



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapura Main Road, Bengaluru – 560064

Department of Electronics and Telecommunication Engineering

OPEN COURSE REPORT

Date: 22-10-2019

DAY 1

Department	ELECTRONICS & TELECOMMUNICATION ENGINEERING
Name of the Open Course1	Problem Solving using C/C++ Programming with Hands on session
Coordinators	Mr.Raghunandan G.H&Mrs. Prathiba.N
Total No. of Students	49

DESCRIPTION

Department of Telecommunication Engineering, Under IETE Students forum had conducted open course on **Problem Solving using C/C++ Programming with Hands on session** from 22nd to 26th October 2019 at B M S Institute of Technology & Management.

DAY 1

Morning Session

The sessions both morning and afternoon was completely handled by the external resource person **Mrs.Ragini, Corporate Trainer, Innovations Unlimited**. Around 44 students took part in this course. She gave a brief introduction on the topic “An industry Perspective of practical technical knowledge” and continued with the other topics like “How much C do you know ?” with hands on session. It was very interesting for the students .

Afternoon Session

The afternoon sessions was followed by the topics like “Snippets and Output Prediction “with hands on and “A new View of Object Oriented Programming and C++” with hands on where the students gained knowledge on programming skills effectively.



Session by Mrs.Ragini, Corporate Trainer, Innovations Unlimited



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Participants

Name of the Open Course 2	Electronic Fundamentals for Placements with Hands-On Session
Coordinators	Mr.Raghunandan G.H & Mrs. Prathiba.N
Total No. of Students	24

DESCRIPTION

Department of Telecommunication Engineering, Under IETE Students forum had conducted open course on **Electronic Fundamentals for Placements with Hands on session** from 22nd to 26th October 2019 at B M S Institute of Technology & Management.

Day 1

Morning Session

The first half of the session was handled by Prof.C.Murali , Former Vice president of IETE(Institute of Electronic and Telecommunication Engineers) ,New Delhi. The session was on Overview of Electronics as applied to industries .Role of electronics sectors in various fields which include- mobile devices,televisions, etc. Industries within electronics that included telecommunications, equipment, electronic components, industrial electronics, and consumer electronics were discussed. Importance of IOT and how automation takes place over 2030 and above, Concepts of 4g ,5g were also discussed which was very interesting to the students.

The second half of the session was handled by Prof. Raghunandan G.H, Assistant Professor, Dept. Of ETE, BMSIT&M dealing with topics concerning the concepts of analog electronics and how to tackle the technical questions in analog electronics while being interviewed by core companies for placements .Students were curious to know this and showed their interest.



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Session by Prof. C Murali, Former Vice President IETE



Session on Analog electronics and applications by Prof. Raghunandan G.H, Dept. of ETE



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Afternoon Session

The afternoon session was handled by Prof. Raghunandan G.H, Prof. Prathiba.N, Prof. Sowmyashree M.S & Prof. Sumathi M.S where hands-on experience in analog electronics was effectively delivered. Design of different circuits with some simple examples were taught enabling the students to practically understand the concepts of analog electronics as expected by various companies in the technical rounds.



Lab session on Analog Electronics by Prof. Raghunandan G.H, Prof.Prathiba.N, Prof. Sowmyashree M.S, & Prof.Sumathi M.S, Dept. of ETE



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Date: 23-10-2019

DAY 2

Department	ELECTRONICS & TELECOMMUNICATION ENGINEERING
Name of the Open Course1	Problem Solving using C/C++ Programming with Hands on session
Coordinators	Mr.Raghunandan G.H&Mrs. Prathiba.N
Total No. of Students	49

DESCRIPTION

DAY 2

Morning Session

The first half of the session began with the topic “Data structures using C/C++” handled by the external resource person **Mr.Prashanth ,Director,Knobly Consultants,Bengaluru.** He gave a brief introduction on this topic and continued with hands on session. The students gained knowledge in this topic.



Mr.Prashanth Director,Knobly Consultants,Bengaluru with Coordinators



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Session on Data structures using C/C++ by Mr.Prashanth

The next session was handled by Ms. Deepa , Dept.of EEE ,BMSIT&M. She covered the topic on C++ and OOPS concepts.





