



KASIREDDY NARAYANREDDY COLLEGE OF ENGINEERING & RESEARCH.

(Approved by AICTE & Affiliated to JNTUH)

Abdullapur (V), Abdullapurmet (M), R.R Dist, 501505, Telangana, INDIA.

Email : principal@knrcer.ac.in ; website: www.knrcer.ac.in

BEST PRACTICES

The institute's goal is to show its uniqueness to the students. To achieve this, the administration has devised few best practices

They are,

1. Induction program is made mandatory for all students to understand the need and usefulness of degree level education.
2. Students are mentored towards ethics, morals and social responsibility to live with broad understanding on the society.
3. Innovative teaching learning process.
4. Guidance to higher education in India and abroad.
5. Students are guided to do projects that help to spread the technology in to every corner of the society.
6. Students are exposed to National and International community's by advising them to participate in certain conferences through webinar's.
7. Implementation of sustainability measures.
8. Extending the facilities to the community through extension activities.
9. Stakeholders of the Institute especially students are encouraged to participate in the institute management through their memberships in various committees.
10. The Institute has been conducting faculty development programs.
11. The Internal Quality Assurance Cell (IQAC) is instrumental in enhancing and assuring the quality of teaching and learning in the Institute.
12. Implementation of internal and external academic and administrative audit.
13. Annual self-appraisal for faculty is in practice.
14. The Institute has active and vibrant Governance and Leadership policies which are pivotal for promoting and upholding the standards and quality of the Institute.



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Among the all following TWO Best Practices are considered here

Best Practice-I

1. Title of the practice: Activity-Based-Learning (ABL)

2. Objectives:

Activity based learning is an important tool in enhanced learning methods in professional Institutes. In this method the students are involving through teamwork where collaboration, communication and interaction skill play as important role in sharing construction and showing sharing of tastes. Activity based learning methods for emerging technocrats are critical while working on a project as they need with challenges and problems to succeed in the real world.

Professional education in today's highly competitive world demands constant up gradation of the skills. The objective of "Activity-Based-Learning" aims at honing the leadership skills among the students in various activities including technical activities, extra and co-curricular activities being conducted within the campus with a competitive script among different departments and it will also improve the network of technical knowledge of their batch. The students are aware of course activities. By doing this the students motivate themselves to participate in various activities among the students in various departments with facilities.

Activity based objectives are useful because they help students focus on activities that will help and guide them in learning. Students can understand easily through virtual or imaginary objects. Creating healthy environment for students to achieve their learning goal through this practice has been the hallmark of KNRR.



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3. The Context:

The institute focuses on imparting the methodology of learning through activity from the moment the students get admitted into professional course. The course commences with relating interactive communication skills.

Learning through activity is a type of learning where students learn their ideas through various activities. It includes speech, debates, seminars, model presentations, project expose, skits, field visits, ice-breaking activity, storytelling sessions and role plays.

To encourage students with skills and to expose their talents, this initiative was adopted for maximum participation of students in various activities and practices and the gradual improvement in excelling in their performance.

Learning through activity also helps the students to improve their:

- High IQ Level,
- Out Of The Box Thinking Ability,
- Leadership Skills,
- Effective Team Player,
- Strong Technical Skills

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4. The Practice:

There is a common trend that can be observed about skilled students who are self-motivated and confident, when they participate in intercollegiate competitions. However, there are some students with low confident skills who hesitate to participate in various activities such as paper presentations, seminars and conferences. The ABL exercise is analyzed using data on the participation of students in various activities and practices and the gradual improvement in their performance. The process is assessed statistics on participation in external competitions.

Responsibilities of the students are assigned as per the interest and voluntary attitude of the students in conduction various activities like advertising those activities and successfully organizing the programs within the campus that improves their strength and confidence. Students realize their full potentiality by creative thinking is enhanced among the students in bringing innovation in the conduct of events. The faculty carefully guides the students to start the process and uses an open skill set after their analysis. Group-wise evaluation of the activities is done and results are declared. The winning group is appreciated by giving a token of appreciation. By these result oriented application the student identifies him/her self own capability. So, that they work more to become expertise on the lagging activity or a subject. These activities help and motivate students to connect with themselves, with each other and with their surroundings and to learn from each other to pursue their goals. The students are trained in the skills needed in delivering efficient and appealing presentations to a variety of audiences.



