



Established In 1998

# CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY

Managed By St. Thomas Mission, Bhilai

Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means



## **Certificate/Value added Courses**

## **Department of Computer Science and Engineering**

### **Criterion 1**

### **Certificate Courses**



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## **INDEX**

SN	Academic Session	Topic	Resource Person	Duration
1	2018-2019	INTRODUCTION TO SCILAB	Ms. Snehlata Mandal	27/08/2018 to 14/09/2018
2	2018-2019	MODERN APPLICATION DEVELOPMENT	Mr. Revati Raman Dewangan	25/03/2019 to 12/04/2019
3	2019-2020	BASIC OF PYTHON	Dr. Arachana Chowdhury	26/08/2019 to 13/09/2019
4	2020-2021	BIGDATA ANALYTICS	Mr. Rupesh Mude	24/08/2020 to 11/09/2020
5	2020-2021	BASIC OF DISTRIBUTED SYSTEM	Mrs. Rupali Chandrakar	22/03/2021 to 09/04/2021
6	2021-2022	Basics of Fuzzy Logic	Ms. Lincy Mendonza	23/08/2021 to 09/09/2021
7	2021-2022	ANDROID MOBILE APPLICATION DEVELOPMENT	Mr. Rupesh Mude	21/03/2022 to 08/04/2022
8	2022-2023	ARDUINO PROGRAMMING	Mr. Abid khan	22/08/2022 to 13/09/2022
9	2022-2023	NATURAL LANGUAGE PROCESSING	Ms. Divyani	20/03/2023 to 12/04/2023

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**A**  
**Certificate Course**  
**On**  
**INTRODUCTION TO SCILAB**

**Report**

**Venue: CCET Bhilai**

**Date: 27/08/2018 to 14/09/2018**

**Name of Resource person:**

**Ms. Snehlata Mandal**

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## NOTICE

Date: 13/08/2018

All the faculty members and non-teaching staff of the department are requested to attend departmental meeting on date: 13/08/2018, Time: 03:30 p.m. Venue: HOD Cabin

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD  
Department of Computer Science &  
Engineering

### **Copy to:**

1. Principal
2. All Faculty members
3. IQAC

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Date: 13/08/2018

## Minutes of Meeting

A departmental meeting of teaching and non-teaching staff with HOD was held on date: 13/08/2018, Time: 03:30 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analysis was made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department.
2. It has been decided that a Certificate Course on **INTRODUCTION TO SCILAB** For 5<sup>th</sup> semester students will be conducted from 27.08.2018 to 14.09.2018 for 30 hours.
3. Time for classes conducted will be 4:30pm to 6:30pm.
4. Students of 3<sup>rd</sup> year studying in Computer Science & Engineering are eligible to attend the course.
5. Ms. Snehlata Mandal Assistant Professor of Computer Science Engineering Department will be conducting the classes of Introduction to SCI Lab.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab 1.

HOD

Department of Computer Science &  
Engineering

### Copy to:

1. Principal
2. All Faculty members
3. IQAC

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## NOTICE

Date: 16/08/2018

All the students of 3<sup>rd</sup> year of Computer Science & Engineering Branch are hereby informed that we are planning to conduct one Certificate courses of 2 hours each on **INTRODUCTION TO SCILAB** from 27.08.2018 to 14.09.2018. No fee will be charged for the same. Students willing to participate may register your names to respective Class Incharges earliest by 24.08.2018 Ms. Snehlata Mandal Assistant Professor of Computer Science Engineering Department will be conducting the classes of Introduction to SciLab.

HOD

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## **Content to be covered during the session:**

### **5<sup>th</sup> Semester**

### **Course Objective**

To introduce the students with the Concept of SciLab programming.

### **Introduction to Scilab**

- Introduction to Scilab and its benefits
- Installing
- Getting Started
- Vector Operations
- Matrix Operations
- Conditional Branching
- Iteration
- Scripts and Functions
- Plotting 2D graphs
- File handling
- User Defined Input and Output

### **Course Out Come**

The students will be able to install Scilab and write programs related to vector operation and matrix operations, control statements, functions and file handling.

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## Attendance List

27<sup>th</sup> August to 14<sup>th</sup> Sep 2018

5<sup>th</sup> Sem

Subject : - Introduction to Sci Lab

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27<sup>th</sup> August to 14<sup>th</sup> Sep 2018

5<sup>th</sup> Sem

Subject : - Introduction to Sci Lab

S.No	NAME	27/08/18	28/08/18	29/08/18	30/08/18	31/08/18	03/09/18	4/09/18	5/09/18	6/09/18	7/09/18	10/09/18	11/09/18	12/09/18	13/09/18	14/09/18	Signature
1	ADITYA VERMA	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	Aditya
2	ARJUN	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Arjun
3	B NAGSWAPNA	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	B.nag
4	BORRA SOLOMAN FRANKLIN DAVID	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	Borra
5	DEEPALI POKLEY	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepali
6	HARIKRISHNA PANIKAR	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	H.Krishna
7	HARSHA THAPA	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	H.Thapa
8	J SHIBIN	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	J.Shubin
9	JANHAVI SHARMA	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	J.hanu
10	JUSTIN KOSHY	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Justin
11	JYOTI BHARTI	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	Jyoti
12	JYOTIRMAY PACHRAIYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Jyoti
13	KARAN VERMA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	Karan

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14	LAXMIKANT SAHU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	L. Sahu
15	MANOVITA MANDAL	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	Manavita
16	NIKITA VISHWAKARAR MA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Nikita
17	NITESH SHAMA	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	Nitesh
18	P MANISHA	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P. Manish
19	PRACHI N TOPPO	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	Prachi
20	PRAGYA SHAH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Pragya
21	PRIYANSHU SMITLAL	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Priyanshu
22	REEBA ANNA RAJAN	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	Reeba
23	RISHI NANDAN CHOUDHARY	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Rishi
24	SHILPA DUTTA	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	Shilpa
25	SHILPI DEWANGAN	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	Shilpi
26	SHUBHANGI PRABHAKAR POKLEY	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	Shubhangi
27	SHWETA SHARMA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	Shweta

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28	TAMANNA JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Jain
29	UPASANA SARAF	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	Uparna
30	DISHA BHATTACHE RJEE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Disha
31	HARSH BIJWE	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	Harsh
32	K AMRUTHA	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	Kamrutha
33	SAGAR MAHOBIJA	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Sagar
34	P.A.ABHISHEK	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P.A.Abishek
35	OMPRAKASH SAHU	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	O.Prasanna
36	BHAGYANSH SINGH THAKUR	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	Bhagyan

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## **Report on Certificate Course on Introduction to Scilab**

A Certificate Course on Introduction to Scilab<sup>5<sup>th</sup></sup>Semester for 30 hours was arranged for the students of computer science & engineering from 27/08/2018 to 14/09/2018 at Lab 1, and Lab 2 . The sessions were conducted by **Ms. Snehlata Mandal**. The main objective of the course was to introduce the students with Scilab programming concepts.