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Afternoon Session

The afternoon sessions were continued by Ms.Deepa with the topics C++ and Object Oriented Programming for Hackatons and Placements with hands on where the students gained knowledge on programming skills effectively.



Session by Ms.Deepa, Dept. of EEE, BMSIT&M

Name of the **Open Course 2**

Electronic Fundamentals for Placements with Hands-On Session

Coordinators

Mr.Raghunandan G.H & Mrs. Prathiba.N

Total No. of Students

24

DESCRIPTION

Day 2

Morning Session

The session was handled by Prof.Saritha I.G,Prof.Sumathi M.S & Prof.Prathiba.N, Dept.of ETE,BMSIT&M. The session was on Microcontroller 8051.The concepts included introduction, architecture, addressing modes, instruction set and programming skills with hands on session. It also covered mock questions related to placements technical round which was very interesting to the students.



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Hands on Session on Microcontroller by Prof.Saritha I.G, Prof.Sumathi and Prof.Prathiba.N



Group photo of the session on Microcontroller

Afternoon Session

The afternoon session was handled by Prof. Siddiq Iqbal & Prof. Sowmyashree M.S. They briefed on Evolution of Microprocessors, Difference between 8085 and 8086 Microprocessor, Architecture of 8086, Interrupts in 8086 with Hands on to understand stack operations. Students showed great interest and gained knowledge in this programming skill. Expected questions for placements for technical rounds were also covered here.



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Session on Microprocessor by Prof.Siddiq Iqbal and Prof.Sowmyashree M.S



Hands on session on Microprocessors by Prof. Siddiq Iqbal, and Prof. Sowmyashree M.S, Dept. of ETE



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Date: 24-10-2019

DAY 3

Department	ELECTRONICS & TELECOMMUNICATION ENGINEERING
Name of the Open Course1	Problem Solving using C/C++ Programming with Hands on session
Coordinators	Mr.Raghunandan G.H&Mrs. Prathiba.N
Total No. of Students	49

DESCRIPTION

DAY 3

Morning Session

The session began was handled by Prof.Raghunandan, along with the VISION team of BMSIT&M.He gave a brief introduction on Algorithms and Programming Skills using C/C++ and also on Sorting, searching, time complexity continued with hands on session. The students gained knowledge in this topic.



Session by Prof.Raghunandan, along with the VISION team

Afternoon Session

The afternoon sessions were continued by Prof.Raghunandan, along with the VISION team with the topics on String Handling, Placement and Hackaton related questions with Hands on and Placements related programming Skills with hands on where the students gained knowledge of programming skills effectively.



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Session by Prof.Raghunandan, along with the VISION team

