



SIDDHARTHA

College Code -TP

INSTITUTE OF ENGINEERING & TECHNOLOGY

(Accredited by NBA, Approved by AICTE & Affiliated to JNTU)
Vinobha Nagar, Ibrahimpatnam, Ranga Reddy Dist – 501 506, Telangana, INDIA.
Ph: 08414-222299, 222599, Fax: 08414-222399
E-mail: info@siddhartha.ac.in; www.siddhartha.ac.in



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

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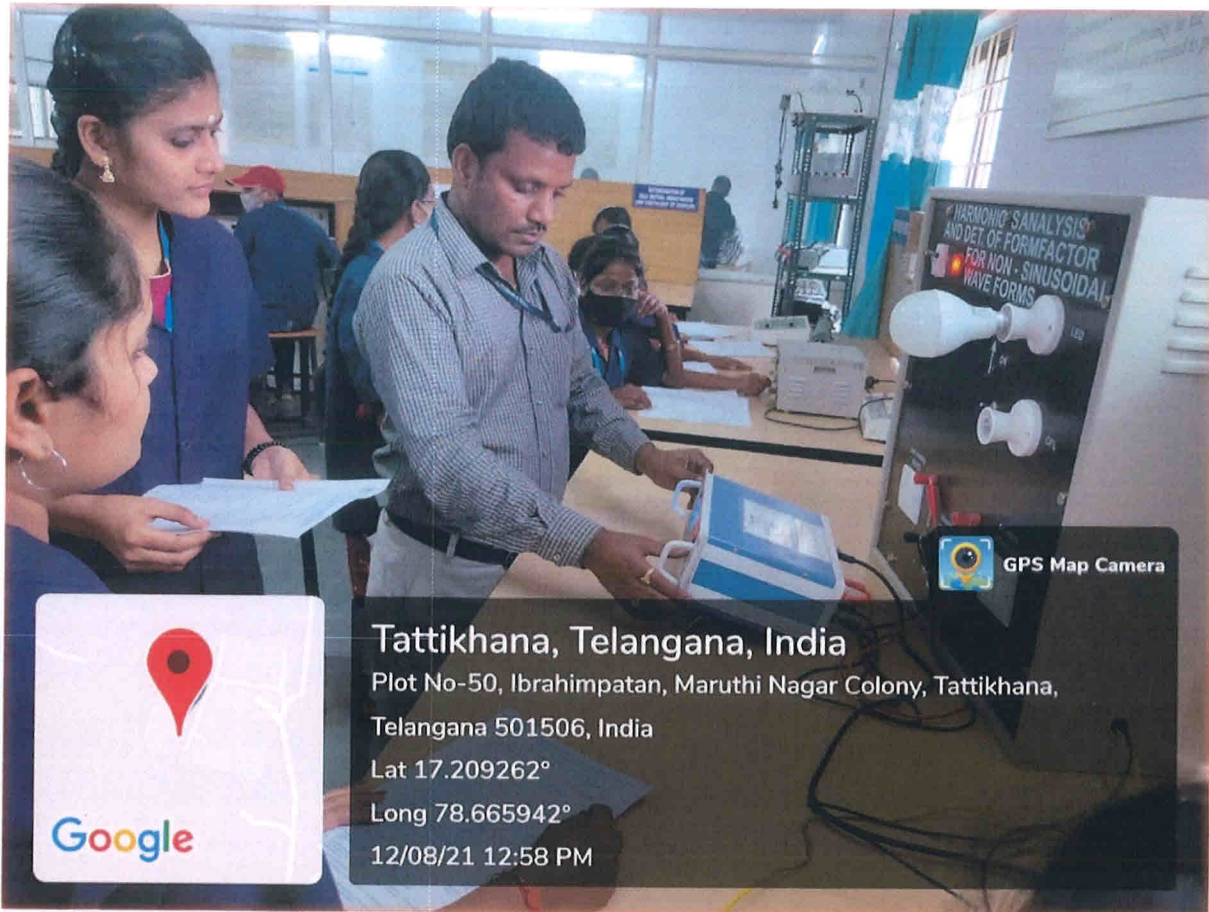
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Principal

Principal
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Ranga Reddy Dist.- 501506.

Experiential learning: The institution offers experiential learning for students with the following approaches:

1. Laboratory Sessions: Laboratory sessions are conducted for better understanding of theoretical concepts.



Students of EEE Department, II Year I Semester performing Lab Experiments in “Electrical Circuit Lab” (A.Y 20-21)

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Students of Civil Department, III Year I Semester performing Lab Experiments in “Transportation Engineering Lab” (A.Y 20-21)

Schul
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2. Internships: Internships are provided to the Students through MOUs with the industries.



Mr. Jaya Prasad, Student of Civil Department has completed internship from 22.01.20 to 25.01.20 at **Gayatri Projects Pvt. Ltd.**(A.Y.19-20).

