2023
OPEN COURSE REPORT

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT
Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Report on Open course 2022-23

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 conceptualized 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 **12.6.2023 to 16.06.2023.**

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 courses*
- *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.
- 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 had been notified to all the students of the institute well in advance.

Note:

- *Each department had identified and nominated the coordinator (Faculty member) for Open Courses.*
- *Open Course was made mandatory for all the students of BMSIT&M.*
- *Registration of the courses were through ONLINE. 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 one 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 was conducted on 5th day (Friday) of the Programme, and the results was considered for PO attainment of the programme.
- Feedback from the students on the quality of the course delivery was taken.

SCHEDULE of the Open-course Execution:

- Conduction of PAC meeting to identify the gaps (To decide the Courses): **15.5.2023**
- Identification of Courses and preparation of Course Contents: **17.5.2023**
- Define the Course Outcomes (COs) and mapping to POs: **18.5.2023**
- Identification of resource Persons (Industry): **5.06.2023**
- Duration of Conduction: **12.6.2022 - 16.6.2023**
- Assessment and Evaluation (Test/Quiz and Feedback): **16.6.2023**
- Online Registration Opens on: **8.6.2023**
- Brochure printing and publicity by the department **: 6.6.2023**

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Number of Courses offered by the all departments are as follows:

Sl. No.	Department	course Title	Faculty co-ordinator
1	AIML	5 Days - 5 Projects on Data Science	Dr. Pradeep K R, Dr. Vishwa Kiran S, Dr. Anupama H S, Dr. Niranjanamurthy M
2		Machine Learning End to End Deployment (MLOps) - Industry Perspective	Dr. Chandrashekhar, Dr.Rajesh I S, Dr. Archana Bhat, Dr.Bharathi M A
3	CHEM	Hybrid Materials for Smart Life Engineering Applications	Dr. Jyoti Roy Choudhuri
4	CSE	Machine Learning with Python	Dr. HemaMalini B H
5		Hands on training on "Ethical Hacking, Blockchain & Web3 Technologies"	Dr.Arun kumar B R, Prof. Vidya R
6		Hands-on On Robotics with ROS	Prof. Ambika G.N, Prof. Vidya R
7		Java Programming	Dr. Nagabhushan S V, Dr. Bhuvaneshwari C M
8		Mobile application development	Dr. Dhanalakshmi B K, Dr. Archana
9		AI Appplictions using R-Programming	Dr. Radhika K R, Prof. Durgadevi G Y
10		Start Earning! - VFX Unleashed: Mastering the Art of Video Editing, 3D Rendering and Visual Effects in 5 days	Dr. Sunanda Dixit, Prof.Shankar R
11		Augmented and Virtual Reality- A metaverse	Dr. Srivani P, Prof. Bharathi R, Prof. Mari Kirthima
12	CIV	Planning and Drawing of Residential Building	Mrs. Shobha R, Dr. Vinod B R
13		Research-Academic Writting (RAW - Phase 1) : Skills, Tools and Ethics	Dr Rajesh Gopinath, Dr. Aruna G
14	ECE	Cloud Technologies and Embedded Edge	Dr. Asha K
15		Machine Learning and Data Analytics	Prof. Anna Merine George
16		Develop solutions for real time problems using Internet of Things (IOT)	Dr. Anilkumar D
17		Brain Computer Interfaces and Neural Signal Processing	Dr. Saneesh Cleatus
18		MATLAB Programming and Image processing	Dr. Surekha R. Gondkar
19	EEE	Embedded Systems Design	Dr. N. Ramarao, Prof. H.D. Kattimani
20	ETE	Embedded System Design on FPGAs	Dr. Sumathi M S
21		PCB & System Hardware Design	Dr. Raju Hajare
22	ISE	Hands on Approach for Cyber Forensics and Crime Investigation	Dr. Usha B A, Dr. Anjan K
23		Full Stack Web Development	Dr. Mohan B A
24		Soft Computing Using Machine	Dr. N. Rakesh

		Learning Techniques to Build AI Applications	
25		Programming for IT Career	Prof. Vinutha, Dr. Harish, Dr. Karthik S A
26		Data Analytics using Microsoft Power BI	Dr. Manjunath, Prof. Gireesh, Prof. Chandrashekar K. T.
27		Hands on Training on Robotic Process Automation Tools	Prof. Mahalakshmi, Dr. Veena, prof. Ambika
28		AWS services and Tools for cloud computing	Dr. Prakash
29		Spring Boot Fundamentals	Dr. Geeta Patil, Dr. Surekha K B
30	MATHS	Mathematical Methods for Higher Studies	Dr. Arnab Bhattacharyya, Dr. Priyaanka Pal
31	MECH	Electronics and PC Cooling Simulation and Analysis Using CFD Tool	Dr. Ravichandra K R, Dr. Nagamadhu M
32		Automation and Robotics	Prof. S. Nithya Poornima, Prof. Sri Ganesh
33	BICEP	Innovation and Entrepreneurship Bootcamp	Prof. Chennabasava

We are happy to announce that the total participants for the open courses were 1736. The experts both internal and external had put in great efforts in delivering topics that are leading technologies. This will not only enhance the student's employability but also creates a talent pool at the department and the college level.

Interestingly, for some courses, there were 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 next time.

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Artificial Intelligence and Machine Learning		
Title of the Open Course		"5 Days – 5 Projects on Data Science"
Targeted Students (Branches)		AI&ML/CSE/ISE/ECE/ETE
Registration Fee		Rupees 400/-
No. of students attended		60
Software/Hardware Tools used		
Delivery Methods		ppt/programming/projects
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Test, Mini-Project
Open Course Chief Coordinator Details	Name	Dr. Vishwa Kiran S
	Mobile No.	9845105680
	Email ID	vishwakiran@bmsit.in
Internal Resource Person Details	Name	Dr. Anupama H. S
	Designation	Associate Professor
	Mobile Number	9741043410
	Name	Dr. Vishwa Kiran S
	Designation	Associate Professor
	Mobile Number	9845105680
	Name	Dr. Pradeep K R
	Designation	Assistant Professor
	Mobile Number	9886171714
	Name	Dr. Niranjanamurthy M
	Designation	Assistant Professor
	Mobile Number	9886265115
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) **PO5, PO6, PO9, PO10, PO12, PSO1, PSO2.**		
Abstract	Data Science continues to grow in popularity as a promising career path for this era. Data Science encompasses a wide range of scientific methods, procedures, techniques, and information retrieval systems to detect meaningful patterns in organized and unstructured data. Demand for Data Scientists is increasing in the market. According to recent reports, demand will skyrocket in the future years, increasing by many times. This Open Course provided data science project ideas for students new to Python or data science in general and all of the tools required succeeding as a data science developer.	
Photograph of the event :		

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "5 Days – 5 Projects on Data Science"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2			1	3				1			1

Feedback from external expert: No External Speakers

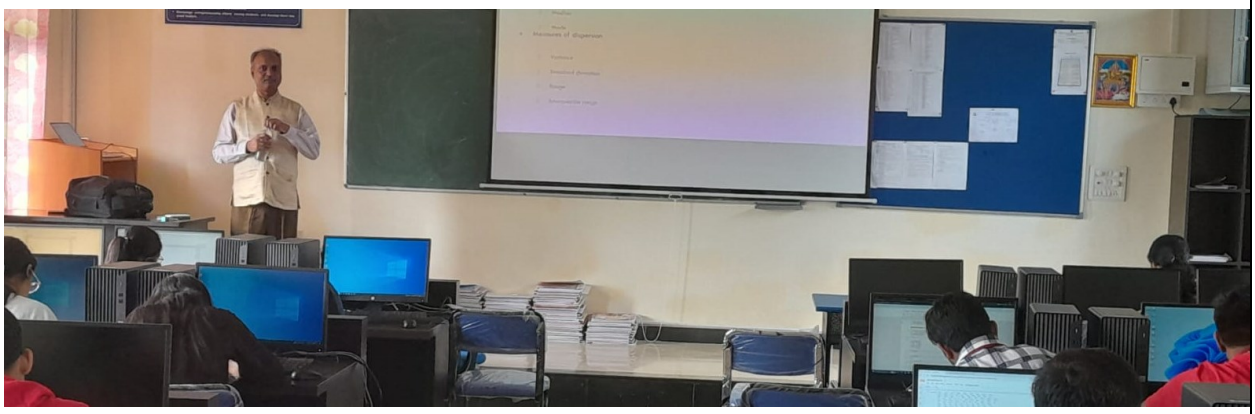
Feedback (critical) from students: Python and Machine Learning concepts to be known prior.

Corrective methods/suggestions to consider while conducting open course next time.
1. Pre -requisite to be covered first
2. Sufficient time must be given to participants to complete their assignment

Department: Artificial Intelligence and Machine Learning		
Title of the Open Course		MLOps [Machine Learning Operations]
Targeted Students (Branches)		AIML, CSE, ISE
Registration Fee		400
No. of students attended		60
Software/Hardware Tools used		Opensource [OpenMP, MPI, CUDA]
Delivery Methods		Discussions, lecture, E-Learning
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Chandrashekhar B. N.
	Mobile No.	9972277667
	Email ID	dr.chandrashekhar@bmsit.in
Internal Resource Person Details	Name	Dr. Chandrashekhar B. N.
	Designation	Assistant Professor
	Mobile Number	9972277667
	Name	Dr. Archana Bhat
	Designation	ASSISTANT PROFESSOR
	Mobile Number	9902885719
	Name	Mr. Md. Sinan Khan
	Designation	Alumni
	Mobile Number	9180372900
External Resource Person Details	Name	Dr. Srinivas Padanabhuni
	Designation	Co-Founder
	Company/Organization	Intellect , Testing.Com
	Mobile Number/email-id	
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract		MLOps stands for Machine Learning Operations. MLOps is a core function of Machine Learning engineering, focused on streamlining the process of taking machine learning models to production and then maintaining and monitoring them. MLOps is a collaborative function, often comprising data scientists, DevOps engineers, and IT. The primary benefits of MLOps are efficiency, scalability, and risk reduction. Efficiency: MLOps allows data teams to achieve faster model development, deliver higher quality ML models, and faster deployment and production. Scalability: MLOps also enables vast scalability and management where thousands of models can be overseen, controlled, managed, and monitored for continuous integration, continuous delivery, and continuous deployment. Specifically, MLOps provides reproducibility of ML pipelines, enabling more tightly-coupled collaboration across data teams, reducing conflict with devops and IT, and accelerating release velocity. Risk reduction: Machine learning

	models often need regulatory scrutiny and drift-check, and MLOps enables greater transparency and faster response to such requests and ensures greater compliance with an organization's or industry's policies.

Photograph of the event :



Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "MLOPS"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			2	3			2	2			3

Feedback from external experts:
1. External Speaker appreciated the open course strategy.

Feedback (critical) from students:
1. **Individual PC for each student.**

Corrective methods/suggestions to consider while conducting an open course next time.
2. **Need to have open course yearly twice**
3. **Extended part of the course will be expected for the next open course.**

Sample course feedback form

Day-5 Feedback form

Thank you for participating in our event. We hope you had as much learning attending as we did organizing it.

We want to hear your feedback so we can keep improving our logistics and content. Please fill this quick survey and let us know your thoughts.

dr.chandrashekhar@bmsit.in Switch account

Not shared

* Indicates required question

1. How well do you understand the concepts of CUDA?*

1	2	3	4	5
○	○	○	○	○

2. How well do you understand the GPU Parallel Programming

1	2	3	4	5
○	○	○	○	○

5. How well were you able to benefit from the hands-on sessions of CUDA

1 2 3 4 5

NAME *

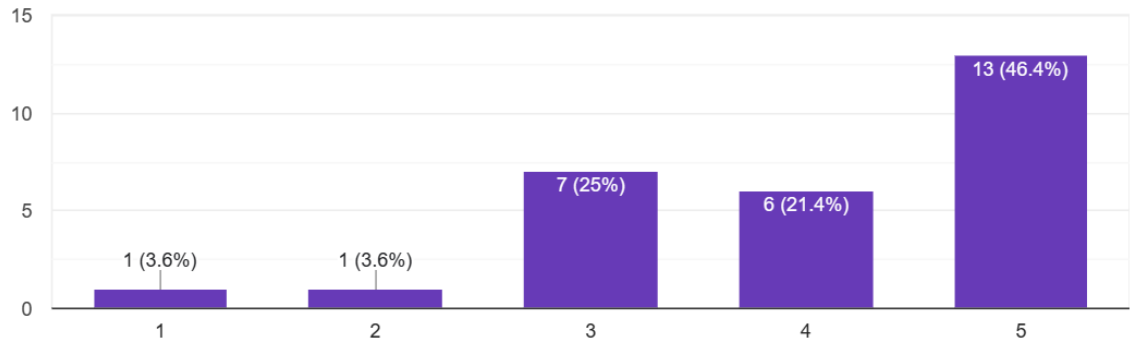
Your answer

Sample course feedback form

Summary Question Individual

1. How well do you understand the concepts of CUDA?* Copy

28 responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Chemistry		
Title of the Open Course		Hybrid Materials for Smart Life Applications
Targeted Students (Branches)		ME, CVE, ECE, ETE, CSE, ISE
Registration Fee		Rs 400/-
No. of students attended		17 out of 40
Software/Hardware Tools used		Avagadro, Gauss View/Linux
Delivery Methods		Slides, Projector
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Jyoti Roy Choudhuri
	Mobile No.	8296799794
	Email ID	jyotiroy@bmsit.in
Internal Resource Person Details	Name	Dr. Jyothi C Abbar
	Designation	Associate Professor & HoD
	Mobile Number	8919739581
	Name	Dr. Ramakrishnappa T
	Designation	Professor
	Mobile Number	7892508243
	Name	Dr. Swetha G A
	Designation	Assistant Professor
	Mobile Number	8762171241
	Name	Dr. K Sureshkumar
	Designation	Assistant Professor
	Mobile Number	9110682689
	Name	Dr. Jyoti Roy Choudhuri
	Designation	Associate Professor
	Mobile Number	8296799794
External Resource Person Details	Name	Dr. Samrat D
	Designation	Assistant Professor
	Company/Organization	RV institute of Technology and Management, Bangalore
	Mobile Number/email-id	9591777195
	Name	Dr. Prakash H R
	Designation	Assistant Professor
	Company/Organization	Nagarjuna Degree College, Bangalore
	Mobile Number/email-id	9844908343
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract		Hybrid materials are emerging as a very potent and promising class of materials. The complementarity results in a complete synergy of the desired material's properties and ultimately an end-product. The diversity of the resulting properties and materials used in the production of hybrid materials applies to a wide variety of applications, from automotive and structural

	applications to electronics and biomedical applications. In recent years, multifunctional materials, are the most advanced and hi-tech engineering materials that can withstand mechanical loads and are featured with high thermal stability, fatigue resistance along with enhancing the chemical, and environmental resistance. In this open course, we highlight the research work that is done on hybrid materials, their wide spectrum of applications and provided an outlook on their associated future challenges.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Hybrid Materials for Smart Life Applications"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3		2	2				2

Feedback from external expert:
1. External Speaker appreciated the participants for being interactive.

Feedback (critical) from students:
1. More hands-on sessions required regarding characterization techniques
2. Application of hybrid materials to be covered in hands-on sessions.

Corrective methods/suggestions to consider while conducting open course next time.
1. Basic synthesis techniques of materials to be covered first.
2. Sufficient time must be given to participants for hands on sessions regarding characterization of materials

Sample course feedback form

Questions Responses 15 Settings

Open Course on Hybrid Materials for Smart Life Applications

Form description

This form is automatically collecting emails from all respondents. Change settings

Name *

Short answer text

Branch *

Short answer text

Section *

Short answer text

Topics covered in the three sessions are relevant to the theme of Open course? *

- Totally agree
- Average
- Not at all

Synthesis techniques related to anode materials covered in the afternoon session is relevant to the title? *

- Totally agree
- Average
- Not at all

The few techniques discussed to enhance the battery efficiency during hands on sessions are *

- very useful
- average

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

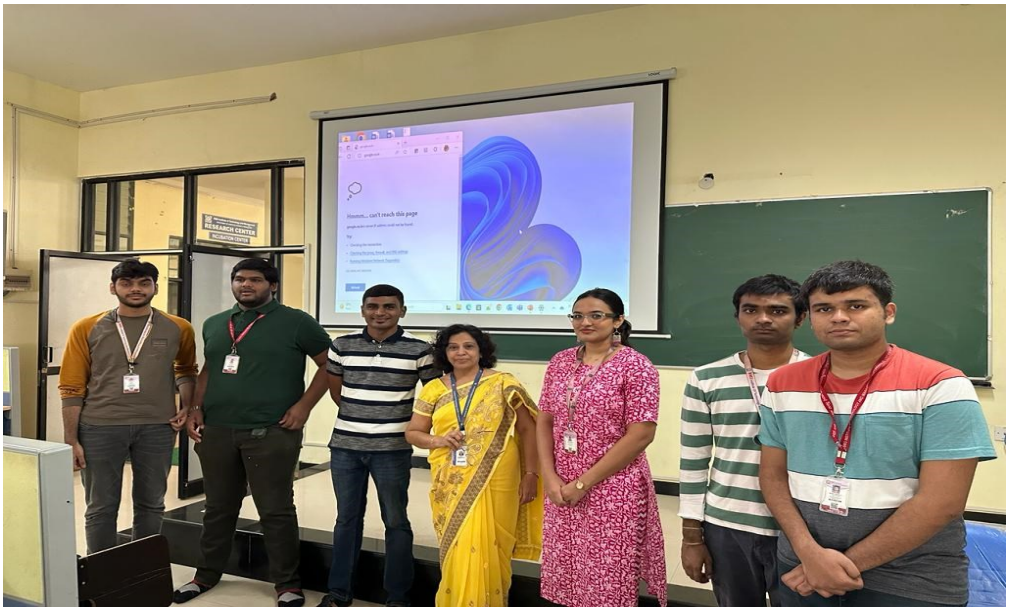
Department: Computer Science and Engineering		
Title of the Open Course		Machine Learning with Python
Targeted Students (Branches)		CSE, ISE, ECE, AIML
Registration Fee		400
No. of students attended		60
Software/Hardware Tools used		Microsoft OS, Google Collab, Python IDLE
Delivery Methods		Presentations. All sessions were Hands on
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Quiz, Mini Project
Open Course Chief Coordinator Details	Name	Dr. HemaMalini B H
	Mobile No.	7204844628
	Email ID	bhhemaraj@bmsit.in
Internal Resource Person Details	Name	Dr. HemaMalini B H
	Designation	Associate Professor
	Mobile Number	7204844628
	Name	Prof. Praveen Kumar T N
	Designation	Associate professor
	Mobile Number	81055 51352
	Name	Harish Kumar S Guragol
	Designation	Alumnus, BMSIT &M
	Mobile Number	99862 51724 harish.guragol@gmail.com
External Resource Person Details	Name	Prashanth Kumar
	Designation	Product Engineer
	Company/Organization	Kampd Pvt Ltd, Singapore
	Mobile Number/email-id	96113 35641 prashanth8983@gmail.com
	Name	Chethan Patel S N
	Designation	Intern & Upcoming Associate Software Engineer
	Company/Organization	Mobileum INDIA
	Mobile Number/email-id	91080 89100 chethanpatel100@gmail.com
	Name	Asif Ali Ahmed R
	Designation	Software Development Engineer
	Company/Organization	Money view
	Mobile Number/email-id	86605 52494 asifaliahmed2@gmail.com
	Name	Roshni Anand
	Designation	Alumnus, BMSIM Associate Solutions Engineer (Upcoming),
	Company/Organization	SAP labs, INDIA

	Mobile Number/email-id	73377 32276 roshnianand10@gmail.com

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)
PO1,4,5,8,9,12

Abstract	In this open course we dive into the basics of machine learning using Python, an approachable and well-known programming language. We'll talk about introduce the important packages of Python like Numpy, Pandas, Scikit and MatPlotLib. The students are taught to install and use Python from scratch. They will learn to run short codes and small projects using Python. Later, the course introduces them to Machine learning concepts, Supervised and Unsupervised modes, Classification Techniques and Clustering Techniques. Machine learning is a type of artificial intelligence (AI) that allows computers to learn without being explicitly programmed. Machine learning algorithms are trained on data, and they can then use that data to make predictions or decisions. There are many different types of machine learning algorithms, and they can be used for a variety of tasks. Some machine learning algorithms which are covered in course include: Classification: This involves predicting a category for a given input. For example, a classification algorithm could be used to predict whether an email is spam or not. Regression: This involves predicting a numerical value for a given input. For example, a regression algorithm could be used to predict the price of a house based on its features Clustering: This involves grouping similar data points together. For example, a clustering algorithm could be used to group customers together based on their purchasing habits.

Photograph of the event :



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	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3			0	3			3

Feedback from external expert:

1. External Speaker appreciated the participants for being interactive.

Feedback (critical) from students:

1. This course period should be of a month, 2 hours everyday
2. 5 days are not enough to complete courses like machine learning
3. There could be more hands on time compared to the descriptive part
4. 2 weeks would be very good
5. It was good
6. It was a good session
7. No suggestions, the classes were well conducted
8. It was great, no suggestions from my side.
9. Theory part and hands on should have conducted in the alternative sessions
10. The session was very useful.
11. It was nice. The teacher and students teaching was good.

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

- A little bit more detailed so that it becomes easy for the beginners
- I guess the course syllabus should be more descriptive so that for a person, it's easier to choose the best course
- I would have preferred to learn the concepts by implementing a complete project
- I think the course should have been more detailed as it would not be easy for the beginners to grasp the topic. Although I understand that there was a time barrier but thank you mam for all your efforts

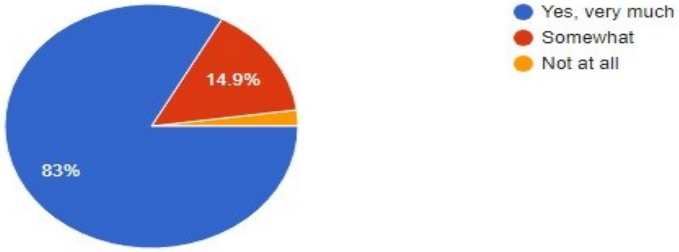
- Most of us were learning python for the first time. The basics that were taught on the first day helped us a lot. But the codes and concepts that were taught during the next few days were a little hard to understand for those of us who knew only the most basic of concepts. So it was getting a little hard to follow.

Sample course feedback form

The resource persons explained and illustrated the course concepts

Copy

47 responses



Did you learn any new concept today?

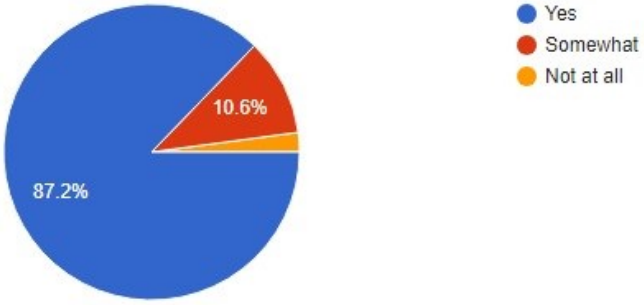
Copy

47 responses

The resource person encouraged student participation in the session

Copy

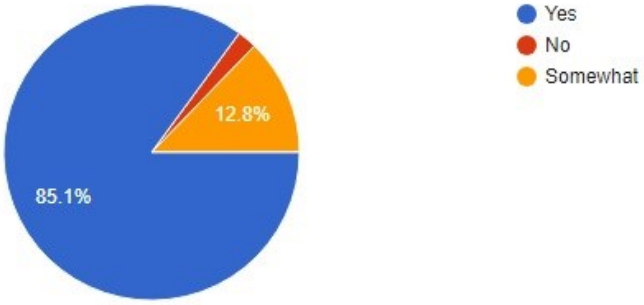
47 responses



Did you learn anything from the hands on session?

Copy

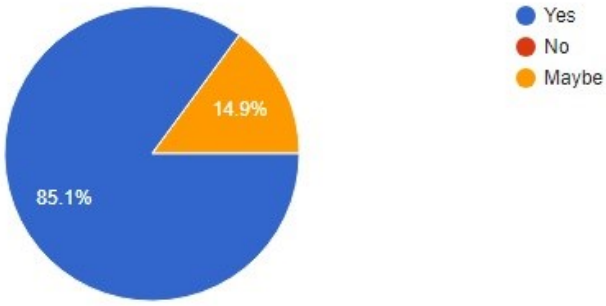
47 responses



Would you like to attend similar courses in future?

Copy

47 responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Computer Science & Engineering		
Title of the Open Course		Ethical hacking Blockchain and Web 3 Technologies
Targeted Students (Branches)		CSE, ISE, AIML, ECE
Registration Fee		400 /-
No. of students attended		Avg. 49
Software/Hardware Tools used		Wireshark, Kali Linux, Ethereum, Solidity, Hacki Tools
Delivery Methods		Interactive lectures, hands-on sessions
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quizzes and assessment report submission
Open Course Chief Coordinator Details	Name	Dr. Arun Kumar BR
	Mobile No.	9886008210
	Email ID	arunkumarbr@bmsit.in
Open Course Co Coordinator Details	Name	Prof. Vidya R Pai
	Mobile No.	9480615395
	Email ID	Rvidyapai@bmsit.in
Internal Resource Person Details	Name	Dr. Arun Kumar BR
	Designation	9886008210
	Email ID	arunkumarbr@bmsit.in
	Name	Prof. B J Tejaswini
	Designation	Asst Professor & Head, HSS
	Mobile Number	9945545014
	Name	Dr. Usha B A
	Designation	Professor, ISE
	Mobile Number	9880788509
	Name	Prof. Reshma C R
	Designation	Asst Professor, Dept. of MCA
	Mobile Number	9686439959
	Name	Dr. Anjan Krishnamurthy
	Designation	Professor, ISE
	Mobile Number	9731317861
External Resource Person Details	Name	Dr. Manish Kumar
	Designation	Asst Professor
	Company/Organization	MS Ramaiah Institute of Technology
	Mobile Number/email-id	Manish@msrit.edu
	Name	Sri. Kushal Lokesh
	Designation	CTO
	Company/Organization	NFThing
	Mobile Number/email-id	Manish@msrit.edu

Name	Mr. Poorvik D
Designation	Block chain developer
Company/Organization	Nonce Team
Mobile Number/email-id	9606555350

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs):
PO1,4,5,8,9,&12

Abstract

Cyber security is a thematic area of application development and research today. The topic is the need of the hour as securing assets involving financial and sensitivity information is a key challenge. The topics in cyber security are interdisciplinary across other field of engineering. Block chain technology and web 3 technologies plays significant role in redefining cyber security. In this open course participants will get insights of Cybersecurity, Ethical hacking, block chain, and Web 3 technologies and implementations in strengthening the cyber security and analysis. This open course is interesting, attractive and motivating since experts share their knowledge by presenting case studies and projects along with hands on sessions

This 30 hours' open course contains sessions on Cyber security, ethical hacking, Blockchain and Web 3 technologies and its innovative applications. Hands on sessions and Use cases enables learners to understand design and development of solutions to the burning problems using contemporary methods and technologies. This course presents an awareness, do and don'ts, legal and illegal activities of the netizens along with research analyst uses Web3 technologies. The topics chosen are contemporary and has got industrial applications. The resource persons are experts from academia and industry.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Ethical Hacking, Blockchain and web 3 technologies"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2.65			2.65	2.65			2.65	2.65			2.65

Feedback from external expert:
1. External Speaker appreciated the participants for being interactive.

Feedback (critical) from students:

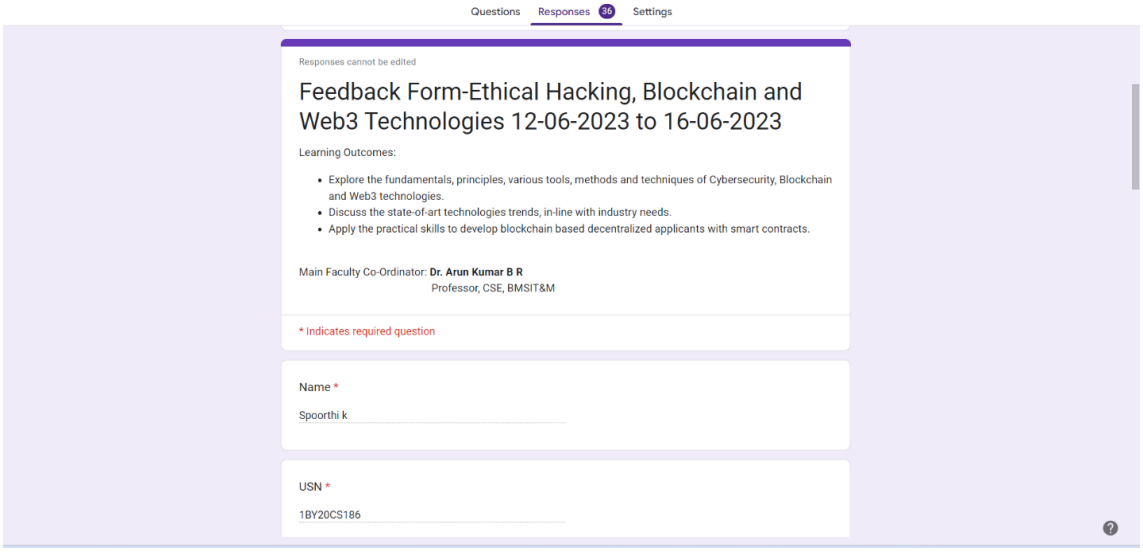
- The session was interactive and informative.

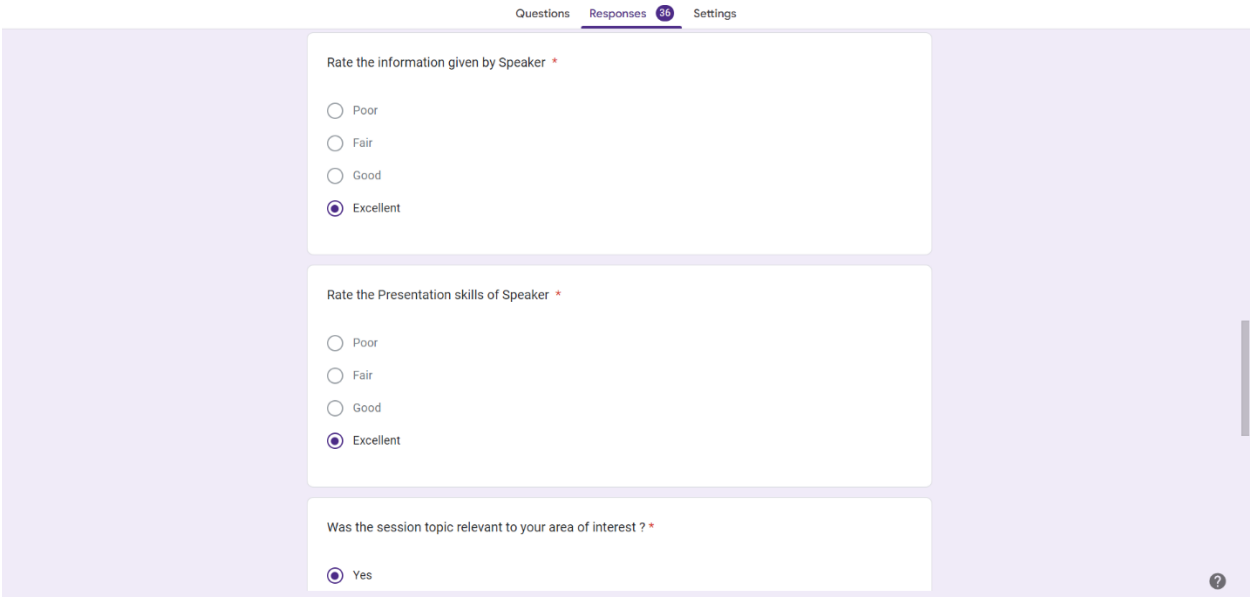
- There were a lot of hands-on exposure to different tools that can be utilized.
- Awareness of the dos and don'ts in ethical hacking was explained with case studies.
- Various real time applications and scenarios were given to explain the concepts along with fun activities for better explanation of the concepts.

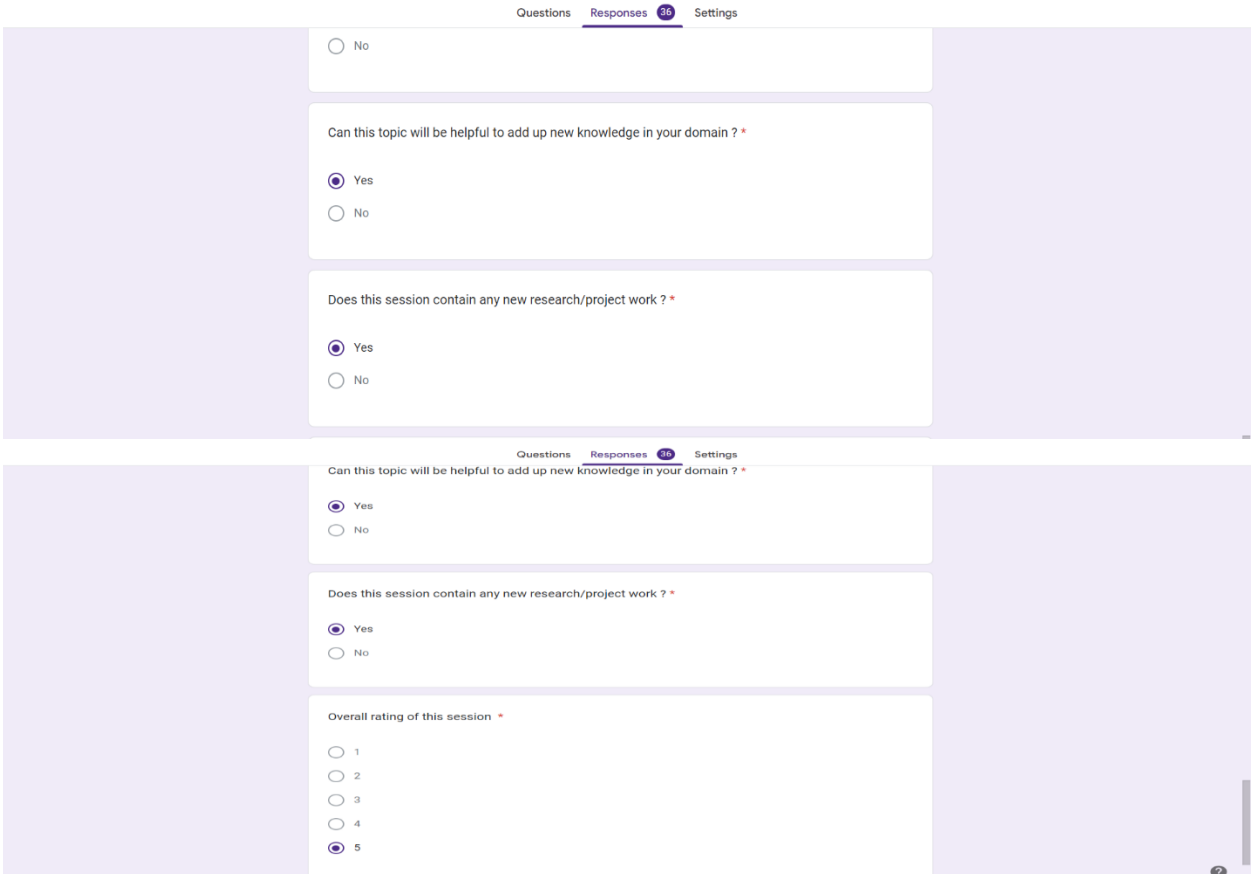
Corrective methods/suggestions to consider while conducting open course next time.

