



## BEST PRACTICES

### Best Practice-1

#### Buddy System:

Buddy System is a one-of-a-kind event conducted by ALMATRON, the Technical Club of AIML department formed by students of the AI & ML department, where students of the second year of the AI & ML department learn about real-time projects from their seniors and are encouraged to come up with their own projects in the domains of their interest.

#### Photographs/Videos



Buddy System Brochure



Seniors mentoring juniors



Peer Learning



The coordinating team

## Best Practice-2

### Conducting Technical Competitions:

The Department conducts various technical competitions at various levels.

#### 1. MindKraft- Department level:

The technical event was held for the first and second year students of the AI & ML department. The first round of the event included a technical quiz and a word search. The second round was technical treasure hunt.

#### 2. Coding Contest – Inter department Level:

The contest comprised various situational problem statements the required participants to apply theoretical coding knowledge for practical use.

#### 3. Cypher Quest-24-hr Hackathon- Inter College level Competition:

The primary objective of the CypherQuest Hackathon was to stimulate innovation and creativity among participants. By imposing a time constraint of 24 hours, the hackathon serves as a catalyst for the attendees to think outside the box, explore unconventional ideas, and develop novel solutions to complex problems.

### Photographs/Videos



Coding contest 2k22



Cypher quest – 24hr Hackathon Inauguration



Prize distribution to the winners of Hackathon



MindKraft technical event participants and coordinators

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### Best Practice-3

#### Preplacement Activities:

The department conducts 05 rounds of preplacement activities.

1. Resume building & Placement Guidance – Placement officer addressing students
2. General Aptitude tests – Pen paper Aptitude tests of 02 rounds
3. Technical Aptitude tests - Pen paper technical tests of 02 rounds
4. One-on-One Mock Interviews- conducted by Alumni's
5. Group Discussions – conducted by Alumni's

#### Photographs/Videos



Placement officer addressing students



Group Discussions – conducted by Alumni's



One-on-One Mock Interviews- conducted by Alumni's



Aptitude tests

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## Best Practice-4

### Workshop and Project Exhibitions:

The department encourages project based learning. It has planned for workshop every semester and through that project development for all the students from 3<sup>rd</sup> to 6<sup>th</sup> sem. The projects that are developed are demonstrated in the project exhibition every year.

### Photographs/Videos



Resource persons conducting workshops




Faculty reviewing the Projects



5<sup>th</sup> sem Project Exhibition



3<sup>rd</sup> sem Project Exhibition

  
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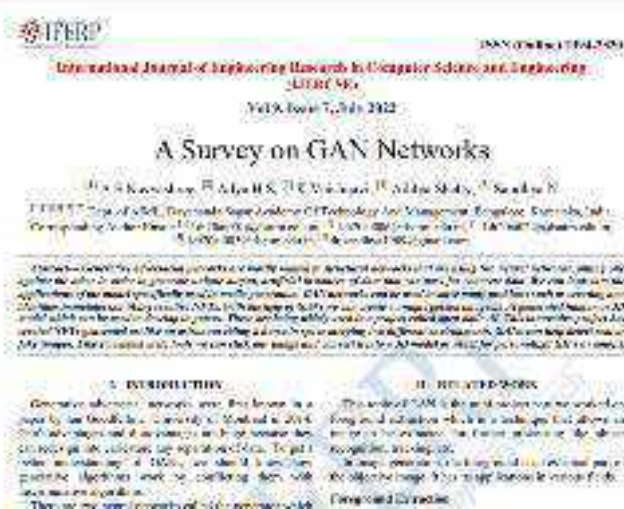


## Best Practice-5

### Research Paper Publications:

Students are made to write a literature review paper during 2<sup>nd</sup> year and a research paper during 3<sup>rd</sup> year after doing an innovative project. These papers are mentored by guides and published in reputed journal and conferences.