(Signature)
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TO WHOME IT MAY CONCERN

This is to certify that **Mr. Chakali Rajesh, Reg no.20TP1E0003** has done his internship in **Obtenir Solutions Private Limited, Hyderabad** from 01/04/2021 to 21/05/21.

He has worked on a project titled in "**Analysis Of Market Segments**". During the internship he demonstrated good communication skills and ideas with self motivated to learn new things.

His performance exceeded expectations and was able to complete the project successfully on time.

We wish his all the best for his future endeavors.

Warm Regards,



Praveen Sama

HR Head
Obtenir Solutions Private Limited.

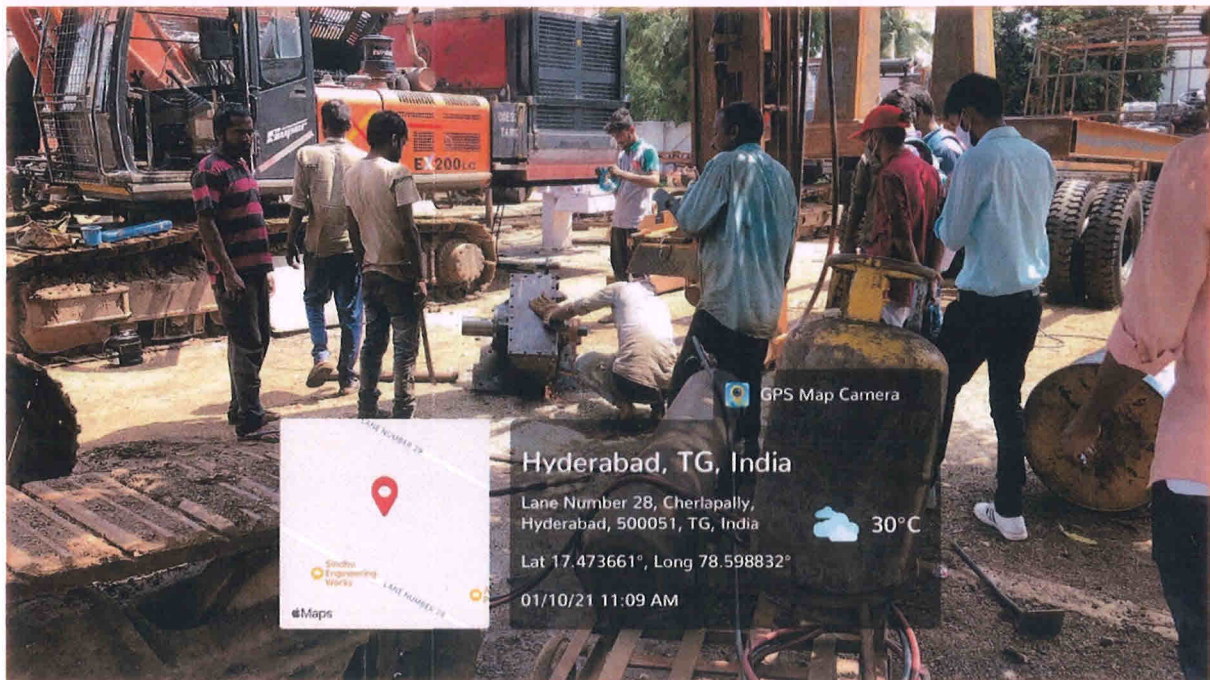
Mr. Chakali Rajesh, Student of MBA Department has completed internship from 01.04.21 to 21.05.21 at Obtenir Solutions Pvt. Ltd.(A.Y 20-21).


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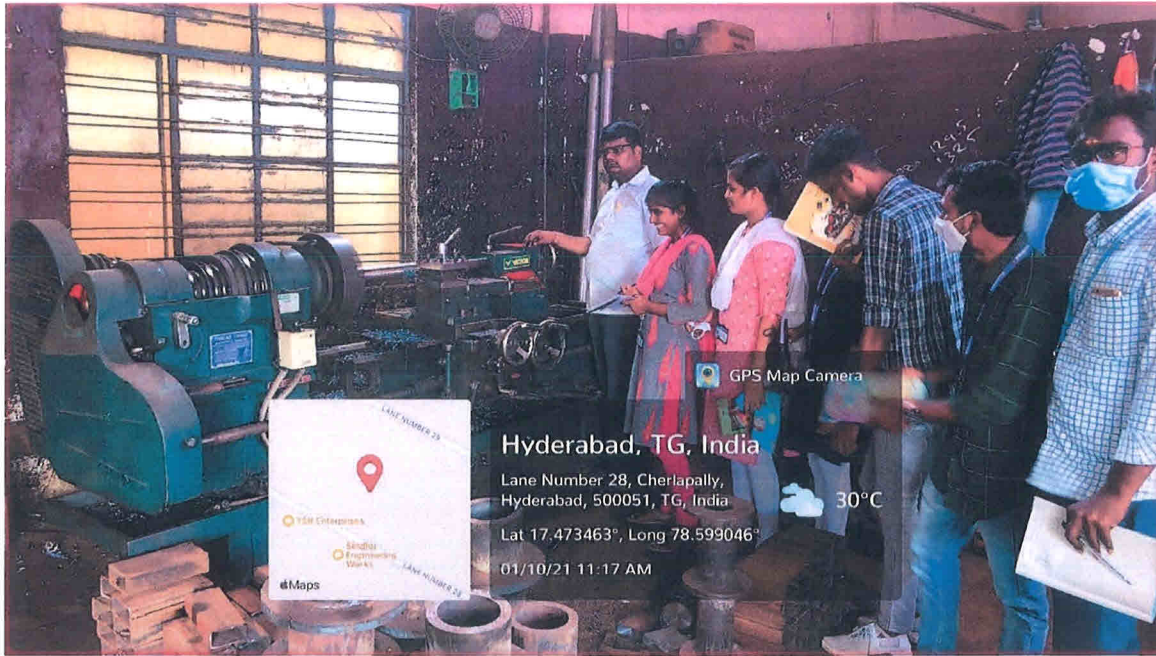
3. Industrial study visits & Field visits: Organized to expose to the current technologies and to provide an opportunity to learn practically through interaction.