From the overall responses received from the students regarding the course, it has been analyzed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of Scilab.

No of Students Enrolled = 36

No of students attended = 36

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## Photographs



**Criterion 1**

**Certificate Courses**



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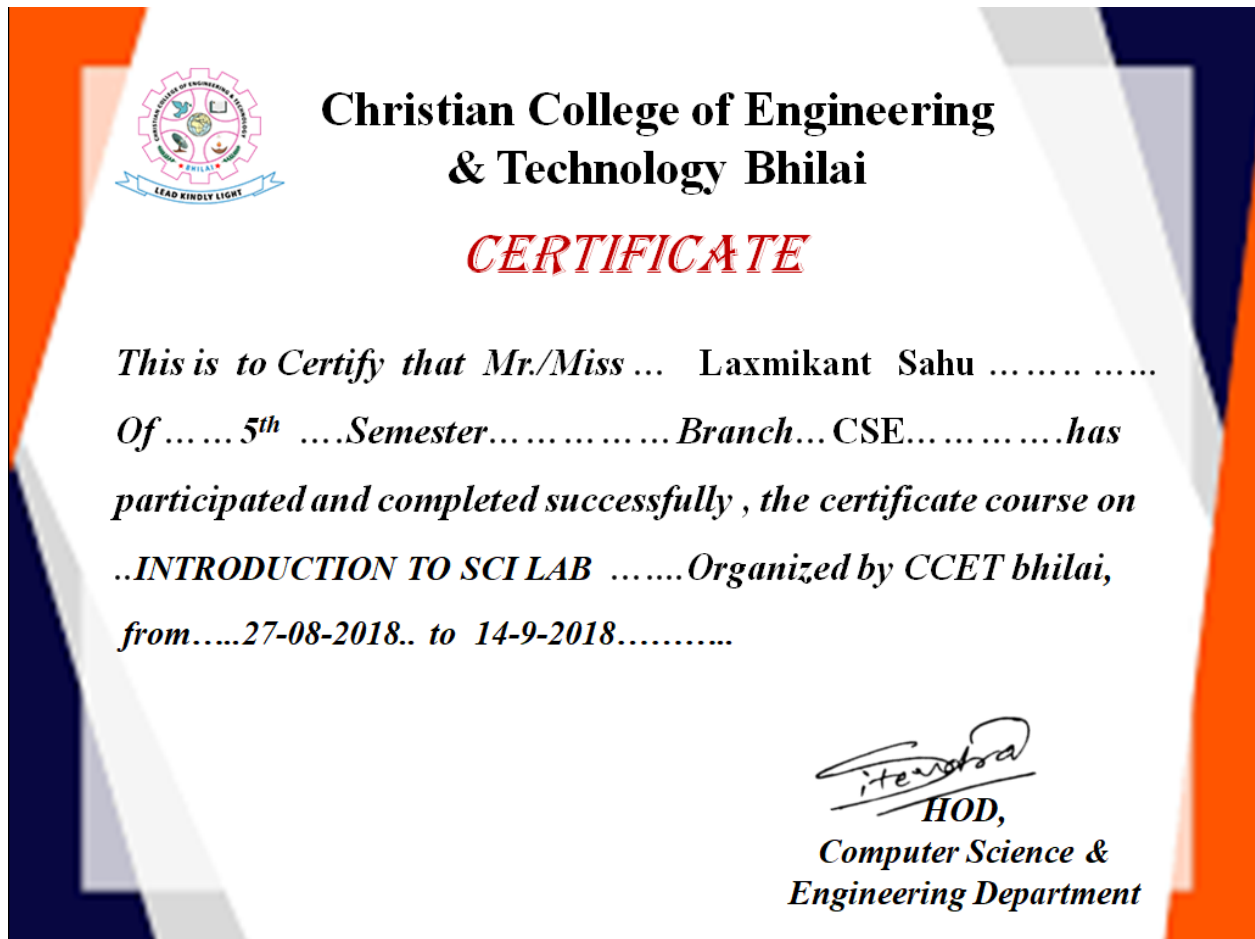
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## Sample of Certificate



The certificate is presented on a white background with a decorative border of orange, blue, and grey geometric shapes. In the top left corner, there is a circular logo for the college with the motto 'LEAD KINDLY LIGHT'. The text is centered and reads: 'Christian College of Engineering & Technology Bhilai' in bold black font, followed by 'CERTIFICATE' in red italicized font. The main body of the certificate states: 'This is to Certify that Mr./Miss ... Laxmikant Sahu ..... Of ..... 5<sup>th</sup> ....Semester.....Branch... CSE.....has participated and completed successfully , the certificate course on ..INTRODUCTION TO SCI LAB .....Organized by CCET bhilai, from.....27-08-2018.. to 14-9-2018.....'. In the bottom right corner, there is a handwritten signature in black ink, followed by the printed text: 'HOD, Computer Science & Engineering Department'.

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**Certificate Courses**



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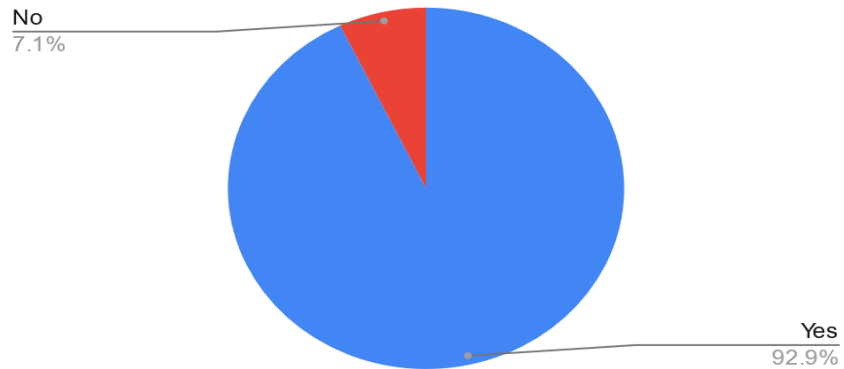
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## **FeedBack :**

