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## SCIENT TWITTER ACCOUNT



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SCIENT FACE BOOK ACCOUNT

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## 1. POGIL TASK ON - SORTING

Department of CSE
II/IV B.Tech I Semester

## INDEX

| Contents | Page No |
| :--- | :--- |
| Faculty Information ,Learning Objectives, <br> Preparation Activity Notes, <br> Things to Do, Activity History |  |
|  |  |
|  |  |
|  |  |
|  |  |

Faculty Information:
Anoosha, Assistant Professor, SNTI, Hyderabad.

## Learning Objectives

After completing this activity, learners should be able to:

- Understand and visualize that there will be numerous algorithms/programs for aproblem
- Understand and identify different strategies of sorting.
- Able to evaluate/ calculate the complexities of the algorithms.
- Estimate and identify the best possible algorithm for a problem in terms ofefficiency.
- Identify and use appropriate asymptotic notations
- Should be able to know the best, worst and average cases for an algorithm.

Prerequisites
Before starting this activity, learners should have an experience, of writing pseudo code.

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## Preparation

Optional: Provide the worksheet on the board, a poster, or in presentation software, so teams can see each other's work easily.

## Activity Notes

- The facilitator should spend 5minutes for introducing the activity.
- While student teams work, the facilitator should circulate among the teamsto monitor progress and help with problems, although the facilitator should avoid providing or confirming answers to any of the key questions.


## Activity History

Before you start, complete the form below to assign a role to each member. If you have 3 people, combine Manager \& Reflector.

| Team |  | Date |
| :--- | :--- | :--- |

## Introduction

Sorting is the basic operating any used in every form of application. Even if you take the contact lists in the cell phone or arrange icons on the desktop in an order/ save files in a folder the sorting algorithm is executed in the background. Let's find out the roots of it inthis POGIL sheet.

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## ( 10 min ) CASE 1 Planning of strategy:

Given a bowl of marbles arrange them in the order of their size.
1: Which marble did you select for the first time?

2: Which marble did you select second time?

3: How did you select the first marble Describe in sentence?
(5 min ) CASE 1 Identifying strategy:
Write down the strategy of arranging the marbles in order.

## ( 10 min ) CASE 2 Planning of strategy:

Given the play cards one by one arrange them in the sequence.

1. Note the method (each sequence of steps ) of arranging them in the order.
(5 min ) CASE 2 Identifying strategy:
Write down the strategy of arranging them in order.
( 10 min ) CASE 3 Planning of strategy:
Provided the access for any two objects only among 5 at a time. Arrange them in an order .
(5 min ) CASE 2 Identifying strategy:
Write down the strategy of arranging them in order.
( 15 min ) Identifying and comparing the techniques
2. Name the basic methods observed in case1, case2, case3. You provide a name based onthe technique you have worked for it.
3. Provided 10 objects in each case list number of steps which method do you considerrequires less number of steps by a human.
4. Is this the same number of steps for the computer also?

## (30 min ) Tracing with values and finding complexities

1. Given the elements
$\begin{array}{lllllllll}25 & 41 & 21 & 14 & 37 & 18 & 20 & 7 & 235\end{array} 35$

Trace the number of steps using all the three basic sorting techniques
2. Find equations for each method to show number of steps in sorting and derive itsasymptotic notation.
3. Compare the three techniques based on the number of steps/ Asymptotic notation.

## (15 min ) Coding

1. Write code for swapping procedure.
2. For exchange sort write the snippet of code to identify requirement of swapping \& codeof swapping.
```
If (condition)
{
    Code for swap;
}
```

3. Write code for selecting the smallest value.
4. For selection sort write the snippet of code to swap the smallest value with the tracing element.
5. Write snippet of code for implementing insertion sort.


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## 2.POGIL TASK ON - SEARCHING

## Department of CSE

## Learning Objectives

After completing this activity, learners should be able to:

- Understand and visualize that there will be numerous algorithms/programs for aproblem
- Able to evaluate/ calculate the complexities of the algorithms.
- Estimate and identify the best possible algorithm for a problem in terms ofefficiency.
- Identify and use appropriate asymptotic notations
- Should be able to know the best, worst and average cases for an algorithm.


## Prerequisites

Before starting this activity, learners should have an experience, of writing pseudocode.