Students of CSE III Year I Semester, visited Infosys Pvt. Ltd, Ghatkesar Campus on 07-02-2020(A.Y 19-20)



Students of Mechanical III Year I Semester, visited Ganesh Dig Industry Pvt. Ltd on 01-10-2021(A.Y 21-22)



Students of Mechanical III Year I Semester, visited Ganesh Dig Industry Pvt. Ltd on 01-10-2021(A.Y 21-22).

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4. Industry driven competition:

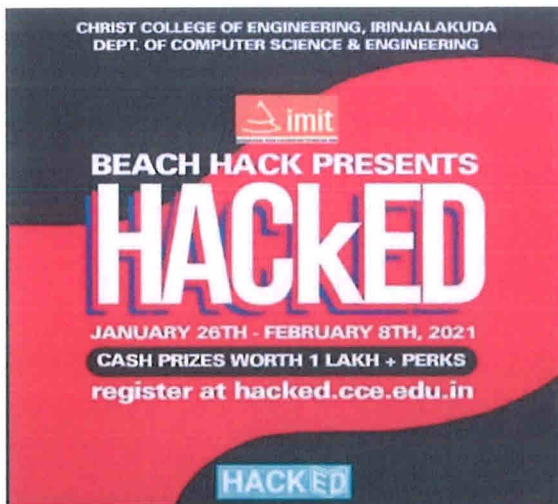
Students encouraged to participate in competitions & Hackathon conducted by reputed organizations to showcase their creative ideation and talent.

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Management, Principal & Faculty of
SIDDHARTHA INSTITUTE OF ENGINEERING & TECHNOLOGY
Congratulate IV year Mechanical Engineering students,
Mr. M. Vamshi Krishna (18TP1A0330)
Mr. Sk. Abdul (18TP1A0337)
who won 1st & 2nd Prizes and also a Cash Prize of Rs .30000/-
in the Event Pushpak - ROBOVEDA'2021
At SRINIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY ,
Ghatkesar, Hyderabad.

Students of Mechanical IV Year I Semester, participated in Pushpak-ROBOVEDA2021 at Sreenidhi Institute of Science and Technology, Ghatkesar, Hyderabad(A. Y 21-22)



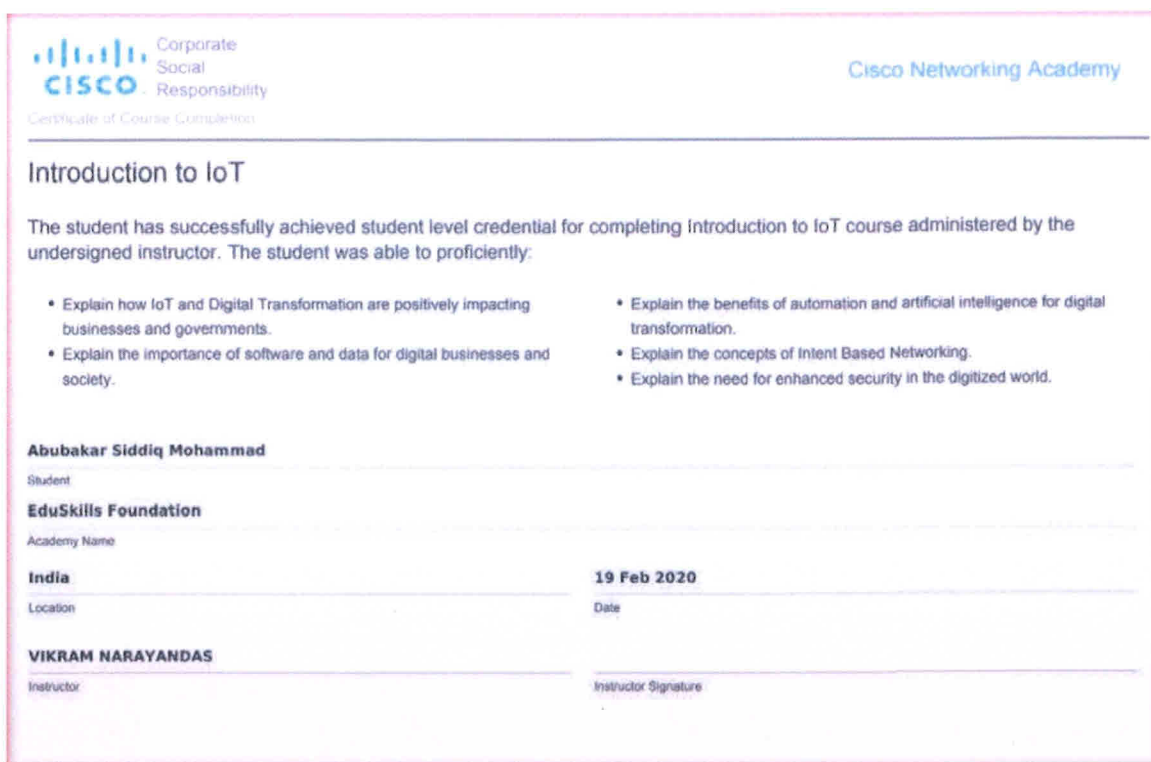
Students of CSE III Year II Semester participated in HACKED program at Christ College of Engineering , Bangalore (A.Y 20-21).



