



BHARAT

INSTITUTE OF ENGINEERING AND TECHNOLOGY

NAAC Accredited, NBA Accredited for UG Programmes: CSE, ECE
Approved by AICTE, New Delhi, Affiliated to JNTUH

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

In Criteria 2.3.1 Students centric methods the HEI has shown the proof for Computer Assisted learning, Interactive learning, E learning, independent learning and the Peer Team has accepted the same in the peer team report but marks awarded is less in the grade sheet. Hence HEI requests to reconsider the data provided.

Various Activity-based techniques are adopted by the faculty members are listed below:

- **Lecture method and Interactive learning:**

The faculty use chalk and board and audio visual aids in teaching. Students are also encouraged to interact during the lecture hour by getting the doubts clarified on the spot.

- **Faculty using models & charts for interactive teaching.**

- **Project-based learning:**

During the period of study in the III year II semester and IV year II semester, many real time projects are given to the students and they are guided by both faculty and Industry/Research personnel. During the period of study in the 6th to 8th semester, many real time projects are given to the students and they are guided by both faculty and Industry/Research personnel.

- **Computer-assisted learning:**

The Institute has required number of computers, printers, LCD projectors, application software's and system software's. These are effectively used for teaching. The students are also encouraged to develop software's for the solution of the assignments and tutorials. Many final year projects are completed through the use of software.

- **Independent learning:**

The institute provides well stocked library which consists of bulk of books, journals, project reports and other teaching materials for the use of students and faculty. The department provides well equipped and advanced labs for improving programming skills & logical thinking. Faculty and students has got the access to NPTEL, DELNET, MIT, CSI, and ACM video lectures for effective teaching learning practices. On necessary topics Interactive lectures with Industry experts are initiated.



Principal
Bharat Institute of Engg. and Tech
Mangalpally(V), Ibrahimpatnam(M)
Ranga Reddy (Dist)-Telangana-501510



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Students are encouraged to do projects starting from first year on the basics / fundamentals of subjects. The students are encouraged to attend workshops and conferences. Students are encouraged to take up engineering projects in community service. The students are encouraged to design their own applications using the available equipment in the laboratory and software. The faculty motivates the students to participate in model making, paper presentations, software contests to nurture critical thinking and various co-curricular activities in various events organized in and outside the college. The scientific temper among students is enhanced by providing additional laboratory hours and research activities.

Students are encouraged to participate in National and International Hackathon, project competitions and workshops with hands-on experience. Students are encouraged to take up industry oriented projects. Students are encouraged to gain knowledge in interdisciplinary subjects through electives, seminars and discussions with experts.

The college encourages participating in games & sports, NSS and other social activities to enhance their team work skills, self esteem, leadership quality and personality.

- **E-Learning/ICT:**

Efforts are made to maximize the use of Modern resources and aid to improve the teaching in the class rooms. The students are also encouraged to use computer software packages for their projects. NPTEL lectures, MIT Lectures E-Journals(DELNET) Faculty utilizes online resource course material of different International and National Universities. The departments conduct paper contest, poster presentation, and technical exhibition etc. under departmental association.

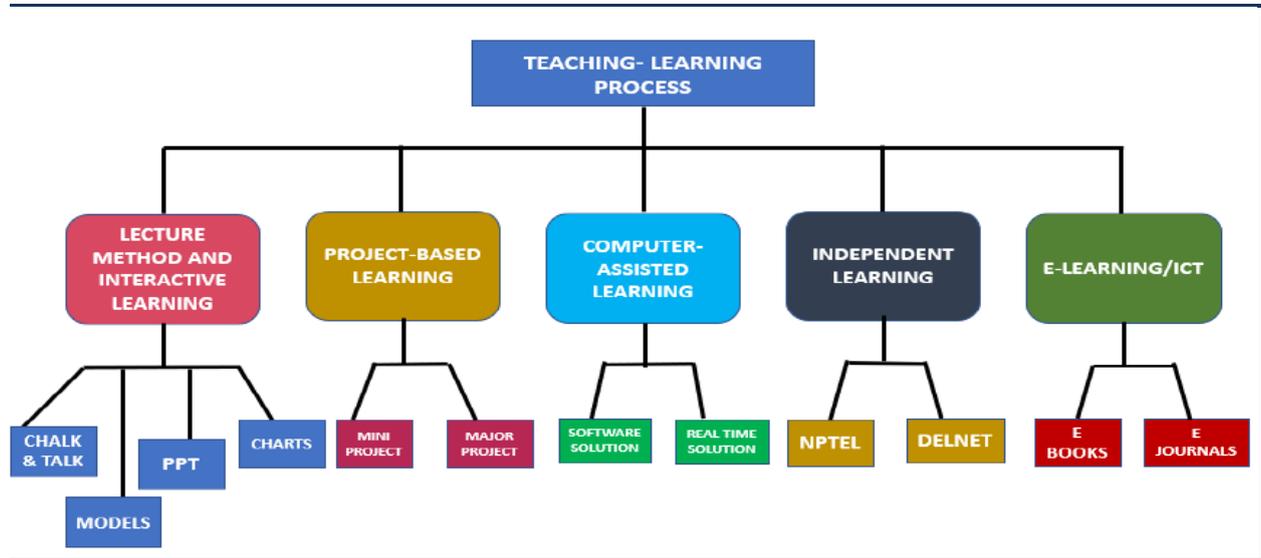
<https://biet.ac.in/cse-faculty-innovations.php>