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

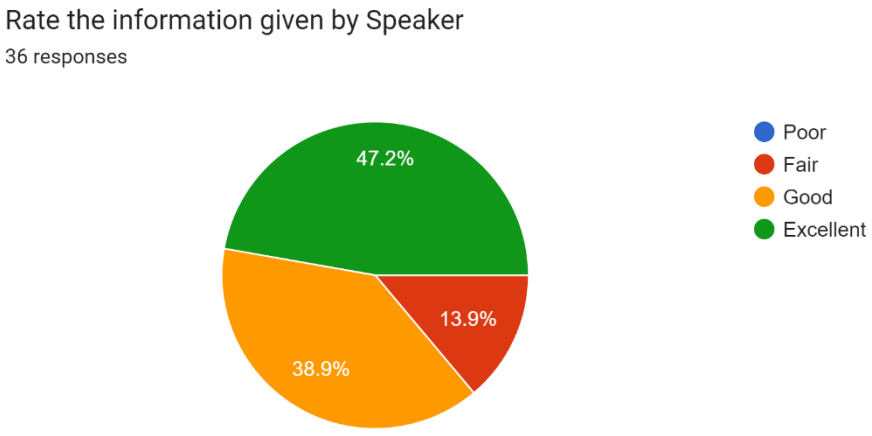
Sample course feedback form





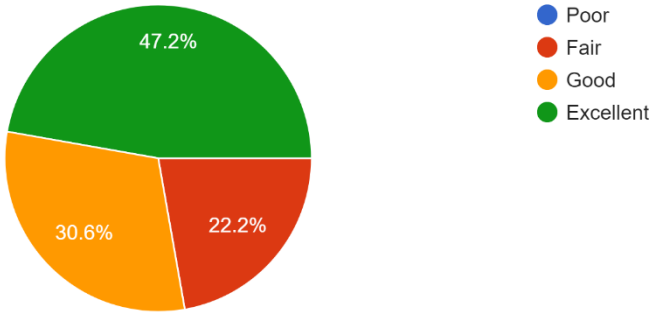


Sample course feedback form



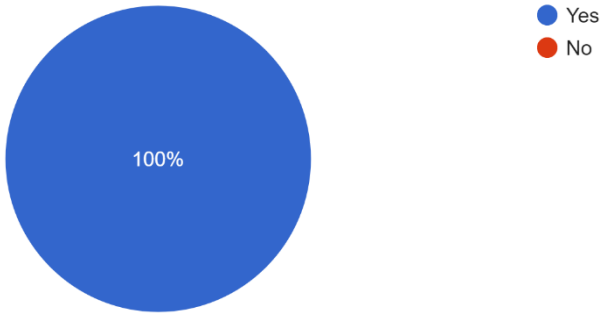
Rate the Presentation skills of Speaker

36 responses



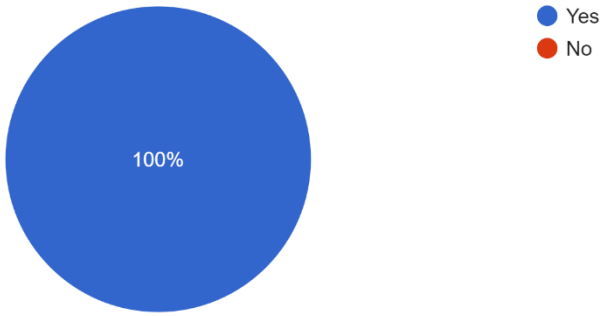
Was the session topic relevant to your area of interest ?

36 responses



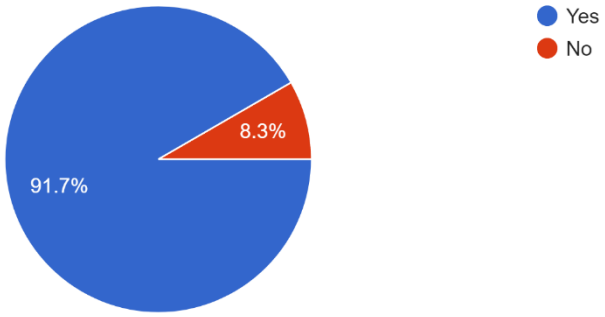
Can this topic will be helpful to add up new knowledge in your domain ?

36 responses



Does this session contain any new research/project work ?

36 responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Computer science and Engineering		
Title of the Open Course		Hands-on Robotics with ROS
Targeted Students (Branches)		CSE, Mech, ECE, ISE
Registration Fee		400/-
No. of students attended		50
Software/Hardware Tools used		Gazebo, Rviz, MoveIT, TinkerCAD, OpenC, Python
Delivery Methods		PPT, Video Hands-on, blackboard and chalk
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Mrs. Ambika G N
	Mobile No.	9902323632
	Email ID	ambikagn@bmsit.in
Internal Resource Person Details	Name	Mrs. Ambika G N
	Designation	Assistant Professor
	Mobile Number	9902323632
	Name	-
	Designation	-
	Mobile Number	-
	Name	-
	Designation	-
	Mobile Number	-
External Resource Person Details	Name	Mr. S N Shashank
	Designation	Associate Software Engineer
	Company/Organization	Informitica
	Mobile Number/email-id	8431897882
	Name	-
	Designation	-
	Company/Organization	-
	Mobile Number/email-id	-
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs): **PO1,4,5,8,9,&12**		
Abstract		Robots are increasingly important in our daily lives, replacing humans in industries and hazardous environments. Programming robots used to be complex, but not anymore. This course introduces Robotics and Robotic Operating System (ROS), a set of open-source software libraries and tools for building robot applications. ROS enables the creation of software for advanced robots capable of machine learning, computer vision, and AI.
Photograph of the event :		

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Hands -On Robotics with ROS"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2.5			3	3			2.5	2			3

Feedback from external expert:

1. External Speaker appreciated the participants for being interactive
2. suggested to have the upgraded Laptops.

Feedback (critical) from students:

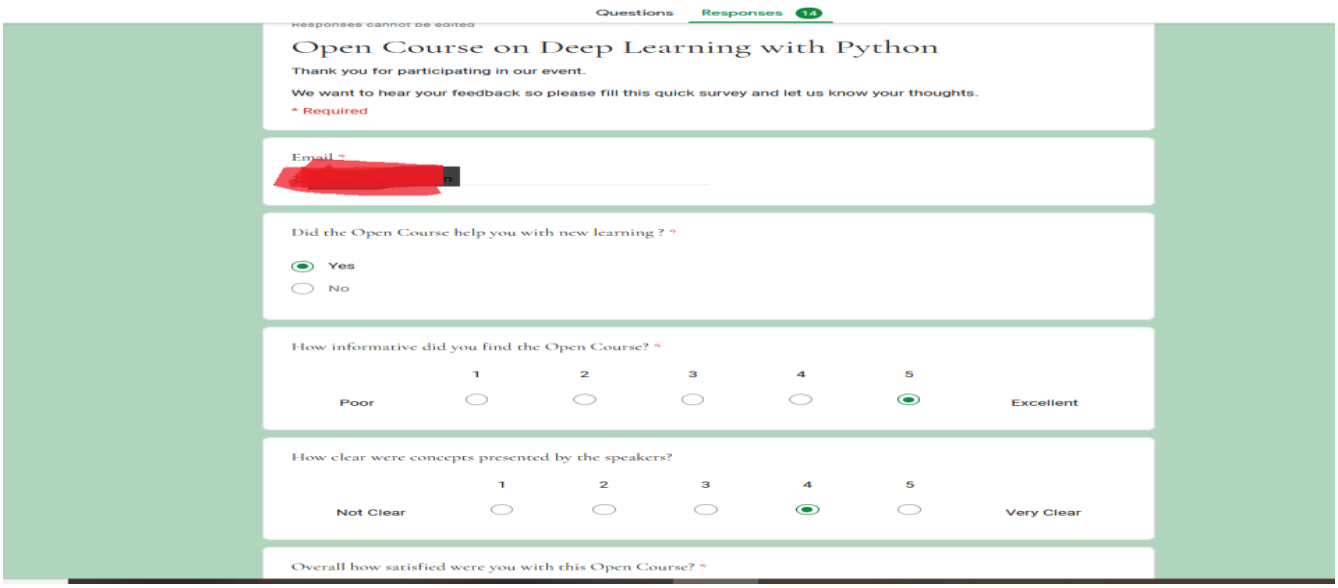
1. Python Course must be conducted before Deep learning

2. Some of the sessions handled by external speaker should have been clearer

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

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

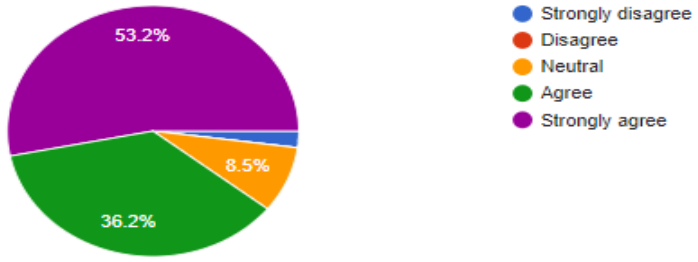
Sample course feedback form



Sample course feedback form

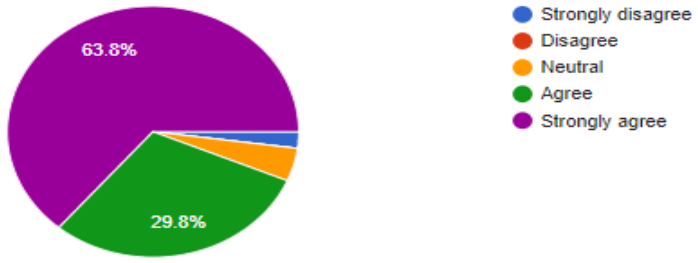
The instructor effectively explained and illustrated course concepts

47 responses



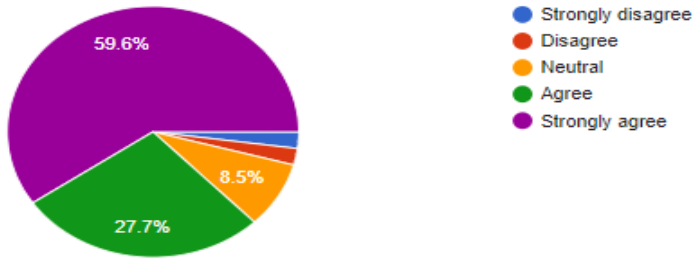
The instructor encouraged student participation in class

47 responses



The instructor communicated clearly and was easy to understand

47 responses



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Computer Science and Engineering		
Title of the Open Course		Java Programming for Placements
Targeted Students (Branches)		UG all Branches of Engineering
Registration Fee		400
No. of students attended		37
Software/Hardware Tools used		JDk 6.0,editplus,xampp
Delivery Methods		All 5 Days-Hands on session
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		QUIZ TEST
Open Course Chief Coordinator Details	Name	Dr. Nagbhushan s.v
	Mobile No.	9945399248
	Email ID	nagabhushansv@bmsit.in
Internal Resource Persons Details	Name	Dr. Nagbhushan
	Designation	Associate Professor
	Mobile Number	9945388248
	Name	Dr. Bhuvaneshwari C Melinamath
	Designation	Professor
	Mobile Number	8310661177
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) **PO1,4,5,8,9,&12**		
Abstract	The prerequisite knowledge on Java programming is very much important for the placements. With this background we started to offer complete hands-on session for java programming for all the 5 days. The knowledge on basics of object oriented concepts, why java and its importance in current scenario, fundamentals of java programming constructs, Threads, Exceptions, Collections, classes and objects, packages, utilities, java networking , user interface creation , deployment in web application server was taught. Coding, quiz.	

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Java programming for Placements"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3			3	3			3

Feedback (critical) from students:

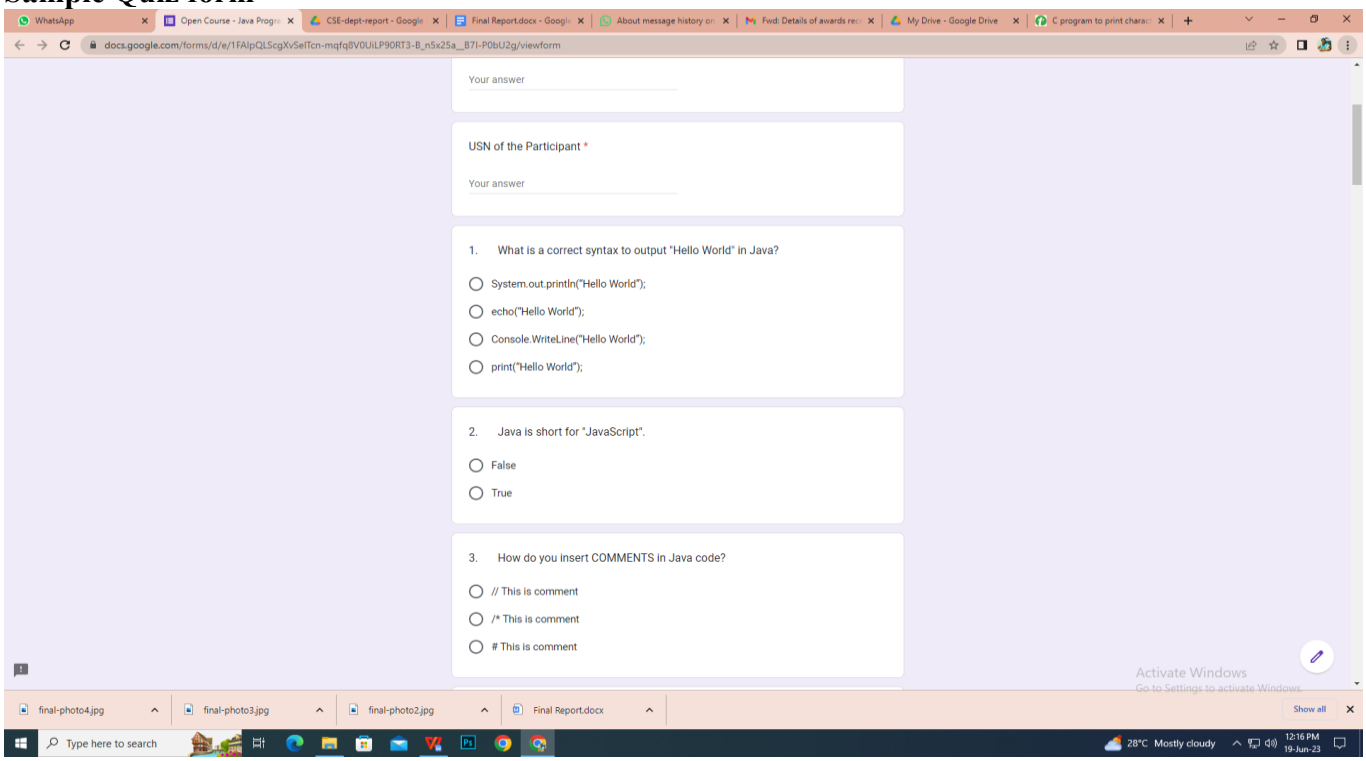
1. Hands on session provided simultaneously with the theory lectures
2. Very good explanation
3. The way teachers helped in understanding the course from the basics please increase the course hour and in depth explanation, in just 5 days how can we learn so many big topics and to write the test.
4. A better understanding about the course

5. Complete hands on experience was there through the open course which made me learn Java to some extent
6. The concepts of oops were taught properly. Advanced concepts of java was taught
7. It was informative .the hands-on session was very helpful

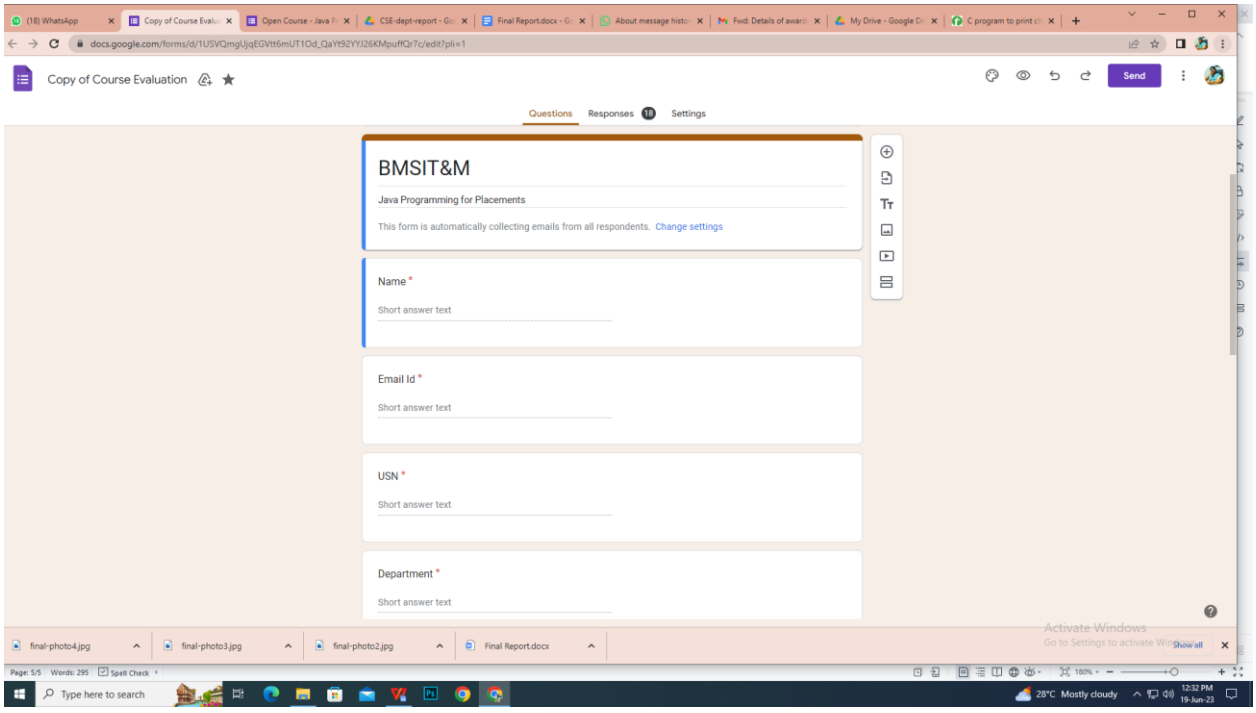
Corrective methods/suggestions to consider while conducting open course next time.

1. Please increase the course hour and in-depth explanation, in just 5 days how can we learn so many big topics and to write the test.
2. Could have been more interesting and interactive and a bit of less tests and quiz.
3. Was very useful. Could have given few exercises to solve more theoretical concepts could have been taught.

Sample Quiz form



Sample course feedback form



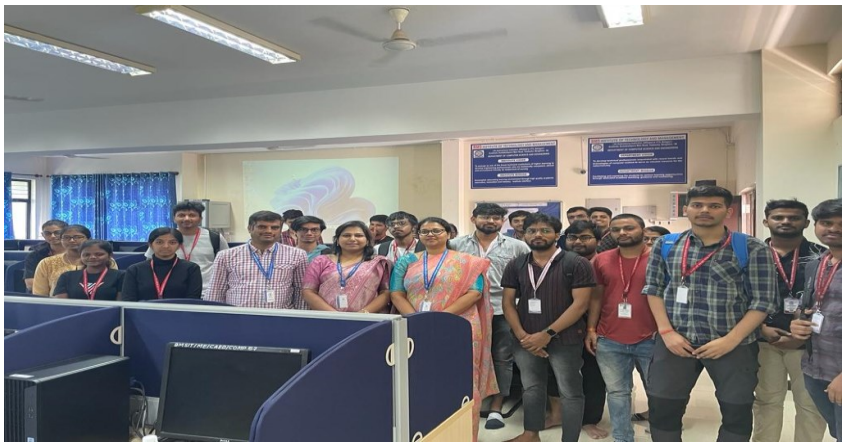
OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Computer Science & Engineering		
Title of the Open Course		Mobile Application Development
Targeted Students (Branches)		CSE, ISE,AIML,ETE,ECE
Registration Fee		400
No. of students attended		35
Software/Hardware Tools used		Android Studio
Delivery Methods		Power point presentation, Hands on Session
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz, mini-Project
Open Course Chief Coordinator Details	Name	Dr. Satish Kumar T
	Mobile No.	9980500700
	Email ID	satisht@bmsit.in
Internal Resource Person Details	Name	Dr. Vishwakiran S
	Designation	Associate Professor
	Mobile Number	9845105680
	Name	Mrs. Bharathi R
	Designation	Associate Professor
	Mobile Number	9980876453
	Name	Dr. Dhanalakshmi B K
	Designation	Assistant Professor
	Mobile Number	9632744662
	Name	Dr. Archana R A
	Designation	Assistant Professor
	Mobile Number	9663299433
External Resource Person Details	Name	Mr. Chetan S P
	Designation	MD & CEO
	Company/Organization	Tackle-D Private Limited
	Mobile Number/email-id	9606264610 / Chetan.tackled.co.in
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) **PO1,4,5,8,9,&12**		
Abstract		Mobile application development is the process of making software for smartphones, tablets and digital assistants, most commonly for the Android and iOS operating systems. The software can be preinstalled on the device, downloaded from a mobile app store or accessed through a mobile web browser. The programming and markup languages used for this kind of software development include Java, Swift, C# and HTML5. Mobile app development is rapidly growing. From retail, telecommunications and e-commerce to insurance, healthcare and government, organizations across industries must meet user

	expectations for real-time, convenient ways to conduct transactions and access information. Today, mobile devices—and the mobile applications that unlock their value—are the most popular way for people and businesses to connect to the internet. To stay relevant, responsive and successful, organizations need to develop the mobile applications that their customers, partners and employees demand.

Photograph of the event :



Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			2	2			0	3			3

Feedback from external expert:

1. External Speaker appreciated the participants for being interactive and highly enthusiastic in learning the new concepts.

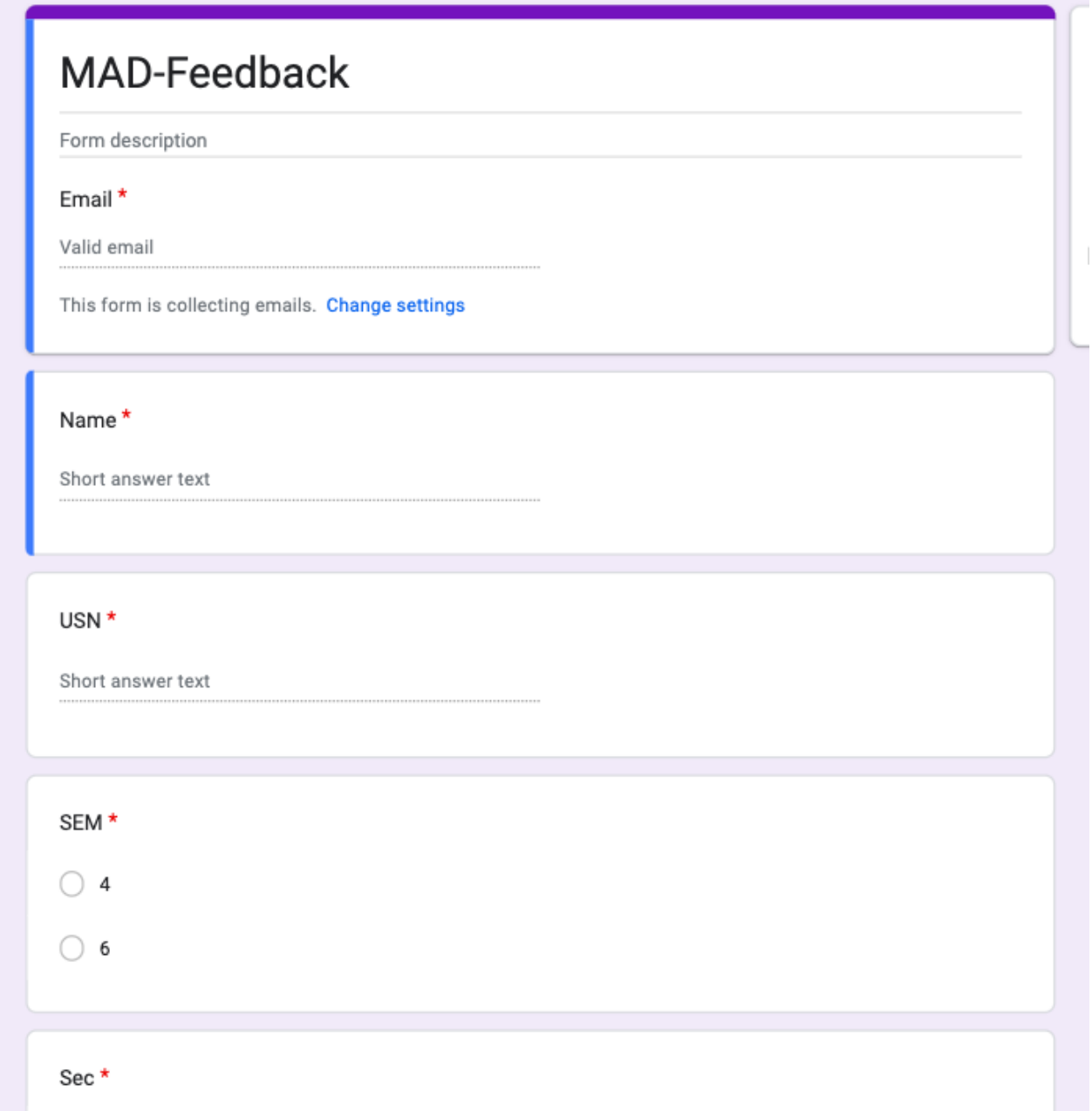
Feedback from students:

1. The course is interesting
2. It was a good learning session.
3. The hands on session are super useful and informative
4. It was a very good and interactive session

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

1. Pre -requisite like java to be covered first as to gain depth knowledge about Mobile Application development
2. Sufficient time must be given to participants to complete the project.

Sample course feedback form



MAD-Feedback

Form description

Email *

Valid email

This form is collecting emails. Change settings

Name *

Short answer text

USN *

Short answer text

SEM *

4

6

Sec *

SEM

22 responses

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Sec

22 responses

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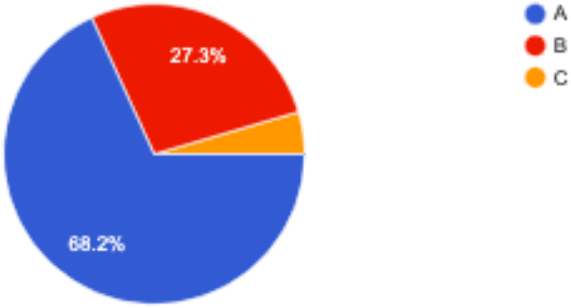

Daywise

22 responses

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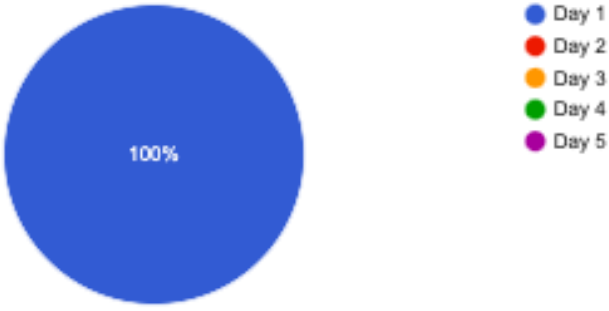
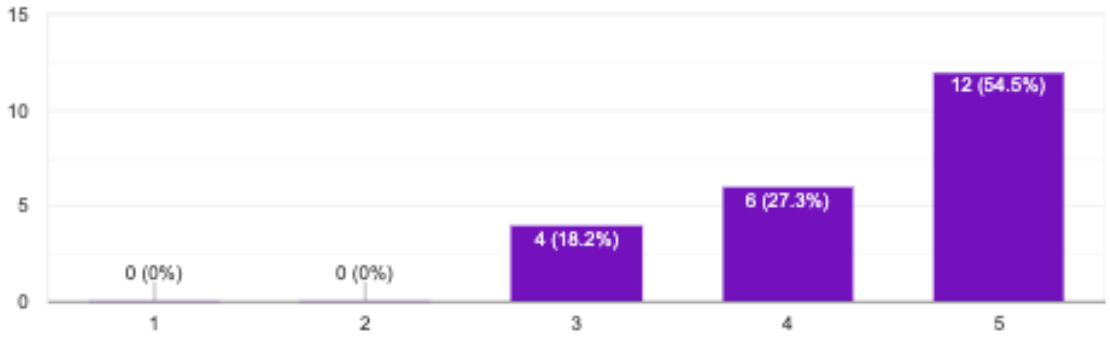


How satisfied were you with the today's session?

Copy

22 responses



Did the Open Course helped you with New Learning?

Copy

22 responses

Speaker was able to explain the topic clearly & used relevant examples

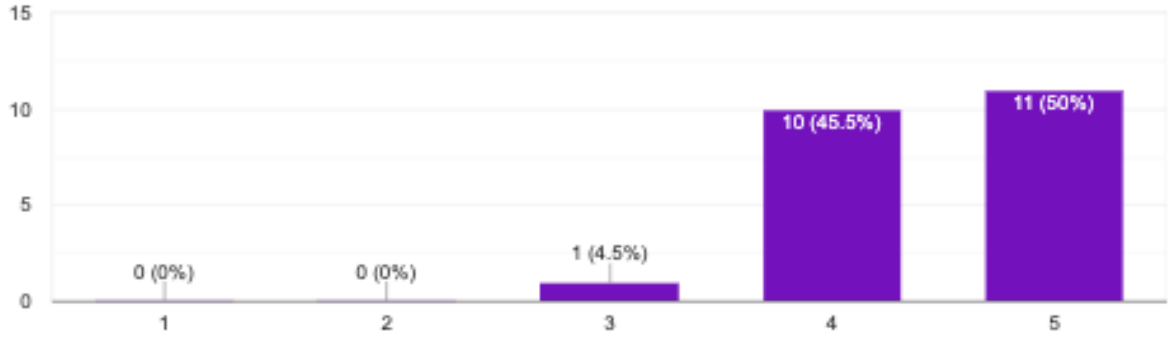
Copy

22 responses

Speaker was able to explain the topic clearly & used relevant examples

Copy

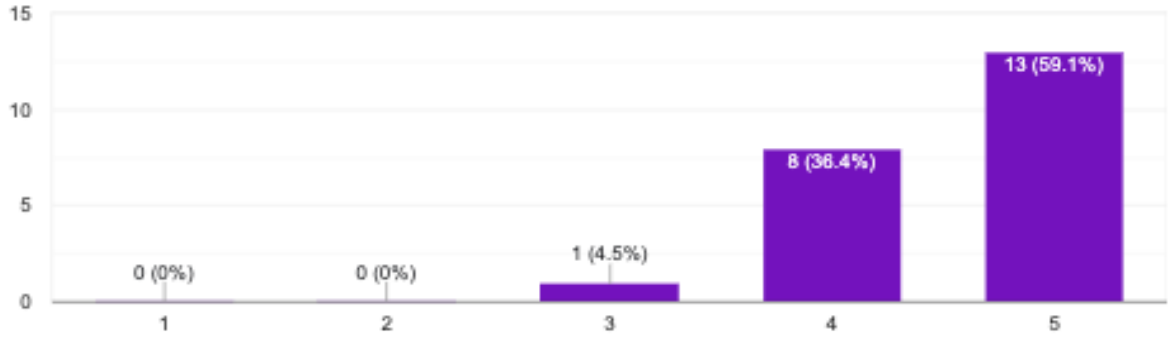
22 responses



The lecture was interactive and felt engaged

Copy

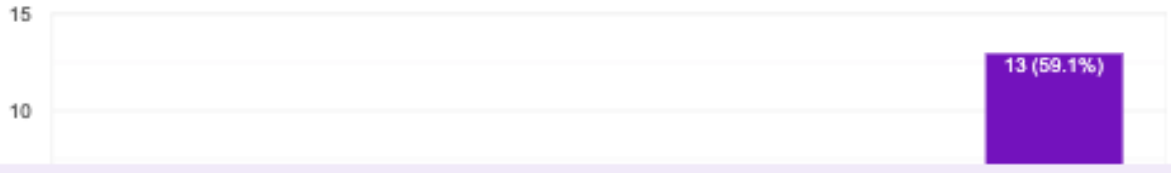
22 responses



How do you rate the the gap filled between Academics and Industry through the opencourse?