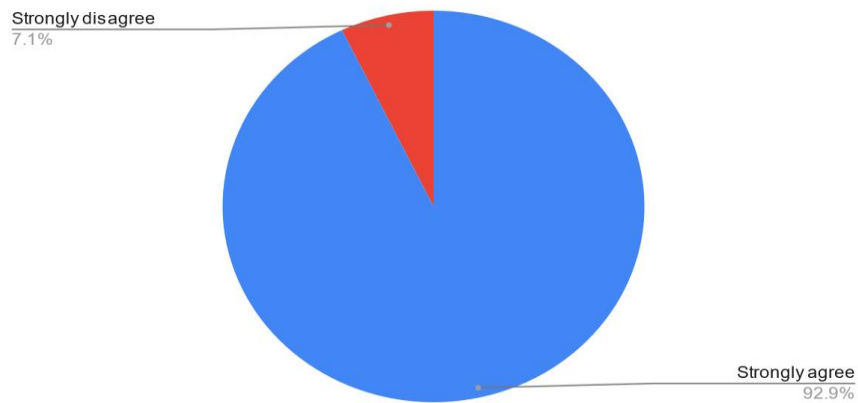
### **Feedback Link:**

<https://forms.gle/EgBKHu8i4qVxYHCL6>

Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



## **Criterion 1**

### **Certificate Courses**



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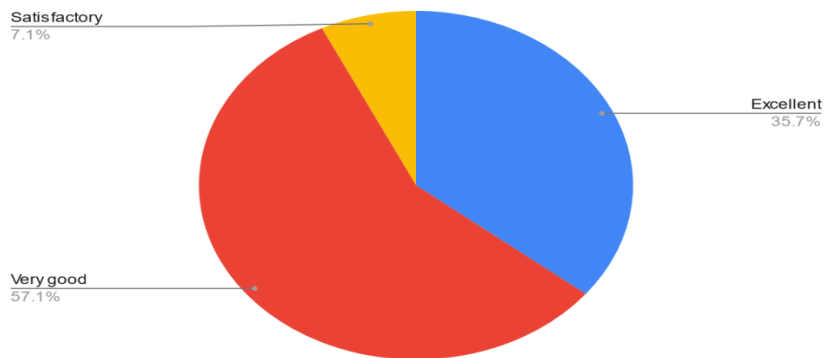
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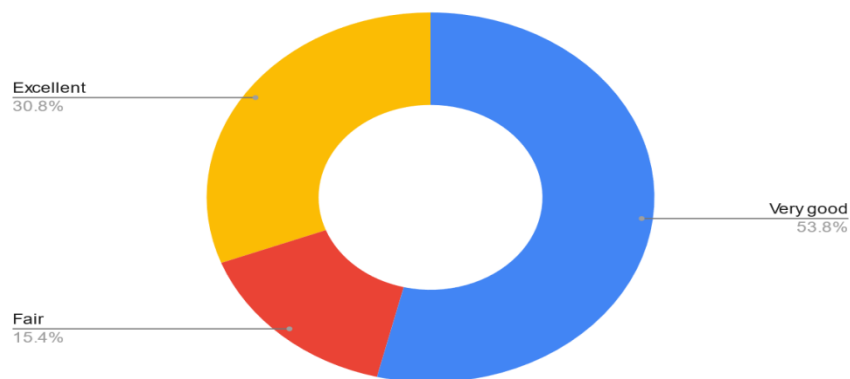
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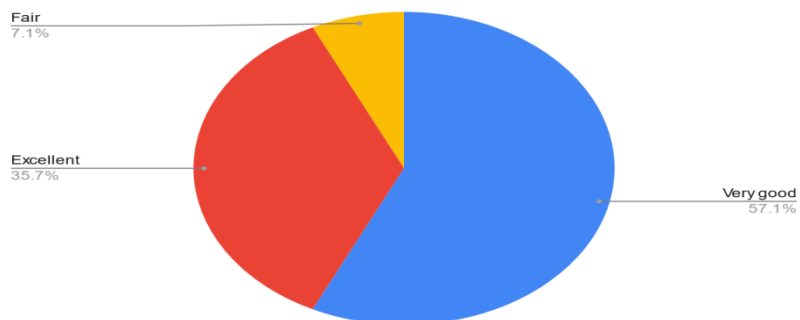
Count of Q.3. Contribution of lecture to your skill/knowledge



Count of Q.4 Time management by session speaker



Count of Q.5 Communication Skill of Speaker



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**A**  
**Certificate Course**  
**On**  
**MODERN APPLICATION DEVELOPMENT**

**Report**

**Venue: CCET Bhilai**

**Date: 25/03/2019 to 12/04/2019**

**Name of Resource person:**

**Mr. Revati Raman Dewangan**

**Criterion 1**

**Certificate Courses**





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## NOTICE

Date: 11/03/2019

All the faculty members and non-teaching staff of the department are requested to attend departmental meeting on date:11/03/2019, Time: 03:30 p.m. Venue: HOD Cabin

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Computer Science &  
Engineering

### **Copy to:**

1. Principal
2. All Faculty members
3. IQAC

**Criterion 1**

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Date: 11/03/2019

## Minutes of Meeting

A departmental meeting of teaching and non-teaching staff with HOD was held on date: 11/03/2019, Time: 03:30 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department
2. It has been decided that a Certificate Course on **MODERN APPLICATION DEVELOPMENT** for 4<sup>th</sup> Semester students will be conducted from 25.03.2019 to 12.04.2019 for 30 hours.
3. Time for classes conducted will be 4:30 pm to 6:30 pm.
4. Students of 2<sup>nd</sup> year studying in Computer Science & Engineering are eligible to attend the course.
5. Mr. Revati Raman Dewanagan Asst. Professor of Computer Science Engineering Department will be conducting the classes.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab 1.

HOD

Department of Computer Science &  
Engineering

### Copy to:

1. Principal
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**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 12/03/2019

All the students of 2<sup>nd</sup> year of Computer Science & Engineering Branch are here by informed that we are planning to conduct one certificate course each of 2 hours on **MODERN APPLICATION DEVELOPMENT** will be conducted from 25.03.2019 to 12.04.2019 for 2 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 22.03.2019 Mr. Revati Raman Dewangan, Assistant Professor of Computer Science & Engineering Department will be conducting the classes.