Students of CSE III Year II Semester participated and Won Award in DESIGN-ATHON Program at JNTU, Hyderabad (A.Y 19-20)

B. S. H.
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5. **Integrated tools:** Students are encouraged to enrol in online courses from CISCO, INTERNSHALA Organizations.

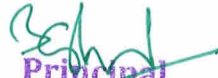


Student of CSE Mr. Abubakar Siddiq Mohammad has successfully completed a course in IoT from Cisco Systems India Pvt. Ltd.(A.Y 2019-20)

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Student of CSE IV Year I Semester, Ms. Sai Mrudula Nemani successfully completed a course in JAVA from Internshala Internship Platform.(A.Y 2020-21)


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6. **Bridge course:** Bridge courses are conducted for students for filling the gaps in academic courses.



Students of ECE II Year I Semester participated in ADD-ON Program “**Basics of Electronics**” from 05/08/2019 to 27/08/2019 delivered by **Dr. Farha Anjum**, Professor of ECE department (A.Y 19-20)


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7. **E-Learning:** The institute allowed to access text books & references, course materials, project reports, magazines, printed journals & e-journals.

Home About ▾ Committees Admissions ▾ Departments ▾ Infrastructure ▾ R & D Placements ▾ Gallery ▾ RTI Contact

Library Mandatory Disclosure Testimonials Library Circulars University Ombudsperson Faculty Details

LIBRARY

GENERAL FACILITIES

Library & Reading Room	850 sq.mt
Reading Capacity	150
No.Of Volumes	26533
No.Of Titles	4619
Online journals	2048
NPTELVideos (course lectures)	7348
Library automation	e-CAP
Memberships	IEEE/ DELNET /J-gate
Backvolumes	310
Digital Library Systems	10
Social Welfare Books	2139

LIBRARY BOOKS STATISTICS

National Journals- 72
International Journals- 05

LIBRARY TIMINGS

Working days	08:00 am to 08:00 pm
Weekends	10:00 am to 05:00 pm
Vacation days	09:00 am to 01:00 pm



UG Stock Area

Sch
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Reference Section and Reading Hall



Periodical Section


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Participative learning: The Institution focuses on students in active involvement independently and interdependently through collaborative learning methods.


8. Workshops, Guest lectures and Seminars: Students are encouraged to train on latest trends and innovative technologies by organizing workshops, guest lectures and seminars.