## Preparation

Optional: Provide the worksheet on the board, a poster, or in presentation software, so teams can see each other's work easily.

Before you start, complete the form below to assign a role to each member.If you have 3 people, combine Manager \& Reflector.


| Recorder: records all answers \& questions, and <br> provides copies to team \& faculty. |  |
| :--- | :--- |
| Speaker: talks to faculty and other teams. |  |
| Manager: keeps track of time and makessure <br> everyone contributes appropriately. |  |
| Other: |  |
| Introduction |  |
| In computing, we often must search in a set for a particular item. As computer scientists, we |  |
| are particularly interested in searching very large sets, with thousands or millions of values. |  |
| For example, the Harvard University Library has roughly 16,000,000 volumes, and the US |  |
| Library of Congress has roughly 22 million cataloged books, and over 100,000,000 total items. |  |
| In this activity, we use a simple game to explore some basic searching algorithms. This will |  |
| also help us explore more general concepts in algorithm design and analysis, so studying |  |
| searching is useful even though very few of us may need to implement searching algorithms, |  |
| since efficient techniques are part of most softwarelibraries. |  |

## Hi-Lo Game

Hi-Lo is a number guessing game with simple rules.
a. There are two players - A and B.
b. Player A thinks of a number from 1 to 100 .
c. Player B guesses a number.
d. Player A responds with "too high", "too low", or "you win".
e. Players B and A continue to guess \& respond until B wins (or gives up).

## I. (10 min) Player Strategies

1. (3 min) Play the game a few times to ensure that everyone understands the rules.
2. (2 min) List up to 3 ways to clarify the rules.
3. (3 min) Describe 4-5 different strategies that Player B could use to guess numbers.

Try to have a mixture of simple and clever strategies.
Name each strategy and list it in the first column of the worksheet.
Before you continue, review progress with the facilitator.
II. (10 min) Comparing strategies

1. ( 2 min ) Evaluate each strategy with regard to how quickly it will find the right answer, by rank ordering from 1 (least guesses) to 5 (most guesses).
Add the rankings to the worksheet in a column labeled Quick.
2. ( 2 min ) Evaluate each strategy with regard to how easy it is to describe or specify, byrank ordering from 1 (easiest) to 5 (hardest).
(Suppose you had to explain each strategy to a first-grader so that she could play thegame.) Add the ranking to the worksheet in a column labeled Easy.
3. (1 min) For each strategy, multiply the quick rank by the easy rank, and add the productto the worksheet in a column labeled Product.
4. ( 3 min ) In complete sentences, describe the relationships between the two sets ofrankings.

Before you continue, review progress with the facilitator

## III. ( 10 min ) Worst \& Average Case Performance

1. ( 2 min ) Discuss and list the pros \& cons of measuring program speed with a stopwatch.
2. (3 min) For each strategy, determine the worst case (maximum) number of guessesrequired to win.

Add the numbers to the worksheet in a column labeled Worst.
3. (3 min) For each strategy, determine the average case (typical) number of guessesrequired to win.
Add the numbers to the worksheet in a column labeled Average.

Note that the minimum number of guesses is always 1 - it's nice to be lucky.
4. ( 2 min ) List 3 reasons why it would be useful to have more precise, quantitative ways tomeasure and discuss the speed of an algorithm.

Before you continue, review progress with the facilitator.

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## IV. (10 min) Effect of Input Size

1. (3 min) Assume that Player A chooses a number from 1 to 1000.

For each strategy, what are the worst case \& average case number of guesses?
Add the numbers to the worksheet in columns labeled " 1 K Worst" and " 1 K Average".
2. (4 min) Optional: Assume that Player A chooses a number from 1 to N. (For example, $\mathrm{N}=100, \mathrm{~N}=1000, \mathrm{~N}=1,000,000$ )
For each strategy, what are the worst case \& average case number of guesses in terms of N? Add the expressions to the worksheet in columns labeled " N Worst" and " N Average". (Hint: you've already done $\mathrm{N}=100$ and $\mathrm{N}=1000$; consider other values before generalizing to N.)
3. (3 min) Describe the pros \& cons of analysing performance in terms of input size N

WORKSHEET

| Strategy <br> name | Quick | Easy | prod | Worst | Average | 1k <br> Worst | 1k <br> Average | N <br> worst | N <br> Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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## SAMPLE COPY OF POGIL PRACTICE SHEETS