HOD

Department of Computer Science & Engineering

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## **Content to be covered during the session:**

### **4<sup>th</sup> semester**

#### **Course Objective**

To introduce the students to with the concepts of HTML and CSS

Modern Application Development (Html & CSS)

- Introduction to Modern Application Development
- Command Line
- Introduction to HTML and CSS
- Introduction to Input in HTML
- Producing HTML, CSS output
- Comparing CLI, GUI, and Web Interfaces
- Introduction to JDBC

#### **Course Outcome**

The students will be able to understand the basic concepts of Application development. They will be able to develop small application using HTML and CSS.

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## Attendance List

25<sup>th</sup> March to 12<sup>th</sup> April 2019

4th Sem

Subject: - Modern Application Development

		CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY															
		Attendance List															
		25 <sup>th</sup> March to 12 <sup>th</sup> April 2019								4th Sem							
		Subject: - Modern Application Development															
S.No	NAME	25/03/19	26/03/19	27/03/19	28/03/19	29/03/19	01/04/19	2/04/19	3/04/19	4/04/19	5/04/19	8/04/19	9/04/19	10/04/19	11/04/19	12/04/19	Signature
1	NEHA JHA	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Neha
2	RAHUL CHATURVEDI	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Rahul
3	NEHA VERMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Neha
4	SUSHAMA	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Sushama
5	TOMESHWARI	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Tomeshwari
6	JEETU KUMAR DEWANGAN	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Jeetu
7	PRIYA	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Priya
8	TRILOK KUMAR HARMUKH	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Trilok
9	GOPI KUMAR	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Gopi
10	RANJAN KUMAR PASWAN	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Ranjan
11	VIKAS SINGH	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	Vikas
12	SUSHMITA SONA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sushmita
13	GARIMA JAIN	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	Garima
14	BIMMI SINGH	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Bimmi
15	SAHIL AGRAWAL	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Sahil
16	SHARON GARDIA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharon
17	KAJAL SAHU	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Kajal

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18	YOGESH KAMDE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Yogesh</i>
19	MANSI	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	<i>Mansi</i>
20	PARAS NIRMALKAR	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	<i>Paras</i>
21	PARMANAND SAHU	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	<i>Parmanand</i>
22	DOLLY VERMA	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	<i>Dolly</i>
23	S NISHI	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	<i>S Nishi</i>
24	RUPALI NIRMAL	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	<i>Rupali</i>
25	MUKESH	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	<i>Mukesh</i>
26	JYOTI MANDAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Jyoti</i>
27	HUSNA BASRI	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	<i>Husna</i>
28	ANJALI SINGH	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	<i>Anjali</i>
29	TULANSH CHAUHAN	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	<i>Tulansh</i>
30	YASMIN PARWEEN	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	<i>Yasmin</i>
31	SHRADDHA CHOUDHARY	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	<i>Shraddha</i>
32	M BINDIYA RAO	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	<i>M Bindiya</i>
33	M ABHILASH	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	<i>M Abhilash</i>
34	NAMAN KUMAR SHRIVAS	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	<i>Naman</i>
35	ROCKSON DEPTY	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	<i>Rockson</i>

## Criterion 1

### Certificate Courses



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## **Report on “ A Certificate Course On MODERN APPLICATION DEVELOPMENT”**

“A Certificate Course on **MODERN APPLICATION DEVELOPMENT** 4<sup>th</sup> Semester for 30 hours was arranged for the students of computer science & engineering from 25/03/2019 to 12/04/2019 at Lab2 A total of 30 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Revati Raman Dewangan The main objective of the course was to introduce the students to HTML and CSS concepts.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of web application development.

No of Students Enrolled = 35

No of students attended = 35

### **Photographs**



**Criterion 1**

**Certificate Courses**



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## Sample of Certificate



**Criterion 1**

**Certificate Courses**





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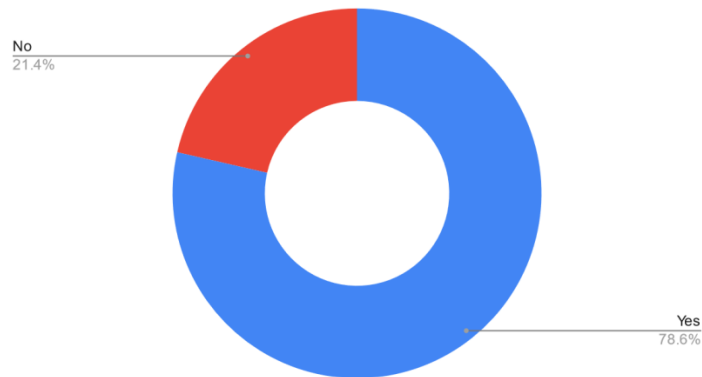
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**Feedback :**

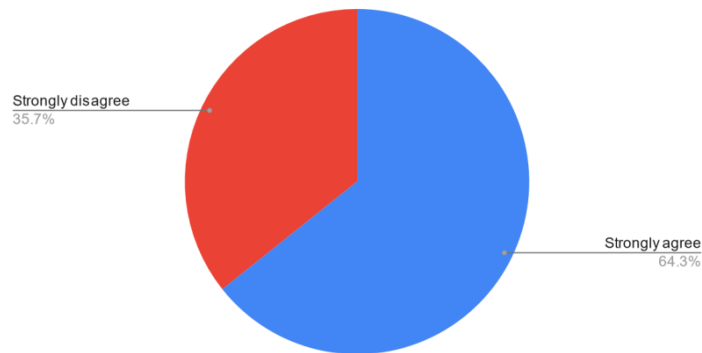
**Feedback Link :**

<https://forms.gle/EgBKHu8i4qVxYHCL6>

Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



**Criterion 1**

**Certificate Courses**



Established In 1998

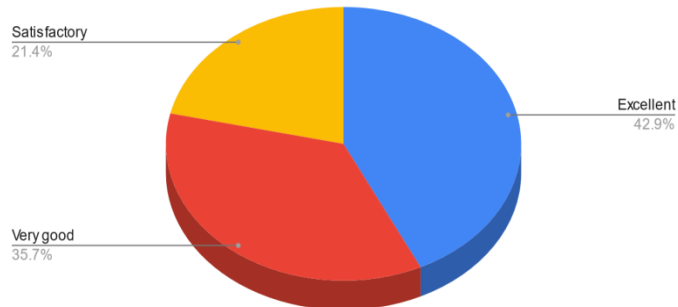
# CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY

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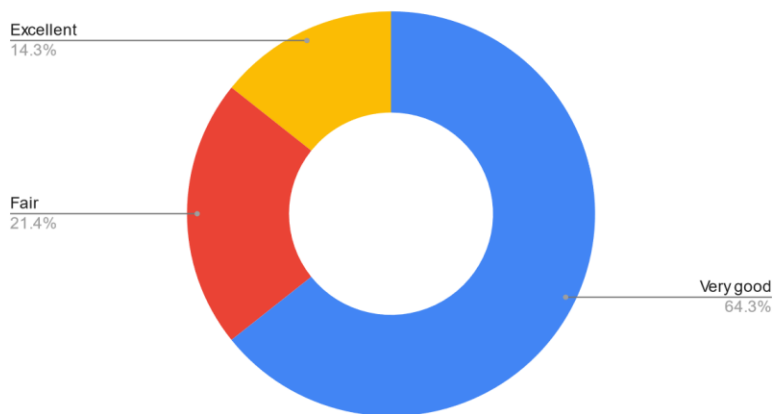
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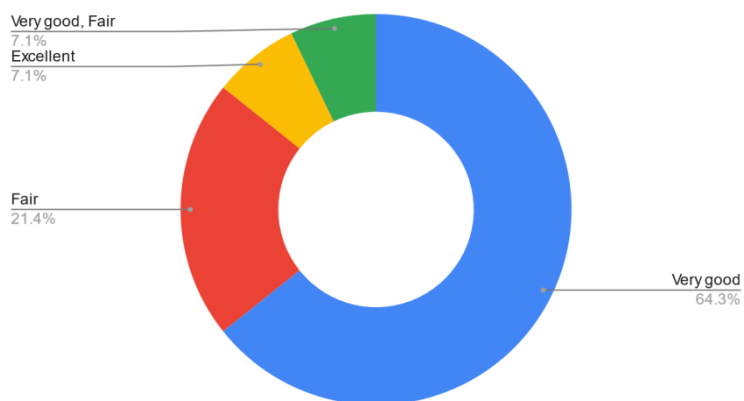
Count of Q.3. Contribution of lecture to your skill/knowledge



Count of Q.4 Time management by session speaker



Count of Q.5 Communication Skill of Speaker



**Criterion 1**

**Certificate Courses**



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**A**  
**Certificate Course**  
**On**  
**BASIC OF PYTHON**  
**Report**

**Venue: CCET Bhilai**

**Date: 26/08/2019 to 13/09/2019**

**Name of Resource person:**

**Dr. Arachana Chowdhury**

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 12/08/2019

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 13/08/2019, Time: 03:30 p.m. Venue: HOD Cabin

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Computer Science &  
Engineering

### **Copy to:**

1. Principal
2. All Faculty members
3. IQAC

**Criterion 1**

**Certificate Courses**



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Date: 13/08/2019

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 13/08/2019, Time: 03:30 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analysis was made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department.
2. It has been decided that a Certificate Course on **BASICS OF PYTHON** for 7<sup>th</sup> semester students will be conducted from 26.08.2019 to 13.09.2019 for 30 hours.
3. Time for classes conducted will be 4:30 pm to 6:30 pm.
4. Students of 4<sup>th</sup> year studying in Computer Science & Engineering are eligible to attend the course.
5. Dr. Archana Chowdhury Associate Professor of ComputerScience Engineering Department will be conducting the classes Basics of Python.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab 1.

HOD

Department of Computer Science &  
Engineering

### Copy to:

1. Principal
2. All Faculty members
3. IQAC

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 16/08/2019

All the students of 4<sup>th</sup> year of Computer Science & Engineering Branch are hereby informed that we are planning to conduct One certificate courses of 2 hours each on **BASICS OF PYTHON** from 26.08.2019 to 13.09.2019. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 23.08.2019. **Dr. Archana Chowdhury** Associate Professor of Computer Science Engineering Department will be conducting the classes Basics of Python.

HOD

Department of Computer Science  
& Engineering

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## **Content to be covered during the session:**

### **7<sup>th</sup> Semester**

#### **Course Objective**

To introduce the students with the concepts of Python.

#### **Basics of Python**

- Variables and Expressions
- Operators
- Control Flow
- Introduction to Loops: Sum of numbers, Multiplication Tables
- Strings, Functions
- Lists
- Tuples
- Dictionary
- Introduction to Numpy
- Introduction to Pandas
- Sorting : Arrange the books
- Searching : Find in seconds
- Introduction to Matplotlib

#### **Course Outcome**

Students will be able to understand the concepts of variables and Operator in python. They will be able to write programs using the concept of loop and functions. They will be able to understand the use of Lists, tuples and dictionary. They well also be introduce to Numpy, Pandas and matplotlib.

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## Attendance List

26<sup>th</sup> August to 13<sup>th</sup> Sep 2019

7<sup>th</sup> Sem

Subject: - **Basics of Python**

		CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY															Signature				
		Attendance List																			
		26 <sup>th</sup> August to 13 <sup>th</sup> Sep 2019															7 <sup>th</sup> Sem				
		Subject: - Basics of Python																			
S.No	NAME	26/08/19	27/08/19	28/08/19	29/08/19	30/08/19	31/08/19	01/09/19	02/09/19	03/09/19	04/09/19	05/09/19	06/09/19	07/09/19	08/09/19	09/09/19	10/09/19	11/09/19	12/09/19	13/09/19	
1	ADITYA VERMA	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P		<i>Aditya</i>
2	ARJUN	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		<i>Arjun</i>
3	B NAGSWAPNA	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P		<i>Bnag</i>	
4	BORRA SOLOMAN FRANKLIN DAVID	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P		<i>Borra</i>	
5	DEEPALI POKLEY	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P		<i>Deepali</i>	
6	HARSHA THAPA	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P		<i>Harsha</i>	
7	J SHIBIN	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P		<i>Jshibin</i>	
8	JANHAVI SHARMA	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P		<i>Janhavi</i>	
9	JUSTIN KOSHY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		<i>Justin</i>	
10	JYOTI BHARTI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A		<i>Jyoti</i>	
11	JYOTIRMAY PACHRAIYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		<i>Jyoti</i>	
12	KARAN VERMA	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P		<i>Karan</i>	
13	LAXMIKANT SAHU	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		<i>Laxmi</i>	
14	MANOVITA MANDAL	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P		<i>Manovita</i>		
15	NIKITA VISHWAKARARMA	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P		<i>Nikita</i>	
16	NITESH SHAMA	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P		<i>Nitesh</i>	
17	P MANISHA	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P		<i>Pmanisha</i>	