Copy

22 responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Computer Science and Engineering		
Title of the Open Course		AI Applications with R-Programming
Targeted Students (Branches)		All branch students
Registration Fee		Rs.400/-
No. of students attended		60
Software/Hardware Tools used		Anaconda, R
Delivery Methods		Presentation and Hands-on session
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Radhika K R and Prof. Durgadevi G Y
	Mobile No.	9980326660,9480613001
	Email ID	durgadevigy@bmsit.in,radhika@bmsit.in
Internal Resource Person Details	Name	Prof. Durgadevi G Y
	Designation	Assistant Professor
	Mobile Number	9480613001
	Name	Dr. Radhika K R
	Designation	Assistant Professor
	Mobile Number	9980326660
External Resource Person Details	Name	Mr. Majid Shaikh
	Designation	Technical Director
	Company/Organization	Zeta coding Innovative solutions
	Mobile Number/email-id	9742682028
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs): **PO1,4,5,8,9,&12**		
Abstract	Artificial intelligence is a field, which combines computer science and robust datasets, to enable problem-solving. It also encompasses sub-fields of machine learning and deep learning, which are frequently mentioned in conjunction with artificial intelligence. These disciplines are comprised of AI algorithms which seek to create expert systems which make predictions or classifications based on input data.	
Photograph of the event :		

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "AI Applications with R Programming"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			0	3			0	0			0

Feedback from external expert:

1. The External Speaker appreciated the participants for being interactive and also good at Hands on sessions.

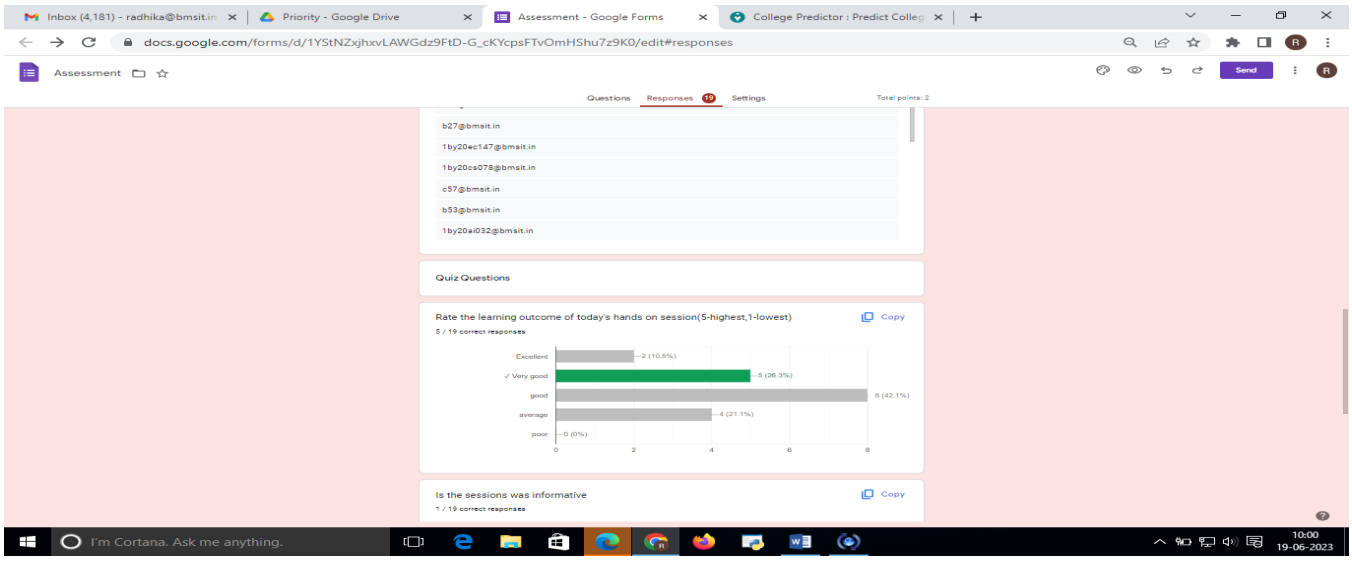
Feedback (critical) from students:

1. More explanation can be given on the code
2. Morning attendance take for 2 sessions separately

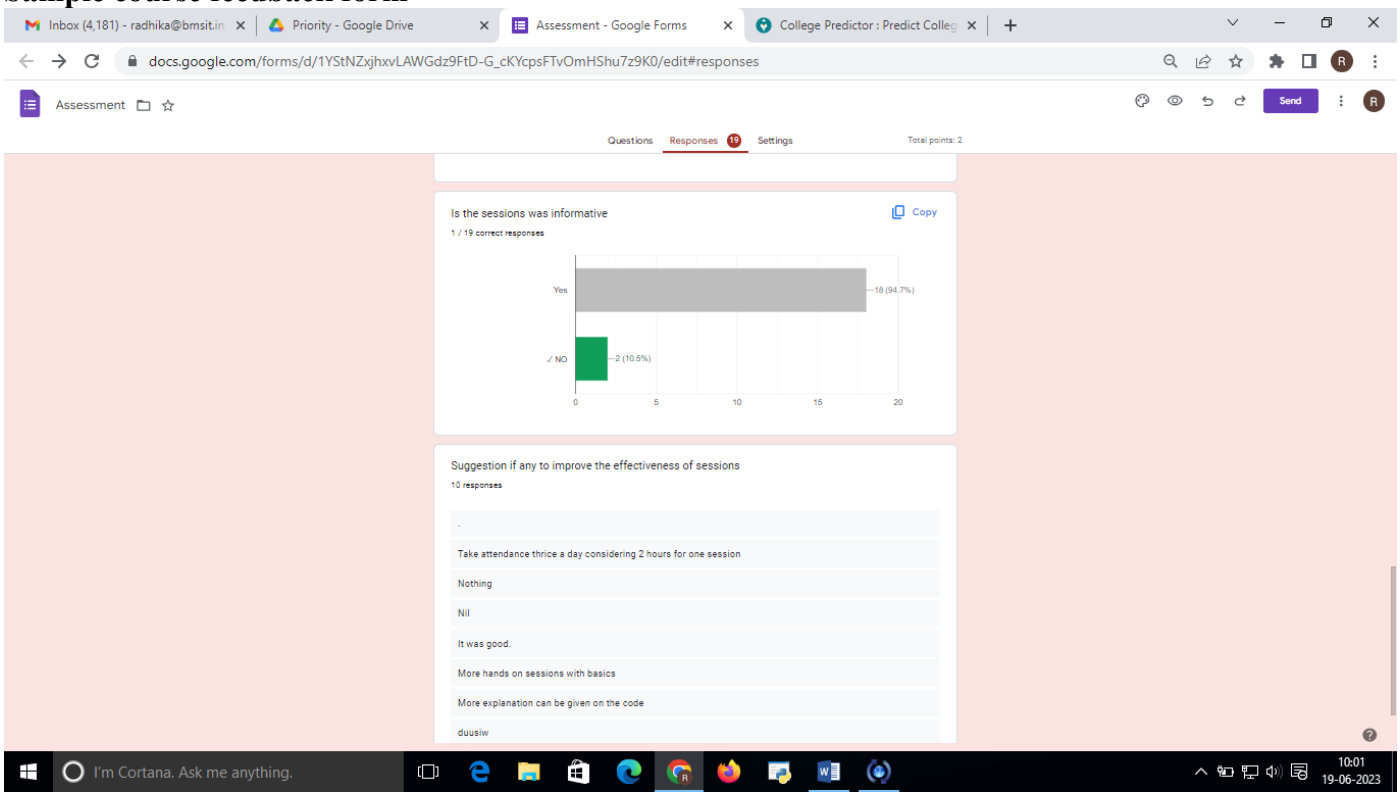
Corrective methods/suggestions to consider while conducting open course next time.

1. Planned for mini project
2. Sufficient time must be given to participants to complete their assignment

Sample course feedback form



Sample course feedback form



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Computer Science and Engineering		
Title of the Open Course		Start Earning! - VFX Unleashed: Mastering the Art of Video Editing, 3D Rendering and Visual Effects in 5 days
Targeted Students (Branches)		All branches
Registration Fee		400/-
No. of students attended		60
Software/Hardware Tools used		Adobe Premiere Pro, Blender
Delivery Methods		Hands-on
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz, Activity
Open Course Chief Coordinator Details	Name	Prof. Shankar R
	Mobile No.	9611616136
	Email ID	shankar@bmsit.in
Internal Resource Person Details	Name	Prof. Shankar R
	Designation	Assistant Professor
	Mobile Number	9611616136
	Name	Dr. Sunanda Dixit
	Designation	Assistant Professor
	Mobile Number	+91 83105 29894
	Name	Prof. Rajesh N V
	Designation	Assistant Professor
	Mobile Number	+91 99168 51364
External Resource Person Details	Name	Mr. Kevin Phillip
	Designation	Designer
	Company/Organization	Mindtree
	Mobile Number/email-id	+91 98803 52217
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) **PO1,4,5,8,9,&12**		
Abstract		This course on video editing, visual effects, and 3D CGI rendering offers students a comprehensive understanding of the intricate processes involved in post-production and digital content creation. Through a combination of theoretical knowledge and practical hands-on experience, participants will explore the artistry and technical aspects of video editing, mastering essential software tools, and techniques to transform raw footage into compelling narratives. Moreover, the course delves into the realm of visual effects, unraveling the secrets behind the creation of stunning visuals that seamlessly integrate with live-action footage. Students will learn the principles of compositing, color grading, motion graphics and the basics of 3D rendering used in today's world gaining the ability to enhance scenes and environments

	through digital manipulation. Additionally, the course introduces participants to the captivating world of 3D CGI rendering, where they will acquire skills in modeling, texturing, lighting, and animation to construct lifelike virtual environments and build their own 3D scenes.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Start Earning! - VFX Unleashed: Mastering the Art of Video Editing, 3D Rendering and Visual Effects in 5 days"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			0	**3**			0	0			**3**

Feedback from external expert:

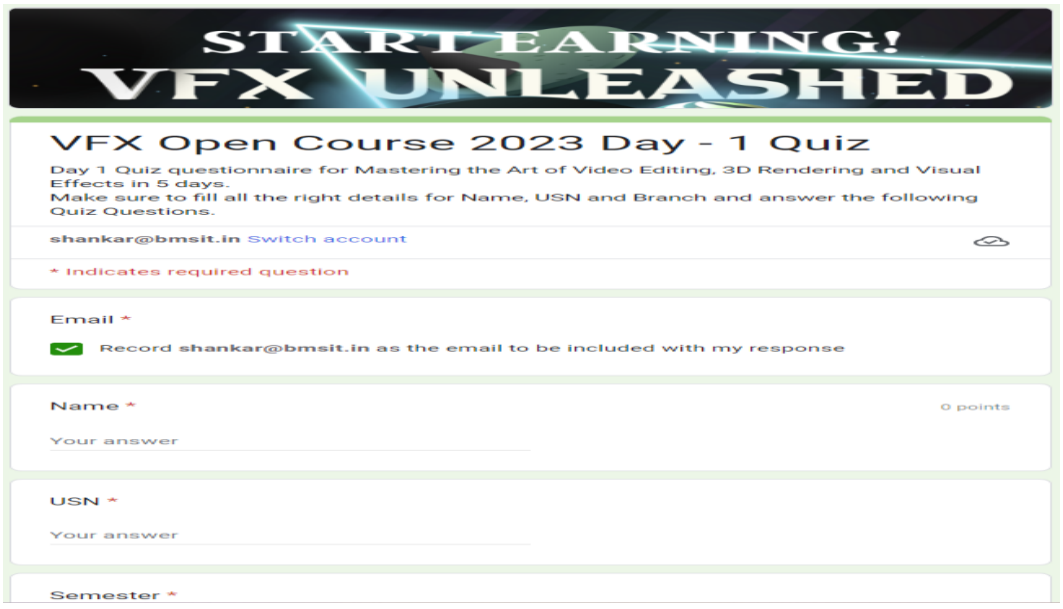
1. External Speaker appreciated the participants for being interactive

Feedback (critical) from students:

- I felt that the person in charge of teaching us has a deep knowledge with regard to Adobe premiere pro. I feel this course will be helpful for us for learning editing and rendering. Overall a great course.
- It was a good and interesting session. Adobe premium pro is actually fun to work with.
- It was good hoping we learn to edit video such as making an ad etc. in upcoming days.

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

- Require a bigger lab
- 3 days would be better



Sample course feedback form

1. Which panel in Premiere Pro allows you to import and organize your media files? * 1 point

- ○ Project panel
- ○ Source panel
- ○ Timeline panel
- ◉ Effects panel

2. What does the term "timeline" refer to in Premiere Pro? * 1 point

- ○ The workspace where you arrange and edit your clips
- ○ The process of exporting your video project
- ◉ The panel where you can apply visual effects
- ○ The library of pre-built templates and presets

3. What is the keyboard shortcut for splitting a clip in Premiere Pro? * 1 point

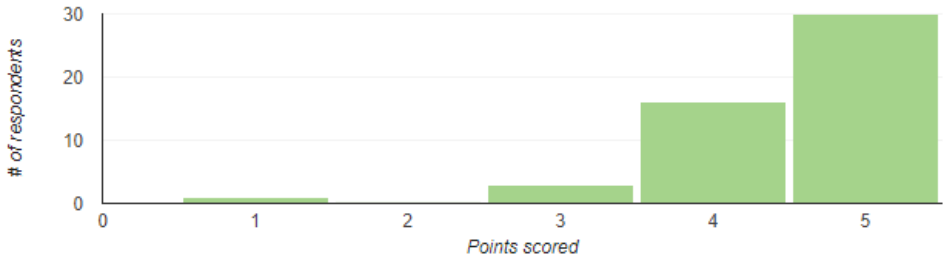
- ◉ Ctrl + C
- ○ Ctrl + V
- ○ Ctrl + X
- ○ Ctrl + K

4. Which panel in Premiere Pro allows you to add and adjust visual effects to your clips? * 1 point

Insights

Average	Median	Range
4.48 / 5 points	5 / 5 points	1 - 5 points

Total points distribution

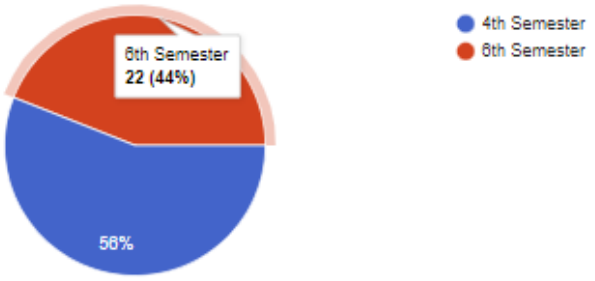


Scores

Release scores

a30@bmsit.in	5	Jun 12 4:06 PM
h28@bmsit.in	5	Jun 12 4:07 PM
sathwik.korkod@gmail.com	1	Jun 12 4:07 PM
sameeksha.saman@gmail.com	4	Jun 12 4:11 PM
bhargavtejai123@gmail.com	4	Jun 12 4:53 PM
kalwani.pratham@gmail.com	4	Jun 12 5:23 PM

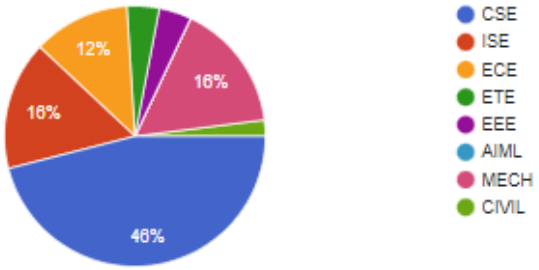
50 responses



Branch

Copy

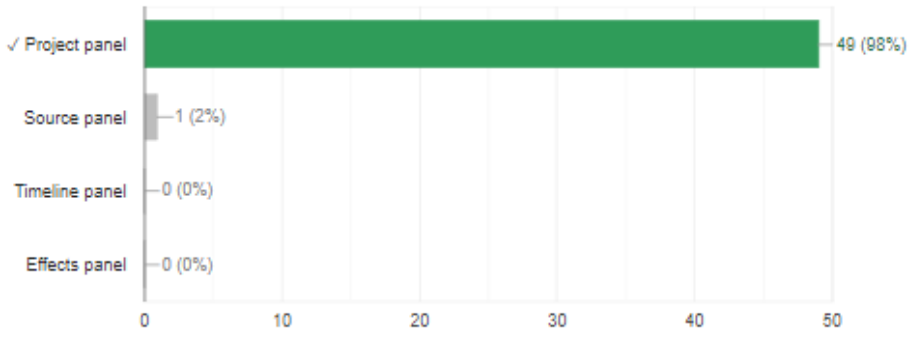
50 responses



1. Which panel in Premiere Pro allows you to import and organize your media files?

Copy

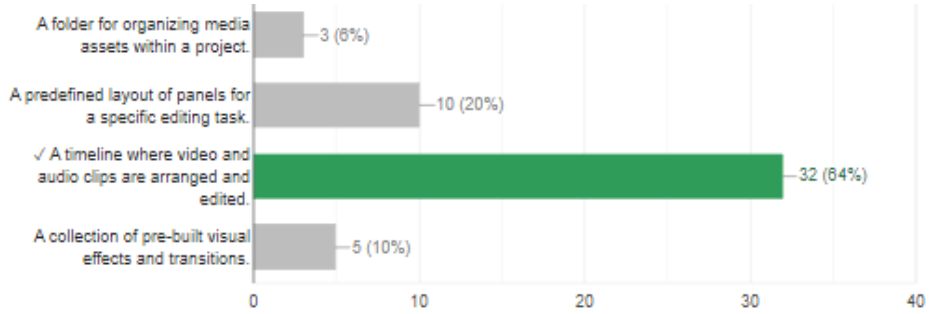
49 / 50 correct responses



2. What does the term "timeline" refer to in Premiere Pro?

Copy

46 / 50 correct responses

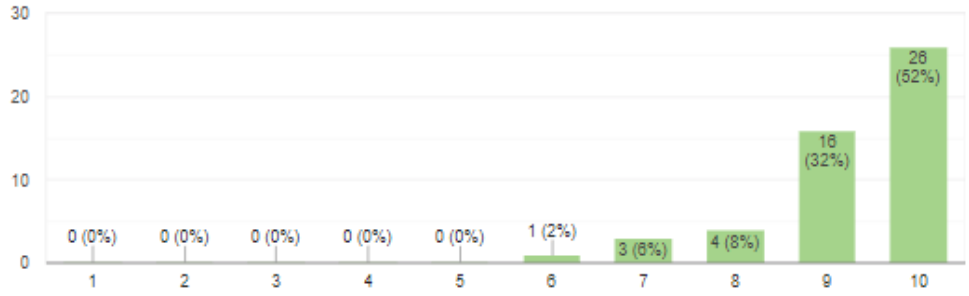


Feedback Section

Feedback Rating

Copy

50 responses



Feedback

50 responses

- It was good
- Great opportunity to learn vfx
- Intersting
- Amazing session , best open course ever!
- I felt that the person in charge of teaching us has a deep knowledge with regard to Adobe premiere pro. I feel this course will be helpful for us for learning editing and rendering. Overall a great course.
- Very good experience
- Interesting and fun session!!
- Good instructor

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Computer Science and Engineering		
Title of the Open Course		Gaming and Augmented and Virtual reality Mode Designing : A Metaverse
Targeted Students (Branches)		ANY BRANCH
Registration Fee		400/-
No. of students attended		30
Software/Hardware Tools used		Unity 3D
Delivery Methods		Face to face and Hands on
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		MCQs
Open Course Chief Coordinator Details	Name	Dr. Srivani P
	Mobile No.	8904021886
	Email ID	srivanicse@bmsit.in
Internal Resource Person Details	Name	Dr. Srivani P
	Designation	Asst. Professor
	Mobile Number	8904021886
	Name	Prof Bharathi R
	Designation	Associate Professor
	Mobile Number	9980876453
	Name	Prof Mari Kirthima
	Designation	Asst. Professor
	Mobile Number	9880043718
External Resource Person Details	Name	Dr Ashwini K B
	Designation	Associate Professor
	Company/Organization	RV College of Engineering
	Mobile Number/email-id	9972128486/ ashwinikb@rvce.edu.in
	Name	Prof. Vetrimani Elangoan
	Designation	Asst. Professor
	Company/Organization	Presidency University
	Mobile Number/email-id	6381304396 vetrimani.elangovan@presidencyuniversity.in
	Name	Rishav Vishen
	Designation	Senior Designer
	Company/Organization	Fundamento
	Mobile Number/email-id	9511893880 / rishav7203@gmail.com
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) **PO1,4,5,8,9,&12**		

Abstract	Virtual Reality (VR) and Augmented Reality(AR)hold tremendous promise for the future of gaming, marketing, e-commerce, education, and other sectors. People recognize both technologies for their improved experiences that combine virtual and real-world with enhanced, 3-D images. Although the two can be easily confused, there are some fundamental differences. There are numerous AR/VR technologies available in the market. AR devices can control their presence in the real world and can be accessed with a smartphone. VR devices are controlled by the system and require a headset device. Unity is the most widely used 3D development platform in the world. It powers 40 percent of the top 1,000 mobile games and more than half of all new mobile games, according to app analytics firm Apptopia. Along with Unreal Engine, the two popular game engines underpin most of the gaming experiences on the web. Unity3D is a powerful cross-platform 3D engine and a user-friendly development environment. Easy enough for the beginner and powerful enough for the expert; Unity should interest anybody who wants to easily create 3D games and applications for mobile, desktop, the web, and consoles. UI/UX design aims to create a positive user experience that encourages customers to stick with a brand or product. While a UX Designer decides how the user interface works, the UI designer decides how the user interface looks which is very much required for AR/ VR Applications. UX design refers to the term “user experience design”, while UI stands for “user interface design”. With all this in mind, understand that AR and VR are VERY different components than traditional UI/UX design for applications. This is because the lion’s share of AR/VR applications will be surface-less, multi-type input, and will allow for real-time shared experiences. Any gaming project takes a robust tech stack in order to get a flawless workflow and an outstanding result. For many companies, the Unity game engine became an integral part of game development and 3D content creation. With Unity being the most widely used engine to develop games across multiple platforms, there has never been a better time to get into the field. The topics covered in the sessions were • Importing objects in Unity application • Animation of the object • Using 3D models into Unity tool to build gaming applications • Animation of one object to another object • Terrain Creation • First and Third person control • Physics, Graphics • Game Building

	• UI/UX Model Designing • Audio, Scoring, Collision

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			0	3			0	0			3

Feedback from external expert:

- The students were very interactive and were eager to explore more
- Students were very much active in discussing and in trying to find ways to solve a problem, a good discussion insured.
- The institute provides a positive learning environment. The workshop was very well organized for the hands-on session. The required software was installed in advance, we had to just check it before starting the workshop.
- Technologies like Game Development and AR VR is a Emerging sectors. So we have to empower the students by providing enough opportunities. So the event was the right opportunity for them.

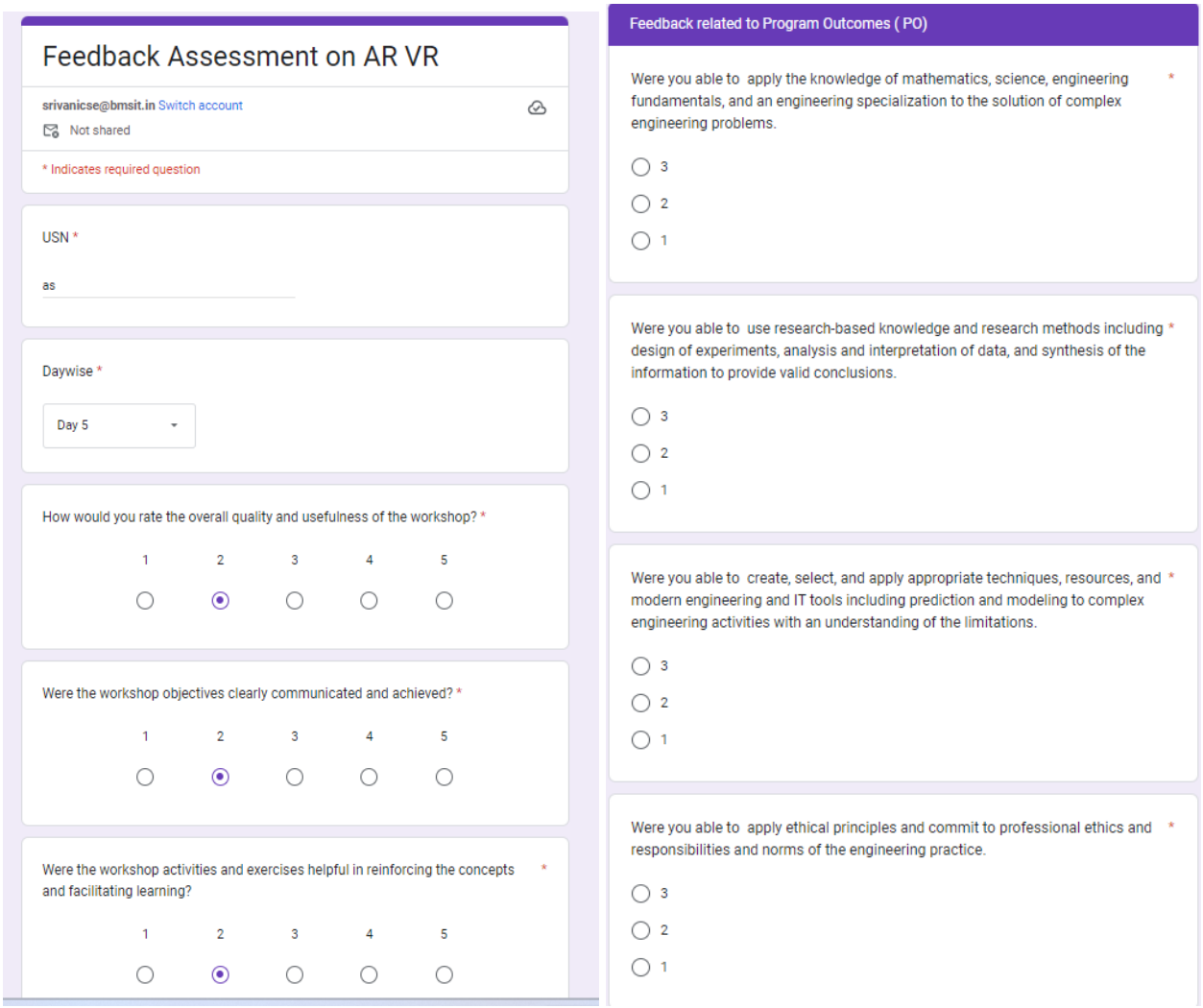
Feedback (critical) from students:

- Expecting more such workshops in future

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

- streamlined the registration process
- Expecting more such workshops in future

Sample course feedback form



Feedback Assessment on AR VR

srivanicse@bmsit.in Switch account

Not shared

* Indicates required question

USN *

as

Daywise *

Day 5

How would you rate the overall quality and usefulness of the workshop? *

1 2 3 4 5

Were the workshop objectives clearly communicated and achieved? *

1 2 3 4 5

Were the workshop activities and exercises helpful in reinforcing the concepts and facilitating learning? *

1 2 3 4 5

Feedback related to Program Outcomes (PO)

Were you able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. *

3
2
1

Were you able to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. *

3
2
1

Were you able to create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. *

3
2
1

Were you able to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. *

3
2
1

Good sessions

Dint give samosa

Didn't give samosa all these days

Game Development and familiarity with Unity tool

Unity

Understanding AR and VR

Understanding unity and technology in software world

Learnt more on designing and gaming

Learnt how to use unity and work in unity

Is there anything specific you would suggest for having such future workshops

8 responses

No

A VR set and more depth teachings in VR

More ar/vr

To have a lab on AR VR

none

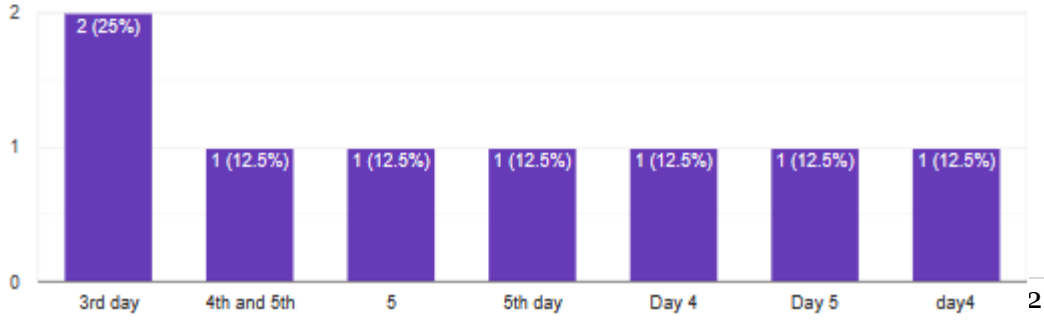
Express goodly

Building of Android games

Which day sessions you liked the most

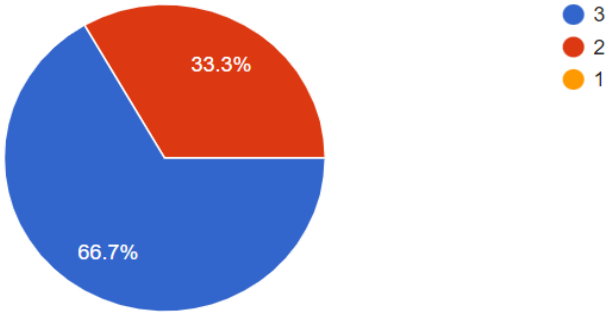
Copy

8 responses



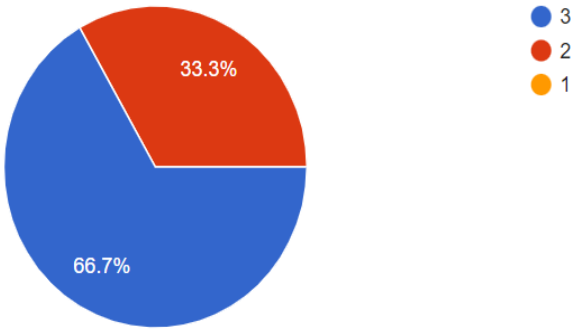
Were you able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

9 responses



Were you able to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

9 responses



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OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Civil Engineering		
Title of the Open Course		Research-Academic Writing (RAW-I) Phase 1: Skills, Tools and Ethics
Targeted Students (Branches)		All Branches
Registration Fee		Rs 400
No. of students attended		33
Software/Hardware Tools used		Software : Drillbit, Turnitin, Mendeley, Latex , Origin & Microsoft Excel
Delivery Methods		PPT
Assessment Methods (e.g.: Quiz, test,mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Rajesh Gopinath, Dr. Aruna G
	Mobile No.	7411021981 &8870199041
	Email ID	Dr.rajeshgopinath@bmsit.in, aarunasree@bmsit.in
Internal Resource Person Details	Name	Dr. Rajesh Gopinath
	Designation	Associate Professor
	Mobile Number	7411021981
	Name	Dr. Aruna G
	Designation	Associate Professor
	Mobile Number	8870199041
	Name	Dr Lalit Kumar Gupta
	Designation	Assistant Professor
	Mobile Number	9314120770
	Name	DrAnup G Ekbote
	Designation	Assistant Professor
	Mobile Number	9591431809
	Name	Dr. Athiyamaan V
	Designation	Assistant Professor
	Mobile Number	9566813212
	Name	Prof Shimna Manoharan
	Designation	Assistant Professor
	Mobile Number	8129680788
	Name	Ms Archana K.
	Designation	Assistant Professor
	Mobile Number	9739912739
	Name	Dr. Gopalakrishna
	Designation	Librarian
	Mobile Number	8618531385
External Resource Person	Name	Prof. Jessy Koshy
	Designation	Senior Lecturer
	Company/Organization	The Oxford College of Engineering

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Details		
	Mobile Number/email-id	9945590211
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) : PO5, PO8, PO10, PO12		
Abstract	Department of Civil Engineering has organized an open course title "Research-Academic Writing (RAW-I)-Phase 1: Skills, Tools and Ethics" from 12th to 16th June 2023 coordinated by Dr. Rajesh Gopinath & Dr. Aruna G. Totally 33 student have registered for this course. There were totally 21 sessions, handled by 1 external & 8 internal resource persons. The major takeaway from this exercise included equipping the students with knowledge on importance of carrying out research in a skilful & ethical manner. As part of this, the students were enabled on how to write a research paper and related to the significance of each of its components. Hands on session were carried out on advanced research tools. This open course culminated with hands on exercise for making an effective power point presentation with focus on norms & ethics. Feed-back and quiz was undertaken at the end of each day & overall feed-back was taken on the final day.	

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Research-Academic Writing**"**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	**3**			**3**	**3**			**3**	**3**			**3**

Feedback from external expert:
1. External Speaker appreciated the participants for being interactive

Feedback (critical) from students:
1. In-sufficiency of time in Hands-on Session

Corrective methods/suggestions to consider while conducting open course next time.
1. The contents of open course could have been further diluted to be more specific.

Sample course feedback form

RAW- 1 : Open Course (12-16 June 2023)

Overall Course-end Survey & Feedback

Email *

1BY20CV002@bmsit.in

Name of the Student *

Ankitha R

USN *

1BY20CV002

Semester *

6th

Branch *

Civil

EMAIL ID *

1BY20CV002@bmsit.in

Would you be able to **Distinguish between the different types of Research Articles**? *

- (●) Strongly agree
- ( ) Moderately agree
- ( ) Weakly agree

Would you be able to **Employ various Modern Tools , while undertaking Research ?** *

- (●) Strongly agree
- ( ) Moderately agree
- ( ) Weakly agree

Would you be able to **Identify target journal for your research paper?** *

- (●) Strongly agree
- ( ) Moderately agree
- ( ) Weakly agree

Would you be able to **skillfully draft various components of a Journal Paper?** *

- (●) Strongly agree
- ( ) Moderately agree
- ( ) Weakly agree
- ( ) Other: _____

Would you be able to Recognize the nuances to ethically prepare a Journal Paper? *

- (●) Strongly agree
- ( ) Moderately agree
- ( ) Weakly agree
- ( ) Other: .....

