gmail.com						
Curriculum	PO2,PO4,PO5,PO10,PO1	2						
Gaps: (Please								
indicate the								
gaps in terms of								
POs/PSOs)	Triate and the second s	annealla dia anno 1 CD 1 A I I I I I						
Abstract (Brief		o provide the concepts of Data Analysis in the ment. Initially students will be learning the						
Details of the		es followed by progressively increase in the						
open course with less than		ove along the course, capping with advanced						
250 words)		us case studies. This course helps the students						
250 (10103)		and various techniques in EXCEL. The course						
		the data from various format into excel., and techniques, analyze the collected data sets,						
	applying basic functions a	mu teeninques, analyze the confected data sets,						



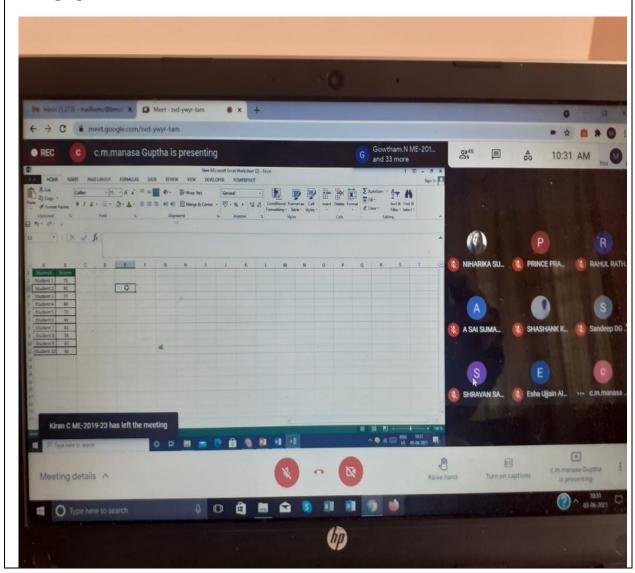
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OPEN COURSE 2020-2021

June 1-5, 2021

visualize the results through various conditional formatting and charts. Organize data/results in the form of simple tables and pivot tables. Introduce the usage of add -in tools and optimize results with solver/goal seek add-in. Build presentation ready dashboards, create own formulas in Excel based on individual skill sets. Finally, turn any kind of real world data into business insights.

Photograph of the event:

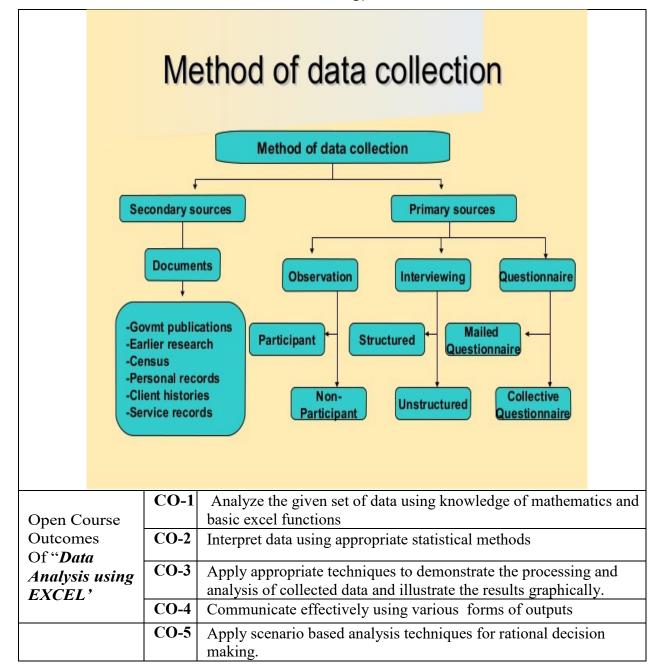




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June 1-5, 2021



CO-PO Mapping for open course of 'Data Analysis using EXCEL'

	20 10 Mapping for open course of Data Amarysis using Excell												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12	PSO
											1		3
CO1		3			3					2		1	
CO2				3	3					3		1	
CO3		1		3	3					3		1	
CO4					3					3		3	
CO5		1		3	3					2		3	



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OPEN COURSE 2020-2021

June 1-5, 2021

Feedback from external expert:

- 1. The open course was organized very well.
- 2. The students were very attentive and involved themselves in all the sessions.

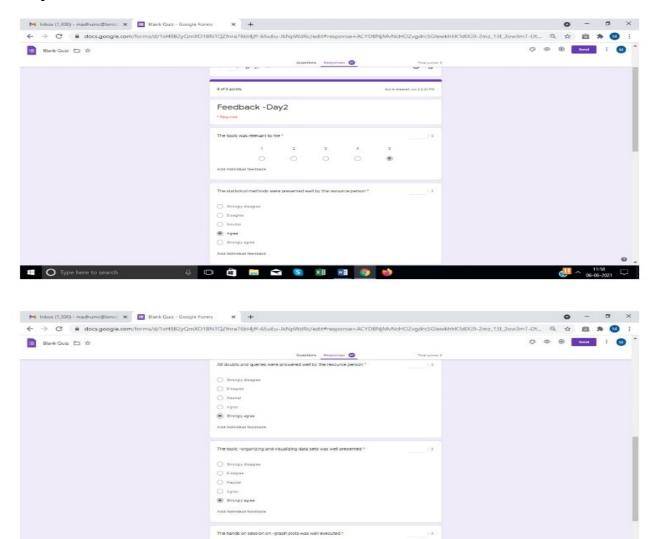
Feedback (critical) from students:

- 1. Students mentioned that they learnt a lot about Excel and its applications to real world scenario.
- 2. Hands on sessions were very useful for problem solving

Feedback from External participants (if any): -NIL-

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

Sample course feedback form:

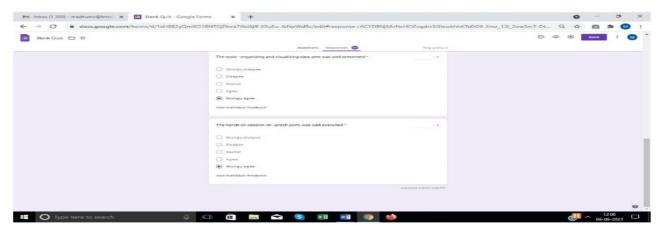


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OPEN COURSE 2020-2021





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OPEN COURSE 2020-2021

Department: Physics	}	
Title of the Open Cou		Materials for Devices: An introduction to Engineering Startups
Targeted Students from	m Branches	4 th and 6 th SEM All branch engineering students, research scholars and research staffs
Registration Fee		Rs.100
No. of students attend	ed	8
Software/Hardware To	ools used	Google Meet
Delivery Methods (e.g talk, simulation, video	g.: ppt presentation, chalk & os, project, etc.)	PPT Presentation and Youtube videos
Assessment Methods project, report submis		MCQ G-form written Quizzes conducted and evaluated for the sessions
Open Course Chief	Name	Dr. C. Kavitha, Dr. Dhananjaya.N
Coordinator Details	Mobile No.	+919008303399, +919036840280
(One Point Contact)	Email ID	gkavitha21@bmsit.in, ndhananjayas@bmsit.in
	Name	Dr. Daruka Prasad B
Internal Resource Person Details	Designation	Assistant Professor, Department of Physics, BMSIT&M
(Please use	Mobile No.	+91-9535100437
additional rows for multiple resource persons)	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
	Name	Dr. Jyoti C Abbar
	Designation	Assistant Professor, Chemistry dept, BMSIT&M
	Mobile Number	+918123500885
	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	Company/Organization	Presidency University, Bangalore



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OPEN COURSE 2020-2021

additional	Mobile Number/email-id	9945508611						
	Topic	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						
	Topic	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						
	Topic	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						
	Company/Organization	SIT, Tumkur						
	Mobile Number/email-id	9620157141						
	Topic	Synthesis of novel electrode						
0 1 0	XX 1 1.1 CH	material for lithium ion batteries						
Curriculum Gaps:		ving POs through the open course						
(Please indicate the	PO5: Modern Tool Usage	2.04.						
gaps in terms of POs/PSOs)	PO6: The Engineer and Soc	, i						
Abstract	PO7:Environment and Sus							
Austract		vital role in making devices such as es, Medical devices, Nano devices,						
		evices and water purification devices						
		e simple. This open course aims in						
		pants with various device making						
		to engineers to setup startup company						
	The state of the s	th these smart materials. Students of all						
	-	l 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							
		ell devices for the future Energy Needs						
		ethodologies for doing good research						



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June 1-5, 2021

- Multifunctional Nanomaterials for Light Emitting Diode devices
- Super conducting Devices
- Physics of Nano materials fundamentals to Device level
- Sensor Device materials
- Liquid Crystal Display Devices
- Super capacitor, Water filter and Medical Devices.

Photograph of the event:





BIV.

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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OPEN COURSE 2020-2021

June 1-5, 2021

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

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	PO 12
CO1	3	3	3	3								
CO2					3							
CO3			3	3		3						
CO4						3	3					
CO4						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



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Sample course feedback form

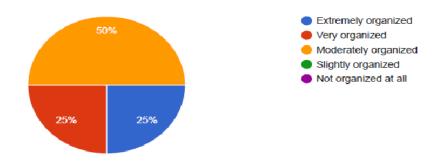
1. How well did you achieve this learning goal in this course?

4 responses



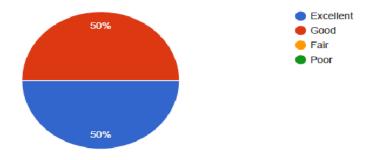
2. How organized was this course?

4 responses



3. How do you rate all the Topics delivered in this course?

4 responses

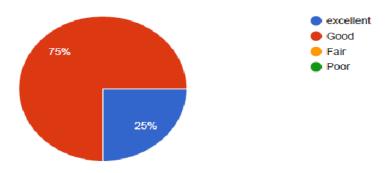




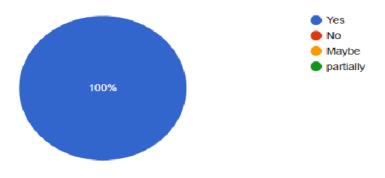
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- 4. Rate the quality of online platform used in this course?
- 4 responses



- 5. Whether your quizzes had relevent questions as per topics?
- 4 responses



- 6. How do you rate the resource persons of this course?
- 4 responses