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**Certificate Courses**





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18	PRACHI N TOPPO	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Prachi
19	PRAGYA SHAH	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	Pragya
20	PRIYANSHU SMITLAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P.Smitlal
21	REEBA ANNA RAJAN	P	P	P	A	P	P	P	P	P	P	P	A	P	P		Reeba
22	RISHI NANDAN CHAUDHARY	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Rishi
23	SHILPA DUTTA	P	P	P	P	P	P	P	A	P	P	P	P	A	P		Shilpa
24	SHILPI DEWANGAN	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Shilpi
25	SHUBHANGI PRABHAKAR POKLEY	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Shubangi
26	SHWETA SHARMA	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	Shweta
27	TAMANNA JAIN	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Tanna
28	UPASANA SARAF	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	Upasana
29	DISHA BHATTACHE RJEE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Disha
30	HARSH BUWE	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	Harsh
31	K AMRUTHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	K.Amrutha
32	SAGAR MAHOBIA	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	Sagar
33	P.A.ABHISHEK	P	P	P	A	P	P	P	P	P	P	P	A	P	P		P.A.Abhisek
34	OMPRAKASH SAHU	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	O.P.Sahu
35	BHAGYANSH SINGH THAKUR	P	P	P	P	P	P	P	A	P	P	P	P	A	P		Bhagyan

## Criterion 1

### Certificate Courses



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## **Report on “A Certificate Course on Basics of Python ”**

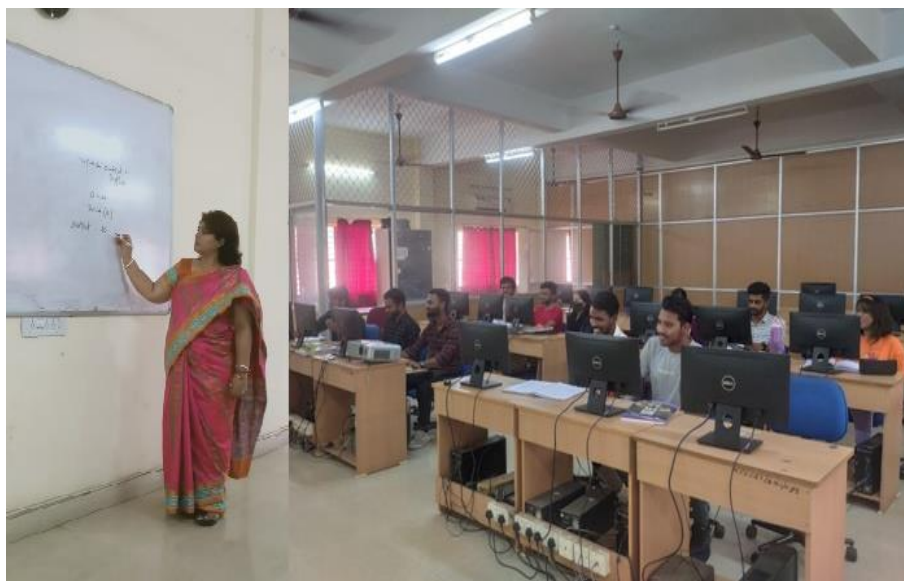
“A Certificate Course on Basics of python for 7<sup>th</sup> Semester” for 30 hours was arranged for the students of computer science & engineering from 26/08/2019 to 13/09/2019 at Lab 1. The sessions were conducted by, Dr. Archana Chowdhury Associate Professor of Computer Science & Engineering Department. The main objective of the course was to introduce the students with Python concepts.

From the overall responses received from the students regarding the course, it has been analyzed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of Python.

No of Students Enrolled = 35

No of students attended = 35

### **Photographs**



**Criterion 1**

**Certificate Courses**



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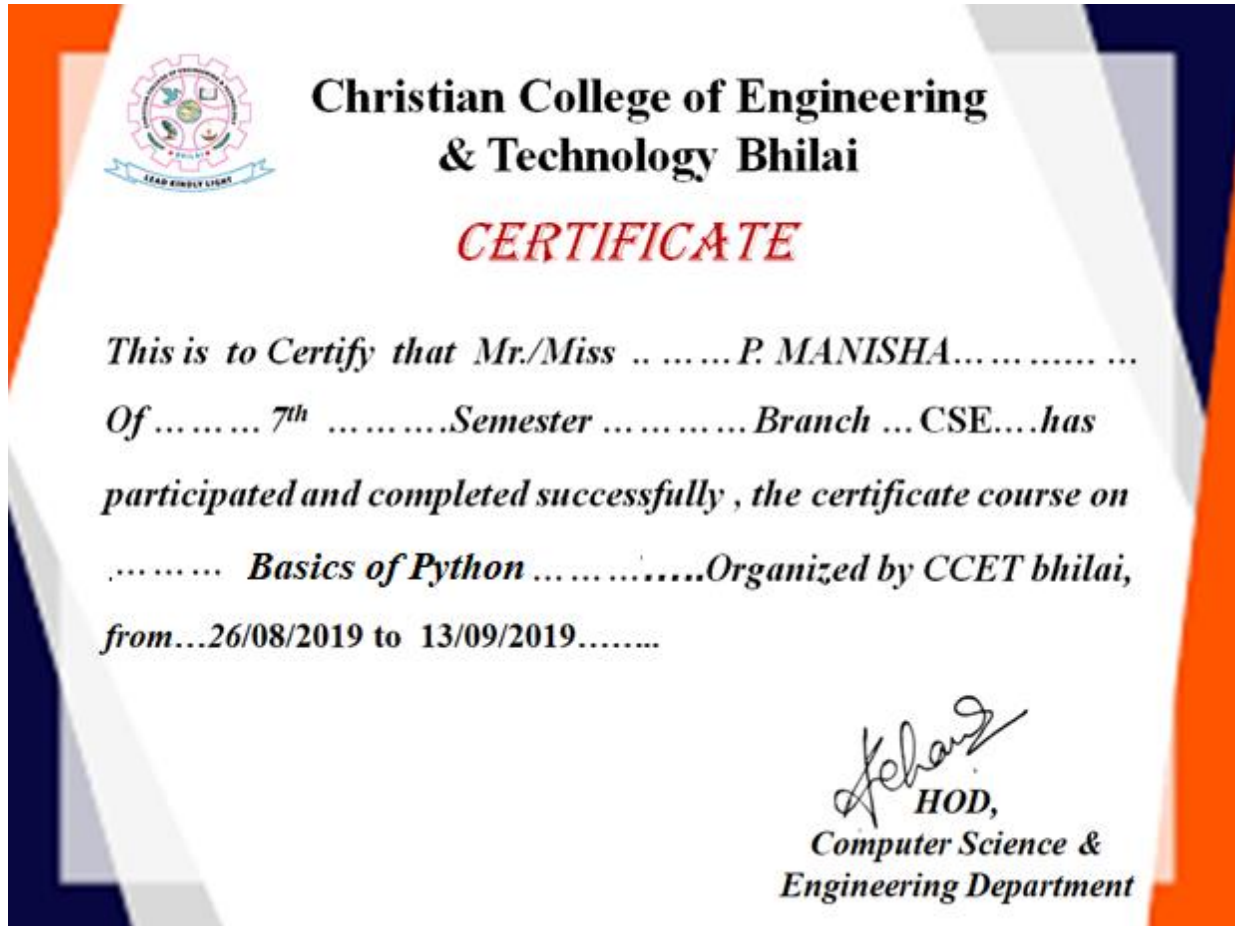
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## Sample of Certificate