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These skills cover a multiple of areas such as the structure of the presentation, the design of slides, the tone of voice and the body language used. This includes the enhancement of the following skills.

➤ Group Discussion:

The students are trained in neutralizing mother tongue impact on English, voice modulation the body language, proper way of making eye contact and other essential associated with it.

➤ Interview Facing Skills:

Mock interview sessions are taken with the help ICT tools available in the language laboratory. Students are made aware about essential substance and basics associated with it. Behavioral skills and sense are other skill areas that are enclosed in it.

➤ PPT:

In today's job market huge employability is there in service industries like banking, financial sector and so on. By training the students in PPT we could create an opening for students in these sectors as their presentation skills much needs of the industry.

5. Problems Encountered and Resources required:

The biggest challenge for affiliated institutions is to balance the academic program and these activities. Dedicated students who have creative ideas and faculty from various departments inspire, encourage and support the students in every way. For



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Activity Based Learning teachers need special infrastructure and record should be maintained. Management encouraged the practise3 to enhance the knowledge of students for industry ready with 360 degree co-operation. Special record should be maintained by the teachers to know the status of student's performance. Several activities are planned to improve the communication skills.

Following are the ABL methods which we have implemented at KNRR

S.NO	Description
1	Laboratory Sessions
2	Industry driven competition
3	E-Learning
4	Group Discussions & Debates
5	Technical Presentation
6	Alumni Interaction
7	Think pair-share
8	Technical club activities
9	Hands-on training programs
10	Innovative model development
11	Assignments & Quizzes

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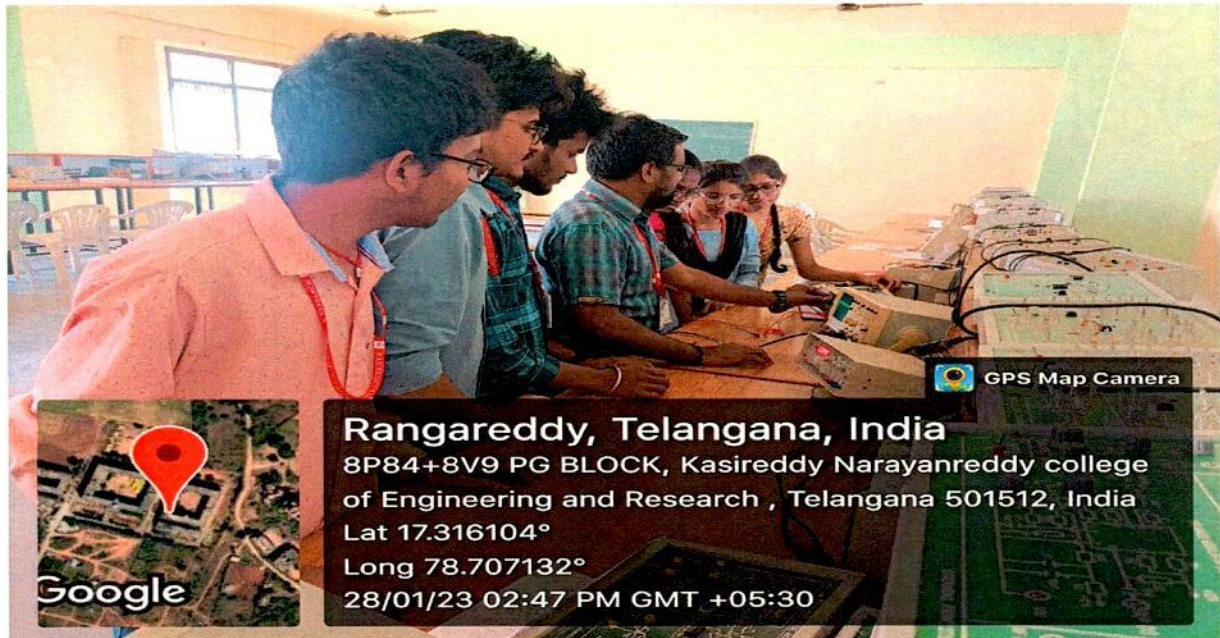
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Laboratory Sessions: Laboratory Sessions are conducted for better understanding of theoretical concepts