Would you be able to Prepare an effective PowerPoint presentation? *

- (●) Strongly agree
- ( ) Moderately agree
- ( ) Weakly agree
- ( ) Other: .....

This form was created inside of BMS Institute of Technology and Management.

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Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Civil Engineering		
Title of the Open Course		Planning And Drawing Of Residential Building
Targeted Students (Branches)		CS/CV/ME/EE/EC/TCE/IS/AIML
Registration Fee		Rs 400/-
No. of students attended		60
Software/Hardware Tools used		Software
Delivery Methods		PPT,MCQ, Hands on Experience
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Satish Kumar T
	Mobile No.	99805 00700
	Email ID	satisht@bmsit.in
Internal Resource Person Details	**1.Name**	Dr.Rajkumara H N,
	Designation	Professor and Head CV
	Mobile Number	96325 48043
	2.Name	Mrs Shobha R
	Designation	Assistant Professor
	Mobile Number	99013 33533
	3.Name	Dr Vinod B R
	Designation	Assistant Professor
	Mobile Number	9060179977
	4.Name	Ar.Rekesh M
	Designation	Assistant Professor
	Company/Organization	BMSSA
	Mobile Number/email-id	95384 51548
	5.Name	Ar. Praneetha J
	Designation	Assistant Professor
	Company/Organization	BMSSA
	Mobile Number/email-id	97403 19950
	6.Name	Er.VIkas C
	Designation	Sr Project Engineer
	Company/Organization	Fidelitus corp.
	Mobile Number/email-id	86608 31486
External Resource Person Details	**1.Name**	Mr. Mohan Prabhu
	Designation	Technical Manager
	Company/Organization	Medini
	Mobile Number/email-id	99454 73093

Abstract	The open course on "Planning and Drawing of Residential Building" aims to provide participants with comprehensive knowledge and practical skills in the planning and drawing process of residential structures. This course is designed to cater to students construction. The course begins with an introduction to the fundamental principles of residential building design, including spatial planning, functional requirements, and aesthetic considerations. Participants will learn about the different types of residential buildings, building codes and regulations, and site analysis. The course then delves into the process of drawing residential building plans using computer-aided design (CAD) software. Participants will be introduced to the basic tools and techniques of CAD, including creating floor plans, elevations, sections, and 3D models. Hands-on exercises and projects will allow participants to apply their knowledge and develop their skills in creating accurate and detailed drawings. Throughout the course, emphasis is placed on sustainable and energy-efficient design principles. Participants will explore concepts such as passive design strategies, green building materials, and renewable energy integration in residential buildings. The course also addresses considerations for universal accessibility and building codes related to safety and structural integrity. By the end of the course, participants will have a solid understanding of the planning and drawing process for residential buildings. They will be equipped with the skills to create comprehensive architectural drawings, communicate design ideas effectively, and navigate the regulatory framework for residential construction projects. The open course provides a flexible learning environment, allowing participants to study at their own pace and engage in discussions and collaborative exercises through online platforms. Access to resources, including video lectures, tutorials, and reference materials, will be provided to enhance the learning experience. Overall, this open course aims to empower participants with the knowledge and skills necessary to plan and draw residential buildings efficiently and effectively. It serves as a valuable resource for individuals aspiring to pursue careers in architecture, engineering, construction management, or related fields, as well as for anyone with an interest in residential building design and construction.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "PLANNING AND DRAWING OF RESIDENTIAL BUILDING"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3			3	3			3

Feedback from external expert:

1. Openness to Learning: The external speaker acknowledged the participants' openness to learning new concepts and techniques related to planning and drawing residential buildings. They noticed that the participants approached the session with enthusiasm and a willingness to absorb new knowledge and skills.

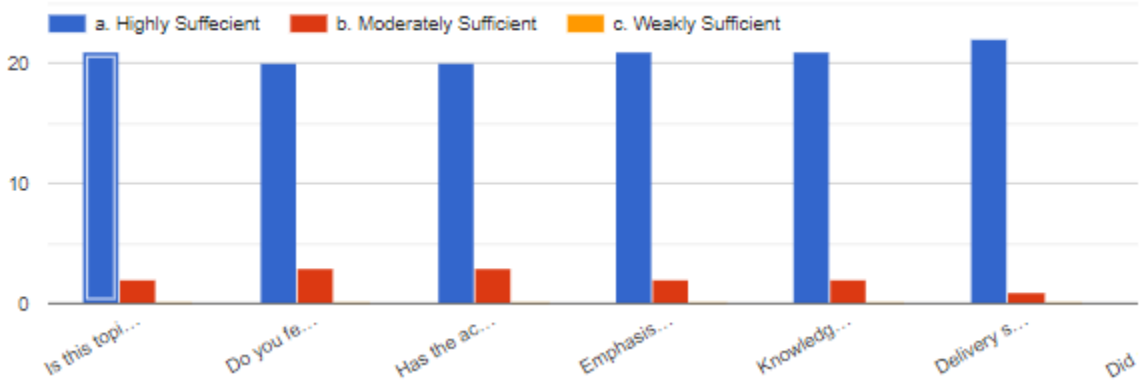
Feedback (critical) from students:

1. Lack of Practical Application such as Site visit
2. Some of the sessions handled by external speaker should have been clearer

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

1. Increase in-house registration cutoff 50% to at least 75%
2. Sufficient time must be given to participants to complete their assignment

Sample course feedback form



DAY_4_OPEN COURSE - PLANNING AND DRAWING OF RESIDENTIAL BUILDING

PLANNING AND DRAWING OF RESIDENTIAL BUILDING_DAY_3_14-6-23
CO1:Identify the current Technological trends in the respective discipline and in the industry.
CO2:Expertize in a particular domain by engaging in hands-on practices in using modern tool/Technology/Techniques.
CO3:Explore the opportunities in the current field/domain/area relevant to the industry.

* Indicates required question

Student Name *
Prasanna S
Add individual feedback

USN *
1BY21ME023
Add individual feedback

Department *
Mechanical
Add individual feedback

Phone Number * / 0
9731255253
Add individual feedback

1.1: Questionnaire based on Activity/Topic for Feedback on Relevance.

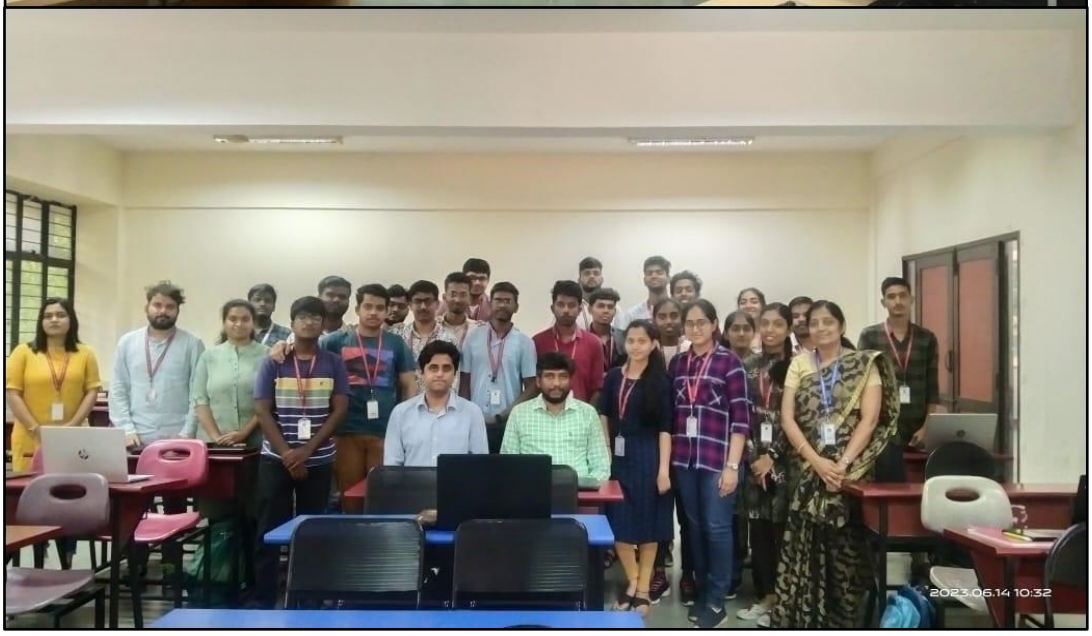
Your first question? *

	a. Highly Suffecient	b. Moderately Sufficient	c. Weakly Sufficient	Score
Is this topic of relevance in the present curriculum ?	◉	○	○	/ 0
Do you feel that this work must be included in your curriculum?	◉	○	○	/ 0
Has the activity adequately improved your understanding of your concept?	◉	○	○	/ 0
Emphasis on Skills	◉	○	○	/ 0
Knowledge about the subject after the completion	◉	○	○	/ 0
Delivery skills of a resource person	◉	○	○	/ 0

Department: Electronics & Communication Engineering		
Title of the Open Course		Cloud Technologies and Embedded Edge
Targeted Students (Branches)		ECE, ETE, ISE, CSE
Registration Fee		400
No. of students attended		52
Software/Hardware Tools used		AWS and FireBase, html
Delivery Methods		PPT Presentation and Hands on sessions
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		MCQ, QUIZ, ORAL Presentation Skills
Open Course Chief Coordinator Details	Name	Dr. Asha K
	Mobile No.	7259126108
	Email ID	ashak@bmsit.in
Internal Resource Person Details	Name	Dr. Asha K
	Designation	Assistant Professor
	Mobile Number	72591 26108
	Name	Dr. Rashmi N
	Designation	Assistant Professor
	Mobile Number	99867 74907
	Name	Mr. Shivarudraiah B
	Designation	Assistant Professor
	Mobile Number	94821 38388
External Resource Person Details	Name	Mr. Sujay U N
	Designation	Director
	Company/Organization	Diji Suji Technologies Pvt. Ltd
	Mobile Number/email-id	sujayun@yahoo.com
	Name	Mr. Swaroop Rajagopal
	Designation	Engineer
	Company/Organization	Diji Suji Technologies Pvt. Ltd
	Mobile Number/email-id	-----
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract	The course was designed to thought the basics of computer network and explaining the different topologies, different network types, cloud computing techniques such as Software as a Service, Infrastructure as a service, Platform as a service and Function as a service. Also included the Firebase software	

	installation as a part of hands-on session. The students have designed own resume webpage using html code. Adding of Photo, skills and about with the help of coding and observing the webpage simultaneously. AWS account creation and instances creation, also EC2, SSH concepts were also covered in the session.

Photograph of the event :



Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Cloud Technologies and Embedded Edge "

	PO1	**PO 2**	**PO 3**	**PO4**	**PO5**	**PO 6**	**PO7**	**PO 8**	**PO 9**	**PO1 0**	**PO1 1**	**PO1 2**
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	**PO 2**	**PO 3**	**PO4**	**PO5**	**PO 6**	**PO7**	**PO 8**	**PO 9**	**PO1 0**	**PO1 1**	**PO1 2**
Target values	**3**			**3**	**3**			**3**	**3**			**3**
Attained values	**2.1**			**2.1**	**2.1**			**2.1**	**2.1**			**2.1**

Feedback from external expert:
1. Its really a good idea, students can interact with industry people and benefit a lot.

Feedback (critical) from students:
1. Gud experience. Well taught, This was a good course.
2. Totally disappointed with this course . It was waste money and time, didn't learn anything by this course.

Corrective methods/suggestions to consider while conducting open course next time.
1. Proper planning of time and course organization.

Department: Electronics & Communication Engineering		
Title of the Open Course		Machine Learning & Data Analytics
Targeted Students (Branches)		All Branches
Registration Fee		Rs.400
No. of students attended		37
Software/Hardware Tools used		MATLAB, Python
Delivery Methods		Presentation and Hands on session
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz, Onramp Course
Open Course Chief Coordinator Details	Name	Anna Merine George
	Mobile No.	9902548065
	Email ID	annamerine@bmsit.in
Internal Resource Person Details	Name	Prof. Anna Merine George
	Designation	Assistant Professor, ECE Department, BMSIT&M
	Mobile Number	9902548065
	Name	Prof. Thyagaraj Tanjavur
	Designation	Assistant Professor, ECE Department, BMSIT&M
	Mobile Number	9845133392
External Resource Person Details	Name	Mr. Daniel D'Souza
	Designation	Co-Founder & CTO
	Company/Organization	TIF Labs Pvt Ltd.
	Mobile Number/email-id	9008755216/ daniel@tiflabs.in
	Name	Ms. Suchitra Rajkumar
	Designation	Sr Fulfilment Optimization
	Company/Organization	Target
	Mobile Number/email-id	7022419444/suchitrar16@gmail.com
External Resource Person Details	Name	Mr. Avinash Vulasa
	Designation	Application Engineer, UPT
	Company/Organization	CoreEL Technologies
	Mobile Number/email-id	6366425418/ vulasa.a@coreel.com
	Name	Dr. Spandhana Gonuguntla
	Designation	Senior Customer Success Engineer
	Company/Organization	MathWorks
	Mobile Number/email-id	sgonugun@mathworks.com

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)
The course has a strong correlation with POs 1,4,5,8,9,12. Students can use the knowledge of Machine Learning in future projects and internships for designing solutions to different problems (PO1, PO3). The course caters to use of modern tools like MATLAB, Google Colab for implementing machine learning based solutions.

Abstract	Machine Learning is one of the most exciting technologies that is being used in our daily lives. Every time a web search engine like Google or Bing is used for searching articles, a learning algorithm is implemented to rank the web pages. One of the reasons for the growth of Artificial Intelligence is the enormous amount of dataset emerging from data mining and IoT sensors. This course aims to familiarize machine learning algorithms, various tools that can be used and to demonstrate various projects that can be carried out in this domain. Recent developments in the field of Artificial Intelligence like Natural Language Processing and Generative AI are discussed. The course is enriched by resource persons from Mathworks & Coreel Technologies, TIF labs (Robocraze) and Target. The course caters to the requirements of job roles like Data Engineer, Machine Learning Engineer and data scientist in various industries.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Machine Learning & Data Analytics"

	PO1	PO 2	PO 3	PO4	PO5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO 2	PO 3	PO4	PO5	PO6	PO 7	PO 8	PO 9	PO10	PO11	PO12
Attained values	**0.69**			**0.69**	**0.69**			**0.69**	**0.69**			**1.38**

Feedback from external expert:
Ms. Suchitra Rajkumar: I had the privilege of sharing my industry experience and knowledge with students at a well-organized event led by Miss Anna and her peers. The structured and planned event provided students with valuable insights for making informed Career choices. I highly recommend more events of this kind to empower students with the right skills and direction.

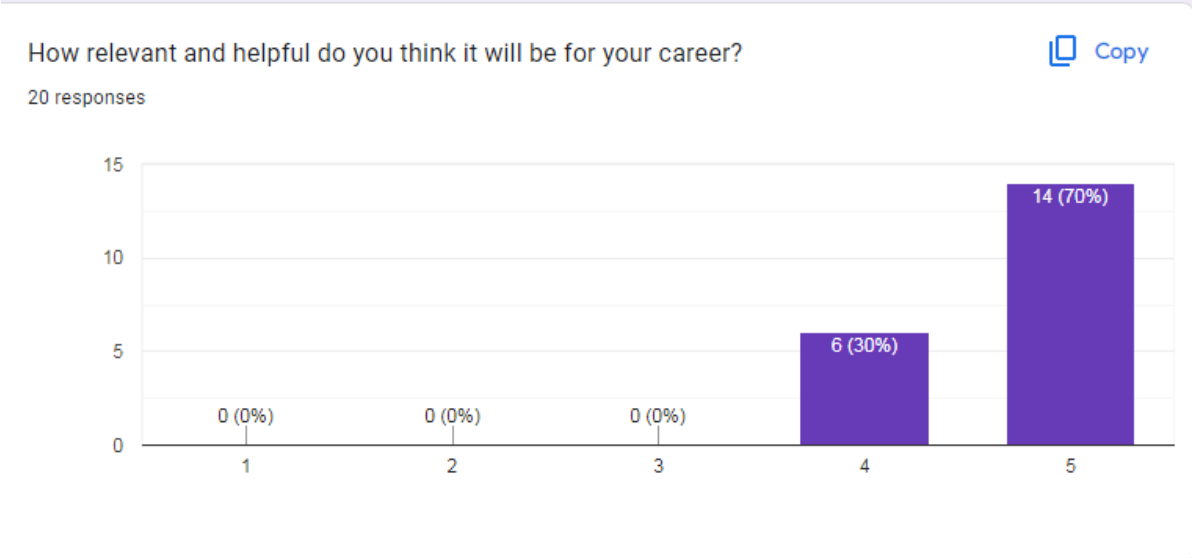
Feedback (critical) from students:

1. Good sessions.
2. It was very informative session and we gained the Knowledge about classifications in machine learning and various other important aspects about machine learning.
3. An insight into the data analytics industry and how it works. Also got to work with NLP to test and train models.

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

1. Open course may be conducted including a weekend
2. E certificate may be issued to resource persons also

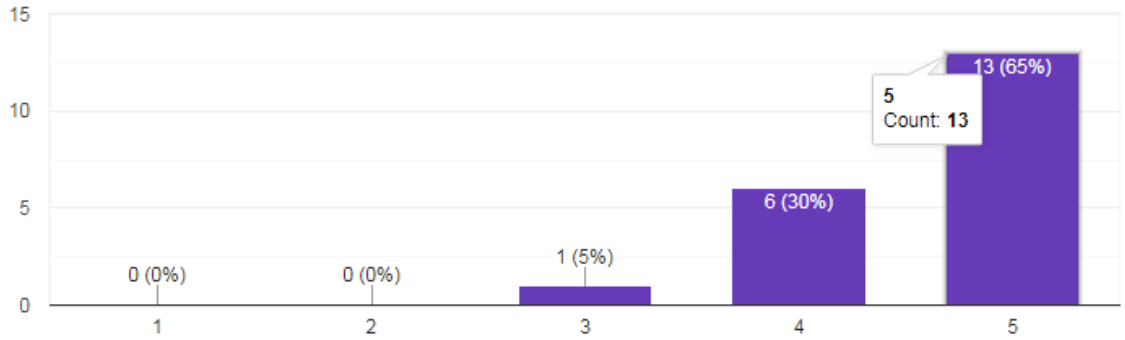
Sample course feedback form



How informative did you find the course?

Copy

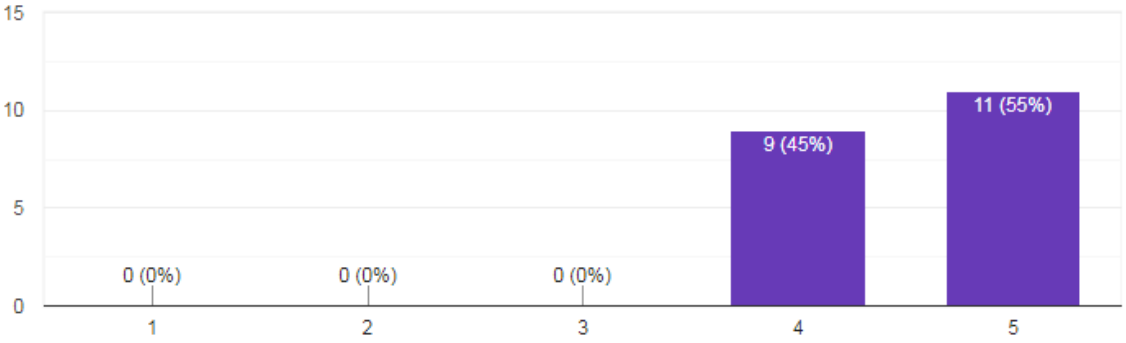
20 responses



How clear were the concepts presented by the speaker?

Copy

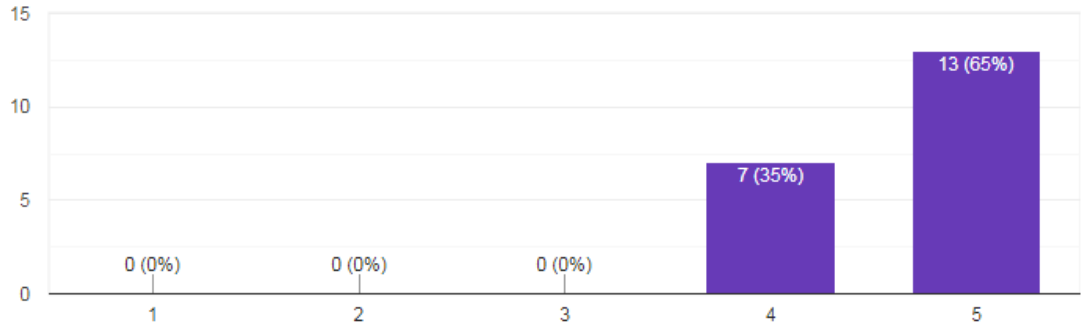
20 responses



How would you rate the hands on experience obtained from the open course?

Copy

20 responses



Department: Electronics and Communication Engineering		
Title of the Open Course		Develop solutions for Real time Problems using IoT
Targeted Students (Branches)		All Branches
Registration Fee		Rs.400
No. of students attended		42
Software/Hardware Tools used		Sensors,actuators,ES32
Delivery Methods		Presentations, Hands on
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Anil kumar D
	Mobile No.	9886216203
	Email ID	anilkumard81@bmsit.in
Internal Resource Person Details	Name	Dr. Shobharani,Mrs.Mamatha K R , Mr.Thyagaraj T
	Designation	Associate /Assistant Professor
	Mobile Number	9886216203
External Resource Person Details	Name	Mr.Vijay C G
	Designation	Head Technical lead
	Company/Organization	Dlithe pvt Ltd
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) PO2, PO3, PO4, PO5, PO8, PO12		
Abstract (Details of the Open Course)	The foremost sector in the adoption of IoT for industrial use cases is farming. Bytes and Bushels is one of the popular case studies focused on applications of IoT for farming on an industrial scale. With the introduction of Industrial IoT in Agriculture, far more advanced sensors are being utilized. The sensors are now connected to the cloud via cellular/satellite network. Which lets us to know the real-time data from the sensors, making decision making effective. The applications of IoT in the agriculture industry has helped the farmers to monitor the water tank levels in real-time which makes the irrigation process more efficient. The advancement of IoT technology in agriculture operations has brought the use of sensors in every step of the farming process like how	

	much time and resources a seed takes to become a fully-grown vegetable.

Photograph of the event (Two high resolution):

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO6	PO7	PO 8	PO9	PO10	PO11	PO 12
CO1		3	1	2	-			1				3
CO2		2	2	3	3			1				3
CO3		1	1	1	1			1				3
Avg		**2**	**1.33**	**2**	**1.33**			**0.33**				**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values		2	1.33	2	1.33			0.33				3

Feedback from external expert: External expert identified active participation from the students. The students were able to identify some specific and interesting projects after the interactions.

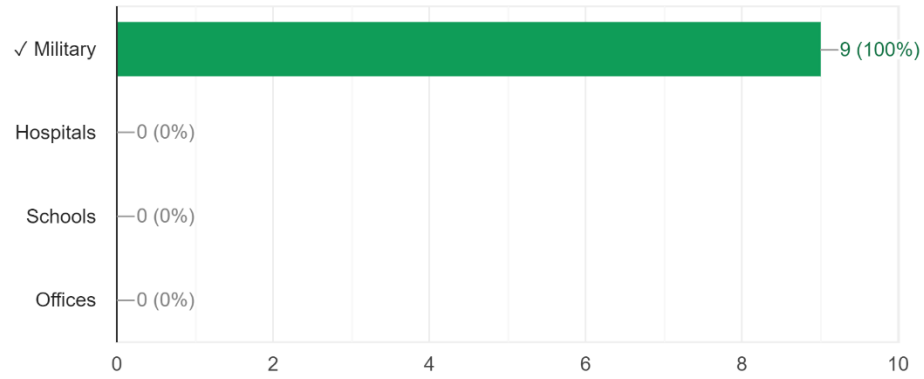
Feedback (critical) from students:
There should be more hands on sessions.
The length of open course needs to be increased
There is no need to make open courses compulsory so that interested students can regularly participate in various sessions.

Corrective methods/suggestions to consider while conducting open course next time (at least two points)
Any such activity which is charged to students and not a part of curriculum and gain credits need not be made compulsory.
Any such activities such as open course, PBL if it is made compulsory, then consider assigning some credits so that every student will make use of it.

Sample course feedback form

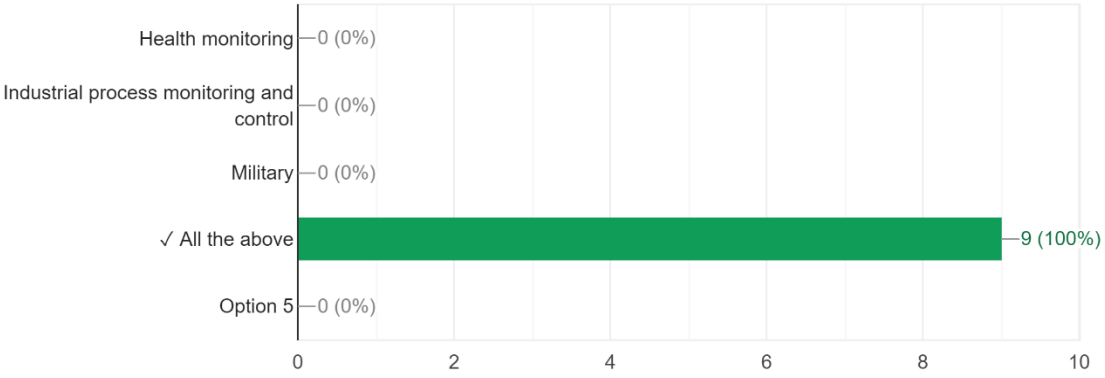
1). The development of WSN was motivated from _____.

9 / 9 correct responses



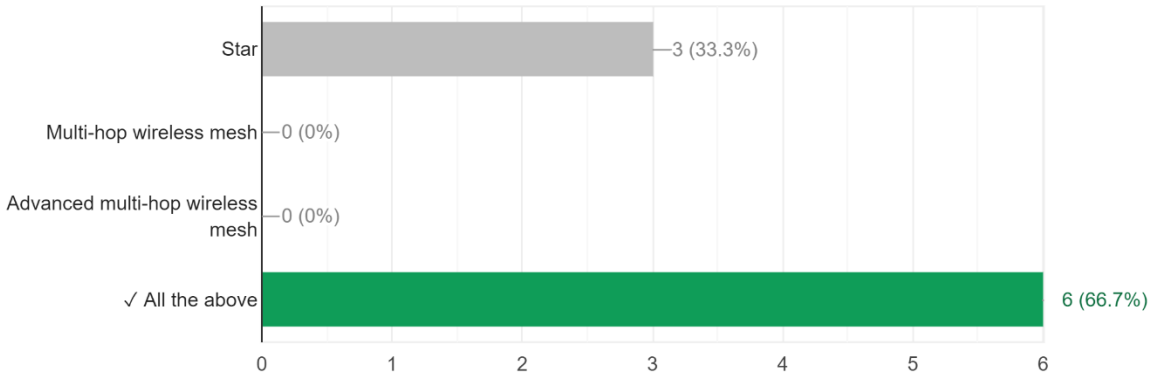
2). Which of the following are the applications of WSN?

9 / 9 correct responses



6). A sensor network in WSN can be of _____ topology

6 / 9 correct responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Electronics and Communication Engineering		
Title of the Open Course		Exploring Brain-Computer Interfaces and Neural Signal Processing
Targeted Students (Branches)		All Branches
Registration Fee		Rs.400
No. of students attended		42
Software/Hardware Tools used		EEG Headset, MATLAB, Python
Delivery Methods		Presentations, Hands on
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Saneesh Cleatus T
	Mobile No.	9731382840
	Email ID	saneesh@bmsit.in
Internal Resource Person Details	Name	Dr. Thejaswini S
	Designation	Assistant Professor
	Mobile Number	9008637144
External Resource Person Details	Name	Sneha Das
	Designation	Assistant Professor
	Company/Organization	Technical University of Denmark
	Mobile Number/email-id	sned@dtu.dk
	Name	Varun Sarathchandran
	Designation	M S, Student
	Company/Organization	Dept of EEMCS, TUDelft
	Mobile Number/email-id	8105768676/ varunsarath@gmail.com
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) PO2, PO3, PO4, PO5, PO8, PO12		
Abstract		Exploring Brain Computer Interfaces and Neural Signal Processing is a five-day course designed to introduce undergraduate students of any streams to the captivating world of computational neuroscience. Through hands-on sessions utilizing Python and MATLAB, participants will gain valuable insights into the cutting-edge field of Brain Computer Interfaces (BCIs) and the essential techniques of neural signal processing. From the basics of acquiring neural signals to decoding them into actionable commands, this workshop will equip students with the skills to extract meaningful information from real-world data sets and apply state-of-the-art algorithms. No prior experience is necessary, as our expert instructors will guide students on an unforgettable journey into the potential of BCIs in revolutionizing healthcare, communication, and human cognition. Join us in unlocking the

	door to the mind and discovering the limitless possibilities that lie within the realm of Brain Computer Interfaces and Neural Signal Processing.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO6	PO 7	PO 8	PO9	PO10	PO11	PO 12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO 2	PO 3	PO4	PO5	PO6	PO 7	PO 8	PO 9	PO10	PO11	PO12
Attained values	**2**			**2**	**1.33**			**0.33**	**0.33**			**3**

Feedback from external expert: External expert identified active participation from the students. The students were able to identify some specific and interesting projects after the interactions.

Feedback (critical) from students:
There should be more hands on sessions.
The length of open course needs to be increased
There is no need to make open courses compulsory so that interested students can regularly participate in various sessions.

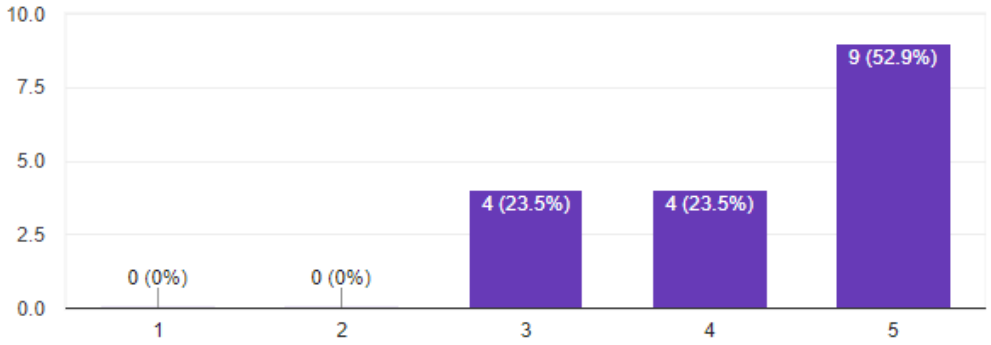
Corrective methods/suggestions to consider while conducting open course next time.
Any such activity which is charged to students and not a part of curriculum and gain credits need not be made compulsory.
Any such activities such as open course, PBL if it is made compulsory, then consider assigning some credits so that every student will make use of it.