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

YEAR \& SEM: T your $n$ sem-PIQ-ECE
POGILTASKON: Design of a full-addcon commit
FACULTY INFORMATION: G Swarnalatha
Asst Tout

| Batch no: | Date: |
| :--- | :--- |
| Team Role | Team Member Name |
|  <br> questions, and provides copies to <br> team \& faculty. | N. Vinic (tea |
| Speaker: talks to faculty and other <br> teams. | T- Sci Jyo USia |
| Manager: keeps track of time <br> and makes sure everyone <br> contributes appropriately. | P. Sci Prasanna |
| Other: |  |

Learning Objectives:
$\rightarrow$ understand which gates ore used to derigor hull adder crrait and function of each logic gate.
$\rightarrow$ Able to design the larger arithmetic cirwits from smaller building blocks.
Introduction: Addition is one of the most common operations perfromed by computer systems. we can design adder ctraits to perform aditen using logic gates. Full-addar chant can be designed using xoR and AND, or gates. And full adder $c a n$ be made using. 2 half adders. Full adder is a logic chart that adds two put bits plus a carry m bit $\&$ outputs a cary out bit $i=$ sumbit Proc
Steps
$\rightarrow$ First write the truth table for full adder consists of two mputs $(A, B)$ and carry in $\left(C s_{n}\right)$, outputs sum (S) and carry out (Lout)

$$
\Rightarrow \text { Then using k-map obtain the Boolean expression }
$$ for sum and cary (54) outputs individually.




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Truth table.

| Inputs |  |  | outputs |  |
| :---: | :---: | :---: | :---: | :---: |
| $A$ | $B$ | cm | Cat | $s$ |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 1 | 1 |

$\rightarrow$ Boolean Exprestions for $S$ and Cout

$$
\begin{aligned}
& S=A \oplus B \oplus C_{m} \\
& C_{\text {out }}=(A+B) \cdot C_{m}+A \cdot B .
\end{aligned}
$$

$\rightarrow$ Frilly draw the logic diagram using required.
logic gates.

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Design or coding:


Fig logic diagram for fulls adder using logic gates.

Results:
If root $A=1, B=0$ and $C_{D_{n}}=1$
Then $\operatorname{sum}(S)=A \Theta B \oplus C=1 \Theta 0(\mathbb{Q} \mid=0$

$$
\begin{aligned}
\text { Cory out }(\operatorname{cout})= & (n \oplus B) \cdot(m+A \cdot B \\
& =1 .
\end{aligned}
$$



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COURSE-BASED PROJECTS


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## COURSE BASED PROJECTS

DEPARTMENT OF ELECTRONICS AND COMMUNIUCATION
LIST MAJOR PROJECT TITLES A.Y 2021-22.

| SL.NO | Batch.No | Hall-Ticket No. | Name of the Student | Title of the Project | Name of the Guide |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 18C01A0411 | GULLANKI SAI PRASHANTH | VLSI implementation of error detection and correction for space engineering. | Ms.G Priyanka |
| 2 |  | 18C01A0410 | GUDURU SRINITHA |  |  |
| 3 |  | 18C01A0402 | A LAXMI PRASANNA |  |  |
| 4 | 2 | 18C01A0436 | SHIREESHA | IOT based load sensing seats controlling lights and fans. | Ms.G Swarnalatha |
| 5 |  | 18C01A0405 | CHALLAPURAM NIKITHA |  |  |
| 6 |  | 18C01A0421 | MEDIPALLY ANITHA |  |  |
| 7 | 3 | 18C01A0433 | PULIKANTHI PRIYANKA | An advanced public transport with tracking the vehicle and sending the location using GSM and GPS during pandemic situations. | Mr.K Saidulu |
| 8 |  | 18C01A0438 | SRIRAMULA SIRISHA |  |  |
| 9 |  | 18C01A0407 | EDIGI AKHILA |  |  |
| 10 | 4 | 18C01A0440 | SYED RUHEENA | AI and IoT powered smart university campus: Design of autonomous waste management. | Ms.G Priyanka |
| 11 |  | 18C01A0419 | KUTURU SUPRIYA |  |  |
| 12 |  | 18C01A0401 | AKUTHOTA HEMANTH |  |  |
| 13 | 5 | 19C05A0402 | GADUDHULA CHANDU | Solar based Fast tag charger for electric vehicles | Mr.P.Laxman |
| 14 |  | 18C01A0422 | MODHU NITHYA |  |  |
| 15 |  | 18C01A0426 | NALLAGONDA SURAJ |  |  |
| 16 | 6 | 18C01A0444 | KANDE SHILPA | Solar based Fast tag charger for electric vehicles | Mr.G Naresh |
| 17 |  | 18C01A0441 | THANGELLA MANASA |  |  |
| 18 |  | 18C01A0430 | POLDAS MADHU SUDAN |  |  |
| 19 |  | 16C01A0431 | N SHANKAR |  |  |
| 20 | 7 | 18C01A0414 | KALVAKOLU SHIRISHA | Analysis of Cryptography methods for design of crypto processor. | Mr.G Naresh |
| 21 |  | 18C01A0427 | N GOWTHAM |  |  |
| 22 |  | 18C01A0418 | KUPSALA SAI TEJA |  |  |