Industry driven competition: Students encouraged participating in competitions & Hacathons Conducted to showcase their creative ideas and talent





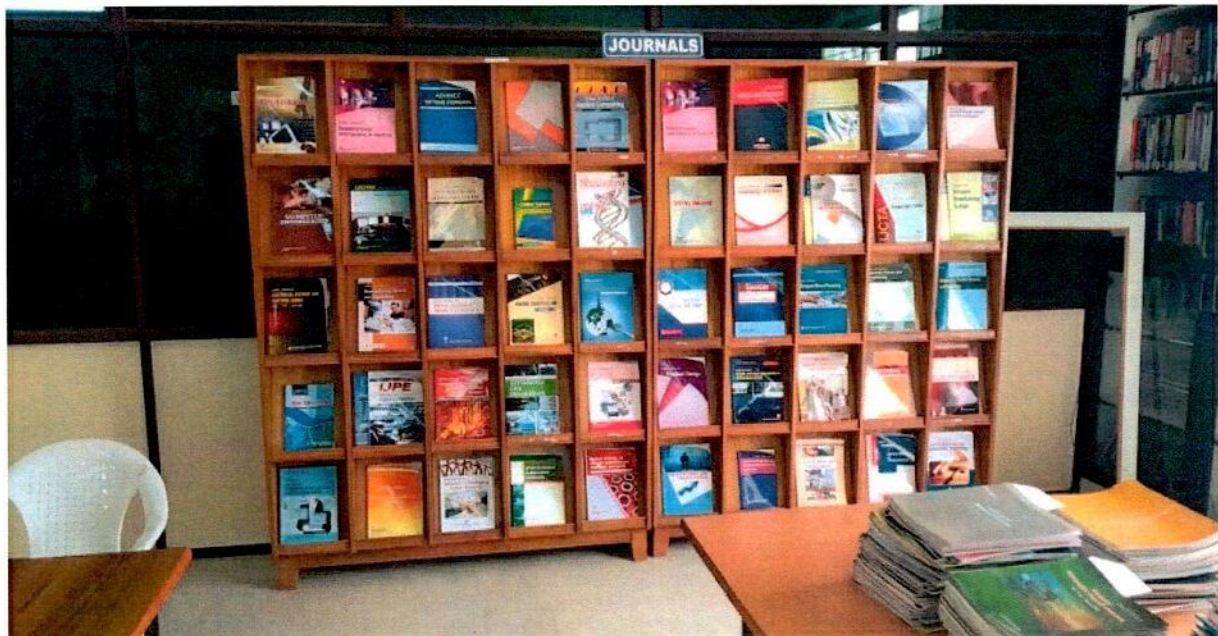
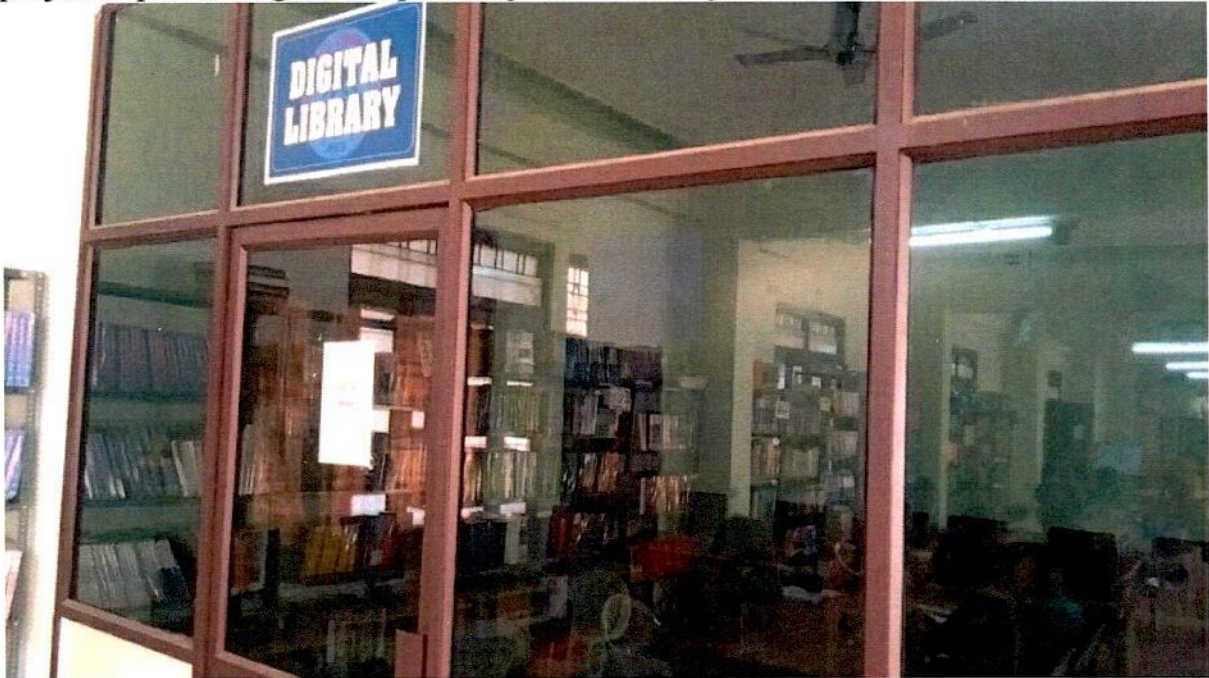
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E-Learning: Institute allowed to access text books & references, course materials, project reports, magazines, printed journals & e- journals.