## Photographs/Videos



2<sup>nd</sup> year students publication in Google indexed journal



2<sup>nd</sup> year students publication in Google Indexed journal



3<sup>rd</sup> year students publication in Q4 journal



3<sup>rd</sup> year students publication in Q4 journal

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## BEST PRACTICES

### Best Practice-1

**Buddy system – Senior students teaching to Junior students**

### Photographs/Videos




### Best Practice-2

**Encouraging students to do Industry based certification.**

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Photographs/Videos



  
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### Best Practice-3

Peer to Peer learning, encouraging students to organize workshop for their own classmates.

### Photographs/Videos



  
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#### Best Practice-4

Encouraging faculties for research work.

#### Photographs/Videos



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FORM

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### Best Practice-5

Encouraging the staff to participate in college events. Like Kannada Rajyothsava and Antharagni Etc.

### Photographs/Videos



  
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## Best Practice-6

Encouraging faculties to attend the workshop.

## Photographs/Videos



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(Autonomous Institute under VTU)

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Approved by **AICTE**  
Accredited by **NAAC** with **A+** Grade  
6 Programs Accredited by **NBA**  
(CSE, ISE, ECE, EEE, MECH, CV)

## COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE)

Date:05/12/23

### BEST PRACTICES

#### Best Practice-1

#### 1.Paedagogical Initiatives in Teaching Learning Process

##### Photographs/Videos



#### Best Practice-2

#### 2.Faculty Skill Development and immersion Programs

##### Photographs/Videos

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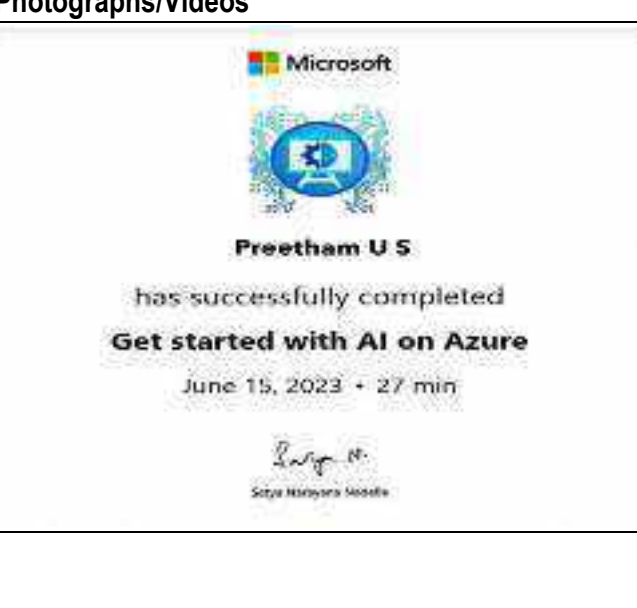
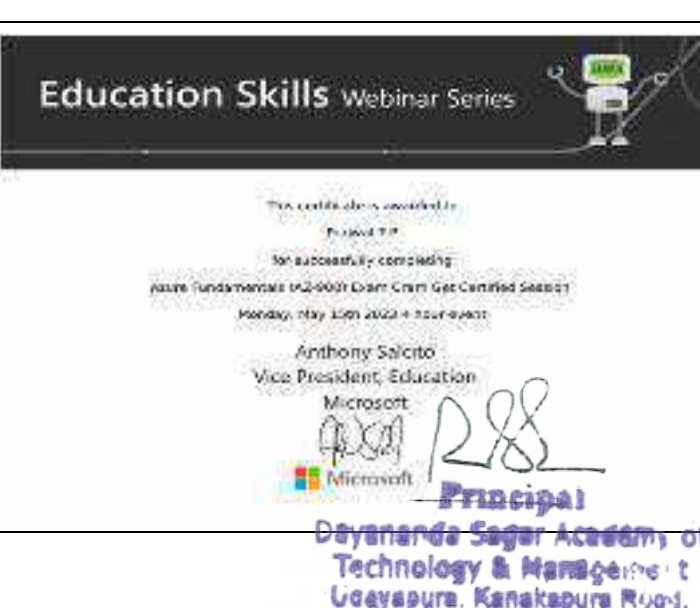
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 <p><b>Infosys</b> Springboard</p> <p><b>COURSE COMPLETION CERTIFICATE</b></p> <p>This certificate is awarded to: <b>Dr. C Nandini</b></p> <p>for successfully completing the course <b>Programming Fundamentals Using Python - Part 2</b> on July 19, 2023</p> <p><b>Infosys Springboard</b> Congratulations! You've made it!</p> <p><small>Dr. C Nandini Senior Lecturer and Head, Department of Computer Science, Dayananda Sagar</small></p>	 <p><b>Infosys</b> Springboard</p> <p><b>CERTIFICATE OF ACHIEVEMENT</b></p> <p>This certificate is awarded to: <b>Dr. C Nandini</b></p> <p>for successfully completing <b>Python Foundation Certification</b> on July 19, 2023</p> <p><b>Infosys Springboard</b> Congratulations! You've made it!</p> <p><small>Dr. C Nandini Senior Lecturer and Head, Department of Computer Science, Dayananda Sagar</small></p>
 <p><b>RNS INSTITUTE OF TECHNOLOGY</b></p> <p>RESEARCH SYMPOSIUM ON <b>SYNERGISTIC INNOVATIONS</b></p> <p><b>CERTIFICATE OF PARTICIPATION</b></p> <p>This certificate is issued to: <b>N. PRABHU K</b> department of CSE(A), SSKM, Davangere</p> <p>for participating in Research Symposium jointly organized by Departments of CSE(A), CSE, ECE, EEE, Engineering &amp; Innovation with IEEE CSE Student Branch Chapter on November 17, 2023.</p> <p><b>[edess]</b></p> <p><small>Dr. V. K. Srinivas Dr. S. Srinivas Dr. Ramesh Babu H S Dr. V. K. Srinivas</small></p>	 <p>Dayananda Sagar Academy of Technology and Management</p> <p>Department of Master of Computer Applications</p> <p><b>CERTIFICATE OF PARTICIPATION</b></p> <p>THIS IS GIVEN TO <b>Chandana K S</b> Assistant Professor, Department of CSE(A)</p> <p>for successful completion of 5 days ROP on Microsoft Powershell from 16-20-2023 to 20-20-2023 Organized by Dept. of MCA</p> <p><small>Dr. V. K. Srinivas</small></p>

