

Best Practices

1. Title: Hackathon

2. Objectives:

The objective of a Hackathon at the college level is to provide students with an intensive, collaborative platform to solve real-world problems, innovate, and develop practical skills. These events aim to foster creativity and hands-on learning by integrating knowledge across disciplines and to gain exposure to real-world scenarios that demand innovative solutions.

3. Context:

Nandha Engineering College hosted an exciting series of hackathons, including **HackFusion**, **MAACathon** and **Hackapalooza**, which served as key platforms for fostering student creativity and technical expertise. These events were organized under the leadership of the **Institution's Innovation Council (IIC)**, in collaboration with various departmental clusters, highlighting the institution's strong commitment to academic excellence and student empowerment. Eminent personalities such as Mr. **Shivakumar Rangasamy**, CEO of ShivRobotics, and Mr. **S. Narendiran**, Lead Engineer, participated as mentors and evaluators, providing valuable industry insights to the participants.

4. Practice:

The Hackathon'24 series comprised three distinct yet impactful events: **HackFusion 2024** was centered on interdisciplinary collaboration and skill development, where participants from various disciplines came together to solve real-world problems. **MAACathon 2024** targeted sustainable development goals (SDGs) and focused on critical areas such as digital agriculture, medical technology, and energy conservation. The 12-hour hackathon pushed teams to develop solutions using advanced technologies like IoT and AI. **Hackapalooza 2024**, on the other hand, focused on advanced technologies such as Artificial Intelligence (AI), Machine Learning (ML), IoT, and Natural Language Processing (NLP). The event's themes revolved around healthcare, digital agriculture, and space technology, providing participants the opportunity to work on cutting-edge technologies and design smart systems that address critical challenges.

5. Evidence of Success:

The success of the Hackathon'24 series was evident in the overwhelming participation and the innovative solutions developed. Over 270 teams registered for the event, with 19 teams advancing to the finals after rigorous preliminary rounds. The event also provided significant recognition for outstanding teams through attractive cash prizes. The **First Prize** of Rs. 10,000

was awarded to two teams, **Second Prize** of Rs. 7,500 to three teams, and **Third Prize** of Rs. 5,000 to three teams. Additionally, ten teams received **Consolation Prizes** of Rs. 1,000 each, motivating participants to continue innovating.

6. Problems Encountered and Resources Required:

Challenges:

While the Hackathon was largely successful, several challenges were encountered. These included limited time for problem-solving, which placed pressure on teams to deliver innovative solutions within a short span. Restrictions on AI tools were also imposed to maintain originality, which, though beneficial, posed a challenge for some teams accustomed to relying on these technologies.

Resources

To overcome these challenges, increased access to mentorship would help guide participants through complex problem-solving processes. Enhanced capital is also essential for organizing future hackathons, allowing for improved event management, better facilities, and larger rewards to encourage innovation and greater participation.

Required:

7. Notes:

The Hackathon'24 series at Nandha Engineering College served as a testament to the institution's commitment to integrating academic learning with real-world application. The events provided a unique platform for students to showcase their innovative potential while promoting interdisciplinary collaboration and industry relevance.

NANDHA Engineering College
(Autonomous)
(Affiliated to Anna University, Chennai, Approved by AICTE, Accredited by NAAC with A+ Grade)
Erode, Tamil Nadu

MAY 29 2024
Block 9
CIPD

Hackathon '24
Jointly Organized by
Institution's Innovation Council (IIC)

Win Exciting Cash Prizes!

Hackapalooza '24
Department of AI&DS, CSE, CSE(CS), CSE(IOT), IT, MCA
For Problem Statement: [QR Code] For Registration: [QR Code]
Preliminary Round: 21.05.2024

HackFusion Fest '24
Department of ECE, BME, EEE
For Problem Statement: [QR Code] For Registration: [QR Code]
Preliminary Round: 23.05.2024
Last Date for Registration: 21.05.2024

MACC'athon '24
Department of Mechanical, Agri, Chemical, Civil and MBA
For Problem Statement: [QR Code] For Registration: [QR Code]
Preliminary Round: 23.05.2024

Rules:

- **Team Formation:** Participants can form a team upto 3 members.
- **Project Scope:** Team can select any one problem statement in the given catalogue and register with the problem ID using the registration QR.
- **Time Limit:** 12 Hours Hackathon.
- **Restricted:** Don't use AI Tools.