**Criterion 1**

**Certificate Courses**



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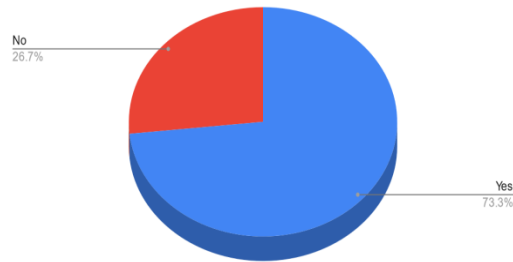
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## Feedback :

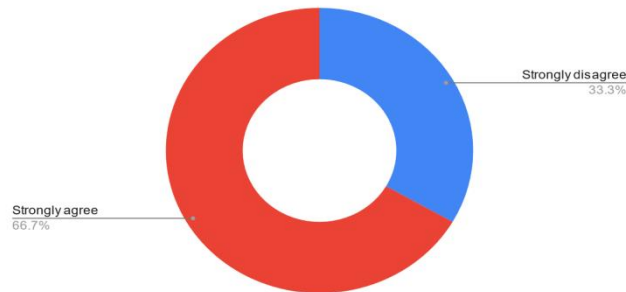
### Feedback Link :

<https://forms.gle/EgBKHu8i4qVxYHCL6>

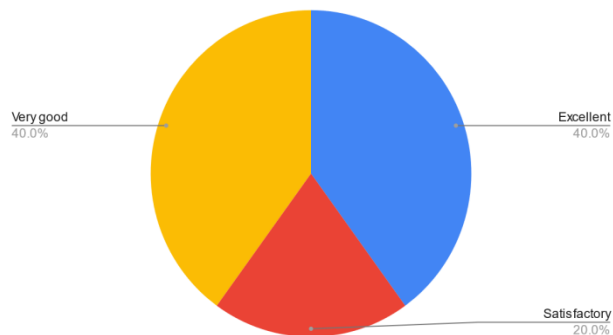
Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



Count of Q.3. Contribution of lecture to your skill/knowledge



**Criterion 1**

**Certificate Courses**



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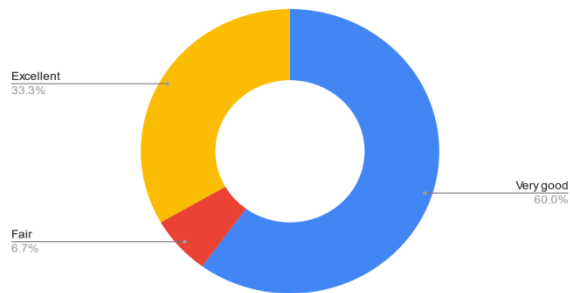
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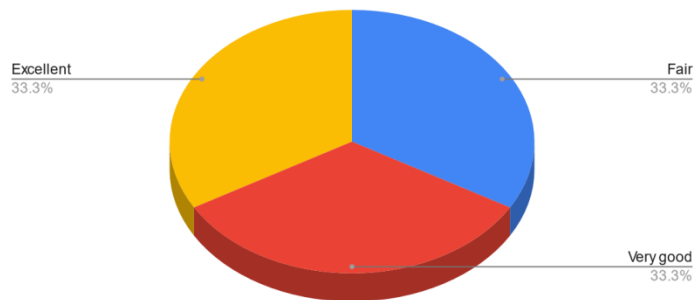
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Count of Q.4 Time management by session speaker



Count of Q.5 Communication Skill of Speaker



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**A**  
**Certificate Course**  
**On**  
**BIG DATA ANALYTICS**

**Report**

**Venue: CCET Bhilai**

**Date: 24/08/2020 to 11/09/2020**

**Name of Resource person:**

**Mr. Rupesh Mude**

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 10/08/2020

All the faculty members and non-teaching staff of the department are requested to attend departmental meeting on date: 10/08/2020, Time: 03:30 p.m. The meeting will be online mode.

### **Agenda of the meeting:**

3. Finalization of Certificate Course
4. In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Computer Science &  
Engineering

### **Copy to:**

4. Principal
5. All Faculty members
6. IQAC

**Criterion 1**

**Certificate Courses**



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Date: 10/08/2020

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 01/08/2020, Time: 03:30 p.m. in online mode. Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department.
2. It has been decided that a Certificate Course on **BIG DATA ANALYTICS**, 7<sup>th</sup> semester students will be conducted from 24.08.2020 to 11.09.2020 for 30 hours.
3. Time for classes conducted will be 4:30pm to 6:30pm.
4. Students of 4<sup>th</sup> year studying in Computer Science & Engineering are eligible to attend the course.
5. Mr. Rupesh Mude Assistant Professor of Computer Science Engineering Department will be conducting the classes Bigdata Analytics.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day in online mode.

HOD

Department of Computer Science &  
Engineering

### Copy to:

4. Principal
5. All Faculty members
6. IQAC

**Criterion 1**

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## NOTICE

Date: 12/08/2020

All the students of 4<sup>th</sup> year of Computer Science & Engineering Branch are hereby informed that we are planning to conduct one certificate courses each of 2 hours each in online mode on Big Data Analytics from 24.08.2020 to 11.09.2020. No fee will be charged for the same. Students willing to participate may register your names to respective Class In charges earliest by 20.08.2020. Mr. Rupesh Mude, Assistant Professor of Computer Science Engineering Department will be conducting the classes Big Data Analytics.