### Best Practice-3

### 3.Students Skill Development Programs- Leading to certifications

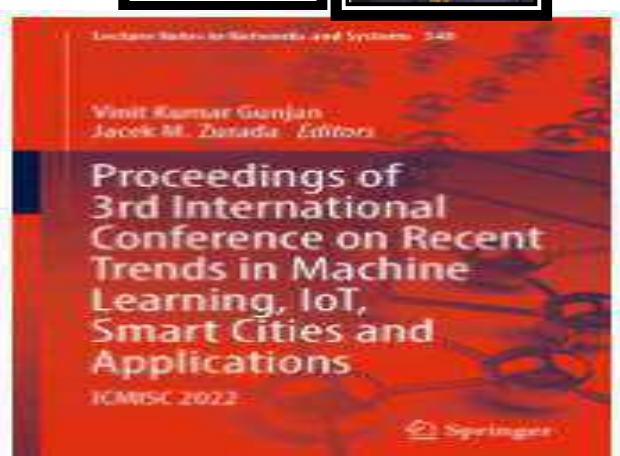
 <p><b>Microsoft</b></p> <p><b>Preetham U S</b></p> <p>has successfully completed <b>Get started with AI on Azure</b> June 15, 2023 + 27 min</p> <p><small>Satyah Narayan Modali</small></p>	 <p><b>Education Skills Webinar Series</b></p> <p>This certificate is awarded to: <b>Anthony Salcito</b></p> <p>for successfully completing course: Fundamentals of AI-20001 Exam: Exam Get Certified Session Monday, May 15th 2023 + 1 hour event</p> <p><b>Anthony Salcito</b> Vice President, Education Microsoft</p> <p><b>Principal</b> <b>Dayananda Sagar Academy of Technology &amp; Management</b> Udayapura, Kanakapura Road, Opp. Art of Living, Bangalore-560 082</p>
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#### Best Practice-4