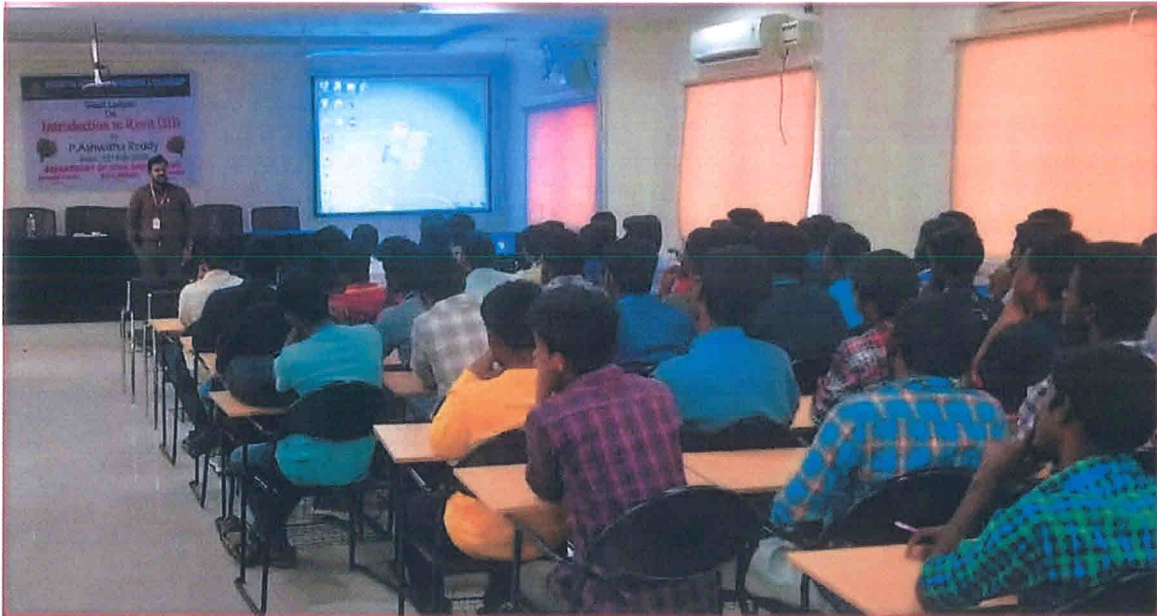


Students of Civil and Mechanical III Year II Semester, participated in 5- Day National Level Workshop on “**AUTOCAD Professional Level**” from 30/12/2019 to 4/01/2020 (A.Y 19-20)



Students of CSE III Year II Semester, participated in 3-Day hands on workshop on Network Simulator from 23-01-2020 to 25-01-2020(A.Y 2019-20)


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Students of Civil III Year I Semester and IV Year I Semester, participated in **Guest Lecture on Introduction to Revit (3D) 12th Feb-2020 (A.Y 2019-20).**


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9. Group Discussions & Debates: Encouraging students to participate in debates and discussions

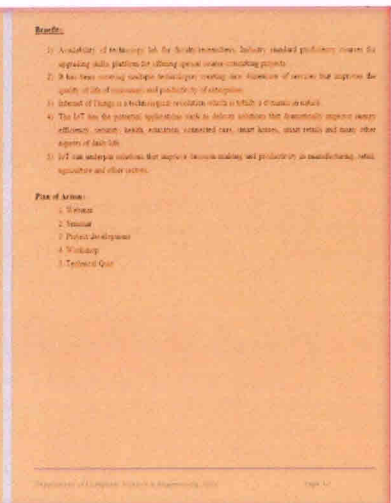
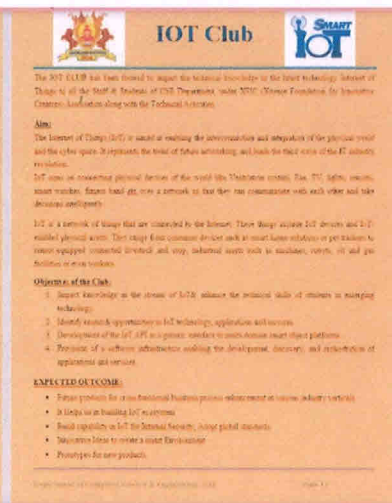
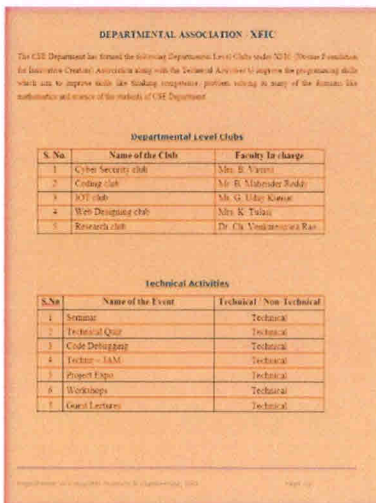
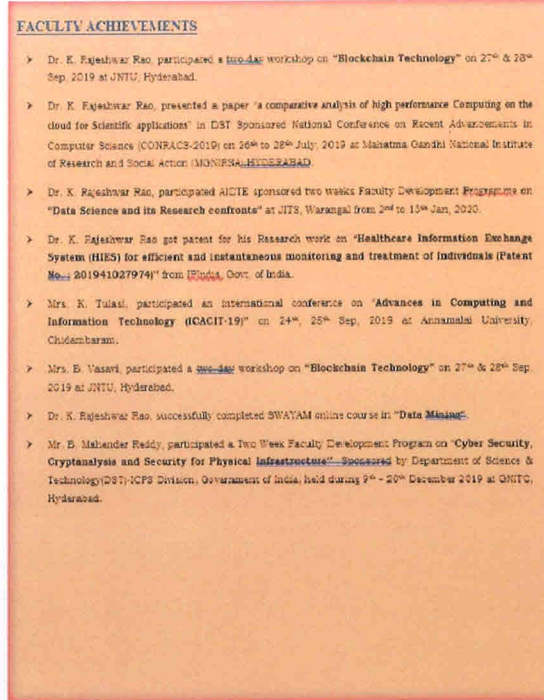


Students of MBA I Year II Semester, participated in Group discussion (A.Y2020-21)


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10. Technical Presentation:

The students are encouraged to participate in technical events to show case their presentation skill through poster, paper and model presentations and to contribute articles to the college Magazines.