Sample course feedback form

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

Copy

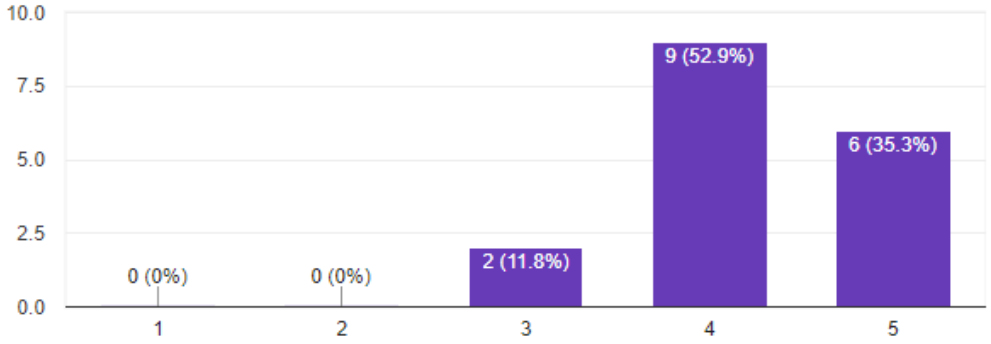
17 responses



2. The contents covered in the open course meets the course objectives ?

Copy

17 responses



Department: Electronics and Communication Engineering		
Title of the Open Course		MATLAB Programming and Image processin
Targeted Students (Branches)		All Branches
Registration Fee		Rs.400
No. of students attended		41
Software/Hardware Tools used		MATLAB
Delivery Methods		Presentations, Hands on
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Surekha R.Gondkar
	Mobile No.	9663599656
	Email ID	surekha.r.gondkar@bmsit.in
Internal Resource Person Details	Name	Mrs. Mamatha K R
	Designation	Assistant Professor
	Mobile Number	9972042574
	Name	Dr. G Vijalakshmi
	Designation	Associate Professor
	Mobile Number	9449378246
	Name	Dr. Thejaswini S
	Designation	Assistant Professor
	Mobile Number	9008637144
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) PO2, PO3, PO4, PO5, PO8, PO12		

Abstract	This course was organized in order to provide the students a platform to learn the fundamental concepts of image processing, the software's used to process these images and become equipped to identify the problems in the society that need the solutions based on these techniques. The course was conducted for five days. First day an overview of the course was given by Dr.Surekha R. Gondkar. Followed by MATLAB fundamentals and hands on session on basic MATLAB programming. Day 2 began with the fundamental concepts of Image Processing and it was followed by IP Toolbox in MATLAB and basic operations on images and hands on session. Resource persons were Dr. Surekha R Gondkar and Prof. Mamatha K R. Day 3 BCI concepts were explained by Dr.Thejashwini S. from ETE

	department. And roll of image processing in BCI examples were given. Next it was followed by low level processing techniques with hands on by Dr. Dr. Surekha R Gondkar and Prof. Mamatha K R. Day 4 Histogram equalization programs were explained by Prof. Mamatha K.R. This was followed by Mid level image processing by Dr. Vijayalakshmi G.V. Afternoon session student project on image processing was explained and demonstrated by our 6th semester students. It was done by Achyutha Gowda C P, Alla vamsi Krishna, Gangaraju, Leti Manish Kumar and Kushal Varma. Day 5, students carried out a mini project on face recognition, research paper writing and ended with feedback session.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO6	PO 7	PO 8	PO9	PO10	PO11	PO 12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO 2	PO 3	PO4	PO5	PO6	PO 7	PO 8	PO 9	PO10	PO11	PO12
Attained values	2			2	1.33			0.33	0.33			3

Feedback (critical) from students:
Happy about the course
Corrective methods/suggestions to consider while conducting open course next time.
NIL

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Electrical and Electronics Engineering		
Title of the Open Course		Software Design for Embedded Controllers
Targeted Students (Branches)		EEE/ECE/ETE/CSE/ISE
Registration Fee		Rs.400/- per student
No. of students attended		26
Software/Hardware Tools used		Keil, C/C++, Arduino
Delivery Methods		PPTs, Chalk and Talk, Hands on Sessions
Assessment Methods (e.g.: Quiz, test,mini-project, report submission, etc.)		Quizes
Open Course Chief Coordinator Details	Name	Dr Narapareddy Ramarao
	Mobile No.	8971247543
	Email ID	eeerama@bmsit.in
Internal Resource Person Details	Name	Dr Narapareddy Ramarao
	Designation	Associate Professor
	Mobile Number	8867911990
	Name	Prof. H D Kattimani
	Designation	Associate Professor
	Mobile Number	9448904355
External Resource Person Details	Name	SHASHI KIRAN. K
	Designation	Project Manager
	Company/Organization	Pragmatic Embedded Solutions
	Mobile Number/email-id	9845843843
	Name	Shiva Shanker H. S
	Designation	Technical Manager
	Company/Organization	Prolific Systems and Technologies Ltd.
	Mobile Number/email-id	9845702912

Curriculum Gaps Identified:

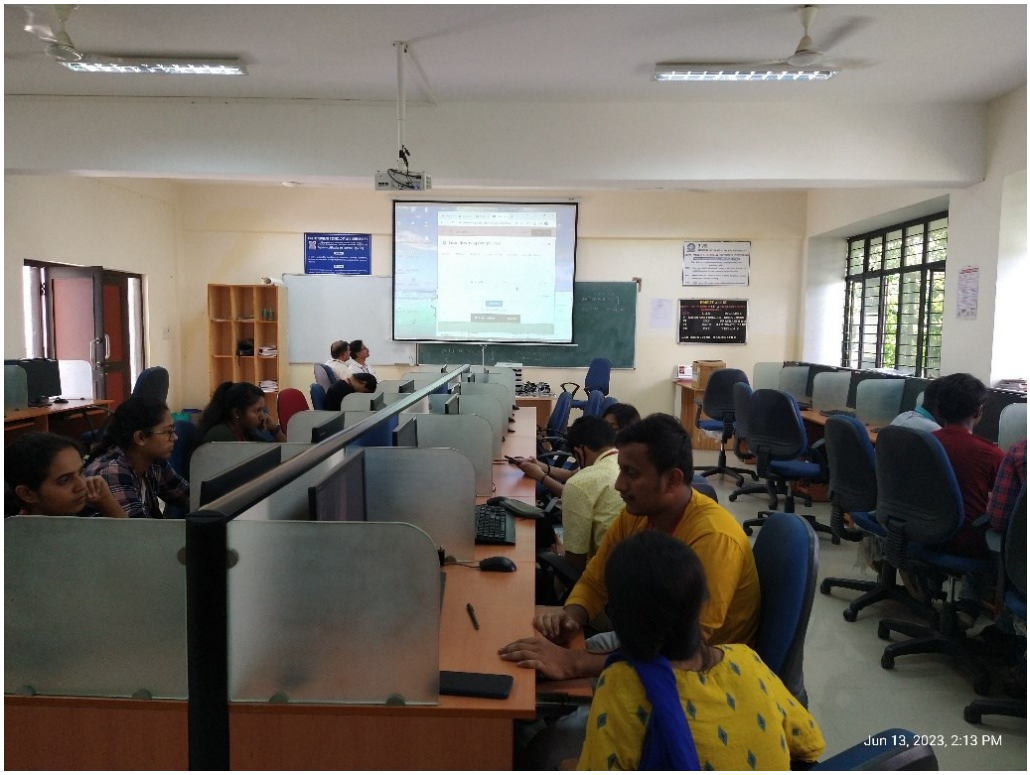
1. Apply the knowledge of software design for embedded controllers to the solution of complex engineering problems.
2. Use embedded systems knowledge & methods including design of softwares and experiments, to provide valid conclusions.
3. Create, select and apply appropriate embedded software design techniques to complex engineering activities with an understanding of the limitations.
4. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice in embedded systems design.
5. Recognize the need for and to engage in independent and life-long learning in the context of technological changes in embedded systems.

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Abstract	This course is designed to provide students with a comprehensive understanding of the principles and techniques involved in the software design for controllers used for various industrial/commercial applications. The scope and applications of the course "Software Design for Embedded Controllers" encompass a wide range of career opportunities, allowing graduates to work on different problem solving techniques and programming paradigms to solve various embedded software systems design related problems encountered in Electronic Systems and Embedded Systems companies, Robotics and Factory Automation relevant companies. Additionally, they can pursue entrepreneurship or academic paths in the field. Indeed, students will find this course useful for starting their professional career.

Photograph of the event :



Open Course Outcomes	**CO-1**	Identify the current Technological trends in the software design for the embedded controllers.
	CO-2	Expertize in the embedded software development domain by engaging in hands–on practices in using modern tool/Technology/Techniques.
	CO-3	Explore the opportunities in the embedded systems hardware as well as in software industry.

CO-PO Mapping for open course of "Software Design for Embedded Controllers"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3			3	3			3

Feedback from external expert:
1. External Speaker appreciated the students for being active in leaning and doing things during hands on sessions.

Feedback (critical) from students:
1. Requested for more hands on sessions
2. Requested for some more sessions by external speakers

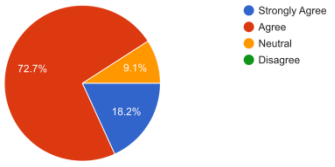
Corrective methods/suggestions to consider while conducting open course next time.
1. Basic concepts also should be covered
2. More time is required to participants to complete their assignments

Sample course feedback form:

1. Is this open course well organized and planned? Do you agree

Copy

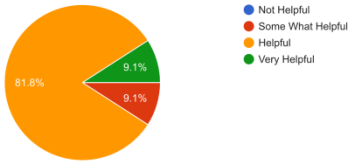
11 responses



2. How helpful was the open course for you?

Copy

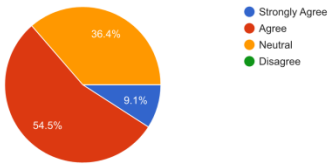
11 responses



5. Topics being in line with my expectations.

Copy

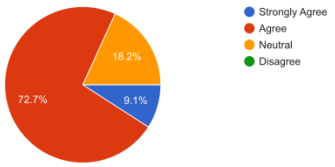
11 responses



6. The workshop was applicable to my job

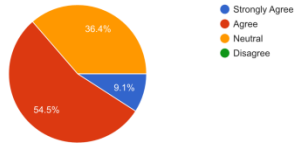
Copy

11 responses



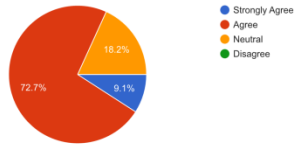
5. Topics being in line with my expectations. Copy

11 responses



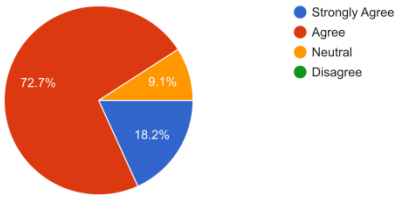
6. The workshop was applicable to my job Copy

11 responses



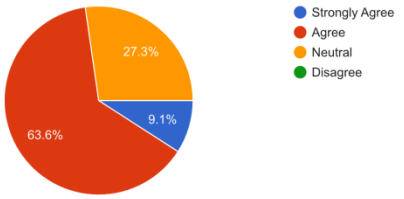
7. Course relevance to current trends Copy

11 responses



8. Time allocated for learners to discuss and ask questions is sufficient. Copy

11 responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Electronics and Telecommunication Engineering (ETE)		
Title of the Open Course		Embedded System design on FPGA
Targeted Students (Branches)		ETE,ECE,EEE
Registration Fee		Rs.400/-
No. of students attended		44
Software/Hardware Tools used		
Delivery Methods		
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Sumathi M S
	Mobile No.	9036274256
	Email ID	sumathi.m@bmsit.in
Internal Resource Person Details	Name	Dr. Sumathi M S
	Designation	Assistant Professor
	Mobile No.	9036274256
	Name	Dr. Saritha IG
	Designation	Assistant Professor
	Mobile Number	9916128329
	Name	Prof Prathiba N
	Designation	Assistant Professor
	Mobile Number	9900264612
	Name	Dr. Sumathi M S
	Designation	Assistant Professor
	Mobile Number	9036274256
External Resource Person Details	Name	Dr.Prabhakar Mishra
	Designation	Industry Consultant
	Company/Organization	-
	Mobile Number/email-id	9901001998
	Name	Mr. Nikhil Rao
	Designation	Senior Principal Engineer,Systems Architecture
	Company/Organization	Rambus Chip Technologies India
	Mobile Number/email-id	9880629760
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract	Introduction to FPGA architectures, explained about INTEL DE-10 lite FPGA boards and tools. Highlighted types of programmable devices and how to implement a Boolean function on a PLA. The expert emphasized on how PLDs are the most flexible for implementing any boolean expression given. GPIO	

	design with examples of 7 segment LEDs. Introduction to verilog, Alternatives to implement and synthesis, Hands on session on implementation and synthesis In introduction we learnt verilog module instant ,basics of verilog ,abt netlist and ways to reduce the complexity ,gate flow modelling,data flow modelling. In alternatives to implement and synthesis we took an example of Boolean functions and learnt how to draw using logic gates how to simplify the Boolean functions and about the Shannon expansion theorem, graph traversal approach , OBDD , methods like using basics gates , multiplexers and finally lookup table approach in the hands on session we implemented 2 bit multiplier and seven segment display. Resource person started with Sequential circuits designs and covered in details on Finite State Machines, expert also emphasized on Reconfigurable Architectures. Here students were able to practice few designs examples of counter designs on FPGAs. Mr. Nikhil Rao, gave complete flow details of FPGA Design – starting with Design entry, Synthesis, synthesis for timing, placement and routing etc. The expert demonstrated real times examples of decoder designs and implementations. Design of the given problem statement - Design and implement a system to compute HCF of 2 integers. The design for the above was done by creating an algorithm, designing blocks, data path and the finite state machine for control.The hands-on session involved in implementation of the design on to the FPGA boards. Implementation of design on FPGA , ASIC flow was explained to students. Arm Microcontroller and its significance in Embedded Systems was explained to students followed by hands-on session using Keil software was demonstrated. Few simple programs were made to execute by the students on kits.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**

	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Embedded System design on FPGA**"**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO 2	PO 3	PO4	PO5	PO6	PO 7	PO 8	PO 9	PO10	PO11	PO12
Attained values	1			2.4	2.5							2

Feedback from external expert:
1. External Speaker appreciated the participants for being interactive

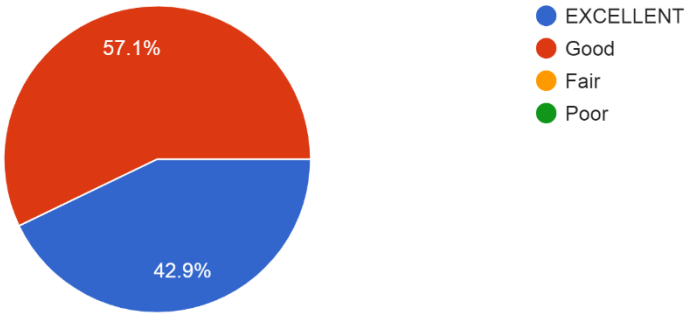
Feedback (critical) from students:
Nil.

Corrective methods/suggestions to consider while conducting open course next time.
1. Pre -requisite to be covered first
2. Sufficient time must be given to participants to complete their assignment

Sample course feedback form

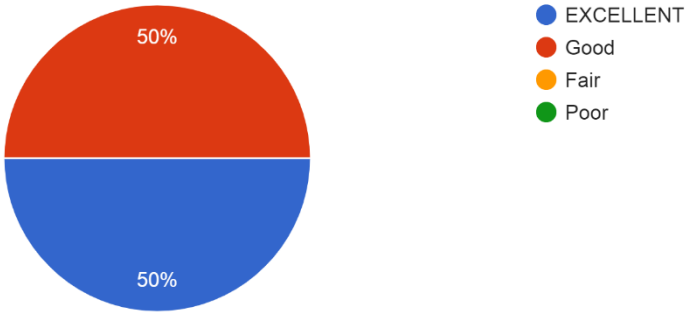
1. To what extent today's session content meet your expectations?

14 responses



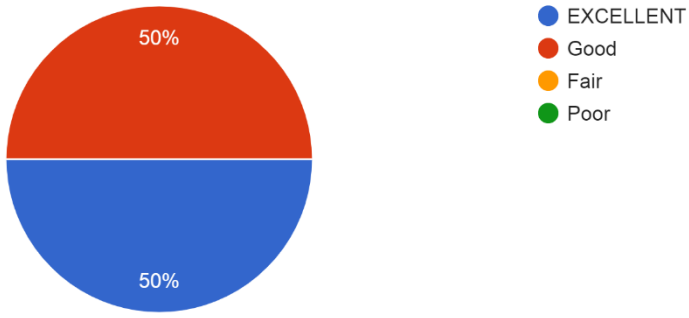
2. To what extent sessions were relevant to your needs?

14 responses



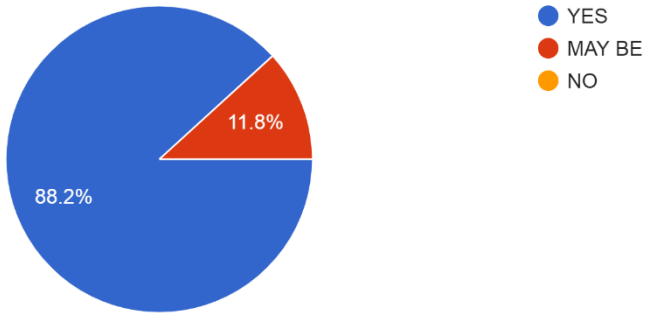
3.What was the resource person's level of content knowledge?

14 responses



5.Was the training well-organized and easy to follow?

17 responses



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Electronics and Telecommunication Engineering (ETE)		
Title of the Open Course		PCB and System Hardware Design
Targeted Students (Branches)		ETE,ECE,EEE
Registration Fee		Rs.400/-
No. of students attended		60
Software/Hardware Tools used		Orcad tool
Delivery Methods		
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Raju Hajare
	Mobile No.	9972700277
	Email ID	rajuhajare@bmsit.in
Internal Resource Person Details	Name	Dr.Raju Hajare
	Designation	Associate Professor
	Mobile Number	9972700277
External Resource Person Details	Name	Mr. Karunakaran,
	Designation	Founder,Hardware Architect
	Company/Organization	Schemazen Technologies Pvt Ltd
	Mobile Number/email-id	9845039374
	Name	C.K Kowshik
	Designation	Hardware Designeer
	Company/Organization	Schemazen Technologies Pvt Ltd
	Mobile Number/email-id	9590406606
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract	Industry expert started the session with Introduction electronics industry, and its products and role of design engineers in building products based on customer requirement. Expert Mr.Karunakaran highlighted the PCB design aspects and process involved in building the electronic product, He also introduced the cadence Orcad tool and explained how these tools help and save time of designers while implementation of prototypes/products. Expert also trained the students on Schematic design, Hardware design life cycle. Industry expert started the session with Working cadence software, creation of new files and implementation of capacitor, resistor and designing of IC such as IC7408,7476 were taught. The part list and type and shape , specifications of the components were explained . Creating a new page under schematic and placing the components that were designed in the other files electronics industry, and its products and role of	

	design engineers in building products based on customer requirement. Explained how these tools help and save time of designers while implementation of prototypes/products. Expert also trained the students on Schematic design, Hardware design life cycle. Students visited the fabrication unit at Peenya and get exposed to the live process of PCB manufacturing. The students were given an opportunity to visit different sections of the company. The Engineer at in charge Mr. Demonstrated the complete fabrication process step by step highlighting the how important each step is in the manufacturing process and how they build the electronic products and deliver to the clients. The employees of PC process company gave our students complete process flow and also expressed what are they expect from today's youth of the nation. They motivated our students and told what role today engineers can plays in designing and building better products for tomorrow. During the visit, students were able to understand and relate theory concepts and experiential learning they had during first 3 days of this open course to the PCB fabrication process and shared their fruitful learning experience during the 4 days of this program. students learnt about the manufacturing of PCB and related the processes with the industrial visit from yesterday. In the presentation students learnt about topics such as wave soldering, assembly of SMD components, SMD technology, through hole technology and others.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "PCB and System Hardware Design**"**

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO 2	PO 3	PO4	PO5	PO6	PO 7	PO 8	PO 9	PO10	PO11	PO12
Attained values				2.8	2.9							2.6

Feedback from external expert:
1. External Speaker appreciated the participants for being interactive

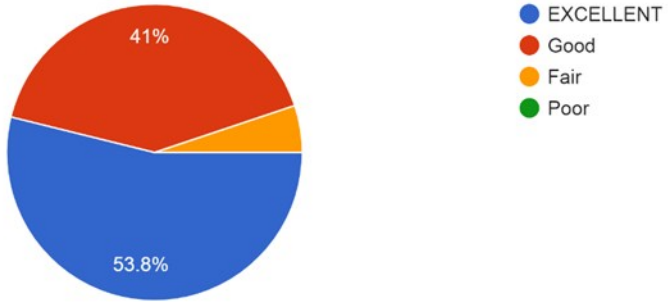
Feedback (critical) from students:
Nil

Corrective methods/suggestions to consider while conducting open course next time.
1. Pre -requisite to be covered first
2. Sufficient time must be given to participants to complete their assignment

Sample course feedback form

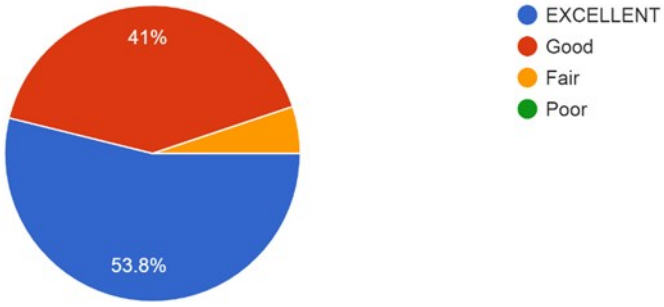
1. To what extent today's session content meet your expectations?

39 responses



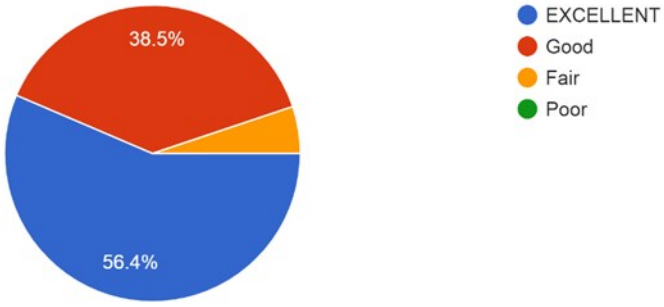
2. To what extent sessions were relevant to your needs?

39 responses



3.What was the resource person's level of content knowledge?

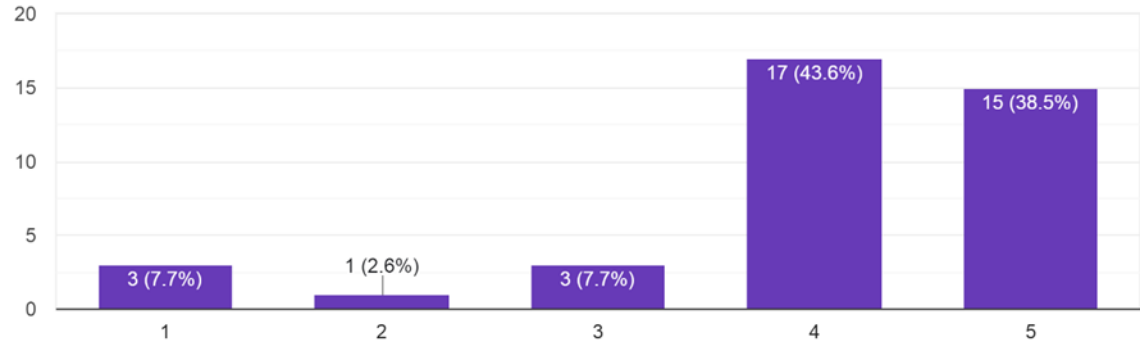
39 responses



Sample course feedback form

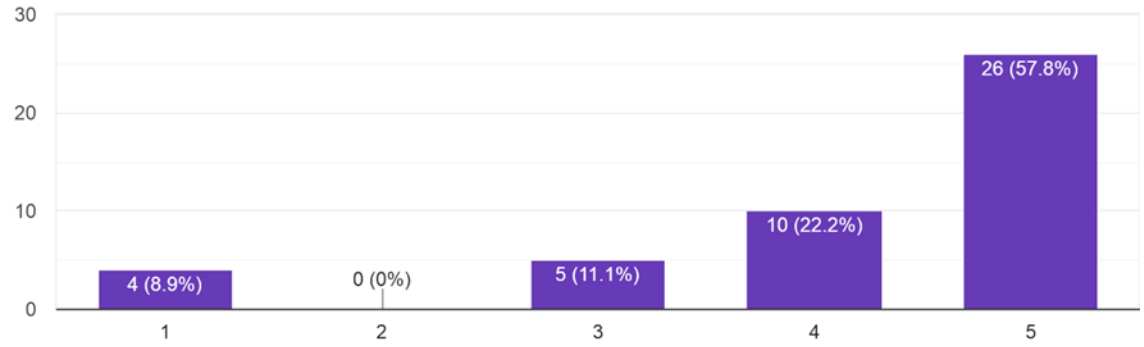
4.How much did you learn during the training

39 responses



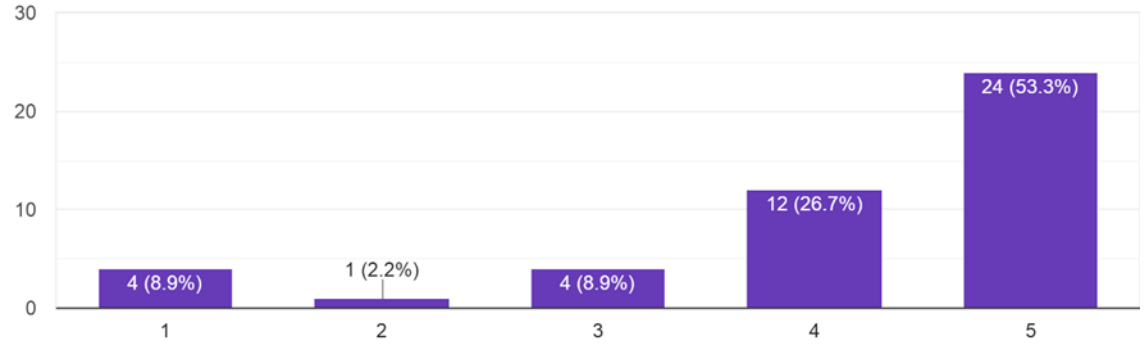
5.Aims and objectives of the visit was explained at the beginning

45 responses



1. The field visit was timely.

45 responses



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OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science and Engineering		
Title of the Open Course		Hands on Approach on Cyber Forensics and Crime Investigation
Targeted Students (Branches)		All Branches
Registration Fee		Rs.400/-
No. of students attended		60
Software/Hardware Tools used		Kali Linux, FTK Imager, Wireshark, Autopsy, Disk Digger, Openstego, HxD, Burp Suite, USB Rubber Ducky attack and Phishing attach tools and more.
Delivery Methods		Offline
Assessment Methods (e.g.: Quiz, test,mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr.Usha B A
	Mobile No.	98807888509
	Email ID	ushaba@bmsit.in
Internal Resource Person Details	Name	Dr.Usha B A
	Designation	Professor
	Mobile Number	9880788509
	Name	Dr. Anjan K
	Designation	Professor
	Mobile Number	9731317861
	Name	Dr. Arun Kumar B R
	Designation	Professor
	Mobile Number	9886008210
	Name	Dr.Sudarsanam P
	Designation	Asst.Professor
	Mobile Number	9945290258
	Name	Dr.Swetha M S
	Designation	Asst.Professor
	Mobile Number	9844690637
External Resource Person Details	Name	Mr.ChiragSuvarna
	Designation	Cyber Security Analyst
	Company/Organization	Cyber Sapiens
	Mobile Number/email-id	chiragsuvarna7@gmail.com
	Name	Dr.Manish Kumar
	Designation	Asst.Professor
	Company/Organization	M S Ramaiah Institute of Technology
	Mobile Number/email-id	manishkumarjsr@yahoo.com
	Name	Mrs. PreetiBhisikar
	Designation	Relationship Manager

		APAC & MEA
	Company/Organization	IBM India, Bengaluru
	Mobile Number/email-id	prbhisik@in.ibm.com
	Name	Mr. Harsh Pant
	Designation	Regional Leader of X-Force Red-Isa
	Company/Organization	IBM India, Bengaluru
	Mobile Number/email-id	Harsh.Pant@ibm.com
	Name	Mohammed Safeeruddin
	Designation	Global Delivery Executive
	Company/Organization	IBM India, Bengaluru
	Mobile Number/email-id	Safeeruddin@in.ibm.com
	Name	Sunil Dora
	Designation	Security Services Specialist
	Company/Organization	IBM India, Bengaluru
	Mobile Number/email-id	sunildora@in.ibm.com
	Name	KrishnaKanthNaik
	Designation	CSR Manager for Academia for Skillsbuild-South/WestIndia Leader for Volunteerism, IBM India
	Company/Organization	IBM India, Bengaluru
	Mobile Number/email-id	krisnaik@in.ibm.com

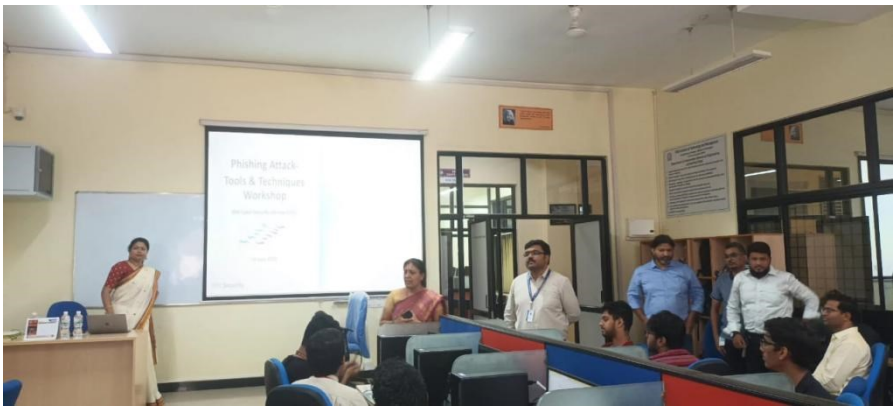
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)
Covered all the Pos, except PO 2, 3, 6, 7 & 9

Abstract

The course "Hands on approach on Cyber Forensics and Crime Investigation" is designed to provide students with a comprehensive understanding of the principles and techniques. Cyber forensics is the process of obtaining data as evidence for a crime (using electronic equipment) while adhering to correct investigative procedures to apprehend the offender by presenting the evidence to the court. Computer forensics is another name for cyber forensics. Maintaining the chain of evidence and documentation to identify the digital criminal is the primary goal of cyber forensics.

The scope and applications of the course Hands on approach on "Cyber Forensics and Crime Investigation" encompass a wide range of career opportunities. Computer Forensics/Digital Forensics professionals are hired to strengthen the information security structure or monitor cyber frauds within an organization. Some typical examples of jobs in cyber forensics are Computer Forensics Investigator, Computer Forensics Technician, Digital Forensics Specialist, Computer Forensics Analyst, Computer Forensics Specialist etc. Trained Cyber Forensic experts are also invited to impart education and provide training in Government and private colleges. Typical positions in Forensic Science labs are Scientists of various grades, Experts, Analysts and trainees.

Photograph of the event :


Phishing Attack:
Tools & Techniques
Workshop

DISTINGUISHED ALUMNI
WALL OF FAME

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Hands on Approach on Cyber Forensics and Crime Investigation"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2			2	3			3	3			3

Feedback from external expert:

1. Students were very Interactive throughout the session. External Speaker appreciatedit.
2. Hands on Session made students to explore many tools.

Feedback (critical) from students:

1. It was suggested to have hands on in all the session

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

1. Preferred to have one company to engage all the session for longer duration

Sample course feedback form

Day-1 Feedback for 5 Days Open Course - June 2023

37 responses

Publish analytics

Name

37 responses

- Adithya L
- Bindu GP
- Manya H V
- Kavyashree S
- Vinay Gowda M
- Suhas kini
- Srikshitij Raghuchandan
- Sughosh Srikant
- Swapnil Sagar

USN

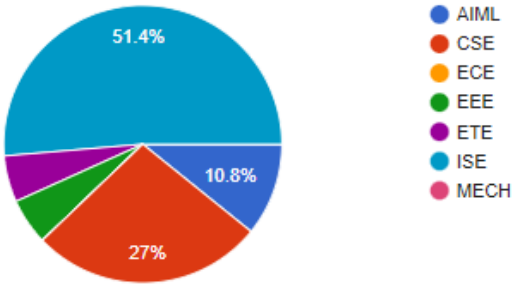
37 responses

- 1BY21AI063
- 1BY21IS041
- 1BY21AI033

Department Name

Copy

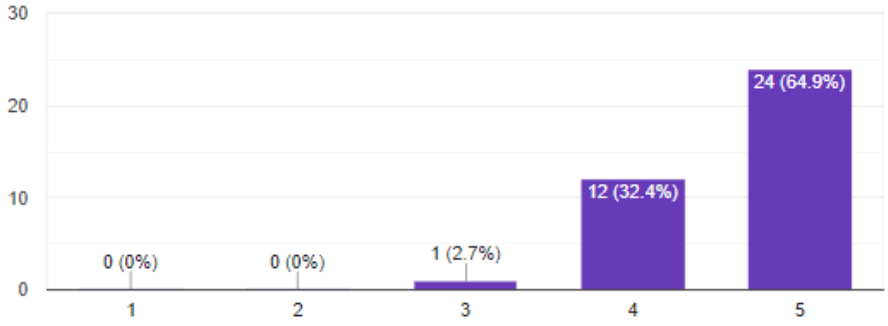
37 responses



Were the sessions effective?

Copy

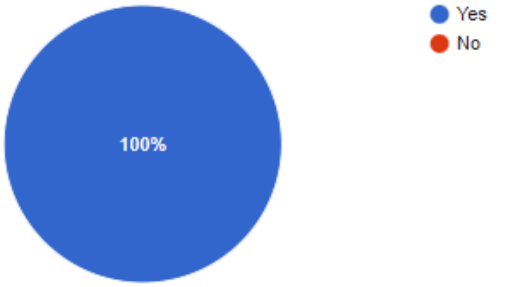
37 responses



We're the session topics related to advancement?

Copy

37 responses



We're session related to Current Security Aspects

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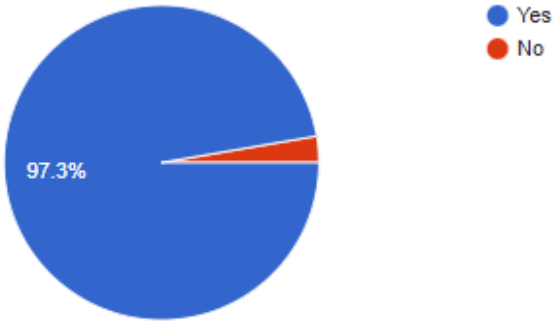
37 responses



We're session related design and investigative study?