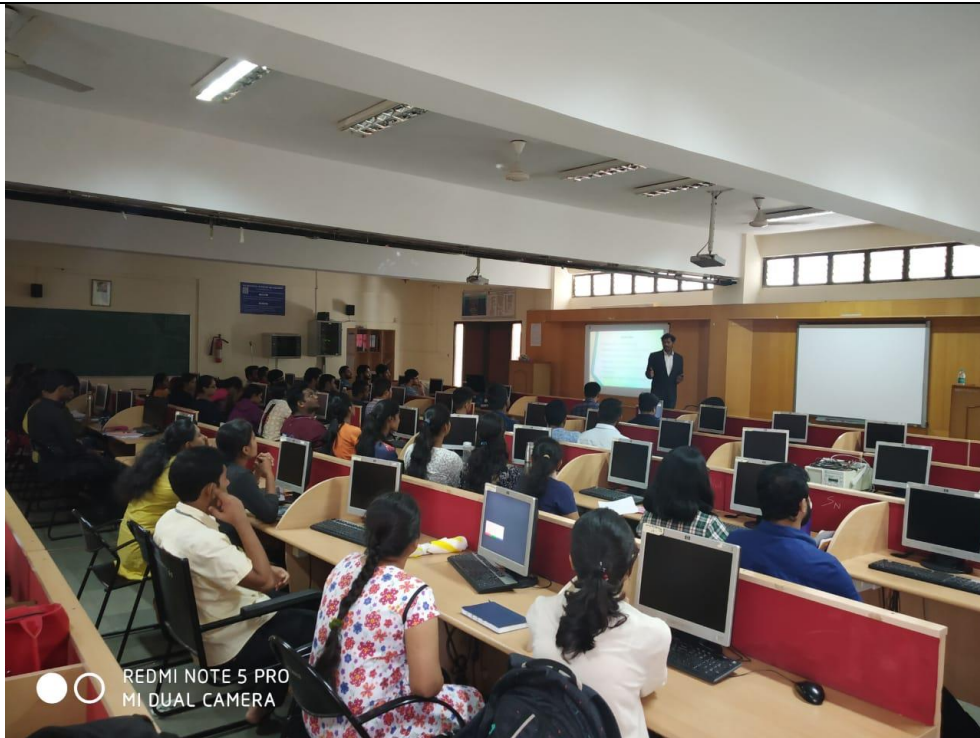
Name of the Open Course 2	Electronic Fundamentals for Placements with Hands-On Session
Coordinators	Mr.Raghunandan G.H & Mrs. Prathiba.N
Total No. of Students	24
DESCRIPTION	
Day 3	
Morning Session	
The session was handled by Mr.Pramodh Srinivas,Senior Engineer-Product Design,Applied Materials,Bengaluru. The session was on Essentials of Electronics in Product Design.This was also Industry oriented.The students gained knowledge in this area and also helpful for placements.	



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Session on Essentials of Electronics in Product Design by Mr.Pramodh Srinivas,Senior Engineer-Product Design,Applied Materials,Bengaluru.

The next session was handled by Dr.Seema Singh ,Prof. & HOD,Dept.of ETE.She gave an overview on the concepts of Digital system design as how to get prepared for technical round in interview.These covered the topics like Tricky/aptitude based questions on gates/multiplexers/decoders. Core fundamentals of combinational and sequential digital electronics and its applications.



Session on Digital System Design by Dr.Seema,Prof & HOD,Dept. of ETE



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Afternoon Session

The first half of afternoon session was continued by Dr.Seema Singh with the topics on Artificial neural networks and its applications. These included the concepts on conventional computing versus neural computing, similarity of human learning and ANN, introduction to architectures and algorithms of ANN, methods of neural learning and applications.



Session on Artificial Neural Networks by Dr.Seema, Prof & HOD, Dept. of ETE

The other half session was handled by Prof.Thejaswini with the topics like basics of MATLAB, introduction to Bio-signals, signal analysis of 1-D signals with hands on session using MATLAB.



Group photo of session DSP applications using MATLAB by Prof.Thejaswini.S, Dept. of ETE



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Date: 25-10-2019

DAY 4

Department	ELECTRONICS & TELECOMMUNICATION ENGINEERING
Name of the Open Course1	Problem Solving using C/C++ Programming with Hands on session
Coordinators	Mr.Raghunandan G.H&Mrs. Prathiba.N
Total No. of Students	49

DESCRIPTION

DAY 4

Morning Session

The session began and was handled by Mr. Satish Kumar, Senior Software Engineer, ACI Worldwide. He gave a brief introduction of Database Management and the topics covered related to this were Future of Data, SQL Server 2019 Big Data Cluster with hands on session.

The students gained knowledge in this topic.



Mr. Satish Kumar, Senior Software Engineer, ACI Worldwide



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Session by Mr.Satish Kumar,Senior Software Engineer,ACI Worldwide

Afternoon Session

The afternoon sessions were also continued by Mr.Satish Kumar, with the topics on SQL Training demo with hands on where the students gained knowledge on programming skills effectively.

Name of the Open Course 2	Electronic Fundamentals for Placements with Hands-On Session
Coordinators	Mr.Raghunandan G.H & Mrs. Prathiba.N
Total No. of Students	24

DESCRIPTION

Day 4

Morning Session

The session was handled by Dr.Raju Hajare, Dept. of ETE.. The topic covered Analog IC based circuit designs, analysis and applications like Op-amps ,555 timer IC and applications like ADC and DAC's.The students gained knowledge in this area and also helpful for placements.