CSE News Letter (A.Y. 19-20)

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EDITORIAL BOARD
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VOLUME - 5 ISSUE - 1



SIDDHARTHA
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Newsletter
 JULY-2019

SPARKS



DEPARTMENT
 OF
ELECTRICAL AND ELECTRONICS ENGINEERING

OUR RECRUITERS





SIDDHARTHA INSTITUTE OF ENGINEERING & TECHNOLOGY
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 Vinobha Nagar, Ibrahimpatnam, RR Dist - 501506
 E mail id : info@siddhartha.ac.in, eeaset@gmail.com
 Phone: 08414-222299, 222599

EEE News Letter (A.Y. 19-20)


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11. Alumni Interaction:

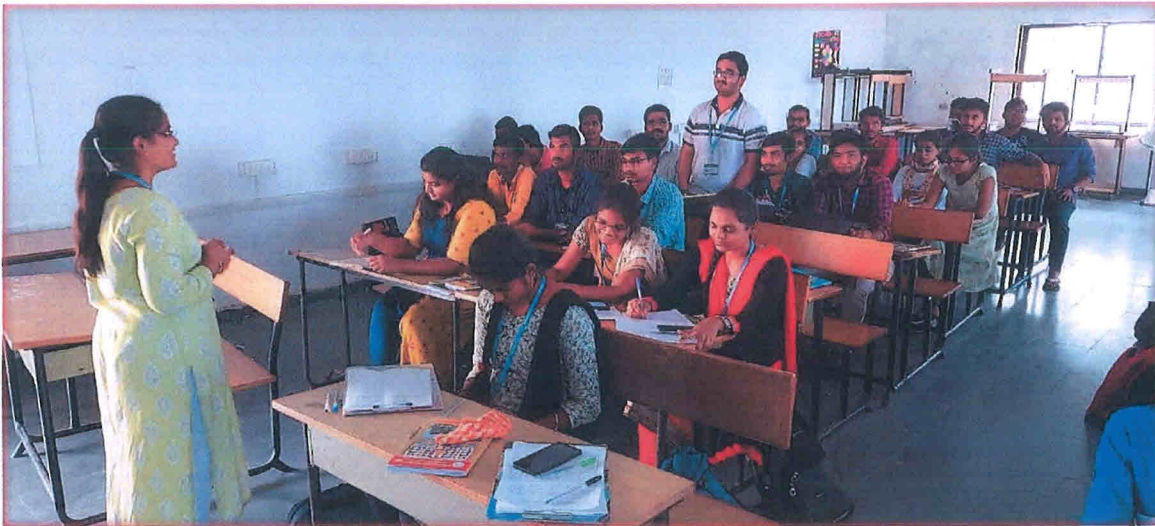
Alumni meets are organized every year to build the strong relationship between students and alumni to share their experience and knowledge towards career building.



Student of CSE Mr. Naveen sharing his experiences during the Alumni Meet-2018


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12. **Think pair-share:** Implemented in classroom to help students to come out with individual ideas, discussions and share with other groups.



Student of CSE IV Year I semester sharing ideas on Project Development (A.Y2020-21)



Student of MBA II Year I Semester, presented seminar on “Stress Management”
(A. Y 2019-20)

Rohini
Principal
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Institute of Engineering & Technology
Vinobha Nagar(V), Ibrahimpatnam(M)
Sondga Road, Dist. - 501 001

13. Technical club activities: The institution has various professional societies like IEEE, IETE, IEI, CSI, SAE, ISIE, ISO, where the students actively participate in activities.



Students of CSE II, III, IV Year, participated in 2-Day Workshop On “Goal Setting & Career Building” in Collaboration with CSI Society. (A.Y 19-20)



Department of EEE, conducted FDP On “Effective Teaching Methodology “in collaboration with ISTE.(A.Y 19-20)

14. Hands-on training programs: In every year, the students will undergo the training activities to explore in industry and advanced technologies.



Students of ECE III Year II Semester, Exhibiting Drone Applications in SIET HAKATHON (A.Y.20-21)



Students of Civil III Year II Semester, constructed sample model of Nakkala Gandhi Project. (A.Y.20-21)

15. Innovative model development



Students of Mechanical III Year II Semester, Developed Projects on Air Compressor & Tri-cycle (A.Y 18-19)


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16. Assignments & Quizzes: Used to analyse the performance and the understanding capability of each student at the end of the concept.