Faculty and student Paper publications

#### Photographs/Videos



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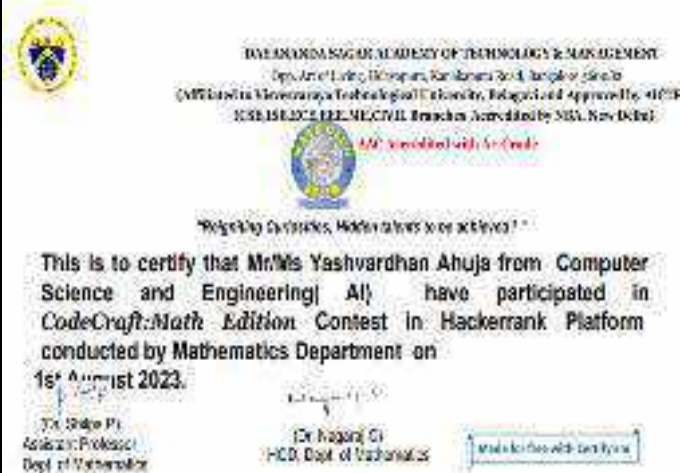
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## Best Practice-5

### 5.Student club Activities

#### Photographs/Videos



  
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**BEST PRACTICES**  
**Department of ECE**

**Best Practice-1: Panel Discussions**

**EVENT 1:** The purpose of a panel discussion on "**Career Opportunities and Future Trends in Communication and Semiconductor Industries**" is to provide valuable information, insights, and guidance to participants interested in these industries.

This Panel Discussion aims to serve as an educational platform, providing attendees with knowledge about the current and future career opportunities available in the communication and semiconductor industries. Also to Shed light on the latest trends and advancements shaping the communication and semiconductor industries. By discussing emerging technologies, market trends, and future developments, participants gain a deeper understanding of the industry landscape and the potential impact on their careers.

**EVENT 2: [Industrial Automation 4.0]** Industrial automation systems are systems used to control and monitor a process, machine or device in a computerized manner that usually fulfills repetitive functions or tasks. They are intended to operate automatically in order to reduce and improve human work in the industry.

**Photographs/Videos**



*R. S. S.*  
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### Best Practice-3: INTER-COLLEGE MINI PROJECT EXHIBITION AND COMPETITION

On Tuesday, July 4th, 2023, the Department of Electronics and Communication Engineering at DSATM organized a one-day inter-college mini-project exhibition and competition. The event aimed to foster innovation and creativity among the 6th-semester students. The competition received registrations from a total of 32 batches representing different colleges. Out of these, seventeen batches from various colleges across the state eagerly participated in the event. Additionally, our department contributed twenty-four batches to the competition.

A mini-project is a small-scale project that allows students to apply their knowledge and skills in a practical setting. It is typically a hands-on learning experience where students work on a specific problem or objective within a limited timeframe. Mini projects in the academic context often serve to reinforce theoretical concepts, enhance problem-solving abilities, and provide a platform for students to demonstrate their technical competence. These projects can cover a wide range of topics in various fields, allowing students to explore their interests and gain practical experience in their chosen discipline. Mini projects also help develop important skills such as project management, teamwork, research, and presentation skills. Overall, mini-projects play a crucial role in bridging the gap between theory and practice, preparing students for real-world challenges, and fostering their personal and professional development.

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## Photographs/Videos



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### Best Practice-3: Skill Enhancement Programme and Students Participation in Various Competitions

Skill Enhancement Programme on "Arduino Programming" was conducted by Prof. Bharath K N & Prof. Kalpavi C Y for 3<sup>rd</sup> Semester students.

We motivate our students to participate in various inter college competitions. As a result our Students participated in various competitions in various colleges and won prizes in some Competitions.

#### Photographs/Videos



Yashas M, Bhuvan S, Vandana, Chaitanyashree Anuradha, & Abhishek D Sharma of 6<sup>th</sup> Semester, ECE Department won 4<sup>th</sup> place at the ARM Design Contest 2022(ADC 2022).