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



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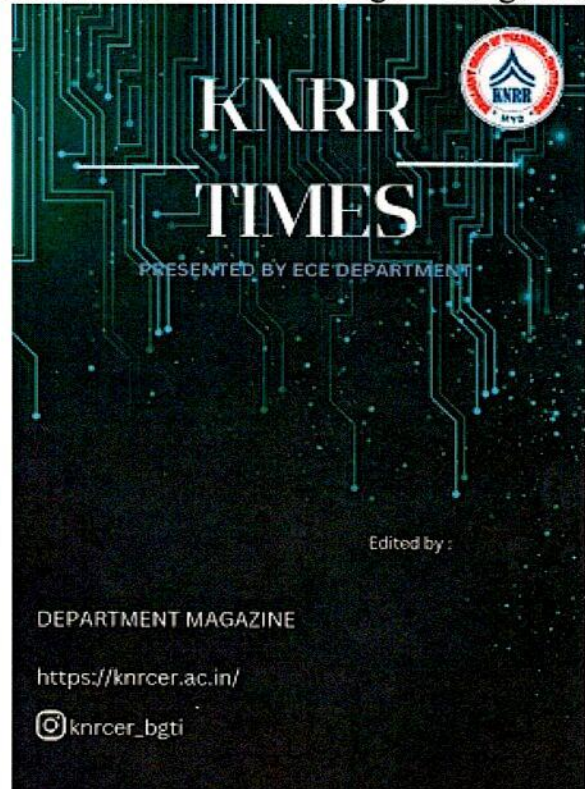
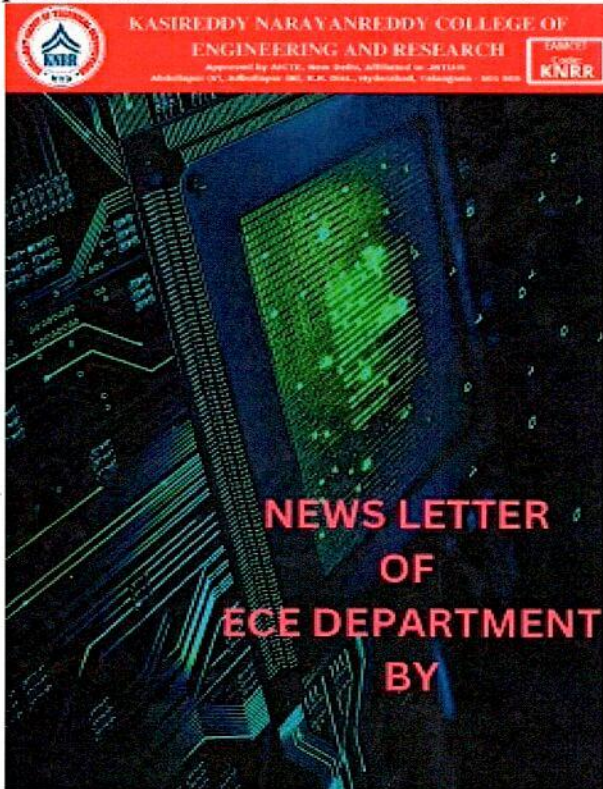
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Technical Presentations: students are encouraged to participate in technical events to show case their presentation skill through poster, paper and model presentations and to contribute articles to the college Magazine