| 23 | 8 | 18C01A0406 | CHILA SATYANARAYANA | Smart fire detection and Surveillance system using IoT. | Mr.B Bhagavati Rao |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 24 |  | 18C01A0412 | KAKI GANESH |  |  |
| 25 |  | 18C01A0413 | KALAGONI HARI KRISHNA |  |  |
| 26 | 9 | 18C01A0432 | PONUGOTI RAHUL | IoT based smart shoe for the blind. | Mr.K Saidulu |
| 27 |  | 18C01A0417 | KOTHVAL VARUN |  |  |
| 28 |  | 18C01A0420 | L NITISH KUMAR |  |  |
| 29 | 10 | 19C05A0404 | KUMMARI DILEEP | Design of Io T based Multifunctional Camouflage Military Robot. | Mr. B Vishal Raja |
| 30 |  | 19C05A0408 | PARNANDHI SRAVANI |  |  |
| 31 |  | 19C05A0406 | MOHAMMED ZEBA |  |  |
| 32 | 11 | 18C01A0425 | N VAMSHI KRISHNA | Smart Irrigation and crop protection. | Mr.Bhagavati Rao |
| 33 |  | 18C01A0404 | BHASKARLA RAVI TEJA |  |  |
| 34 |  | 18 C 01 A 0442 | T PRATHYUSHA |  |  |
| 35 |  | 16C01A0445 | R PANDU |  |  |
| 36 | 12 | 19C05A0410 | VELUPULA VENNELA | Arduino based Vehicle Accident alert system using Gps,Gsm and Mems Accelerometer. | Mr.P.Laxman |
| 37 |  | 19 C 05 A 0409 | SHEELAM SAIKUMAR |  |  |
| 38 |  | 19C05A0403 | KUKUDALA PRAVALIKA |  |  |
| 41 | 13 | 19C05A0401 | BAIRA MAHESH | Smart Door System with Covid-19 Risk factor Evaluation. Contactless data acquisition and sanitization. | Ms.G Swarnalatha |
| 42 |  | 19C05A0405 | MASHA VAISHNAVI |  |  |

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## CERTIFICATE COURSE SAMPLE COPY

Date: 30-06-2020.

## Circular

This is to inform all the B.TECH ECE Students of $2^{\text {ND }}$ year that the Learning and certificate program "Skill Development Program-Aptitude and Logic skills" has been scheduled as two week program, from 06-07-2020 to 10-07-2020 \& 20-07-2020 to 24-07-2020. The program is conducted by FACE (Focus Academy for Career Enhancement). All the interested students are requested to register the program.

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## Training \& Placement Cell

## Report on Skill Development Program conducted by F.A.C.E

Name of the Program: Skill Development Program
Syllabus: Aptitude -quantitative ability, verbal ability and logical reasoning
Objective: To train the students in quantitative and logical skills which are important in analyzing and decision making.

Name of the agency: $\mathrm{M} / \mathrm{s}$. Focus Academy for Career Enhancement (FACE).
Duration of the program: Throughout the semesters, for II year students in the year 2020-21.
Outcome: The students improved in their problem solving skills and their ability to comprehend and approach a particular problem also has changed. They also enhanced their verbal ability, quantitative ability and logical reasoning skills. The Sessions were highly interactive and students clarified their doubts for better insights on the topics dealt with.