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2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences



To improve the level of understanding in students, the following innovative teaching approaches are undertaken by the institution.

1. ICT supported learning
2. Soft skill
3. Socio constructivist perspective
4. Classroom discussions
5. Short presentations
6. Group projects
7. Mind Map
8. Z to A approach
9. Role play
10. Brown bag





1. ICT SUPPORTED LEARNING:

Faculty enrolling NPTEL online courses of their interest and appearing for Certification Exam conducted by NPTEL. Faculty motivating students under their mentorship to enroll NPTEL courses and then solving Assignments with help of concerned faculty, listening NPTEL videos and appearing for certification exam. Faculty prepares power point slides on some theoretical concepts and having complex diagrams and then presents in the respective class room.



ICT Learning



NPTEL Videos



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

BEKKARI AKSHITHA

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **52 %**

Online Assignments	21.75/25	Proctored Exam	30/75
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Prof. Anupam Basu
NPTEL Coordinator
IIT Kharagpur

Total number of candidates certified in this course: **3776**

Jan-Apr 2018
(12 week course)

Prof. Adrijit Goswami
Dean
Continuing Education, IIT Kharagpur



Indian Institute of Technology Kharagpur



NPTEL Student Certificate



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

MANNE JAHNAVI

for successfully completing the course

Blockchain and its Applications

with a consolidated score of **49 %**

Online Assignments	18.41/25	Proctored Exam	30.87/75
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Total number of candidates certified in this course: **1965**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS44S23534737

To validate and check scores: <https://nptel.ac.in/noc>

2. SOFT SKILLS WORKSHOPS

"Aricent Academy" conducted specialized training to the faculty of Engineering at BIET during June 2016 by developing state-of-the-art facilities. They conducted one week workshop on "*PRESENTATION SKILLS*" which was attended by our faculty. The faculty has been using the workshop techniques in the class room to improve qualification of students.

BIET Management organizes *Student Development Program on "PERSONALITY DEVELOPMENT AND SOFT SKILLS"* every academic year beginning for all students at Rama Krishna Math, Hyderabad in association with Vivekananda Institute of Human Excellence.





3. SOCIO CONSTRUCTIVIST PERSPECTIVE

Social constructivist perspectives focus on the interdependence of students in the co-construction of knowledge.

IDEA: To play a video related to a topic and make students answer a few questions related to it.

IMPLEMENTATION:

Playing a video on a particular topic of handling subject

Questionnaire: (About the topic given)

OUTCOME: Better understanding of a topic by students.



4. CLASSROOM DISCUSSION

IDEA: To make students discuss a given topic.

IMPLEMENTATION:

Select topic

Students are divided into three groups.

Each group is assigned a name based on topic selected.

Students are asked to give their views on the concept.

OUTCOME:

Active participation of students. Remembering the topic for a longer time.