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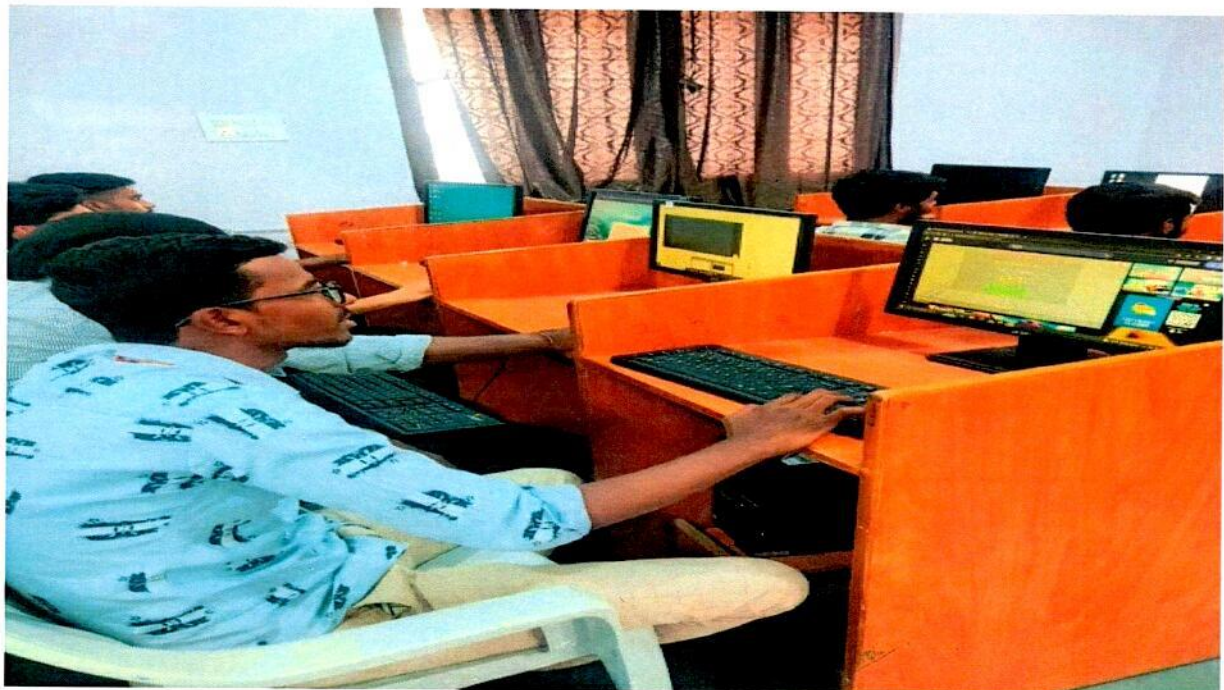
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Alumni Interaction: Alumni meets are organized every year to build the strong relationship between students and alumni to share their experience and knowledge towards career building.