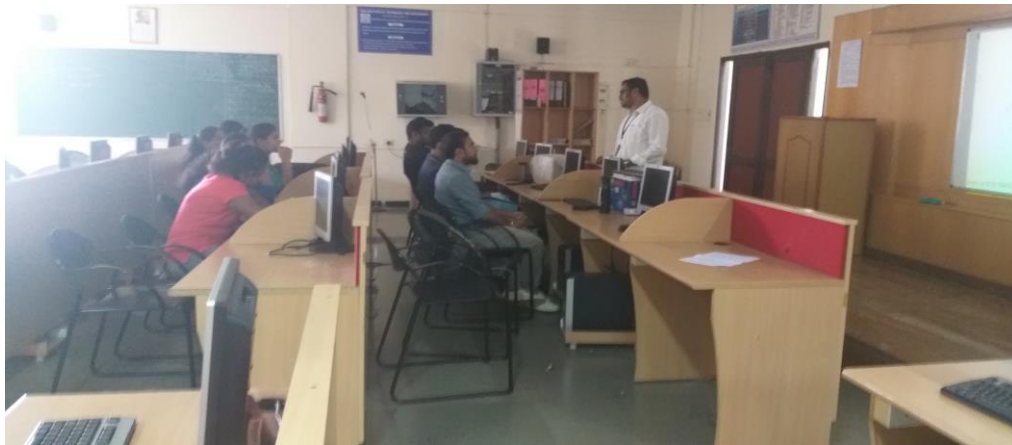


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Session on Analog IC's, design, analysis and applications by Dr. Raju Hajare.

The next session was handled by Prof. Mallikarjuna Gowda C.P., Dept. of ETE. The concepts covered the overview of communication circuits and its applications.



Session on Communication circuits by Prof. Mallikarjuna Gowda C.P

Afternoon Session

The afternoon session was handled by Prof. Ganapathy Hebbar, visiting professor, Dept. of ETE with the topics on basics of mobile communication.



Session on Mobile communication by Prof. Ganapathy Hebbar



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Date: 26-10-2019

DAY 5

Department	ELECTRONICS & TELECOMMUNICATION ENGINEERING
Name of the Open Course1+2	Both
Coordinators	Mr.Raghunandan G.H&Mrs. Prathiba.N
Total No. of Students	73

DESCRIPTION

DAY 5

Morning Session

The session began and was handled by Prof. Raghunandan G.H. He briefed on the importance of placements and motivated the students to actively participate in all the related activities..



Session on importance of placements by Prof.Raghunandan G.H

The next session was valedictory followed by test and feedback. Students responded that they were extremely very happy and all the sessions were good.





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Test on open courses conducted



Valedictory

Dept.Open Course Coordinators

(Mr.Raghunandan G.H & Mrs.Prathiba.N)

HOD ETE

(Dr.Seema Singh)



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1. Course Outcomes Of “Electronic Fundamentals for placements”

CO-1	Apply the fundamental knowledge to build electronic circuits using devices, IC's and logic gates.
CO-2	Analyze different analog and digital electronic circuits.
CO-3	Design simple electronic systems of analog and digital devices using any tool.
CO-4	Demonstrate the knowledge gained from electronic principles in a team.

2. Course Outcomes Of “Problem Solving through programming using C/C++”

CO-1	Analyze the difference between the top-down and bottom-up approach
CO-2	Apply the concepts of object-oriented programming in connection with C++
CO-3	Illustrate the process of data file manipulations used in DBMS
CO-4	Perform in a group and demonstrate a mini project.

POs Addressed:

PO1. Engineering knowledge, PO6. The engineer and society, PO9. Individual and team work, PO10. Communication, PO12. Life-long learning

Po Attainment:

PO1: 83.32%

PO6: 84.2%

PO9: 85.14%

PO10: 82.6%

PO12: 81.1%