Assignment-II 20TP1A0494
Bhavana. 3

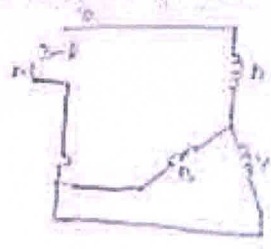
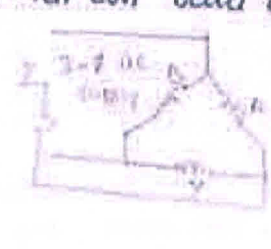
Q) How the rotating magnetic field is produced in three phase induction motor

When a 3- ϕ balanced ac voltage is applied to a balanced 3- ϕ winding, a rotating magnetic field with constant magnitude and speed is produced.

If a stationary conductor is placed in this magnetic field an emf gets induced in it, when induces a current in the circuit. When a closed path is formed for the induced current to flow an electromagnetic torque is exerted on the conductor rotates.

Generating of rotating magnetic field

In a 3- ϕ induction motor, exciting the set of stationary windings using a 3- ϕ AC supply produces a rotating magnetic field. The current flowing through windings produces its respective magnetic field (or) flux. When these three flux intersect with each other, a resultant flux with a constant magnitude is produced. This resultant magnetic field is called rotating magnetic field 3- ϕ IM with star (or) Delta connection.

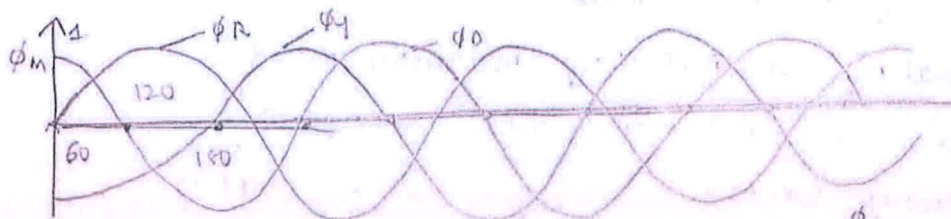
When an a.c supply excites these windings, three alternating fluxes, displaced from each other by 120° are produced. The fluxes generated in the winding are denoted by ϕ_R, ϕ_Y, ϕ_B

$$\phi_R = \phi_m \sin \theta$$

$$\phi_Y = \phi_m \sin (\theta - 120^\circ)$$

$$\phi_B = \phi_m \sin (\theta - 240^\circ)$$

Where ϕ_m is the maximum values of alternating flux generated in the each winding



From the above fig, it can be concluded that at any instant of θ , the resultant flux of Induction motor is given by the phasor addition of individual flux

$$\phi_T = \phi_R + \phi_Y + \phi_B$$

2) Why the single phase Induction motor is not self starting?

The original stator flux ϕ , produced due to the excitation of stator winding is shown in fig

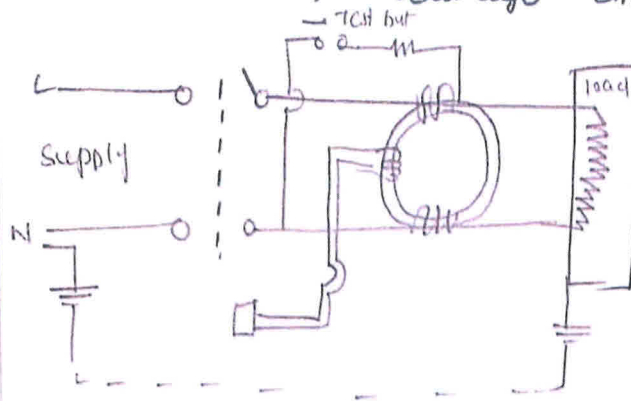
Consider two instants to prove that ϕ Im is not a self starting motor

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Current Earth leakage circuit Breaker



Currents ELCB is a current operated circuit breaker which is commonly used ELCB

Current ELCB consists of 3-winding transformer, which has 3 primary windings & secondary winding as shown in fig above. Neutral and line wires act as the two primary windings

A wire wound is the secondary winding. The current through the secondary winding is zero as the balanced

In the balanced condition, the flux due to the current through the phase wire is neutralized by the current through the neutral wire, since the current will flow to the ground also

This makes an unbalance between line & neutral currents and creates unbalanced magnetic field.



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 Vinobha nager ibrahimpatnam..R.R.DistrictHyderabad-501506
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 II B.Tech. I Sem., I Mid-Term (R18) Examinations, September - 2019

Branch & Section: CSE
 Subject: COA

Date of Exam: 14-09-2019-FN
 Session & Timings: 11:00 TO 11:30 AM

OBJECTIVE EXAM

Name: ch.pavithra Hall Ticket No. 18TJA0515

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.
 I. Choose the correct alternative