Tejas MP, Tariya Fatima, Vihel Sneerivas of 5<sup>th</sup> Semester, ECE Department won second place at the ARM Design Contest 2022(ADC 2022).

Sl.No	Events	Institute
5.	SENTINAL HACKATHON 4.0 on 04-06-2023	KSIT, Bengaluru



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#### Best Practice-4: Social Service Club

**EVENT 1:** With a motive to help the students in government school, our NSS team planned to Rejuvenate the Government Higher Primary School, Chudanahalli by providing the students with a kit which will help them to attend the exams and also by cleaning and painting with arts in dining hall. Prof Bharath K N, NSS Coordinator, Dept. of ECE Coordinated the Complete event.

**EVENT 2:** Our department NSS team planned to help the old age people. Hence, we visited Ashraya Seva Trust – Old age home, Nagegowdanapalya and helped by providing them with the food grains along with one day meal for them and also gave a cultural programme like singing and dancing for their entertainment. Prof Bharath K N, NSS Coordinator, Dept. of ECE Coordinated the Complete event.

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### Best Practice-5: Cultural and Technical Fest

To provide an opportunity for students to exhibit their talent. To encourage and nourish the students' talents in sports and cultural events. Nurturing Talent of Students and provides opportunity to represent the college in other events.

The cultural team of ECE Dept. E -Nāda in association with IETE conducted various techno cultural events for students on 23<sup>rd</sup> and 24<sup>th</sup> June, 2023. Various Technical and Cultural Events were conducted.

### Photographs/Videos



  
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**ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT**  
**BEST PRACTICES**

**Best Practice-1**

**Social Connect Responsibility**

- HAR GHAR TIRANGA SOCIAL AWARENESS
- Visit to SHANTHIDHAMA Senior Citizen Home.
- Swatch Bharath etc

**Photographs/Videos**



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## Best Practice-2

### Industry institute interaction

- MOUs
- Industrial Visits


## Photographs/Videos

MoU with BESCOM



MoU with BESCOM



  
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### Best Practice-3

#### Alumni Interaction

### Photographs/Videos





#### Best Practice-4

Innovative TLP With pedagogical methods and ICT enabled teaching methods(youtube channel).

#### Photographs/Videos





## Product Development

- Electric /Battery based two wheeler.
- UV Sanitizer

## Photographs/Videos



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## BEST PRACTICES

### Best Practice-1

#### **RESEARCH: Patent and Publications**

Number of Patents filed and granted by the department has exceeded the target given by the institute.

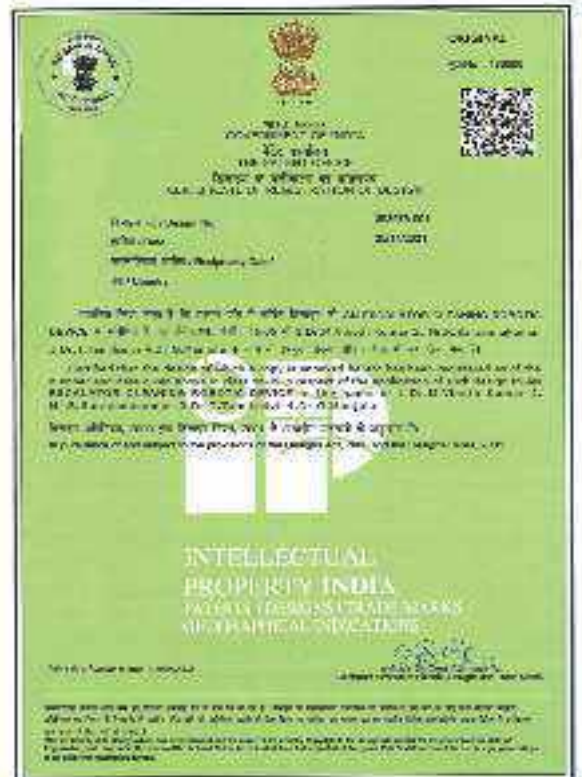
Following faculties Patent has been granted:

1. Dr Nandini Prasad K S, Dean-Foreign Affairs and HOD-ISE, -01 GERMAN PATENT and 01 INDIAN PATENT.
2. Dr G Manjula –01 INDIAN PATENT
3. Dr Thirukrishna-01 UK PATENT

No. of Patents filed by department of ISE: 08

No. of Papers in SCI/SCOPUS Indexed: 15

### Photographs/Videos



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## Best Practice-2

### **PEER LEARNING**

Peer learning classes handled for the lab “Principles of Programming Using C”.