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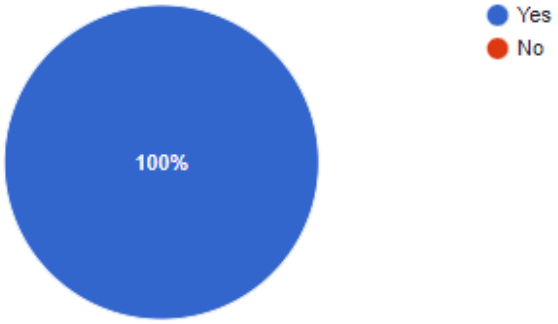
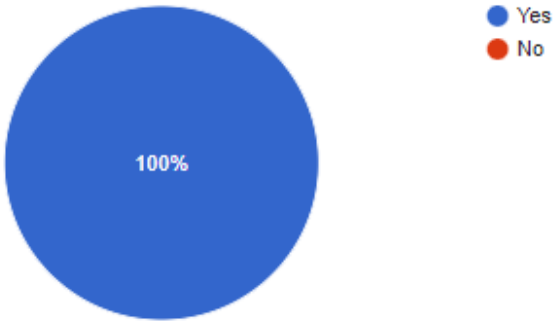
37 responses



We're session had link to life long learning

Copy

37 responses



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science & Engineering		
Title of the Open Course		Full stack web development
Targeted Students (Branches)		Interdisciplinary
Registration Fee		Rs. 400/-
No. of students attended		60
Software/Hardware Tools used		Visual Studio Code & XAMPP
Delivery Methods		Presentation & demo
Assessment Methods (e.g.: Quiz, test,mini-project, report submission, etc.)		Quizzes
Open Course Chief Coordinator Details	Name	Dr. Mohan B.A & Dr. Anil Kumar
	Mobile No.	9632912432
	Email ID	ba.mohan@bmsit.in
Internal Resource Person Details	Name	Dr. Mohan B.A
	Designation	Asst. Professor
	Mobile Number	9632912432
	Name	Dr. Anil Kumar
	Designation	Asst. Professor
	Mobile Number	8867732505
	Name	Dr. N. Rakesh
	Designation	Associate Professor
	Mobile Number	8277623664
External Resource Person Details	Name	---
	Designation	---
	Company/Organization	---
	Mobile Number/email-id	---
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) Covered all the Pos, except PO 2, 3, 6, 7 & 9		
Abstract	A full stack developer can make a fully functioning web application. These website developers have some knowledge of both the back end (server side) and front end (client side). Full stack developers need little or no outside help in their work. This makes them especially valuable to employers.	
Photograph of the event :		

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2			2	3			2	2			3

Feedback from external experts:- NA -

Feedback (critical) from students:

1. By giving more activities
2. More detail skilled techniques
3. More real time case studies

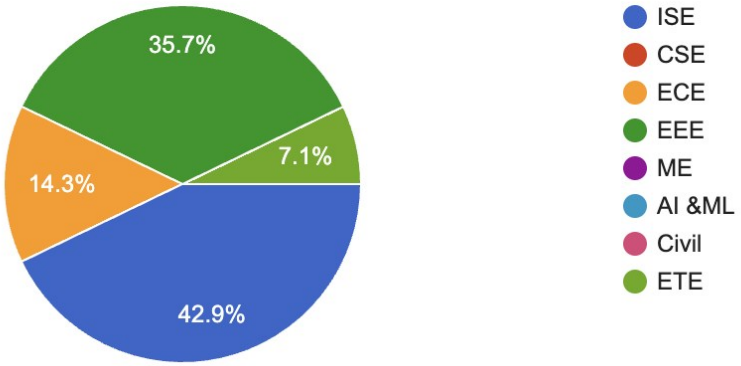
Corrective methods/suggestions to consider while conducting open course next time.

1. Pre-requisite to be covered first and more time to practice.
2. Include few good case studies.

Feedback form : Full Stack Web Development

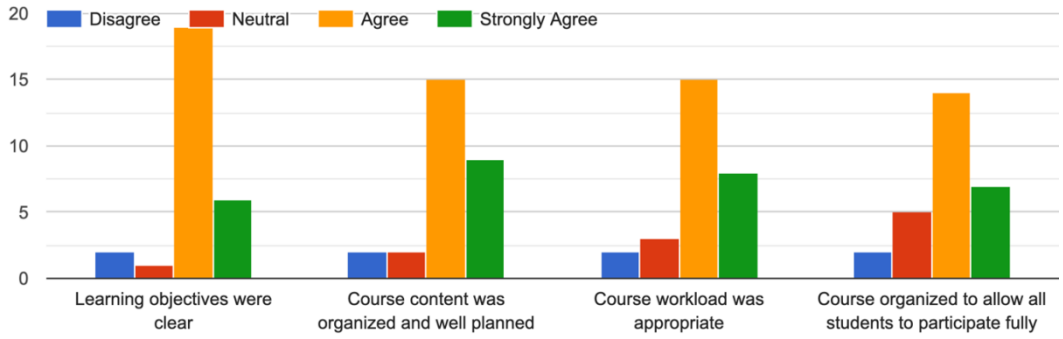
Department:

28 responses



Contribution to learning

Course content:



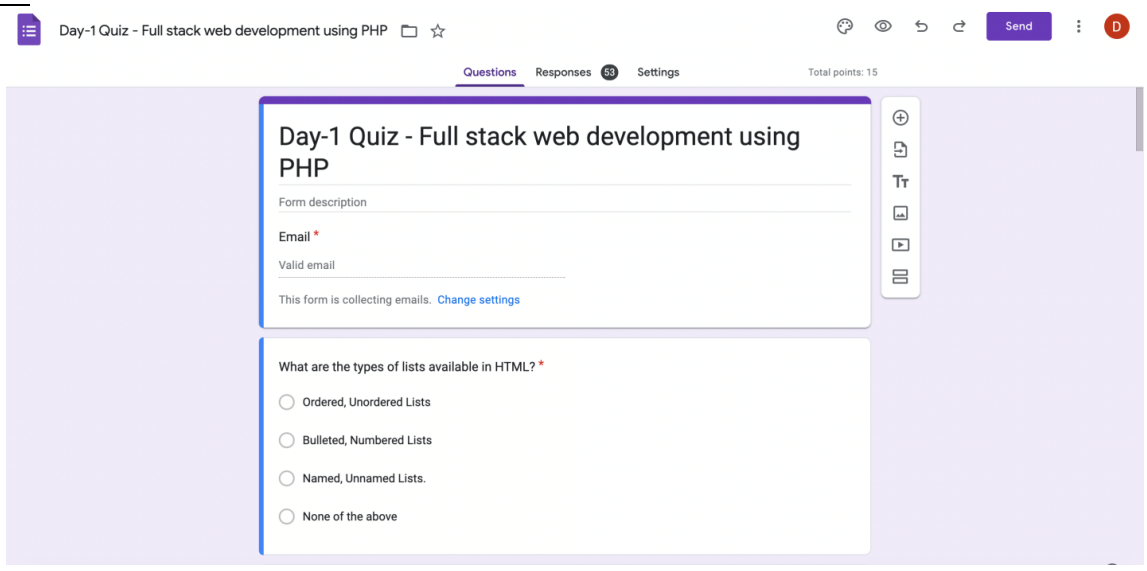
What aspects of this course were most useful or valuable?

Future use for placements.
Html and css
Detailed view on html,CSSwhich is helpful in web development
Basics for web development
The step wise teaching of the working of code
The material i.e ppt
Got to analyse data science and web development from a broader spectrum
Real time application and hands-on session
The ppt presentation was good, The classes and the quiz
Application level aspects

How would you improve this course?

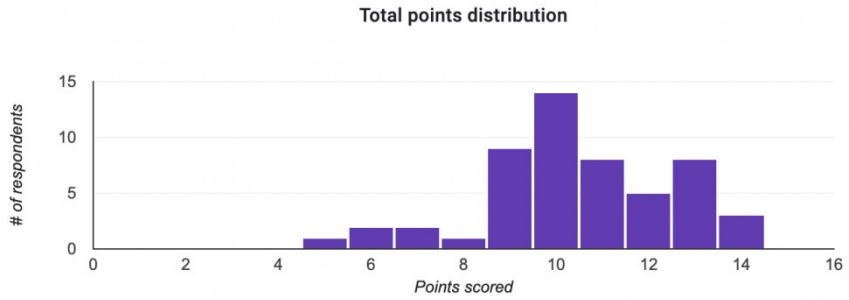
By introducing more challenging quiz and little challenges as tasks.
How to use the vs code and resources for full stack web development
More detail abt how to use these web development techniques to improve it
More details about web development
More details about how to use these techniques to improve it
More details on how to use these techniques to improve it
By giving more time
By giving more activities
More detail skilled techniques
Course should be continued for at least 2weeks
.
Slow the course content explanation
Giving more time
Give input from my side and learn all pre requisites before hand
By giving more time to this course and let students co-up with it
Slow down the pace of course content
It is a very helpful course to enhance our skills
No issue
Modern application
Maybe more by working on a project which is a full stack overall

Day wise Quiz



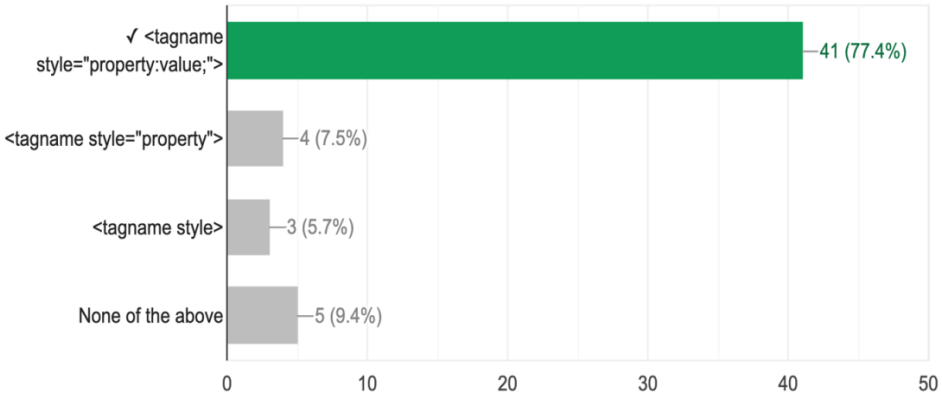
Insights

Average	Median	Range
10.45 / 15 points	10 / 15 points	5 - 14 points



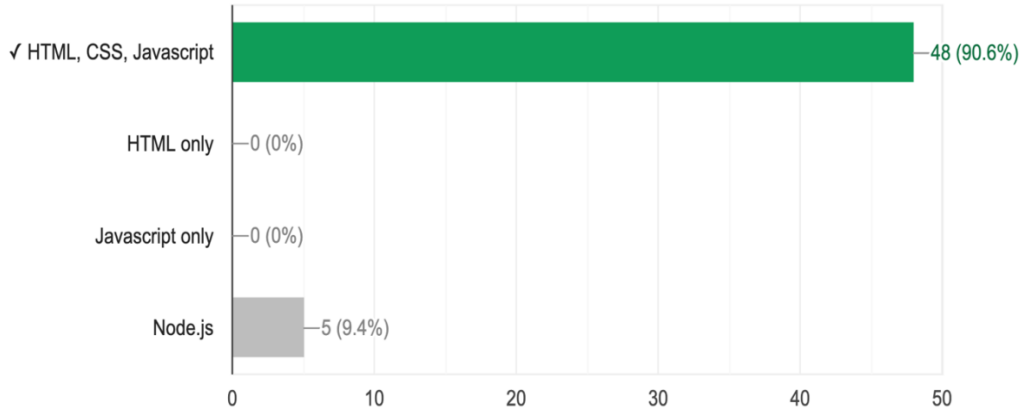
Which of the following is the correct syntax for using the HTML style attribute?

41 / 53 correct responses



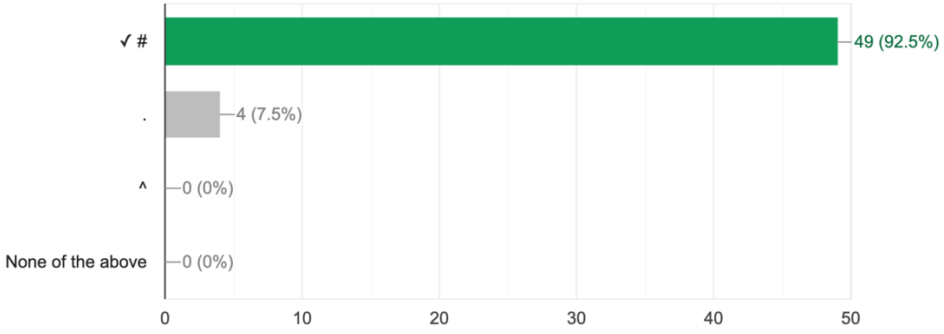
What are the main components of the front end of any working website?

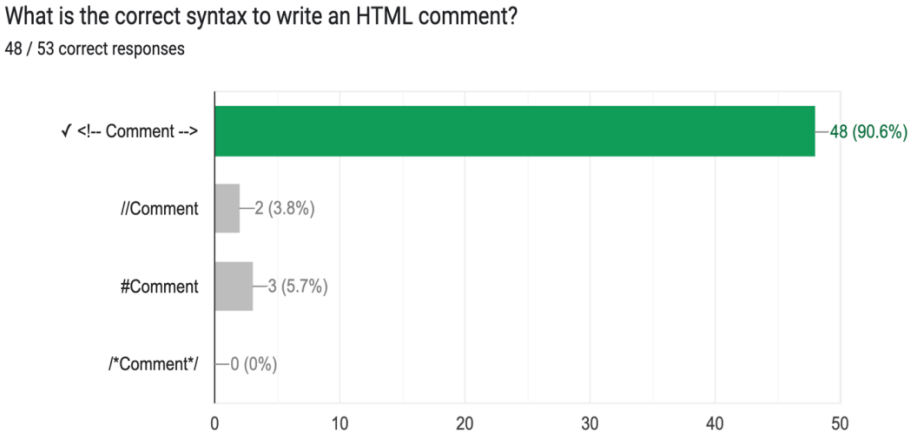
48 / 53 correct responses



How can we select an element with a specific ID in CSS?

49 / 53 correct responses




What is the correct syntax to write an HTML comment?
48 / 53 correct responses
✓ <!-- Comment -->
48 (90.6%)
//Comment
2 (3.8%)
#Comment
3 (5.7%)
/*Comment*/
0 (0%)
0
10
20
30
40
50

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science & Engineering		
Title of the Open Course		Soft Computing Using Machine Learning Techniques to Build AI Applications
Targeted Students (Branches)		Interdisciplinary
Registration Fee		Rs. 400/-
No. of students attended		35 to 42
Software/Hardware Tools used		Anaconda & Google colab
Delivery Methods		Presentation & demo
Assessment Methods (e.g.: Quiz, test,mini-project, report submission, etc.)		Quizzes
Open Course Chief Coordinator Details	Name	Dr. N. Rakesh
	Mobile No.	8277623664
	Email ID	n_rakesh@bmsit.in
Internal Resource Person Details	Name	Dr. N. Rakesh
	Designation	Associate Professor
	Mobile Number	8277623664
	Name	Dr. Pradeep K. R.
	Designation	Asst. Professor
	Mobile Number	9886171714
	Name	Dr. Anil Kumar
	Designation	Asst. Professor
	Mobile Number	8867732505
	Name	Dr. Karthik S. A.
	Designation	Asst. Professor
	Mobile Number	9743703599
	Name	Dr. Shoba M.
	Designation	Associate Professor
	Mobile Number	7019506962
	Name	Dr. Mohan B. A.
	Designation	Asst. Professor
	Mobile Number	9632912432
	Name	Dr. Kalai Vani Y. S.
	Designation	Asst. Professor
	Mobile Number	9611704189
External Resource Person Details	Name	Mr. Mohammed Azhar Hussain
	Designation	AI – Engineer
	Company/Organization	Aqmenz Automation Pvt. Ltd.
	Mobile Number/email-id	97388 02359

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) Covered all the Pos, except PO 2, 3, 6, 7 & 9	
Abstract	In today's context automation has become pervasive in all the aspects of technical domains. To impart the system requirement accordingly meet the expectations without much human intervention Machine learning. These deep learning models flow into a constant feedback loop with machine learning processes to continuously improve the AI algorithms.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Soft Computing Using Machine Learning Techniques to Build AI Applications"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2			2	3			2	2			3

Feedback from external experts:

1. External Speaker appreciated the participants for being interactive& motivate to work on more projects to develop the coding skills.

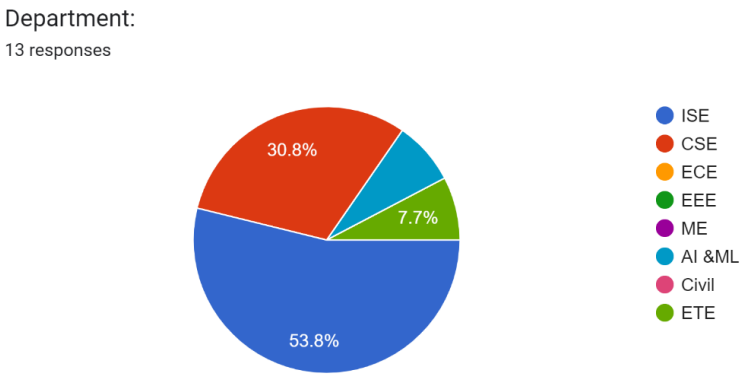
Feedback (critical) from students:

1. Python Course must be conducted before Machine learning
2. Sessions handled by external speakers should have been given more time.

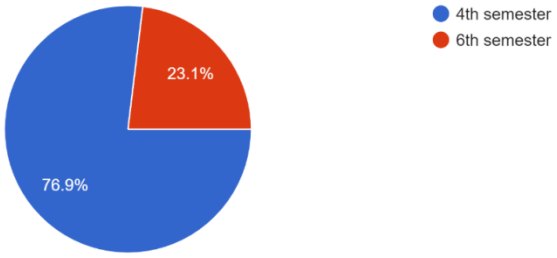
Corrective methods/suggestions to consider while conducting open course next time.

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

Feedback form

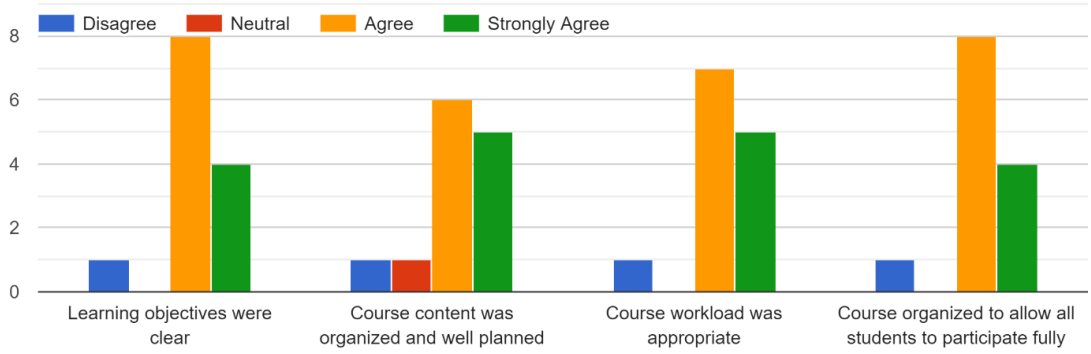


Semester:
13 responses

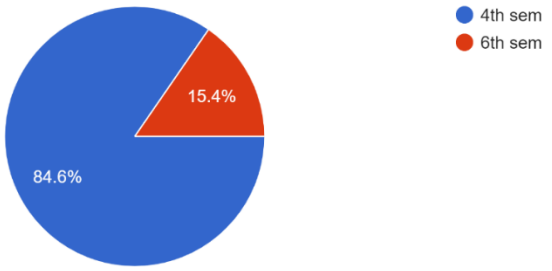


Contribution to learning

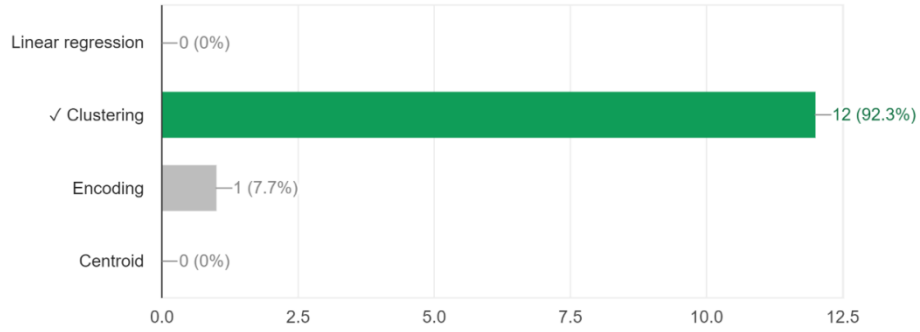
Course content:



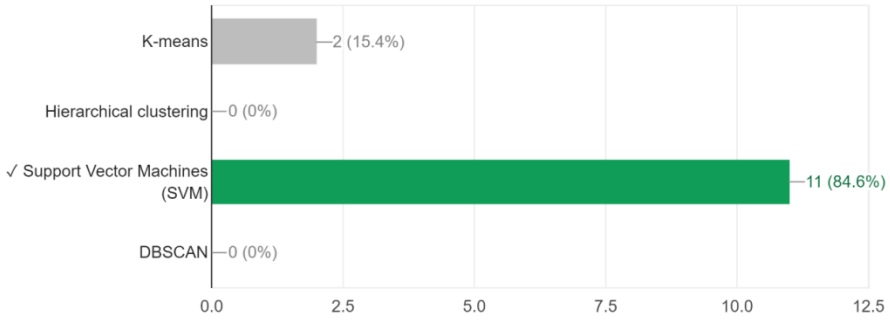
Sem
13 responses



Which machine learning technique is used to group similar data points together based on their characteristics?
12 / 13 correct responses

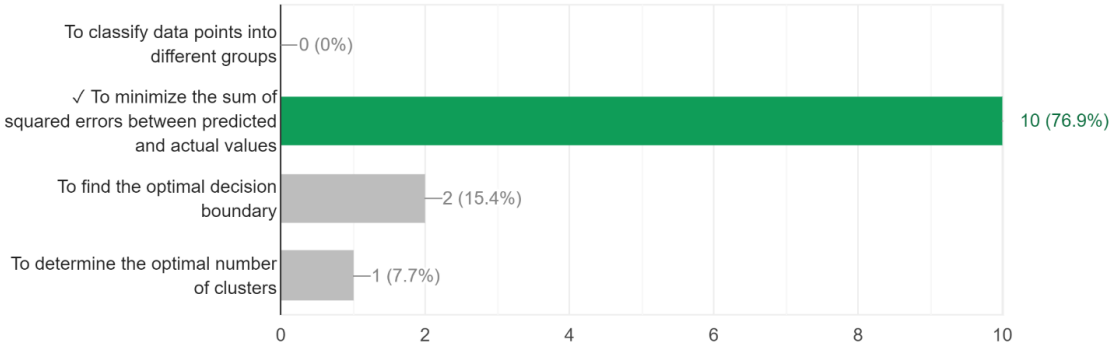


Which of the following is NOT a type of clustering algorithm?
11 / 13 correct responses



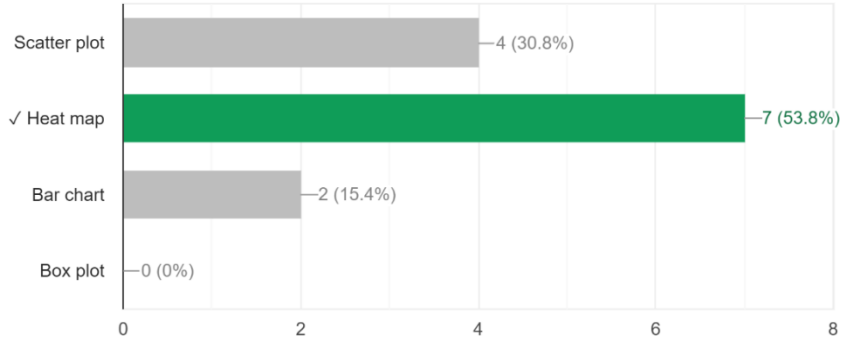
In linear regression, what is the goal?

10 / 13 correct responses



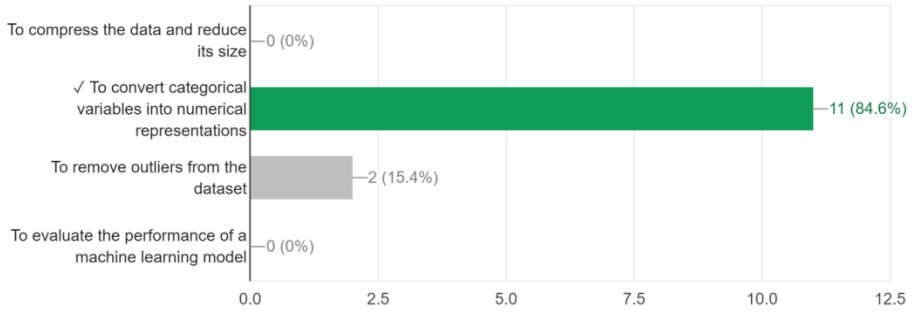
Which visualization technique is commonly used to represent the correlation between variables in a dataset?

7 / 13 correct responses



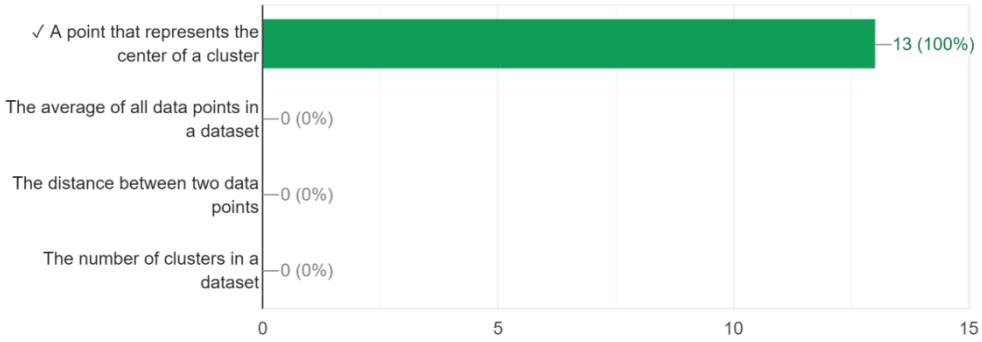
What is the purpose of encoding data in machine learning?

11 / 13 correct responses



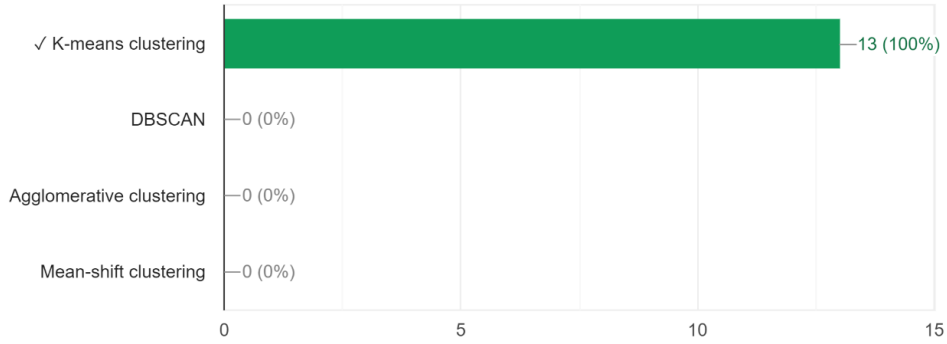
In clustering, what is a centroid?

13 / 13 correct responses



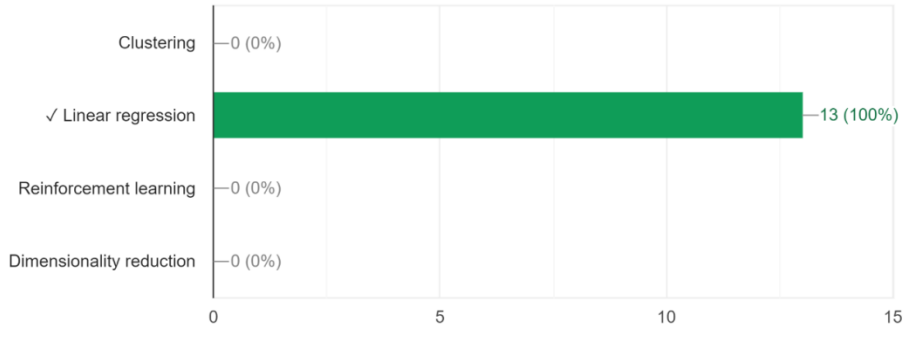
Which clustering algorithm assigns data points to clusters based on their nearest centroid?

13 / 13 correct responses



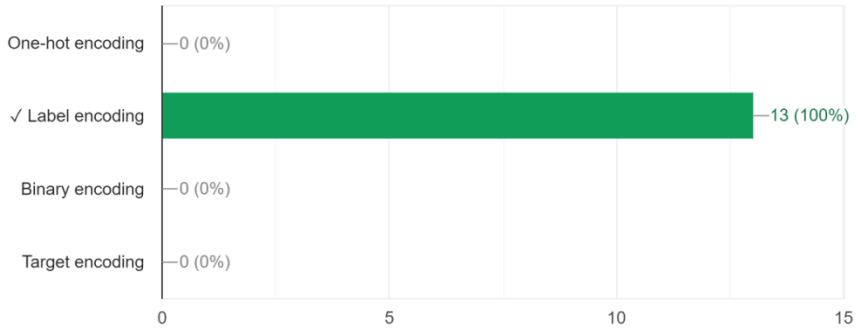
Which of the following is an example of supervised learning?

13 / 13 correct responses



Which of the following encoding techniques is suitable for handling ordinal categorical variables?

13 / 13 correct responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science & Engineering		
Title of the Open Course		Programming for IT careers
Targeted Students (Branches)		Interdisciplinary
Registration Fee		Rs. 400/-
No. of students attended		15-18
Software/Hardware Tools used		Code chef, hackerrank, leetcode
Delivery Methods		Presentation, Handson
Assessment Methods (e.g.: Quiz, test,mini-project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Prof. Vinutha K
	Mobile No.	9739924054
	Email ID	Vinuthak_ise2014@bmsit.in
Internal Resource Person Details	Name	Prof. Vinutha K
	Designation	Assistant Professor
	Mobile Number	9739924054
	Name	Dr. Karthik S. A.
	Designation	Asst. Professor
	Mobile Number	9743703599
	Name	Dr. Harish Kumar N
	Designation	Asst. Professor
	Mobile Number	
External Resource Person Details	Name	Aftab Ahemed ,
	Designation	Operations Engineer
	Company/Organization	Newfold, Bengaluru
	Mobile Number/email-id	
	Name	B R Muktheswar,
	Designation	Associate Consultant,
	Company/Organization	Oracle,Bengaluru
	Mobile Number/email-id	8660928653
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) Covered all the Pos, except PO 1, 2, 5, 10 & 12		
Abstract	Data structures and algorithms play a very important role in implementing software and in the hiring process as well. why companies interviews or focused on data structures and applications instead of language or framework or tools Pacific questions? Algorithms makes us of different problem solving techniques and programming paradigms to solve various computer science problems, software developers also have to make the right decisions when it comes to solving the problems of these companies the interviewers	

	are more interested in seeing how candidates use correct data structures to solve a problem.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Apply data structures concepts to solve real time problems**
	CO-2	**Analyse and choose suitable data structure for complex problems**
	CO-3	**Engage in self-learning to get eligible for placement**

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

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

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3	2			2					3		2

Feedback from external experts:
1. External Speaker appreciated the participants for being interactive & provided them information regarding placement preparation.

Feedback (critical) from students:
1. Course must be planned separately for non IT students.
2. Giving resources/materials for the preparation for the entire Placement preparation

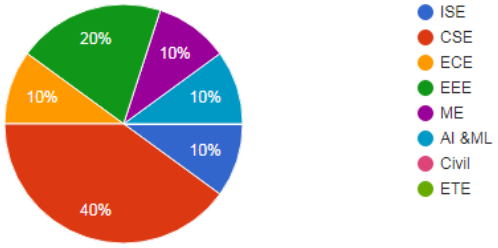
Corrective methods/suggestions to consider while conducting open course next time.
1. Course will be planned for non IT students for next time.
2. Add other important subjects required for placements like OS, CNS, DBMS
3. Giving resources/materials for the preparation for the entire Placement preparation (aptitude, technical interview, coding, hr interview) would also benefit all of us

Feedback form

Department:

Copy

10 responses



Contribution to learning

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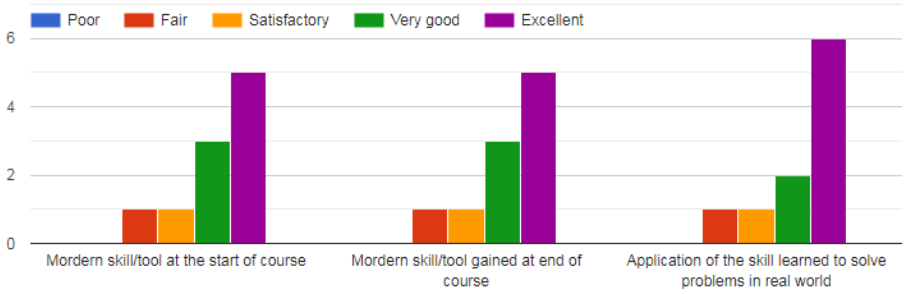
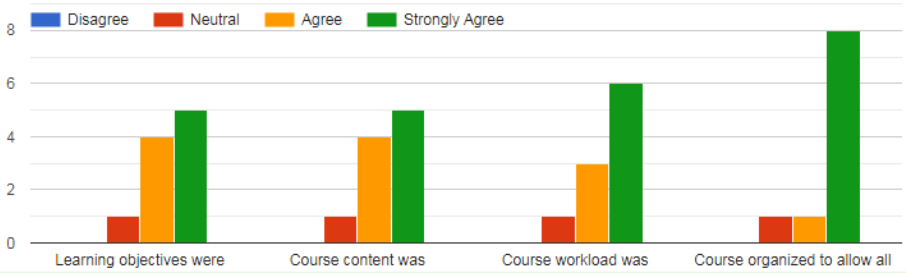


Course content:

Copy



What aspects of this course were most useful or valuable?

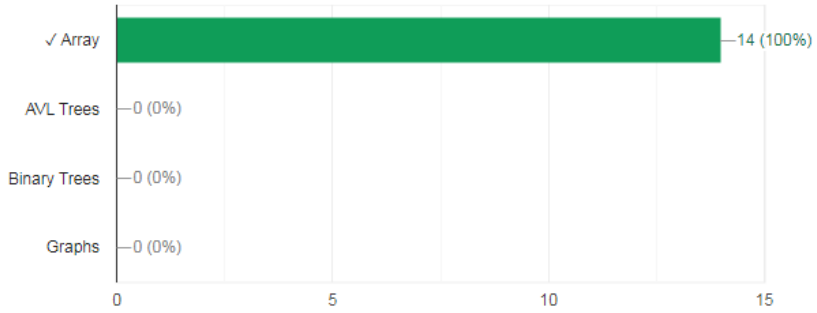
10 responses

- Hands-on programming
- Learning about coding
- Every aspects are useful and valuable
- Arrays, stack, coding
- Coding
- Problem solving techniques
- Everything
- Understanding the logics of programs
- Interactiveness

Copy

3.Which of the following is a linear data structure?