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



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



FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
(24th to 28th May 2021)
Organized by
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Abdullapur (V), Abdullapurmet(M), Rangareddy (D), Hyderabad - 501 505.
In association with
NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

Preamble:
NIT, Warangal is to offer faculty development programs in standardized courses and emerging areas of Computer Science, Machine Learning and Artificial Intelligence, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the Workshop:
As part of an initiative of NIT, Warangal a Faculty Development Programme (FDP) on "Artificial intelligence and machine learning" is being conducted at Departments of CSE at Kasireddy Narayan Reddy College Of Engineering and Research to the faculty members of Engineering. MCA, Research Scholars and other allied disciplines from Telangana.

Importance of research in higher education Prof. N. V. Ramana Rao - Director, NIT Warangal: He has held several Administrative posts as Registrar, JNT University Hyderabad. He has edited three books and published 157 papers in International journals, International Conferences, National Journals, National Conferences.

Resource persons:

- Dr. Sai, Scientist at DRDO
- Dr. Manish Kumar, Scientist at DRDO
- Dr. Raju Bhukya, Assistant Professor at NIT - Warangal
- Dr. Shiva Kumar, Professor at Sonoma State University
- Chandramohan, Soft.Engineer at K4U Infotech

Major Course Contents:

- Machine learning and deep learning application
- Classification of AI on various platforms
- Advanced models of neural networks
- AI and neural networks in IoT applications -Prof. Siva Kumar
- CNN and RNN applications in Disease prediction
- Artificial Neural Networks, Back propagation, Convolution Neural Networks with practical examples
- Fundamentals of particle swarm optimization

Selection Criteria:
Selection will be done based on a first-come-first-serve basis to a maximum number of 50 (fifty). Additionally, 10 participants from the industry are allowed to participate.



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





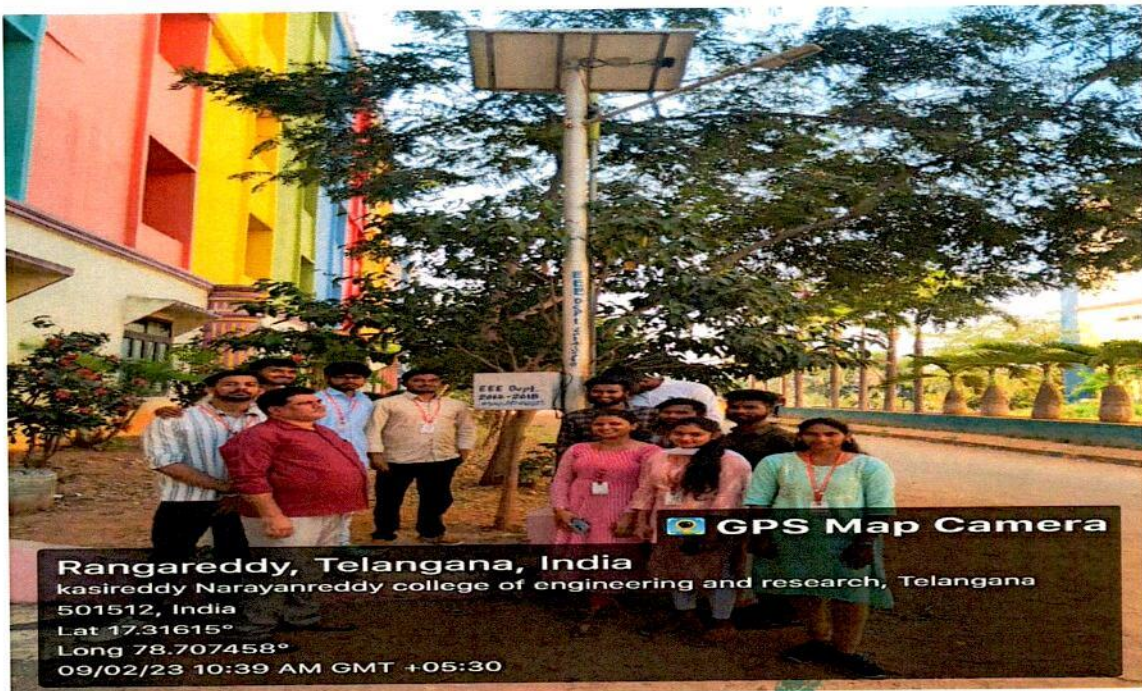
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Innovative model development: Used to analyse the performance and the understanding capability of each student at the end of the concept