Who Can Participate?

All students with a passion for technology, coding, and innovation are welcome, regardless of experience level (1st year/2nd year/3rd year). Whether you're a seasoned programmer or just starting out, there's a place for you in this exciting event.

Co-Convenor
Dr. S. Prabhu, HoD / CSE (CS)
Dr. R. Murugasami, ASP / ECE
Mr. K. Rajasekaran, AP / Chemical
Convener
Dr. M. Easwaramoorthi, President / IIC
Principal
Dr. U. S. Ragupathy

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Sustainable Development Goals Aligned Themes

- Advance Medical Technology
- Healthcare, Medical Imports & Safety
- Space Technology
- Mental & Physical Wellness
- Digital Agriculture & Environmental Sustainability
- Clean Energy & Energy Conservation
- Water & Waste Management
- Robust Medicine & Healthcare, Critical Services Management



BestPractice- II

1. Title: Speak Smart-Cultivating Excellence in Communication

2. Objectives:

The “Speak Smart” initiative at Nandha Engineering College aims to enhance students’ speaking abilities, boosts their confidence, and equips them with effective communication skills. Through a variety of activities, including public speaking contests, debates, and interviews with renowned personalities, the program helps students develop their verbal expression, articulation, and self-presentation.

3. Context:

Nandha Engineering College has always placed significant emphasis on the development of students’ communication skills, recognizing their critical importance in both academic and professional settings. As part of this vision, the “Speak Smart” initiative was introduced, offering students opportunities to enhance their communication capabilities. The college has implemented various programs such as public speaking contests, debate tournaments, and interviews with experts. These initiatives aim to boost student confidence, foster creativity and help them engage with professionals.

4. Practice:

The “Speak Smart” initiative features several dynamic events designed to refine students’ communication skills. The **Public Speaking Championship** is a key component, where participants are given the opportunity to speak on diverse topics ranging from current events to personal experiences.

In addition, the **Debate Tournament** promotes critical thinking and effective argumentation. Students engage in debates on global and national issues, learning how to articulate their viewpoints and respond to opposing arguments under pressure. The debate format sharpens participants’ ability to think on their feet, an essential skill for communication.

Another crucial event is the **Personality Interview** program. Here, students conduct interviews with well-known figures in various fields, such as technology, business, and entrepreneurship. This event helps students hone their interviewing skills, providing valuable experience in formal communication settings. Furthermore, students are encouraged to present themselves in video format, where they record speeches and presentations on specific topics. These video sessions are then reviewed by mentors, allowing students to refine their delivery, content, and self-presentation skills.

5. Evidence of Success:

The “Speak Smart” initiative has seen significant success, as evidenced by the high level of student engagement and improvement in communication skills. The **Public Speaking Championship** saw strong participation, with students demonstrating enhanced public speaking abilities. Similarly, the **Debate Tournament** highlighted students’ ability to engage in critical dialogue, think analytically and present their arguments effectively. The **Personality Interviews** helped students develop real-world communication skills, while video presentations boosted their comfort in digital speaking contexts. Feedback from mentors indicated notable improvements in students’ confidence and overall communication competence.

6. Problems Encountered and Resource Required:

Challenges:

Managing large numbers of participants for events like public speaking and debates posed challenges in providing personalized feedback. Additionally, logistical issues arose when coordinating interviews and video recording sessions.

Resources Required:

Increased mentorship support and better facilities for recording and editing video presentations would further improve the initiative. Additionally, organizing more workshops on specific communication skills could be beneficial.

7. Notes:

The “Speak Smart” initiative has effectively fostered a culture of confident communication at Nandha Engineering College. Through events like the **Public Speaking Championship, Debate Tournament, and Personality Interviews**, students have developed strong speaking and critical thinking skills, preparing them for success in academic, professional, and social contexts.