14 / 14 correct responses



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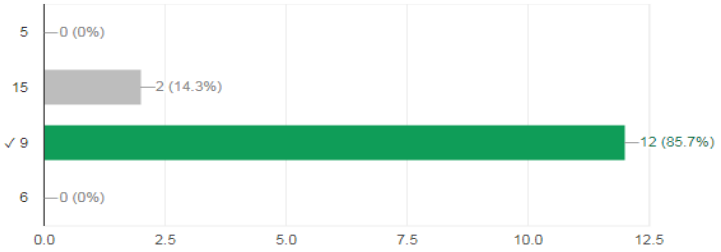
4. What will be the output of the following code snippet?

```
void solve() {
  int a[] = {1, 2, 3, 4, 5};
  int sum = 0;
  for(int i = 0; i < 5; i++) {
    if(i % 2 == 0) {
      sum += a[i];
    }
  }
  printf("%d", Sum);
}
```

12 / 14 correct responses

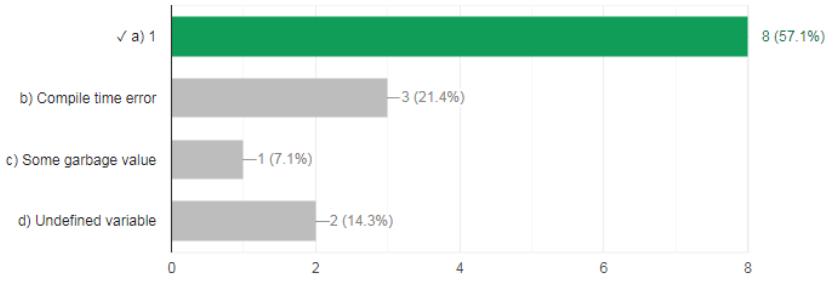


Copy

6. What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
  int ary[4] = {1, 2, 3, 4};
printf("%d\n", *ary);
 }
```

8 / 14 correct responses

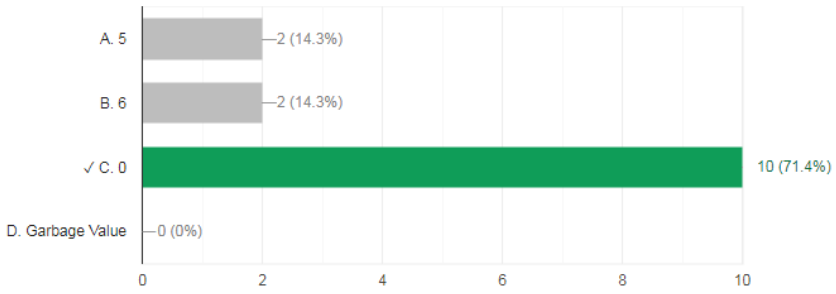


8. What is the output of this program?

Copy

```
void main()
{
    int a[8] = {1,2,3,4,5};
    printf("%d", a[5]);
}
```

10 / 14 correct responses

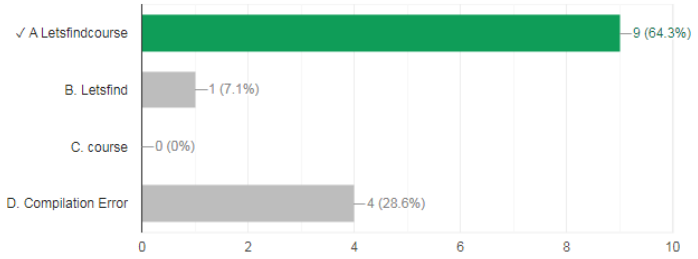


10. What is the output of the program?

Copy