Class room discussion

5. SHORT PRESENTATION

IDEA: To make students give a presentation on a given topic

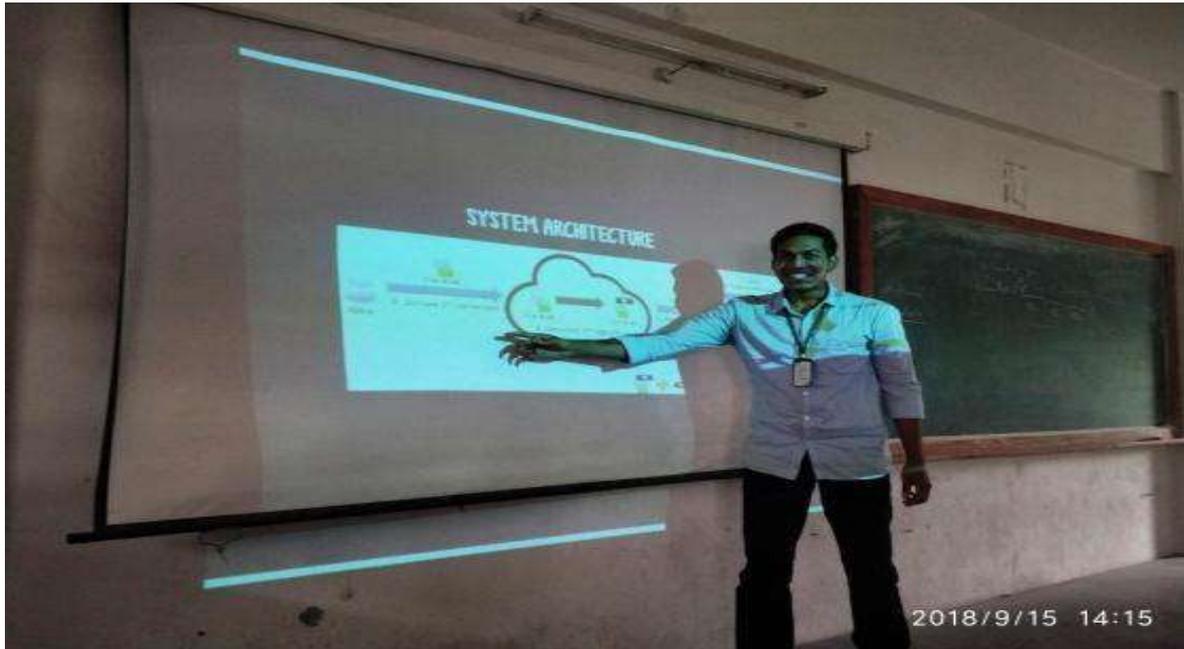
IMPLEMENTATION:

Selected 5 to 6 topics are given to some students.

They are asked to prepare and give seminars on the given topics.

OUTCOME:

Improved presentation skills of student and better analyzing of a topic.



Student's class room Seminars

6. GROUP PROJECTS

IDEA: To make students understand IEEE papers and implement a part of it.

IMPLEMENTATION: Students have implemented a few IEEE projects.

OUTCOME:

Bringing out the creative thoughts of students.



Student's Projects Exhibitions during PROJECT DAY Contest

7. MIND MAP

IDEA: Mind Maps can be used in class to brainstorm and generate discussions. This involves use of notes with keywords and images in classroom teaching.

IMPLEMENTATION: Following image is shown to students and they are asked to discuss it among themselves. **Topic name (represent diagram example related to that topic)**

OUTCOME:

This will encourage students not only to participate but also to fully understand a topic and its nuances by creating connections between ideas. This makes students remember the topic for a longer time.



Students Experiential Learning

8. Z TO A APPROACH

IDEA: Attempt to explain the application for a particular concept first and then the concept

IMPLEMENTATION:

Listing different peripherals (like keyboard, mouse, LEDs and switches) used for better operation of 8086 microprocessor. Discussion of interfacing them with 8086. Drawing the need of using 8255 for interfacing 8086 with peripherals by increasing the number of I/O ports then discuss the 8255 architecture.

OUTCOME: Creating interest among the students in knowing the topic.



Students Coding Contest

9. ROLE PLAY

IDEA: Students are given a scenario and other options to solve a particular issue, then the students are exposed to decision making in a given environment.

IMPLEMENTATION: Some students are selected randomly. Each student is assigned a particular frequency. One student is selected to act as a low pass filter with particular cut-off frequency. He is made to stand at the door of classroom. Students come one by one. The student with frequency less than cut-off frequency is only allowed to enter the classroom. The other students are blocked at door.



Students Role Play during Projects Demonstration

10. BROWN BAG APPROACH

IDEA: A bag is filled with papers having different topics of the subject written on them. Each student is asked to pick a paper of his/her choice. And they are given an opportunity to explain it.

IMPLEMENTATION: The following topics are written on paper, and kept in bag. Add topic names up to 6

OUTCOME: This allows students to experience a real time exchange of knowledge.



Students Group random topic presentations



Students Demonstration in Hackathon



Student presentation of Charts



Student Charts Preparation



**AGRICULTURE ASSISTANCE SYSTEM (MODEL)
(KRISHI SAHAYATAH PRANALEE)**





Participation of students in Smart India Hackathon Finale

E-Journals

E-Books

Articles

IRs

Contact DELNET

Dashboard

Log Out

Search All fields

Article / Journal / Book Title

Author Name

Subject

Search

Advanced

All E-Journals E-Books E-Articles IRs

(Kindly enter your query terms in the specific column)

About Knowledge Gainer

Knowledge Gainer offers anytime and everywhere intuitive access and learning environment on a wide array of subjects in Engineering & Technology, Management, Medical Science, Pharmaceutical Science, Pure Sciences, Social Sciences, Arts & Humanities for Graduate and Post Graduate students including researchers and teachers. It gives access to 1,59,51,791 of resources including E-journals, E-books, Articles, Institutional Repositories content.

Our Latest

Your Account

★ Saved Items

🔍 Saved Searches

🚪 Log Out

Students usage of DELNET