1. A CPU has 16 bit program counter. This means that the CPU can address - (C) ✓
 A) 16K memory locations B) 32K memory locations C) 64K memory locations D) 256K memory
2. in the indirect address mode (B) ✓
 A) The effective address is equal to the address part of the instruction
 B) The content of the program counter is added to address part of the instruction
 C) a memory is addressed by a register
 D) Address in the instruction points to location of the effective address.
3. The register used as a working area in CPU is (D) ✓
 A program counter B instruction register C instruction decoder D accumulator
- 4) Which of following coordinates various operations using timing signals? (A) ✓
 A) Control unit B) memory unit C) Input-Output Unit D) ALU
5. The no.of fields in Micro Instruction are (A) ✓
 A) 3 B) 5 C) 6 D) 7
6. When BR field of Micro instruction =00 it represents which of the following function (A) ✓
 A)JMP B)RET C)CALL D)MAP
7. A micro program written as string of 0's and 1's is a (B) ✓
 A) Symbolic microinstruction B) binary microinstruction
 C) symbolic microinstruction D) binary micro-program
8. For a basic computer of RAM size 4096X16 match the following (A) ✓
 1.IR a)16 bit
 2. AR b)12 bit
 3.INPR c)8 bit
 A)1-a,2-b3,-c B) 1-c,2-b,3-a C) 1-b,2-c,3-a d)1-b,2-1,3-c
9. Which of the following is an example of ONE address Instruction (D) ✓
 A) MOV R1,A B) ADD R1,A,B C)PUSH A D) ADD
10. The opcode bits represents F it is which category of instructions (C) ✓
 A) Memory reference B) Register reference C) Input output reference D) None

II FILL IN THE BLANKS

1. A group of bits that tells the computer to perform a specific operation is known as Instruction ^{code}
2. The load instruction is mostly used to designate a transfer from memory to a processor register
 Known as opcode Accumulator/LDA ^{-SERV}
3. A source program is usually in high level language.
4. A basic instruction that can be interpreted by a computer generally has Direct.
5. In Implied addressing mode operands are specified implicitly in the instruction. True.
6. Hardwired micro programmed control unit is used in RISC. True.
7. Multiplexer takes 2n inputs n selection inputs and one output True.
8. The instruction, MOV AX,[BX] is an example of Two address instructions.
9. How many ways CAR can receive the address? 6 ways
10. Fetch, decode and Effective address, Execute the instruction

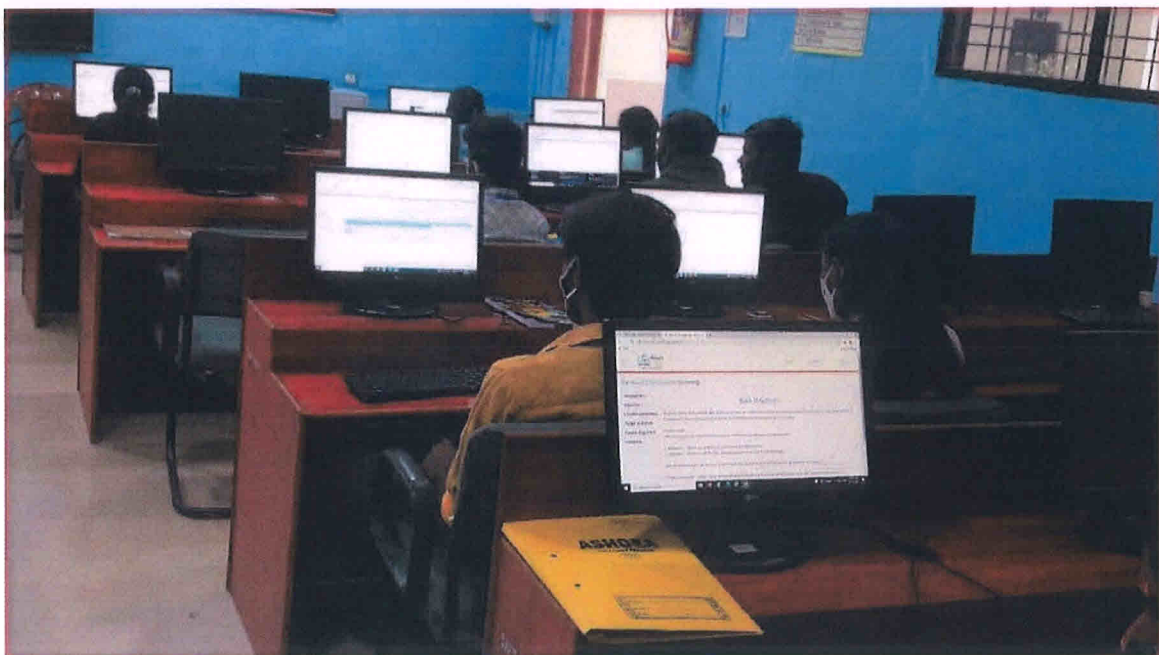
Objective Type Mid-I Answer Script for COA Subject conducted on 14-09-2019 for II Year I Semester Students (A.Y.19-20)

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17. **Virtual labs:** Used to provide remote-access to Labs in various disciplines can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.



Students of Civil II Year I Semester, are Implementing “**Fluid Mechanics**” Programmes using Virtual labs.(A.Y 2019-20)



Students of CSE II Year I Semester, are implementing “**Data Structures**” programs using Virtual labs.(2018-19)