```
#include <stdio.h>
void main()
{
   char s[] = "Letsfindcourse";
   printf("%s", str);
}
```

9 / 14 correct responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science & Engineering		
Title of the Open Course		Data Analytics using Microsoft Power BI
Targeted Students (Branches)		Interdisciplinary
Registration Fee		Rs. 400/-
No. of students attended		20
Software/Hardware Tools used		Power BI
Delivery Methods		Presentation & demo
Assessment Methods (e.g.: Quiz, test,mini-project, report submission, etc.)		Quizzes
Open Course Chief Coordinator Details	Name	Dr.Manjunath T N
	Mobile No.	9900130748
	Email ID	Manju.tn@bmsit.in
Internal Resource Person Details	Name	Dr.Manjunath T N
	Designation	Professor
	Mobile Number	9900130748
	Name	Dr. Pushpa S K
	Designation	Professor
	Mobile Number	9449226987
	Name	Dr.Chandrashekhara K T
	Designation	Asst. Professor
	Mobile Number	9741320283
	Name	Dr.Gireesh Babu C N
	Designation	Asst. Professor
	Mobile Number	8660370728
External Resource Person Details	Name	Ms. Varsha K
	Designation	Engineer
	Company/Organization	Goldman Sachs
	Mobile Number/email-id	9249573506
External Resource Person Details	Name	Mr Nagarjuna Gowda
	Designation	Engineer
	Company/Organization	Nokia
	Mobile Number/email-id	9110859914
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) Covered all the Pos, except PO 2, 3, 6, 7 & 9		

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Abstract	Elucidation on Microsoft Power BI and its various components. Demonstration of installing Microsoft Power BI and its set up. Sample data sets were loaded into the tools and generated variety of graphs such as bar chart, pie chart, column chart etc and explained the visualization of data using chart.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertise in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Data Analytics using Microsoft Power BI"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2			3	3	3			3	3			
CO3	3											3
Avg	**3**		**3**	**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

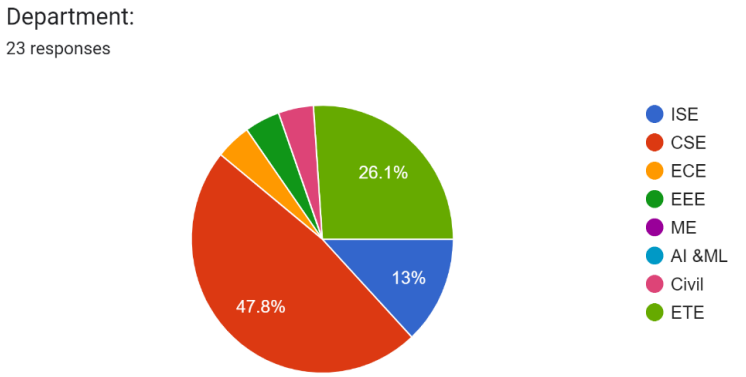
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2		2	2	3			2	2			3

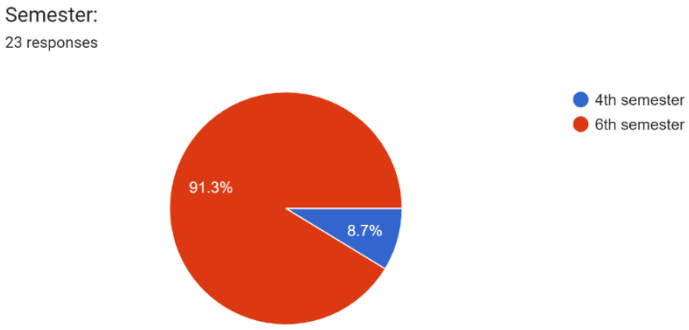
Feedback from external experts:
1. External Speaker appreciated the participants for being interactive& motivate to work on more projects to develop the coding skills.

Feedback (critical) from students:
1. well organized power BI sessions
2. Learnt designing of Dash boards using Power BI.

Corrective methods/suggestions to consider while conducting open course next time.
1. Pre-requisite to be covered first
2. Sufficient time must be given to participants to complete their project work.

Feedback form





OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science & Engineering		
Title of the Open Course		Hands-on Training on Robotic Automation Process Tools
Targeted Students (Branches)		Interdisciplinary
Registration Fee		Rs. 400/-
No. of students attended		60
Software/Hardware Tools used		UI Path Studio and Automation Anywhere
Delivery Methods		Hands on Training
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Quizzes, Project Presentation
Open Course Chief Coordinator Details	Name	Prof.S.Mahalakshmi
	Mobile No.	8660180443
	Email ID	maha.shanmugam@bmsit.in
Internal Resource Person Details	Name	Prof.S.Mahalakshmi
	Designation	8660180443
	Mobile Number	maha.shanmugam@bmsit.in
	Name	Dr. Veena N
	Designation	Asso. Professor
	Mobile Number	7406699661
	Name	Prof.Ambika Rani Subash
	Designation	Asst. Professor
	Mobile Number	9008610899
External Resource Person Details	Name	Mr. B.R Muktheswar
	Designation	Associate Consultant
	Company/Organization	Oracle
	Mobile Number/email-id	8660928653/muktheswar26@gmail.com
	Name	Mr.Aftab Ahmed
	Designation	Software developer
	Company/Organization	Newfold Digital
	Mobile Number/email-id	7349185669/
	Name	Mr.Tharang S
	Designation	Software developer
	Company/Organization	IBM
	Mobile Number/email-id	8618504188/tharang1007@gmail.com
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) Covered all the Pos, except PO 3,4, 7,8,11		

Abstract	**In** today's context automation has become pervasive in all the aspects of technical domains. To impart the system requirement accordingly meet the expectations without much human intervention Machine learning. These deep learning models flow into a constant feedback loop with machine learning processes to continuously improve the AI algorithms.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Hands-on Training on Robotic Process Automation Tools"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3	3		3	3	3		
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3	3		2	3	3		3

Feedback from external experts:
1. External Speaker appreciated the participants for being interactive & motivate to work on more real time projects to develop the automation skills.

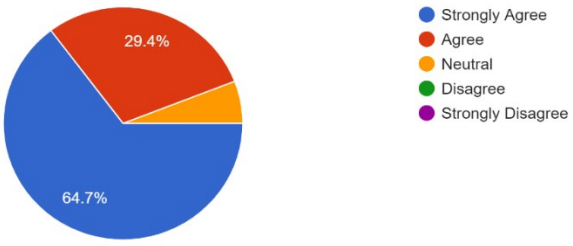
Feedback (critical) from students:
1. Nil

Corrective methods/suggestions to consider while conducting open course next time.
1. Schedule the dates in the mid of the semester.
2. Can give marks/credits so that students can attend sincerely
3. Can be limited to 3 days

Feedback form

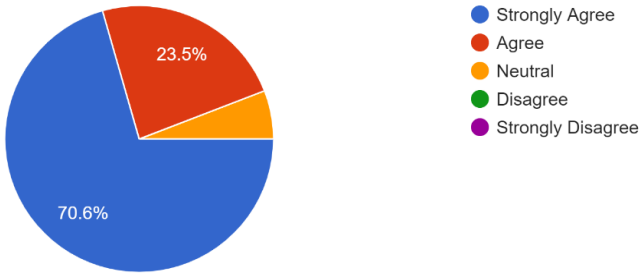
1. The program was well planned within the allotted time

17 responses



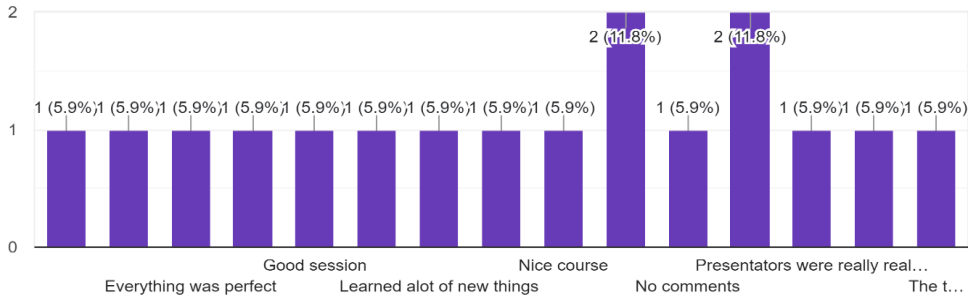
5. Hands on session were easy to understand and was useful

17 responses



7. Any other Comments

17 responses



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OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science & Engineering		
Title of the Open Course		AWS services and Tools for Cloud Computing
Targeted Students (Branches)		BE(CSE/ISE/AI&ML/EC
Registration Fee		400/-
No. of students attended		60
Software/Hardware Tools used		Azure, AWS portal, MySQL Workbench
Delivery Methods		Offline
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Quiz
Open Course Chief Coordinator Details	Name	Dr. Prakash GL/Dr. Narasimha Murthy MS
	Mobile No.	8979108446
	Email ID	glprakash@bmsit.in/
Internal Resource Person Details	Name	Dr. Prakash GL
	Designation	Associate Professor
	Mobile Number	8979108446
	Name	Dr. Swetha MS
	Designation	Assistant Professor
	Mobile Number	98446 90637
External Resource Person Details	Name	Mr. Sathyanarayana M S and Prof. Nayana BP
	Designation	Developer
	Company/Organization	Manager-Custom Application Development in Canopus, GBS Pvt. Ltd.., Bengaluru
	Mobile Number/email-id	9492712710
	Name	Rakshith Danti
	Designation	Cloud Analyst
	Company/Organization	AWS Pvt. Ltd, Bangalore
	Mobile Number/email-id	9108554776
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract	In this course the main focus is on making students to understand various concepts of cloud computing and also make sure theat why they need to go for cloud computing. Once the basic knowledge on cloud computing is imparted , explained about various models in cloud computing like SAAS,PAAS and IAAS. In continuation to this the differences between GCP,AZURE AND AWS are explained very clearly. Upon completion of the above mentioned topics , the hands on sessions are started with creation of Azure Student account and what are the various services available in Azure . Once it is completed the students are trained	

	on creating web app services with the help of VS CODE. In continuation to the app services , static webpage creation explained with hands on session. In the afternoon session the major concentration is on creating and accessing the virtual machine. Each session was ended with Q&A session

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertise in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "AWS Services and Tools for Cloud Computing"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2.5			2.5	2.5		2.5	2.5				3

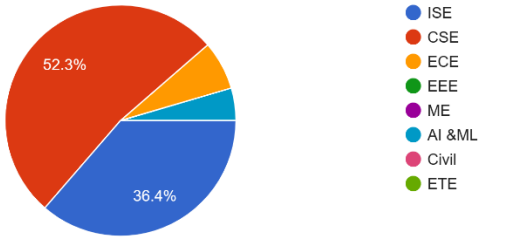
Feedback from external expert:
1. External Speaker appreciated the participants for being interactive

Feedback (critical) from students:
1 students should have background of operating system and networking concepts
2. Some of the sessions handled by external speaker should have been clearer

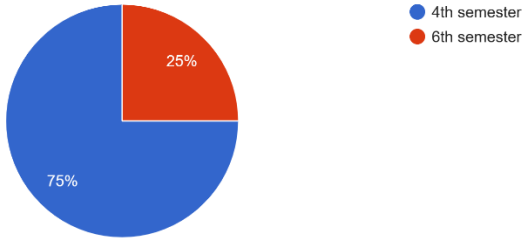
Corrective methods/suggestions to consider while conducting open course next time.
1. Pre -requisite to be covered first
2. Sufficient time must be given to participants to complete their assignment

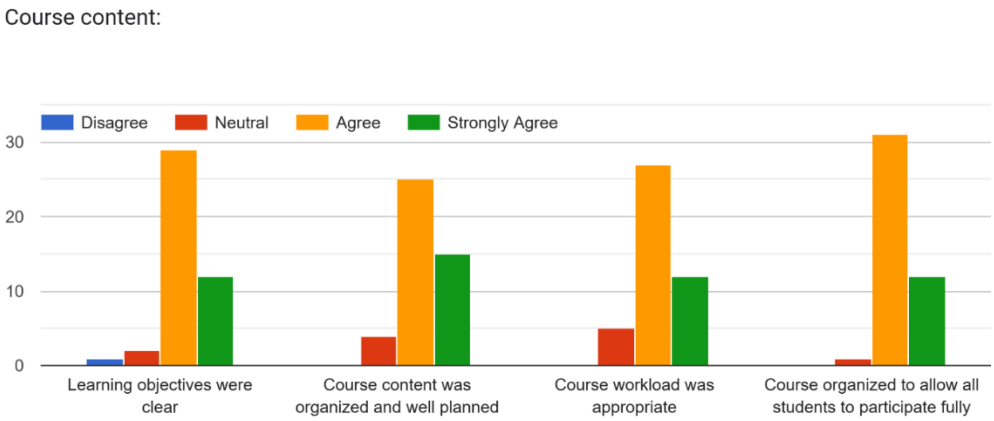
Sample course feedback form

Department:
44 responses

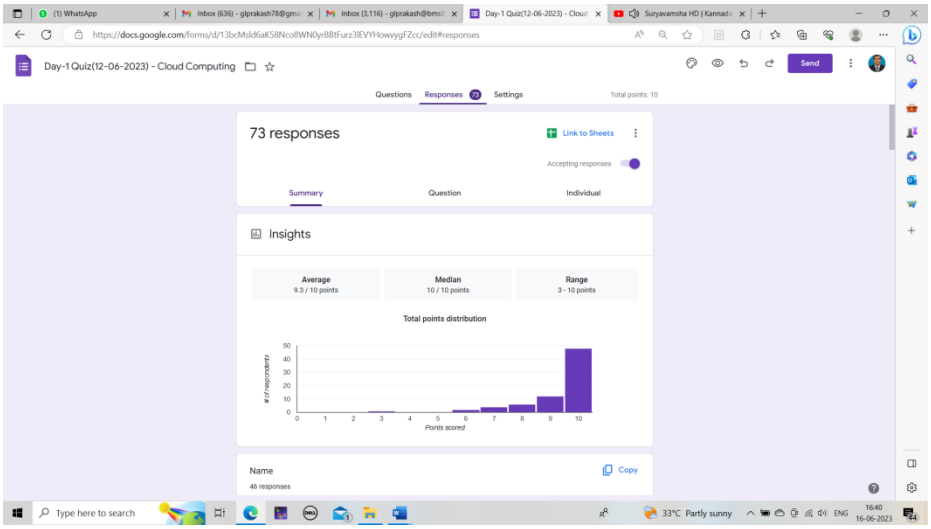


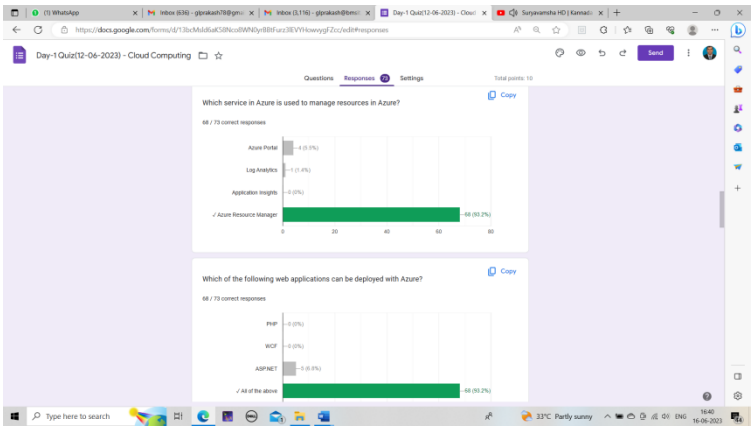
Semester:
44 responses





Sample course feedback form



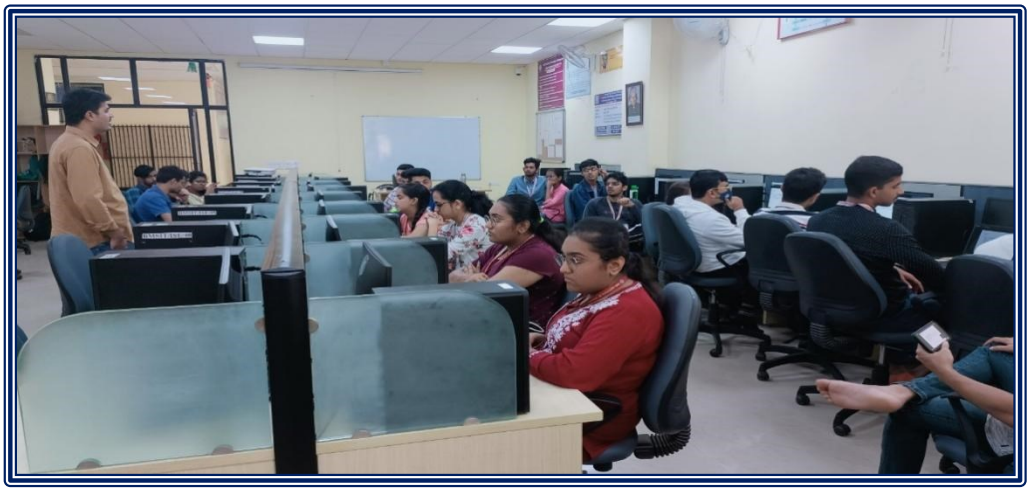

Day-1 Quiz(12-06-2023) - Cloud Computing
Send
Questions
Responses 73
Settings
Copy
Which service in Azure is used to manage resources in Azure?
68 / 73 correct responses
Azure Portal
Log Analytics
Application Insights
✓ Azure Resource Manager
Copy
Which of the following web applications can be deployed with Azure?
68 / 73 correct responses
PHP
WCF
ASP.NET
✓ All of the above

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Information Science & Engineering		
Title of the Open Course		Spring Boot Essentials
Targeted Students (Branches)		Interdisciplinary
Registration Fee		Rs. 400/-
No. of students attended		35 to 40
Software/Hardware Tools used		Java IDE-Eclipse , Intellij ,POSTMAN
Delivery Methods		Presentation & demo
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Mini Projects
Open Course Chief Coordinator Details	Name	Dr. Geeta Patil and Dr. Surekha K.B.
	Mobile No.	9035757671
	Email ID	surekhakb@bmsit.in
Internal Resource Person Details	Name	Dr. Geeta Patil
	Designation	Associate Professor
	Mobile Number	9764923424
	Name	Dr. Surekha K.B.
	Designation	Asst. Professor
	Mobile Number	9035757671
External Resource Person Details	Name	Mr. Dibya Ranjan
	Designation	Software Engineer-3
	Company/Organization	Expediate Systems
	Mobile Number/email-id	80500 09989
	Name	Mr.Abhijith B.E
	Designation	Software Engineer
	Company/Organization	Khoros
	Name	Mr.Prashanth R
	Designation	Software Engineer
	Company/Organization	Money View
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) Covered all the Pos, except PO 2, 3, 6, 7		
Abstract (Details of the Open Course)	Spring is widely used for creating scalable applications. For web applications Spring provides Spring MVC which is a widely used module of spring which is used to create scalable web applications. Spring Boot is built on the top of the conventional spring framework. So, it provides all the features of spring and is yet easier to use than spring.	

Photograph of the event :



Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Soft Computing Using Machine Learning Techniques to Build AI Applications"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3	3		
CO3	3									3		3
Avg	**3**			**3**	**3**			**3**	**3**	**3**		**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	2			2	3			2	2	3		3

Feedback from external experts:

1. External Speaker appreciated the participants for being interactive & motivate to work on more projects to develop the coding skills.

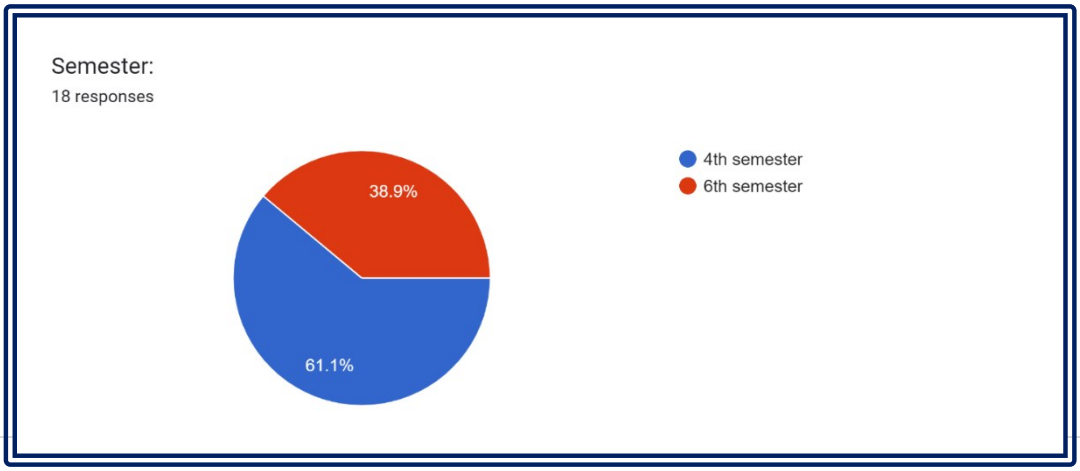
Feedback (critical) from students:

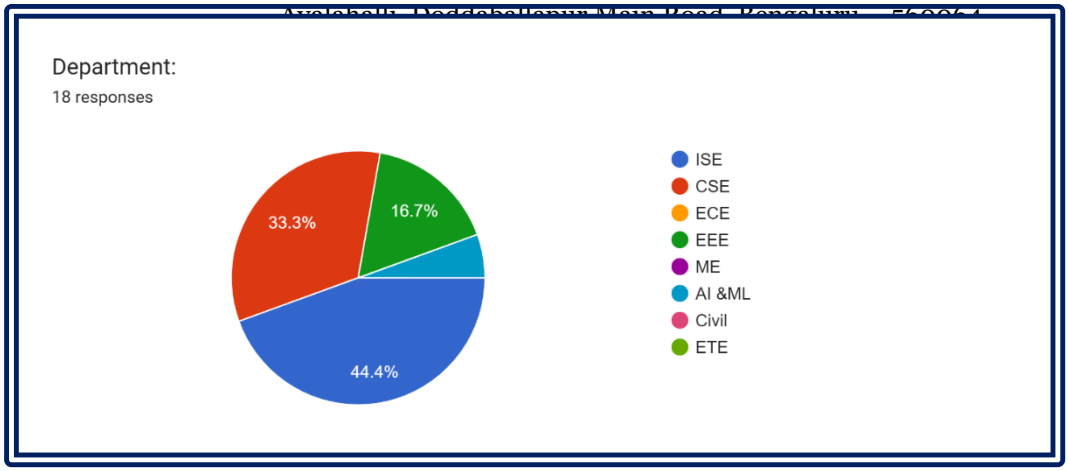
1. Industry Resource person was very helpful in understanding the difficulty in practical implementations.
2. More by external speakers should have been arranged.

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

1. More Industry resource person to be invited.
2.Sufficient time must be given to participants to complete their project work.

Feedback form




Department:
18 responses
33.3%
16.7%
44.4%
ISE
CSE
ECE
EEE
ME
AI &ML
Civil
ETE

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Mathematics		
Title of the Open Course		Mathematical Methods for Higher Studies
Targeted Students (Branches)		B.E. 4th Sem and 6th Sem
Registration Fee		Rs. 400/-
No. of students attended		36
Software/Hardware Tools used		R- Software
Delivery Methods		Classroom presentation (Chalk Board), PPT
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		MCQ Questions
Open Course Chief Coordinator Details	Name	Dr. Arnab Bhattacharyya & Dr. Priyanka Pal
	Mobile No.	7631057464, 9031355922
	Email ID	arnab@bmsit.in priyankapal@bmsit.in
Internal Resource Person Details	Name	Mr. Muneshwara M S
	Designation	Assistant Professor, Dept. of CSE
	Mobile Number	9743795366
	Name	Dr. Karabi Sikdar
	Designation	Professor
	Mobile Number	9448505128
	Name	Dr. Annamma Abhraham
	Designation	Professor
	Mobile Number	9448970039
	Name	Dr. Jojy Joseph Idicula
	Designation	Professor
	Mobile Number	9481451250
	Name	Dr. Anitha Kiran
	Designation	Assistant Professor
	Mobile Number	9900168787
	Name	Dr. Annapoorna M S
	Designation	Assistant Professor
	Mobile Number	9964057433
	Name	Dr. Kallur V Vijayakumar
	Designation	Assistant Professor
	Mobile Number	9900106939
	Name	Dr. Sreelakshmi T K
	Designation	Assistant Professor
	Mobile Number	9620680089
	Name	Dr. Arnab Bhattacharyya
	Designation	Assistant Professor
	Mobile Number	7631057464
	Name	Dr. Priyanka Pal

	Designation	Assistant Professor
	Mobile Number	9031355922
	Name	Dr. Aruna Kumara H
	Designation	Assistant Professor
	Mobile Number	9741289653
External Resource Person Details	Name	Dr. Rohit Sharma
	Designation	Associate Professor, Dept. of Mathematics
	Company/Organization	GITAM University, Bengaluru
	Mobile Number/email-id	7838615158, rsharma@gitam.edu
Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract	Mathematical methods play a crucial role in modern engineering, enabling engineers to model, analyze, and solve complex problems encountered in various fields. This abstract provides an overview of the mathematical methods commonly employed in modern engineering, highlighting their applications and significance. The Open Course begins by emphasizing the importance of mathematics as a foundational tool for engineers. It explores the fundamental concepts of calculus, linear algebra, and differential equations, which form the backbone of mathematical modeling in engineering. Calculus allows engineers to analyze rates of change, optimize designs, and understand dynamic systems. Linear algebra provides a framework for solving systems of equations, manipulating vectors and matrices, and tackling problems involving multiple variables. Differential equations enable the description and analysis of dynamic phenomena, such as fluid flow, heat transfer, and structural vibrations. Furthermore, the Open Course discusses the application of numerical methods in engineering, including finite element analysis, numerical integration, and optimization techniques. These methods allow engineers to approximate solutions to complex problems that may not have analytical solutions. Finite element analysis, for instance, enables the simulation of complex structures and systems, helping engineers understand their behavior under various conditions. Numerical integration techniques facilitate the accurate calculation of definite integrals, which are often encountered in engineering analysis. Optimization techniques aid in finding the optimal values of design parameters, maximizing performance while minimizing costs or constraints.	
Photograph of the event :		

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Mathematical Methods for Higher Studies"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3			2	3			3

Feedback from external expert:

External Speaker appreciated the participants for being interactive and also appreciated the importance of such Open Course.

Feedback (critical) from students:

Students participated in the sessions actively and learned a lot of interesting concepts of Higher Mathematics.

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

Pre -requisite to be covered first.
Sufficient time must be given to participants to complete their assignment and to be prepared for the assessments.

Student Feedback:

Open Course on "Mathematical Methods for Higher Studies" (June 12-16, 2023)

9 responses

Publish analytics

Name

9 responses

SHREYASI M

A AFZAL PASHA

Greeshma N

Lalith P

SYEEDA AIEMEN DANIA SALEEM

UMAR EJAZ IMAM

Omar Farooq

Mohammed Yousuf Parvez

Syed faizan

Email

9 responses

manibangalore8@gmail.com

H1@bmsit.in

a53@bmsit.in

lalithprakashk@gmail.com

f43@bmsit.in

f51@bmsit.in

omarfarooq9991@gmail.com

e23@bmsit.in

f42@bmsit.in

USN

9 responses

1BY21IS160

1BY21EC001

1BY21CS063

1BY20EC087

1BY21IS176

1BY21IS185

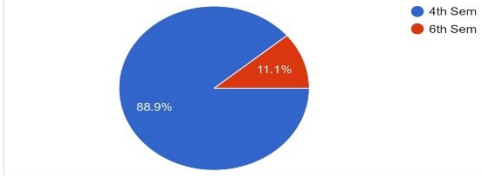
1BY21IS099

1BY21IS086

1BY21IS175

Semester Copy

9 responses



Branch & Section

9 responses

ISE C-Section

ECE-A

CSE-A

ECE Bsec

ISE - C

ISE 3"C"

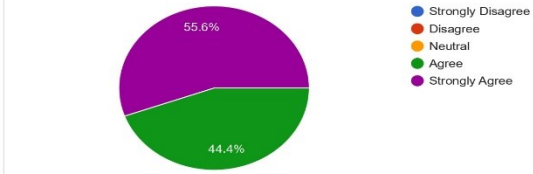
ISE-B

ISE & B

Ise C

The open course offered was good enough to improve my knowledge and skills Copy

9 responses



Copy

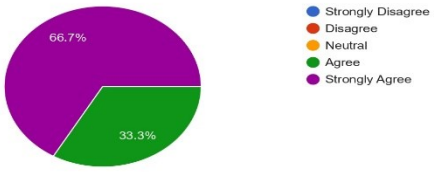
The contents of the open course were properly framed in accordance with the Industry requirement

9 responses

Copy

The instructors effectively explained and illustrated course concepts

9 responses



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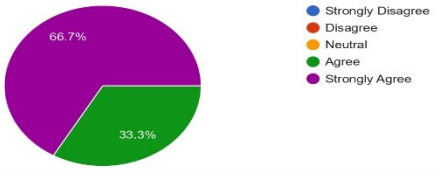
The instructors encouraged students participation in class

9 responses

Copy

The instructors communicated clearly and were easy to understand

9 responses



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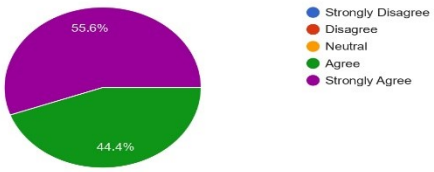
The resource persons invited to the open course were good enough to cover the topics in depth

9 responses



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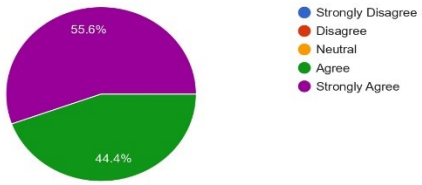
The open course covered most of the key aspects provided in the course schedule

9 responses



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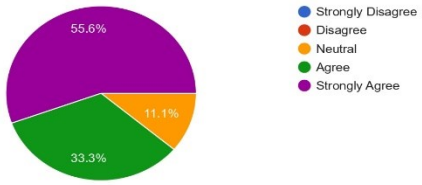
The course helped me to acquire sufficient teamwork, continuous learning, modern tools usage and other skills

9 responses



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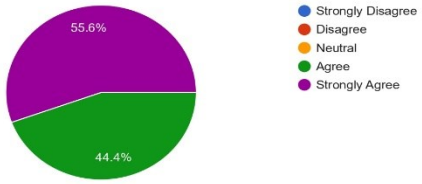
The contents covered in the open course meets the course outcomes defined

9 responses



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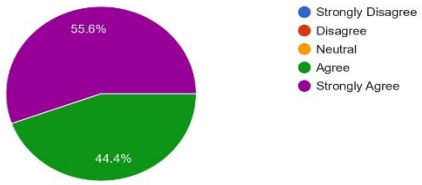
I am more inspired to utilize open course to project based learning, Industry internship, job opportunity etc

9 responses



Any Suggestions

1 response

Sessions are very good. I feel it was more theoretical in a few sessions.

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OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Mechanical Engineering		
Title of the Open Course		Electronics and PC Cooling Simulation and Analysis Using CFD Tool
Targeted Students (Branches)		All branches
Registration Fee		Rs.400/-
No. of students attended		25+1 (Registered for other course, but attended) = 26 Nos
Software/Hardware Tools used		Ansys 15 and computer
Delivery Methods		Chalk and talk, Power pint presentation, videos, Ansys Software, hands-on session.
Assessment Methods (e.g.: Quiz, test, mini-project, report submission, etc.)		Project
Open Course Chief Coordinator Details	Name	Dr. Ravichandra K R Dr. Nagamadhu M
	Mobile No.	9880523462 9611338626
	Email ID	ravichandra@bmsit.in nagamadhum@bmsit.in
Internal Resource Person Details	Name	Dr. Ravichandra K R
	Designation	Assistant Professor
	Mobile Number	9880523462
	Name	Dr. Nagamadhu M
	Designation	Assistant Professor
	Mobile Number	9611338626
External Resource Person Details	Name	Mr. Rakesh Kumar
	Designation	Full time PhD scholar
	Company/Organization	Department of Mechanical Engineering, Indian Institute of Science (IISc), Bengaluru
	Mobile Number/email-id	9901421766
	Name	Mr. B Aneesh Bhat
	Designation	Full time PhD scholar
	Company/Organization	Department of Interdisciplinary Centre for Energy Research, Indian Institute of Science (IISc)
	Mobile Number/email-id	8217369871
	Name	Prof. Rajesh K.R.
	Designation	Professor
	Company/Organization	School of Mechanical Engineering, REVA University, Bengaluru
	Mobile Number/email-id	9620264880

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs) PO 4,5,8,9,&12. Limited content with respect to simulation for fluid and thermal problems as per VTU.	
Abstract	Electronic device like Sensors, Actuators, Battery, Microcontrollers and Computers are the core elements of todays automated and sophisticated applications and processes. Performance density (work efficiency per size) of these devices have been increased extensively from day-to-day. Due to the compact and miniature size and extensive efficiency, they are tending to generate excessive heat during their working. While designing such components thermal analysis for their functionality and stability is most essential. Computational Fluid Dynamics is the technique used for non-destructive testing and simulation of such systems. The course is intended to provide the knowledge and hands-on skill on application of Ansys -FLUENT a popular industrial tool used for such simulations and analysis.

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Electronics and PC Cooling Simulation and Analysis Using CFD Tool"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained (to be filled after the assessments)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3			3	3			0	3			3

Feedback from external expert:

1. External Speaker appreciated the course content and students interactive

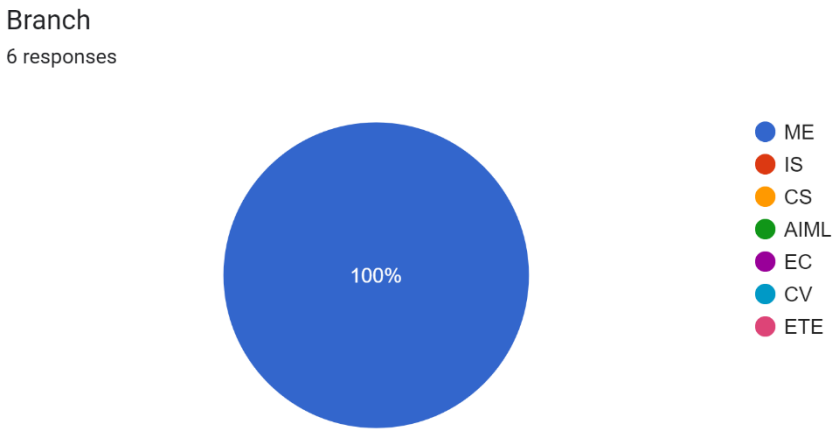
Feedback (critical) from students:

1. Course was excellent to learn about thermal and fluid behavior
2. IISc resource person overloaded with theory part rather than practice

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

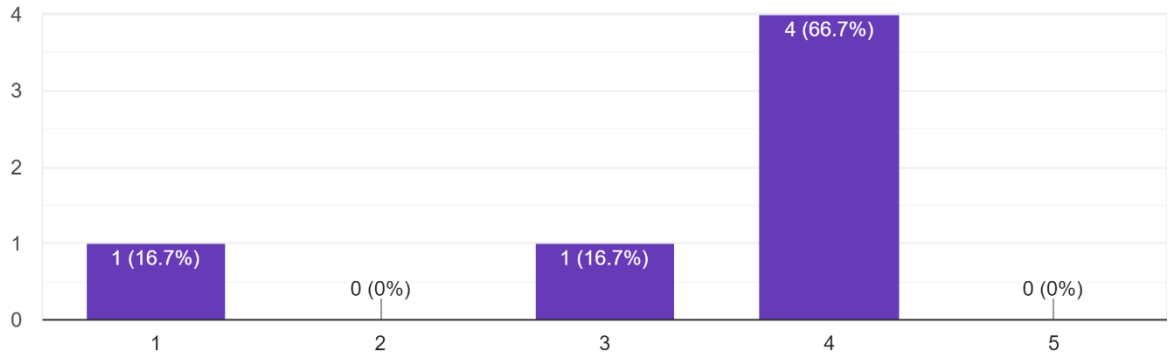
1. Pre -requisite to be covered first
2. Student involvement classes during open course

Sample course feedback form



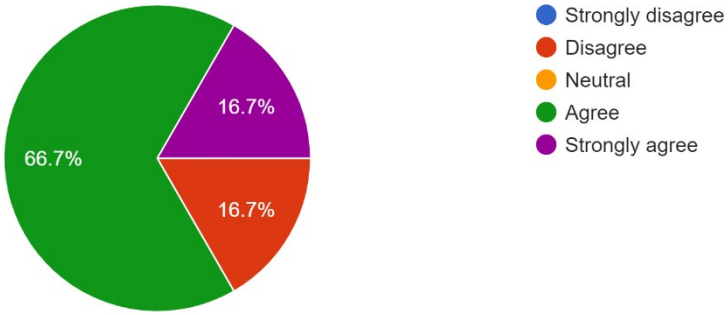
How did you rate content of day 1 course develop you professionally?

6 responses



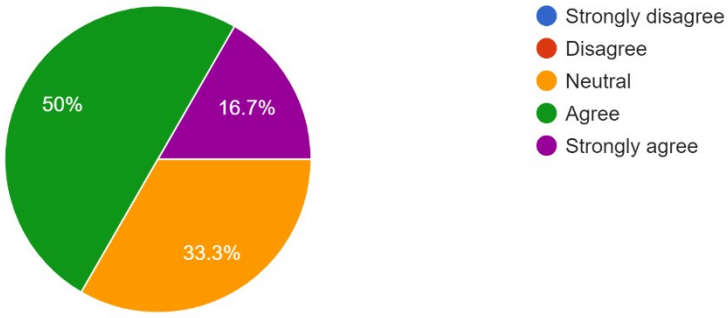
The course met your expectations

6 responses



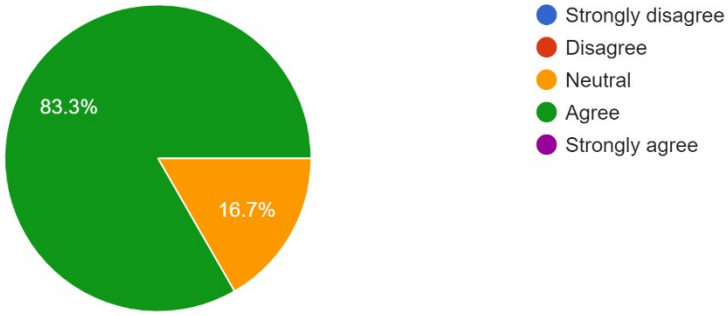
The course met your needs

6 responses



The topics covered day 1 were relevant to the course

6 responses

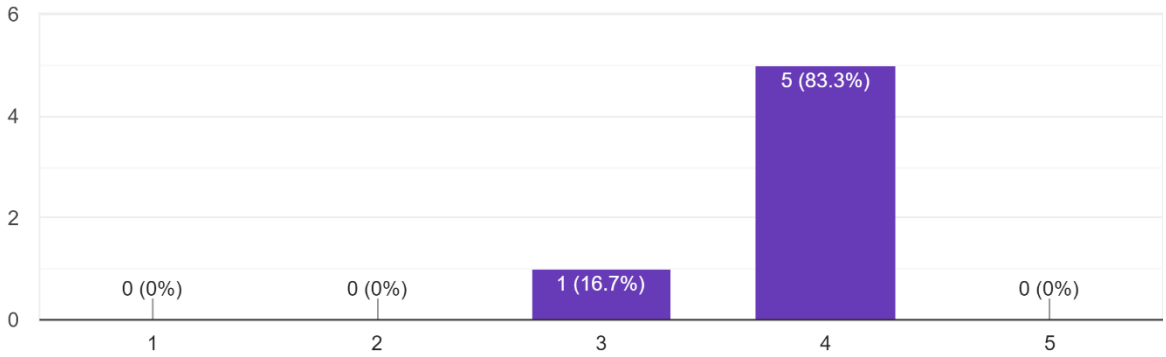


The day 1 instructions were clear

6 responses

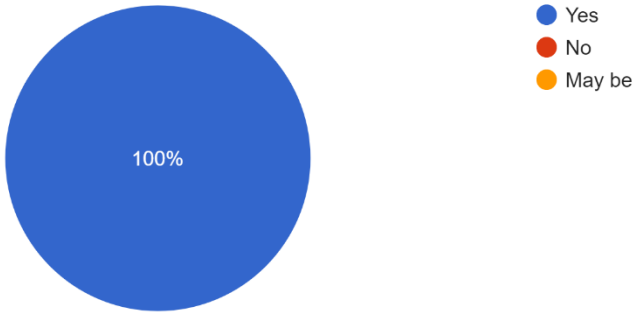
Rate your overall experience of the day 1

6 responses



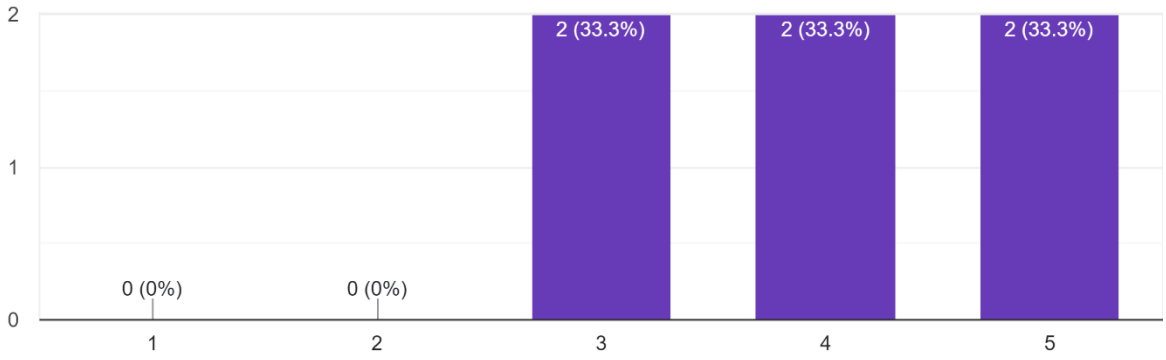
Sessions are starts and ends on time

6 responses



How do you rate coordinator interaction

6 responses



OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: Mechanical Engineering		
Title of the Open Course		Automation and Robotics
Targeted Students (Branches)		All branches
Registration Fee		Rs.400/-
No. of students attended		45
Software/Hardware Tools used		Cadem software
Delivery Methods		Power Point Presentation
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		MCQ's
Open Course Chief Coordinator Details	Name	Mr.Sriganesh T G, Mrs.Nithya Poornima S
	Mobile No.	9738456024, 9986026013
	Email ID	ganeshmech@bmsit.in, nithyapmech@bmsit.in
Internal Resource Person Details	Name	Mrs.Nithya Poornima
	Designation	Assistant Professor
	Mobile Number	9986026013
	Name	Sriganesh T G
	Designation	Assistant Professor
	Mobile Number	9738456024
External Resource Person Details	Name	Mr.Chethan H Rajdev
	Designation	National Sales Manager
	Company/Organization	Domin Technologies
	Mobile Number/email-id	Chetan.rajdev@domin.co
	Name	Mr.Arun Singh
	Designation	General Manager
	Company/Organization	Difacto Robotics and Automation.Pvt.Ltd
	Mobile Number/email-id	9108053687
	Name	Mr.Somesh Kumar
	Designation	Software Engineer
	Company/Organization	Codeyoung
	Mobile Number/email-id	7371029410
	Name	Mukteshwar
	Designation	Software Engineer
	Company/Organization	Accenture
	Mobile Number/email-id	8660928653
Abstract	Automation and Robotics will provide some of the most exciting opportunities and biggest challenges of our times. Automation control is the application of technology, programs, robotics or processes to achieve outcomes with minimal human input. It involves using automation and control products like contactors,	

	HMIs, PLCs, sensors, relays, timers and modules to operate machines, systems or processes. With new technologies being conceived every day this course is designed for those interested in contributing to developments in these fields and will provide you with the broad interdisciplinary knowledge and skills.

Photograph of the event :

Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of "Mechanical Engineering"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

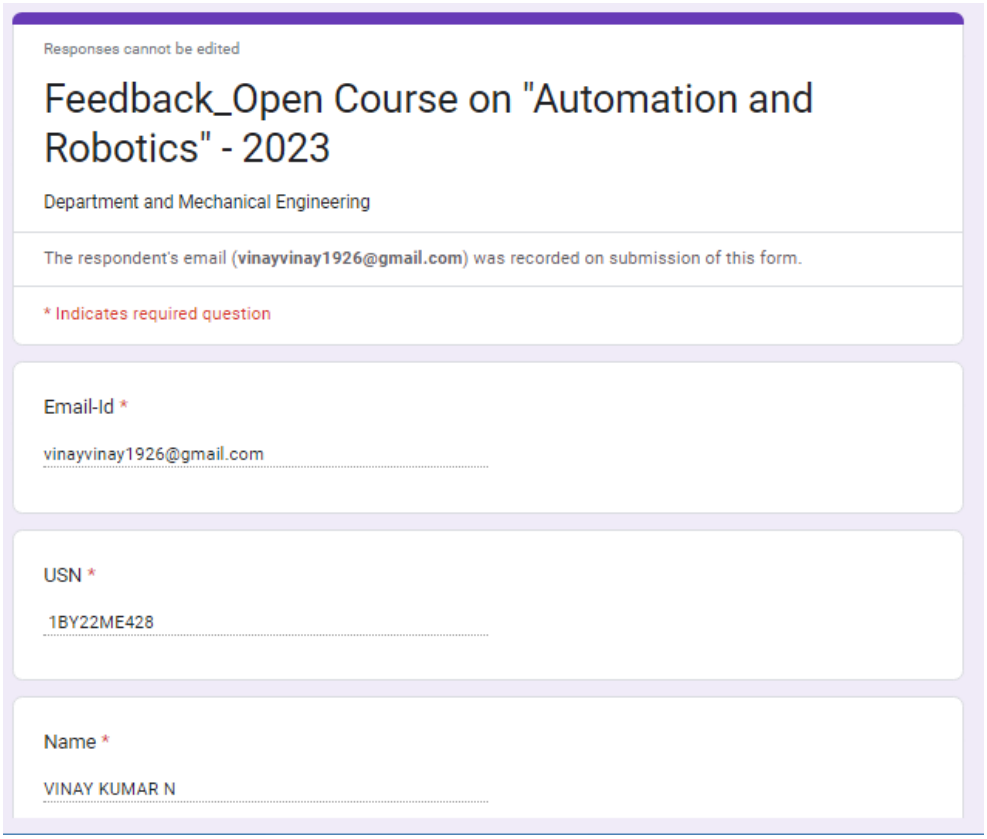
Attained values	**3**			**3**	**3**			**3**	**3**			**3**

Feedback from external expert:
1. To accommodate more such courses in syllabus to expertise with meeting Demands

Feedback (critical) from students:
1. To provide hands on with respect to sensors / transducers
2. To ensure that the course gives placements

Corrective methods/suggestions to consider while conducting open course next time.
1. Pre -requisite to be covered first
2. To include real time projects so that it will be easily to adapt to industry

Sample of Course feedback form



Responses cannot be edited

Feedback_Open Course on "Automation and Robotics" - 2023

Department and Mechanical Engineering

The respondent's email (**vinayvinay1926@gmail.com**) was recorded on submission of this form.

* Indicates required question

Email-Id *

vinayvinay1926@gmail.com

USN *

1BY22ME428

Name *

VINAY KUMAR N

Branch *

MECHANICAL

Did the open course help with a new learning? *

- (●) Yes
- ( ) No

How informative did you find the open course? *

	1	2	3	4	5	
Poor	( )	( )	( )	(●)	( )	Excellent

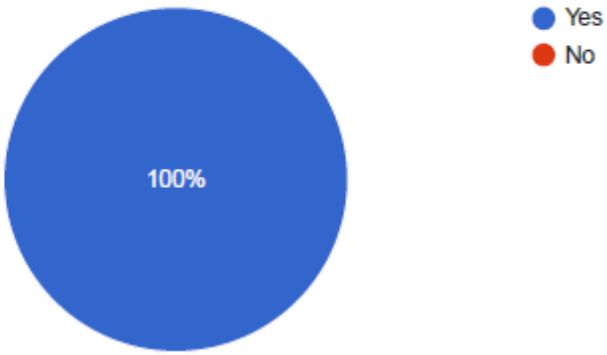
How clear were the components presented by the speakers? *

Course feedback form

Copy

Did the open course help with a new learning?

17 responses

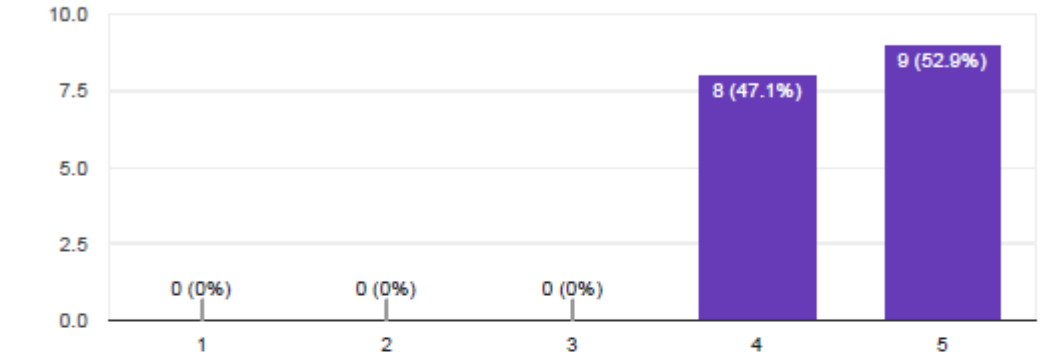


Feedback_Open Course on "Automation and Robotics" - 2023

How informative did you find the open course?

Copy

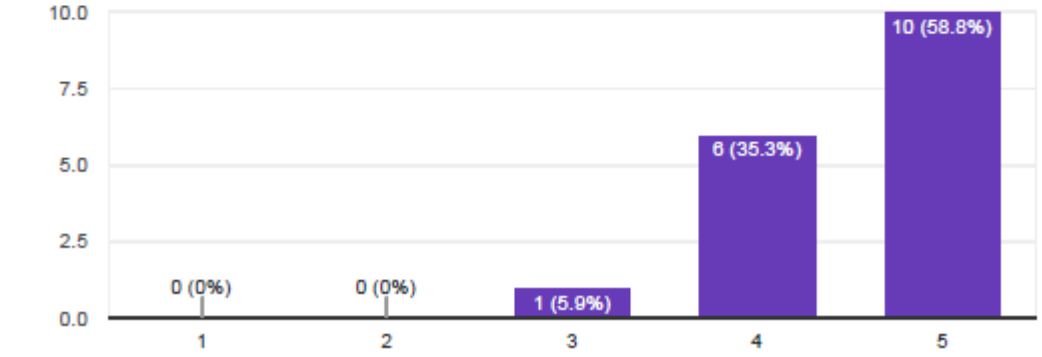
17 responses



How clear were the components presented by the speakers?

Copy

17 responses



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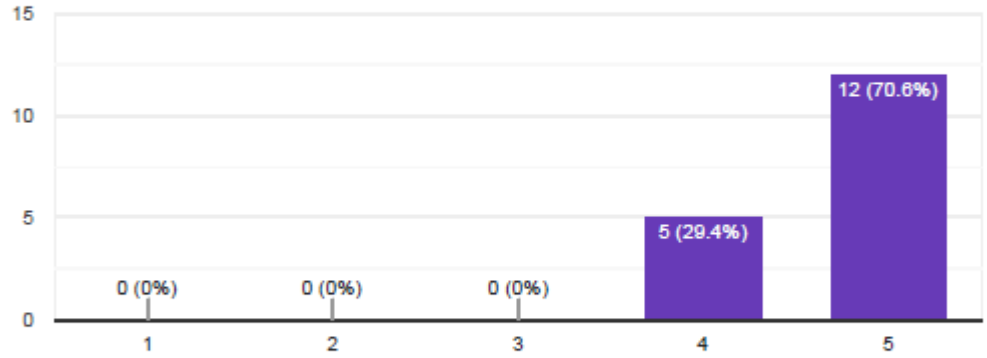
Overall how satisfied were you with this open course

17 responses



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OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

Department: BICEP		
Title of the Open Course		Innovations & Entrepreneurship Boot Camp
Targeted Students (Branches)		All Engineering Branches
Registration Fee		400
No. of students attended		60
Software/Hardware Tools used		
Delivery Methods		Offline
Assessment Methods (e.g.: Quiz, test, mini- project, report submission, etc.)		Test
Open Course Chief Coordinator Details	Name	Chennabasava C
	Mobile No.	9008007267
	Email ID	bicepmanager@bmsit.in
Internal Resource Person Details	Name	Dr. Seema Singh
	Designation	Dean IE & Professor
	Mobile Number	9740374780
	Name	Chennabasava C
	Designation	BICEP Manager
	Mobile Number	9008007267
	Name	Dr. Vinay
	Designation	Professor
	Mobile Number	9591400795
	Name	Prof. Archana
	Designation	Professor
	Mobile Number	9739912739
External Resource Person Details	Name	Mr Basavaraju
	Designation	CEO
	Company/Organization	BCS Innovations
	Mobile Number/email-id	raju@bcsinnovations.com
	Name	Mr Santhosh Bishnoi
	Designation	CoCreate
	Company/Organization	Ventures
	Mobile Number/email-id	
	Name	Mr Abhilash M
	Designation	Founder
	Company/Organization	Consuma
	Mobile Number/email-id	
	Name	Mr Anil J
	Designation	Founder
	Company/Organization	Assert
	Mobile Number/email-id	

OPEN COURSE REPORT (2022-2023)

June 12-16, 2023

External Resource Person Details	Name	Mr Akhil
	Designation	Chartered Accountant and Founder Director
	Company/Organization	AV Advisors
	Mobile Number/email-id	98361 09696 / akhil.kedia31@gmail.com
	Name	Mr Srikanth
	Designation	Fouder,
	Company/Organization	RAY VECTOR
	Mobile Number/email-id	payal@rayvector.com
	Name	Mr Mohan
	Designation	WorkCEO,
	Company/Organization	AQMENZ Automation
	Mobile Number/email-id	ceo@indoskill.in
	Name	Mr A H Sagar
	Designation	International Educationalist
	Company/Organization	Freelancer
	Mobile Number/email-id	9535441771

Curriculum Gaps: (Please indicate the gaps in terms of POs/PSOs)		
Abstract (Details of the Open Course)	This open course provides an exposure on various stages of a start-up, beginning from ideation to commercialization. This course is intended to motivate young student entrepreneurs to pursue their ideas, incubate, evaluate market sizes and work towards entrepreneurial journey. Many start-ups fail by not validating their ideas early on with real-life customers and hence require an incubation support. This course offers sessions on ideation, incubation, business model development, general management and entrepreneurial skills	
Open Course Outcomes	**CO-1**	**Identify the current Technological trends in the respective discipline and in the Industry.**
	CO-2	**Expertize in a particular domain by engaging in hands–on practices in using modern tool/Technology/Techniques.**
	CO-3	**Explore the opportunities in the current field/domain/area relevant to the industry.**

CO-PO Mapping for open course of

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												3
CO2				3	3			3	3			
CO3	3											3
Avg	**3**			**3**	**3**			**3**	**3**			**3**

CO-PO Mapping Attained

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attained values	3		3	3			3	0				3

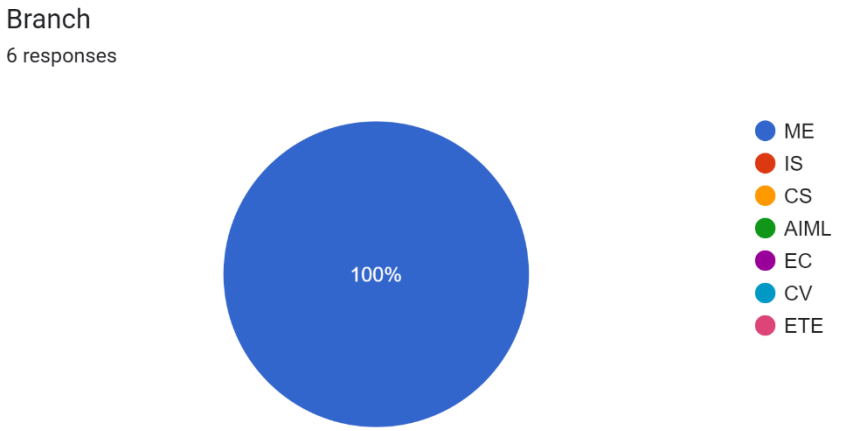
Feedback from external expert:

1. External Speaker appreciated the participants for being interactive

Feedback (critical) from students:

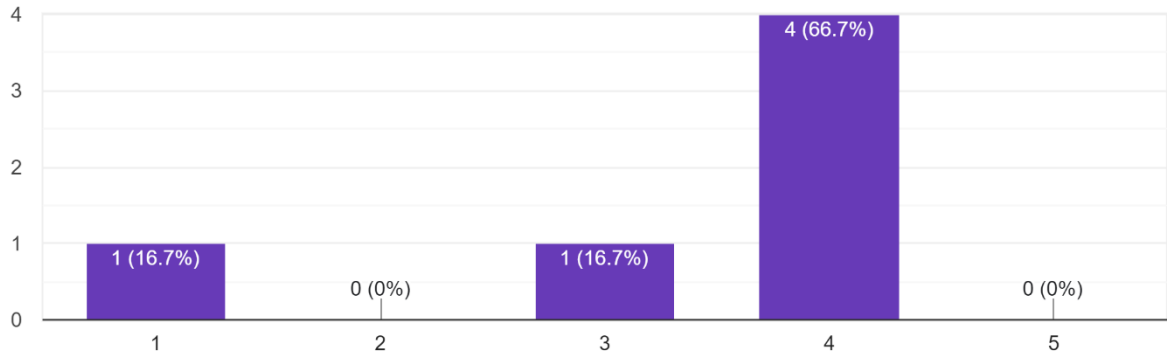
1. Need more Event based concepts
2. Looking forwarded to engage new startup Projects

Sample course feedback form



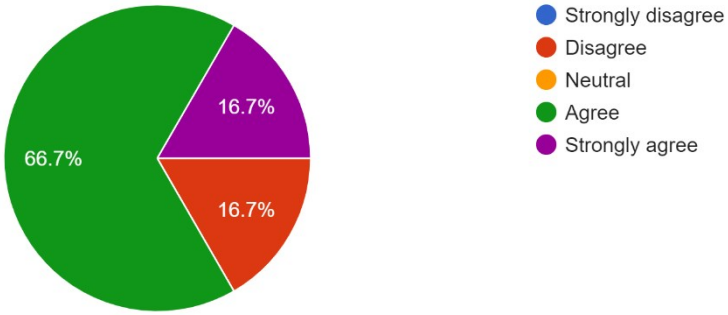
How did you rate content of day 1 course develop you professionally?

6 responses



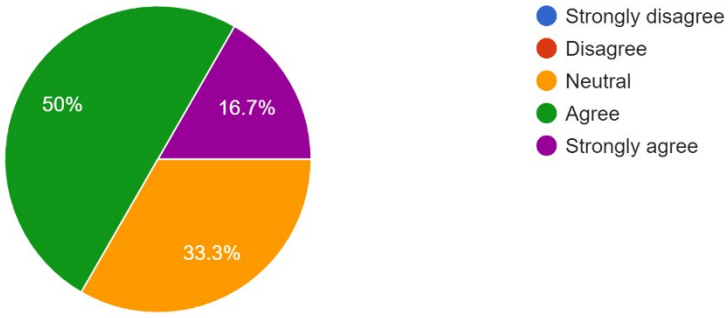
The course met your expectations

6 responses



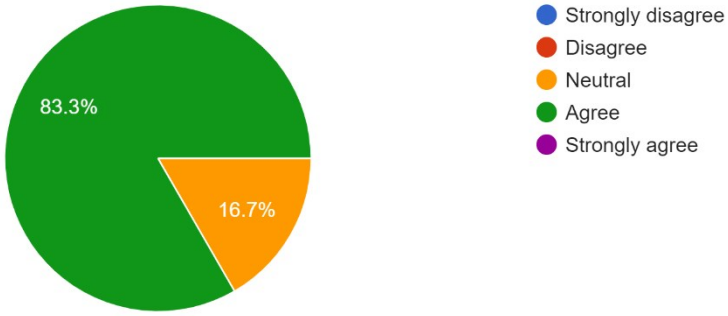
The course met your needs

6 responses



The topics covered day 1 were relevant to the course

6 responses

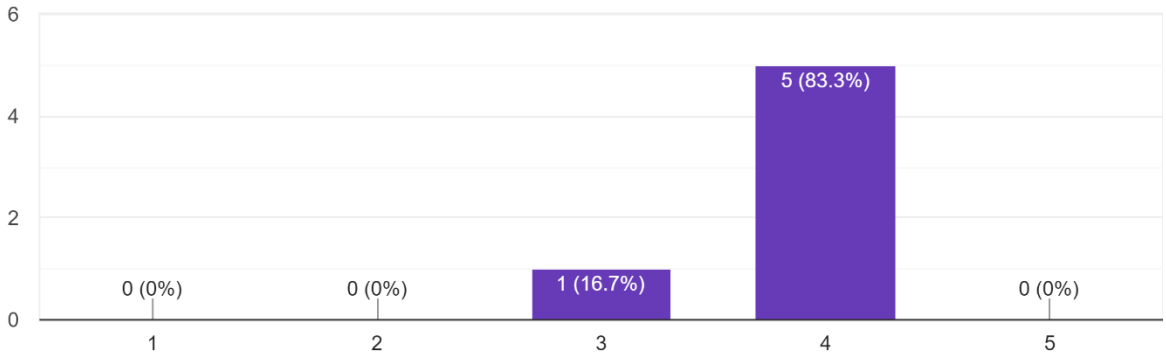


The day 1 instructions were clear

6 responses

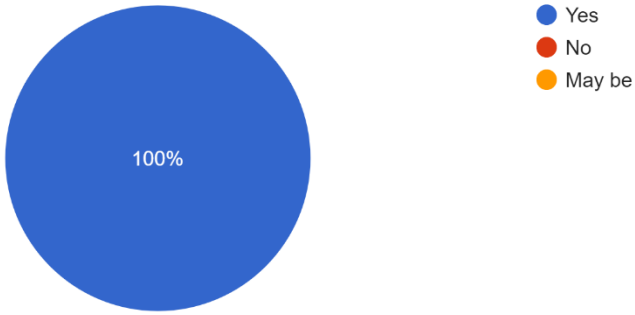
Rate your overall experience of the day 1

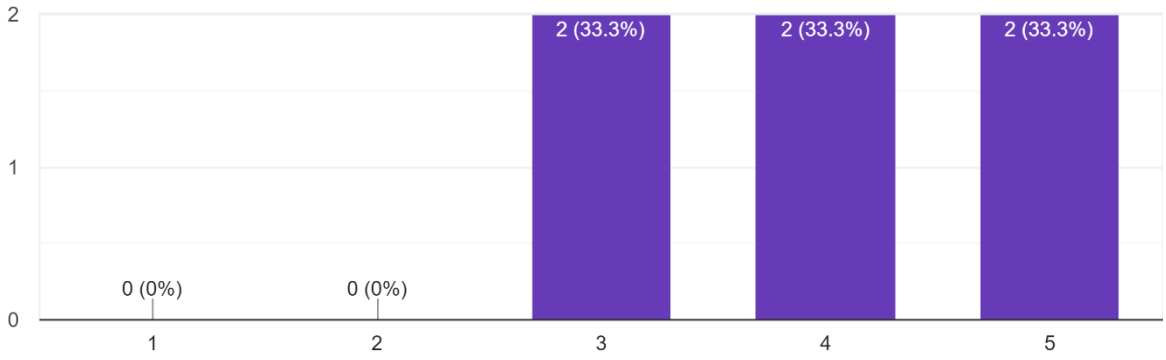
6 responses



Sessions are starts and ends on time

6 responses



How do you rate coordinator interaction

6 responses