7<sup>th</sup> sem three students are handling POP Using C lab for 1<sup>st</sup> sem ISE students.

#### Photographs/Videos



## Best Practice-3

### **PROJECT COLLABORATION WITH INDUSTRY EXPERTS GUIDANCE/ FACULTY FROM FOREIGN UNIVERSITY**

Baymaps (Industry) collaboration for Internships (5<sup>th</sup> Sem) & Projects (7<sup>th</sup> Sem) and Presently, Final year projects are co-guided by Industry Persons / Faculty from Foreign University.


Project collaborated with Foreign University by Dr Nandini Prasad K S for 2022-2023 one batch of students.

### **INDUSTRY INSTITUTE INTERACTION**

“SANGAMA”, the team name being meeting of streams, is the opensource initiative of Dept. of ISE-DSATM to build a MIT-O No Attribution License based Digital Twin IoT Platform with wearables as the first use case. The project is incubated in DSATM by BayMap systems as opensource initiative.

#### Objectives:

1. To establish convergence with industry from various fields through MOUs as a form of interaction.
2. To establish Centre of Excellence by Industry to provide real time exposure on Technologies.
3. To improve the quality of technical education to meet the needs of Industry.

  
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### Outcomes:

- Industry-Institute partnership is established.
- Projects and Internships are provided to the students where projects (Developing the open-source platform) are guided by the industry experts.
- Career opportunities are explored and students will have the opportunity to become entrepreneur.

### Photographs/Videos



- Project on “Design and Development of Smart Helmet” by one batch from dept. of ISE were guided by MIT Square, London.



Internship

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#### Best Practice-4

1. Finishing School initiated for 7<sup>th</sup> sem students (2023-2024 students).
2. Faculty Immersion Program was organized by dept. of ISE for faculty from Non-IT branches.
3. Staff Development Programs are initiated for technical and Office staff by dept. of ISE.
4. PhD holders are involved in guiding & upskilling knowledge of 7<sup>th</sup> sem students related to Paper writing and paper/ Journal publications.



#### Best Practice-5

Department of ISE has organized 24 Hour Hackathon and inaugurated department technical club- "InnoVisions". Various activities are organized under the club like: Hackathon, Coding, Logo Design etc.

Also, Students have participated and won prizes in HACKATHON at other institutes.

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## BEST PRACTICES

### Best Practice-1

#### Maths Club Activities:

The activities conducted are Math code craft on 01/08/2023 and Math Tech Fusion on 24/08/2023.

- With the aim of promoting Mathematical problem-solving skills among students and enhancing their coding abilities.
- The event not only enhanced participants' mathematical and programming abilities but also promoted teamwork and critical thinking.
- Nurturing a culture of Mathematical excellence and coding innovation.

### Photographs/Videos



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## Best Practice-2

### Application oriented presentations by students:

- As a part of creative Assessment, students are instructed to give power point presentation on applications of mathematics concepts which they learn in the respective semester.
- These applications are real world applications which helps the students to understand that mathematics exists in every aspect of life.
- These presentations are evaluated using rubrics which is a part of their curriculum.
- The presentations are so interesting and informative which really showcases the inquisitiveness of the students.

### Photographs/Videos



### Best Practice-3

#### Quiz:

- Department of Mathematics practices the method of giving quiz along with the internals.
- Quiz is considered a part of Continuous Internal Evaluation.
- Quiz gives an awareness of learning the concepts clearly as they are multiple choice questions.
- To attend quiz questions, one need to have complete knowledge of concepts or students end up losing marks.

