

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**II semester Python activity Report 2023-2024**

**Activity 2**

Type of Activity	PROJECT/ COMPUTER SIMULATION
Class	EEE II A
Date of Conduction	08-06-2024 (8:30AM – 9:30AM)
Venue (with address)	ALH 412 Dept. Of EEE, SCE
Organized by	Ms. Prakruthi Jain YS, Asst. prof., Department of EEE, SCE
Objectives of the activity	<ul style="list-style-type: none"> <li>• To enhance students' understanding of a specific topic in their syllabus through practical application.</li> <li>• To develop their skills in Python programming and project documentation.</li> </ul>
Participants (Please attach list of participants, if it is organized/conducted in the dept.)	64

**Event Description:**

**Introduction:** This report details a student project/computer simulation activity conducted to enhance understanding of specific syllabus topics through practical application. Students were tasked with writing Python code, executing it, and preparing a detailed report. This activity aimed to improve their programming skills and their ability to document technical projects.

**Objectives:** To reinforce theoretical knowledge through practical application. To develop students' programming skills in Python. To improve students' abilities to document and present technical projects.

**Project Selection:** Students were given a project related to the syllabus. The topic was chosen to ensure it aligned with the current curriculum and provided a practical challenge relevant to the course material.

Students followed these steps:

1. Develop a Python program addressing the chosen topic.
2. Ensure the code is well-documented with comments explaining the logic and functionality.
3. Execute the program to obtain results.
4. Save and analyse the output.

5. Prepare a detailed report/documentation of their work.

### Evaluation Criteria:

The projects were evaluated based on:

1. Code Quality:
  - Correctness: Does the code solve the problem as intended?
  - Readability: Is the code well-structured and easy to understand?
  - Documentation: Are comments and documentation sufficient and clear?
2. Execution and Results:
  - Functionality: Does the code execute without errors?
  - Output: Are the results accurate and relevant to the project objectives?
  - Analysis: Is the output well-analyzed and interpreted?
3. Report/Documentation:
  - Completeness: Does the report cover all required sections?
  - Clarity: Is the report clear and well-organized?
  - Depth: Does the report show a deep understanding of the topic and the project?

**Highlights and Observations:** Overall, students demonstrated a good understanding of the topics and exhibited strong programming skills. Feedback from students indicated that the activity was challenging yet rewarding, helping them connect theoretical concepts with practical applications. Several students expressed that the hands-on experience significantly enhanced their learning.

**Conclusion:** The activity successfully achieved its objectives, with students gaining valuable hands-on experience in programming and documentation. The practical application of theoretical concepts helped solidify students' understanding and fostered a deeper engagement with the course material.



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Snapshots of the Activity:



Presentation by the students

**Mapping of POs with contents of Event:**

P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
3	-	-	-	-	-	-	2	-	2	3	3

Date of Submission: 09/06/2024

Signature of the Subject coordinators

Signature of the HOD

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**Activity 3**


Type of Activity	ONLINE SKILL ASSESSMENT (HACKERRANK)
Class	<b>EEE II B</b>
Date of Conduction	11-06-2024 (8:30AM – 9:30AM)
Venue (with address)	ALH 412 Dept. Of EEE, SCE
Organized by	Ms. Prakruthi Jain YS, Asst. prof., Department of EEE, SCE
Objectives of the activity	The objective of this activity was to assess and improve students' Python programming skills by having them complete the Python Basic Skills Test on HackerRank
Participants (Please attach list of participants, if it is organized/conducted in the dept.)	63

**Activity Description:**

**Introduction:** To ensure our students are well-equipped with these critical skills, we organized an online skill assessment activity using the Python Basic Skills Test on **HackerRank**. The primary objective of this activity was to assess the students' current knowledge of Python and identify areas where they could improve. By participating in this test, students were given the opportunity to apply their theoretical knowledge in a practical setting, thereby enhancing their problem-solving abilities and coding proficiency.

**Objectives:**

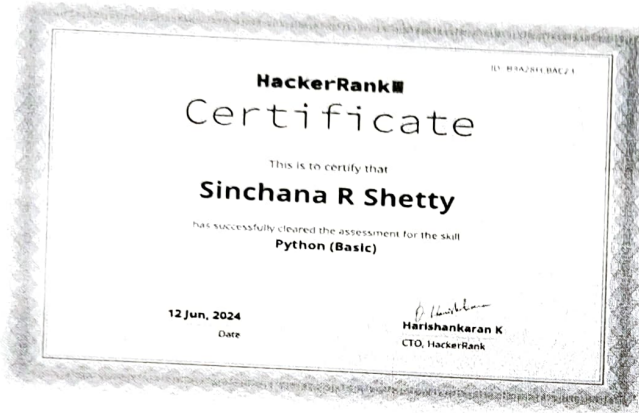
- **Assessment:** To gauge the current Python proficiency level of the students.
- **Skill Development:** To encourage students to learn and practice Python programming.
- **Certification:** To provide students with a certificate upon successful completion of the test, serving as a formal recognition of their skills and adding value to their resumes.

  
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**Process:** Students were given a week to complete the test at their convenience within the specified timeframe. Upon completing the test, students were instructed to download their certificates and submit them for verification.

**Conclusion:** This activity successfully assessed students' Python skills and encouraged them to enhance their knowledge.

### Snapshots of the Activity:



Sample certificate received by students


A handwritten signature in blue ink.


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Mapping of POs with contents of Activity:

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3	3	-	3	3	-	-	2	-	-	-	3

Date of Submission: 12/06/2024

  
Signature of the Subject coordinators

  
Signature of the HOD

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