The undersigned thanked the respective department coordinators and $\mathrm{M} / \mathrm{s}$. Focus
Academy for Career Enhancement, for their support in completing the program successfully.

Date: 07-08-2020


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Department of Electronics and Communication Engineering
Skill Development Program-Aptitude and Logic skills
II B.TECH - ECE

| ATTENDANCE From 06-07-2020 to 10-07-2020 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S.N0 | H T NUMBER | NAME OF THE STUDENT | Day1 | Day2 | Day3 | Day4 | Day5 |
| 1 | 19C01A0401 | A SRINIVAS NAYAK | P | P | P | P | $P$ |
| 2 | 19C01A0402 | ABBADI DEEPAK REDDY | P | P | $p$ | $P$ | $p$ |
| 3 | 19C01A0403 | AMBATI SRINIVASA REDDY | $p$ | $P$ | P | P | $P$ |
| 4 | 19C01A0404 | BANDAMEEDI PAVAN KUMAR | P | $P$ | $P$ | $P$ | $P$ |
| 5 | 19C01A0405 | BANDARU AKHILA | $p$ | $P$ | $P$ | $P$ | $P$ |
| 6 | 19C01A0406 | BOLLAVATHRI NITEESH | P | P | $P$ | P | $P$ |
| 7 | 19C01A0407 | BOMMAKANTI ANUSHA | P | $P$ | P | P | $P$ |
| 8 | 19C01A0408 | BULTY DOLUI | $P$ | P | $P$ | P | P |
| 9 | 19C01A0409 | CHETTIPALLY SUHASINI | P | $P$ | P | P | $p$ |
| 10 | 19C01A0410 | CHINTAPATLA SOUJANYA | P | $P$ | P | $P$ | $P$ |
| 11 | 19C01A0412 | DODDA PRASHANTH | $P$ | $P$ | $P$ | P | $p$ |
| 12 | 19C01A0415 | GADDAM CHINNA REDDY | P | $P$ | $p$ | $P$ | $P$ |
| 13 | 19C01A0416 | GADDAM SWARNALATHA | P | $P$ | $p$ | $P$ | $p$ |
| 14 | 19C01A0417 | GRUDDANTHI MEGHANA REDDY | $P$ | P | $p$ | $P$ | $p$ |
| 15 | 19C01A0418 | JANTHUKA LAVANYA | $P$ | $P$ | $P$ | $P$ | $p$ |
| 16 | 19C01A0419 | JENIGA SRILATHA | $P$ | $P$ | $P$ | $p$ | $P$ |
| 17 | 19C01A0421 | KALAGONI AKHILA | $P$ | P | $P$ | $p$ | $p$ |
| 18 | 19C01A0422 | KANAKAM GOUTHAM | $P$ | $P$ | $P$ | $P$ | $P$ |
| 19 | 19C01A0423 | MAHESHWARAM ANJALI | P | $P$ | $P$ | $P$ | $P$ |
| 20 | 19C01A0425 | MANDAVA UPENDAR | P | $P$ | $P$ | $P$ | $P$ |
| 21 | 19C01A0426 | MARIKANTI VARSHITHA | P | $P$ | $P$ | $P$ | $P$ |
| 22 | 19C01A0427 | MUDAVATH RAJINIKANTH | $P$ | $P$ | $P$ | $P$ | $P$ |
| 23 | 19 C 01 A 0428 | MULAKALAPALLI SANDHYA | P | $p$ | $p$ | $P$ | $P$ |
| 24 | 19C01A0429 | MUTHYALA CHANDRA KUMAR | P | $p$ | $p$ | $p$ | P |
| 25 | 19C01A0430 | NAGUBAI VARSHA | $P$ | $p$ | P | $P$ | P |
| 27 | 19C01A0431 | NENAVATH KEERTHI | $P$ | $p$ | $p$ | $P$ | P |
| 28 | 19C01A0433 | PENDYALA AKANKSHA | D | $P$ | P | $P$ | $P$ |
| 29 | 19C01A0434 | PETLA GURU KIRAN |  |  | P | $P$ | $p$ |
| 30 | 19C01A0435 | POLA SOUMYA | $p$ |  | $P$ | $P$ | $P$ |
| 31 | 19C01A0436 | POLAGONI JAYAKRISHNA | P |  | $P$ | $P$ | $P$ |
| 32 | 19C01A0437 | POOLA KEERTHI | $P$ | P | P | $p$ | $P$ |
| 33 | 19C01A0438 | PULI ARAVIND |  | $p$ | P | $P$ | $P$ |
| 34 | 19C01A0439 |  |  | P | P | $P$ | $P$ |
| 35 | 19C01A0440 | SAI VINAYAK M PAWAR | $P$ | P | $P$ | $P$ | $P$ |
| 36 | 19C01A0441 | SAVALLA GANESH | $P$ | P | $P$ | $P$ | $P$ |
| 37 | 19C01A0442 | SUDAGONI SOUJANYA | $P$ | $P$ | $P$ | $P$ | $p$ |
| 38 | 19 C 01 A 0443 |  |  | $P$ | $P$ | $P$ | $P$ |
|  | , | SURE YAMUNA | $P$ | $P$ | $p$ | $P$ | $P$ |