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## Best Practice-4

### Blended learning:

- To expose students to different methods of learning, Department of Mathematics has taken up blended learning where a student is picked randomly during the class and is asked to do the problem on the board.
- This practice gives courage to students to face their classmates, write on the board, explain what is written and answer questions or doubts raised by their fellow mates.
- This method breaks the monotonous practice of only the faculty writing on the board and explaining them to students.
- This practice makes the students alert in the class and also avoids them from being only passive listeners.

### Photographs/Videos



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## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

### BEST PRACTICES

#### Best Practice-1: SKILL ENHANCEMENT PROGRAMME

A Skill Enhancement Programme (SEP) refers to a specialized set of activities or courses designed to enhance the practical skills and knowledge of students beyond the regular curriculum. The goal is to bridge the gap between theoretical learning and industry requirements, ensuring that students are well-prepared for the demands of the professional world.

The Skill Enhancement Programmes conducted are:

1. Workshop on Machine Learning, NLP and Computer Vision
2. Workshop on Sales force cloud Platform
3. Workshop on Introduction to Tableau
4. Workshop on User Interaction and Experience (UI/UX)

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## Best Practice-2: HACKATHON & HANDS-ON SESSION

A **hackathon** is an event where students come together to collaboratively work on software development projects or solve specific problems. Hackathons are a great way to generate innovative ideas and solutions to specific problems. Students are encouraged to think outside the box and come up with unconventional approaches to challenges. Hackathons provide a platform for students to learn new technologies, tools, and development methodologies.

A **hands-on session**, also known as a practical or interactive session, involves students actively engaging with the subject matter through direct involvement in activities, experiments, or exercises. These sessions aim to provide practical experience, allowing individuals to apply theoretical knowledge in a real or simulated context. Hands-on sessions are effective for developing technical skills, such as programming, data analysis, laboratory techniques, or other practical abilities related to a specific field.

Apart from lab sessions, we conducted Hands-on Sessions on:

1. Hackathon on Java Programming
2. Hands-on session on AWS Cloud
3. Hands-on Session on UNIX and Shell Scripting
4. Hands-on session on NS/2

  
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## Best Practice-3: PROJECT-BASED LEARNING

Project-Based Learning (PBL) is an instructional approach that emphasizes learning through the completion of projects. Instead of traditional lecture-based learning, where students passively absorb information, PBL engages students in active, hands-on projects that require them to apply their knowledge and skills to solve real-world problems. PBL involves projects that have real-world relevance, allowing students to see the practical applications of what they are learning.

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The project-based learning courses are  
Data structures  
Internet of Things  
Data analytics using Python  
Mobile Application Development

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#### Best Practice-4

A Faculty Development Program (FDP) is a structured initiative designed to enhance the knowledge, skills, and capabilities of faculty members in educational institutions. These programs aim to support

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professional growth, improve teaching and research practices, and keep educators updated on the latest trends and advancements in their respective fields.

Faculty development programmes organised are:

1. ESP32 IOT Development Board
2. Relish Life
3. Microsoft PowerBI

#### Photographs/Videos



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### Best Practice-5

The Memorandum of Understanding was signed between INTI International University, Malaysia and Dayananda Sagar Academy of Technology and Management on March 14, 2023.

The following members were present during the MOU signing Ceremony.

1. Dr. Choo Wou Onn, Pro-Vice Chancellor, INTI INTERNATIONAL UNIVERSITY
2. Dr. M. Ravishankar, Principal, DSATM
3. Dr. Manjula Sanjay Koti, Prof. & Head, Dept. of MCA, DSATM

#### Activities done under the MOU:

1. Collaborator for International Conference on Innovation and Technopreneurship held on Sep 21-22, 2023
2. Dr. Manjula, HOD-MCA was the Keynote speaker for the International Conference on Innovation and Technopreneurship held on Sep 21-22, 2023
3. Research Collaboration- Dr. Manjula, HOD-MCA received researching funding of Rs. 1,00,000 from INTI International University.
4. Students paper presentation during the International Conference on Innovation and Technopreneurship


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