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

Assignments K. Sreenija
21505A0412

1. Define the following terms.

Ans Set theory :-
A set theory is a well defined collection of objectives refer to the elements or numbers is called as set-Theory.

→ A set theory is represented as A, B, C, \dots

→ A set of elements are denoted by a, b, c, \dots

→ A set is defined as, well defined means it is possible to decide a given element belongs to the collection of group or not.

→ A statement 'x' is an element of the set A belongs that is form x belongs to A
 $x \in A$

→ A statement 'x' is an element of the set A not belongs that is form x belongs to A
 $x \notin A$

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Subject: FTSP Branch: ECE (B15) Year: III SEM
Date: 13-11-2021 Session: FN

Name: Siva K. Sreenija Hall Ticket No: 21151051A0412

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

1. Choose the correct alternative:

1. The sample space for the experiment of measurement of the output voltage V from a minimum of which use +5 and -5V respectively is
(a) $\{V: 0, V, 5\}$ (b) $\{V: \infty, V, \infty\}$ (c) $\{V: 1, V, 5\}$ (d) $\{V: -5, V, 5\}$

2. $A \cap (B \cup C)$ is expressed as
(a) $(A \cup B) \cap C$ (b) $(A \cup B) \cap (A \cup C)$ (c) $(A \cap B) \cup C$ (d) $(A \cap B) \cup (A \cap C)$

3. When two dice are throwing, the probability for the sum of the faces of the two dices to be 7 is
(a) $1/6$ (b) $1/12$ (c) $1/9$ (d) $1/3$

4. If A is a subset of B, $P(B/A)$ is
(a) $P(B)$ (b) $P(B)$ (c) $P(A \cap B)$ (d) $P(A \cup B)$

5. Let S_1 & S_2 be the sample spaces of two sub experiments. The considered sample space S is
(a) S_1/S_2 (b) $S_1 * S_2$ (c) $S_1 - S_2$ (d) $S_1 + S_2$

6. Let A be any event defined on a sample space then $P(A)$ is
(a) 0 (b) $< \infty$ (c) $> \infty$ (d) 1

7. The conditional probability of event A, given B is expressed as
(a) $P(A/B)/P(A)$ (b) $P(A \cup B)/P(A)$ (c) $P(A \cup B)/P(A)$ (d) $P(A \cup B)/P(A)$

8. For three events A_1, A_2, A_3 they are said to be independent all over axis if and only if they are independent as a triple then
 $P(A_1 \cap A_2 \cap A_3)$ is
(a) $P(A_1) P(A_2)$ (b) $P(A_1) P(A_2) P(A_3)$ (c) $P(A_2) P(A_3)$ (d) $P(A_1) P(A_3)$

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6. Evidence of Success:

Activity based learning is mainly achieved in three ways namely experimentation, expression and exploration. Expressing the views in speech debates, seminars and model presentations are the student benefited. It benefits on their intellect to become sharp and the capability of problem solving increases and it supports their language capability and literacy development. ABL motivates students to participate activities such as independent investigation, problem solving etc.



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ABL revolves the concept to solve the real life problems with encouragement of students and teachers. Healthy relationship between faculty and students results in attendance of students to college. Student's participation in various discussions and seminars improves their personal skills and presentation skills. The proof of success is that students can perform independently and demonstrate their skills without their senior advisors in their area of expertise. Also, it is evident that with this ABL our institution has succeeded in obtaining good overall result of the students

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