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| 39 | 19C01A0445 | UDUGU SRIRAM | $P$ | $P$ | $P$ | $P$ | $P$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 40 | 19C01A0446 | V SHANVI REDDY | $P$ | $P$ | $P$ | $P$ | $P$ |
| 41 | $19 C 01 A 0447$ | YELE APARNA | $P$ | $P$ | $P$ | $P$ | $P$ |
| 42 | $20 C 05 A 0401$ | BODA SAIDULU | $P$ | $P$ | $P$ | $P$ | $P$ |
| 43 | $20 C 05 A 0402$ | E DINESH PAWAR | $P$ | $P$ | $P$ | $P$ | $P$ |
| 44 | $20 C 05 A 0403$ | JALDA SACHIN | $P$ | $P$ | $P$ | $P$ | $P$ |
| 45 | 20C05A0404 | KADIRI SANI CHANDRA VENNALA | $P$ | $P$ | $P$ | $P$ | $P$ |
| 46 | $20 C 05 A 0405$ | KALLEM CHANDANA | $P$ | $P$ | $P$ | $P$ | $P$ |
| 47 | $20 C 05 A 0406$ | KANUGANTI VIDHYADHARI | $P$ | $P$ | $P$ | $P$ | $P$ |
| 48 | $20 C 05 A 0407$ | KESARINAVYA | $P$ | $P$ | $P$ | $P$ | $P$ |
| 49 | $20 C 05 A 0408$ | KONDOJU SRUJANA | $P$ | $P$ | $P$ | $P$ | $P$ |
| 50 | $20 C 05 A 0409$ | MADARAPU ROHITH | $P$ | $P$ | $P$ | $P$ | $P$ |
| 51 | $20 C 05 A 0410$ | MEKALA SHIREESHA | $P$ | $P$ | $P$ | $P$ | $P$ |
| 52 | $20 C 05 A 0411$ | MOHAMMED AMER | $P$ | $P$ | $P$ | $P$ | $P$ |
| 53 | $20 C 05 A 0412$ | SANEM AKASH GOUD | $P$ | $P$ | $P$ | $P$ | $P$ |
| 54 | $20 C 05 A 0413$ | THATIKANTI SAIKUMAR K | $P$ | $P$ | $P$ | $P$ | $P$ |



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## Students Feedback

Name of the Student: $V$ shanvi Reddy
Bept:
Branch: ECE

| $\begin{aligned} & \text { Q. } \\ & \text { No. } \end{aligned}$ | Value Added Course Evaluation Criteria | Response |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Strongly agree | Agree | Neither Yes/No | Disagree | Strongly Disagree |
| 1 | The course content met the expectations |  |  |  |  |  |
| 2 | The sequence is well planned and organized |  |  |  |  |  |
| 3 | The course imparted new knowledge and practices |  |  |  |  |  |
| 4 | The content of the lectures is clear and easy to understand |  |  |  |  |  |
| 5 | Overall opinion of the course is good |  | 1 |  |  |  |

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Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

## CERTIFICATE

This is to certify that Mr/Ms. KESARI NAVYA has successfully completed the course on Skill Development Program-Aptitude and Logic skills Organized by the department of Electronics and Communication Engineering and FACE (Focus Academy for Career Enhancement) From 06-07-2020 to 10-07-2020 \& 20-07-2020 to 24-07-2020.



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## HACKATHON CERTIFICATE