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## **Content to be covered during the session:**

### **7<sup>th</sup> Semester**

#### **Course Objective**

To introduce the students with the concepts of Big Data Analytics.

#### **BigData Analytics**

- Big Data – Definition and Applications
- Modern Data Analytic Tools.
- Characteristics of big data analytics,
- Need of big data analytics, Classification of analytics,
- Challenges to big data analytics, Importance of big data analytics.
- Hadoop foundation for analytics: Features,
- Key advantage and Versions of Hadoop,
- Essential of Hadoop ecosystems,
- RDBMS versus Hadoop, Key aspects and Components of Hadoop,
- Hadoop architectures.
- Hadoop Map Reduce.
- Introduction to MapReduce, Processing data with Hadoop using Map Reduce.

#### **Course Outcome**

The students will be able to understand the Basics of Big Data Analytic it Importance and challenges. They will be able to understand concepts of Hadoop and it Applications.

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## Attendance List

24<sup>th</sup> August to 11<sup>th</sup> Sept 2020

7<sup>th</sup> Sem

Subject : - Big Data Analytics

<u>Attendance List</u>																
24 <sup>th</sup> August to 11 <sup>th</sup> Sept 2020																
7 <sup>th</sup> Sem																
Subject : - BigData Analytics																
S.No	NAME	24/08/20	25/08/20	26/08/20	27/08/20	28/08/20	31/08/20	01/09/20	2/09/20	3/09/20	4/09/20	7/09/20	8/09/20	9/09/20	10/09/20	11/09/20
1	NEHA JHA	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
2	RAHUL CHATURVEDI	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	NEHA VERMA	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
4	SUSHAMA	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
5	TOMESHWARI	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
6	JEETU KUMAR DEWANGAN	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
7	PRIYA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
8	TRILOK KUMAR HARMUKH	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P
9	GOPI KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	HARIKRISHNA PANIKAR	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A
11	RANJAN KUMAR PASWAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	VIKAS SINGH	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
13	SUSHMITA SONA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

**Criterion 1**

**Certificate Courses**



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14	GARIMA JAIN	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P
15	BIMMI SINGH	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A
16	SAHIL AGRAWAL	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
17	SHARON GARDIA	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
18	KAJAL SAHU	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
19	YOGESH KAMDE	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
20	MANSI	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	PARAS NIRMALKAR	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
22	PARMANAND SAHU	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
23	DOLLY VERMA	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
24	S NISHI	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
25	RUPALI NIRMAL	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
26	MUKESH	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P
27	JYOTI MANDAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	HUSNA BASRI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A
29	ANJALI SINGH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	TULANSH CHAUHAN	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P

## Criterion 1

### Certificate Courses



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31	YASMIN PARWEEN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	SHRADDHA CHOUDHARY	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P
33	M BINDIYA RAO	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A
34	M ABHILASH	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
35	NAMAN KUMAR SHRIVAS	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
36	ROCKSON DEPTY	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37	SUHEL BAIG	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
38	SHASVAT PATEL	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P

**Criterion 1**

**Certificate Courses**



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## Report on Certificate Course on BigData Analytics

A Certificate Course on **BigDataAnalytics 7<sup>th</sup> Semetser** for 30 hours was arranged for the students of computer science & engineering from 24/08/2020 to 11/09/2020 in online mode. The sessions were conducted by **Mr. Rupesh Mude**. The main objective of the course was to introduce the students to the Big Data Analytics concepts.

From the overall responses received from the students regarding the course, it has been analyzed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students were satisfied with the techniques used to impart knowledge in the field of Big Data Analytics.

No of Students Enrolled = 38

No of students attended = 38

**Criterion 1**

**Certificate Courses**



Established In 1998

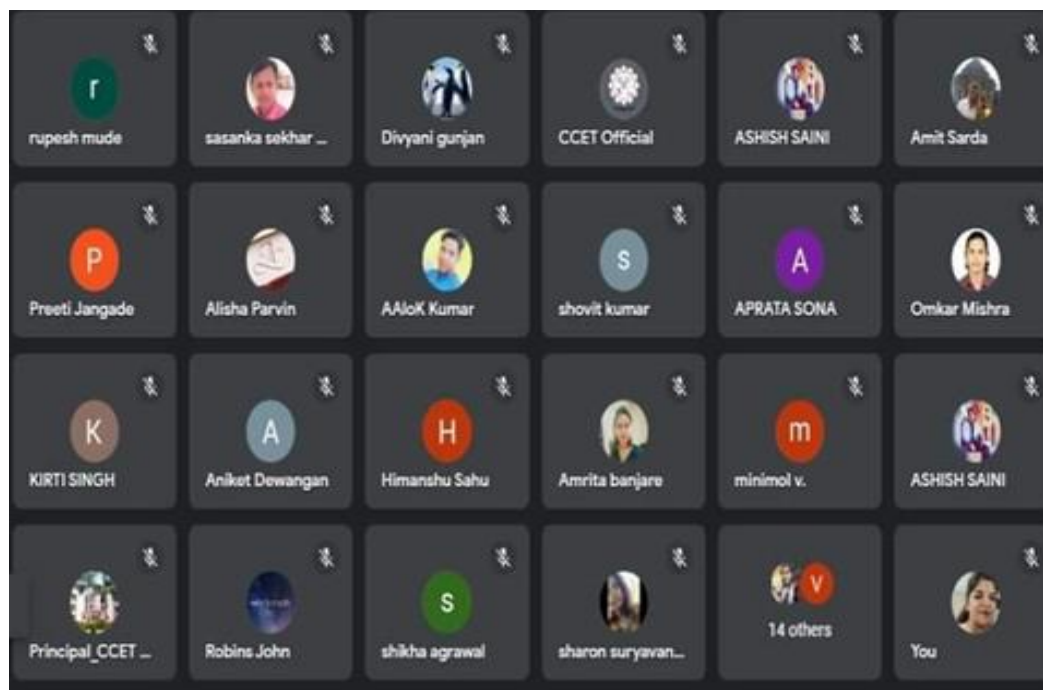
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## Photographs



**Criterion 1**

**Certificate Courses**



Established In 1998

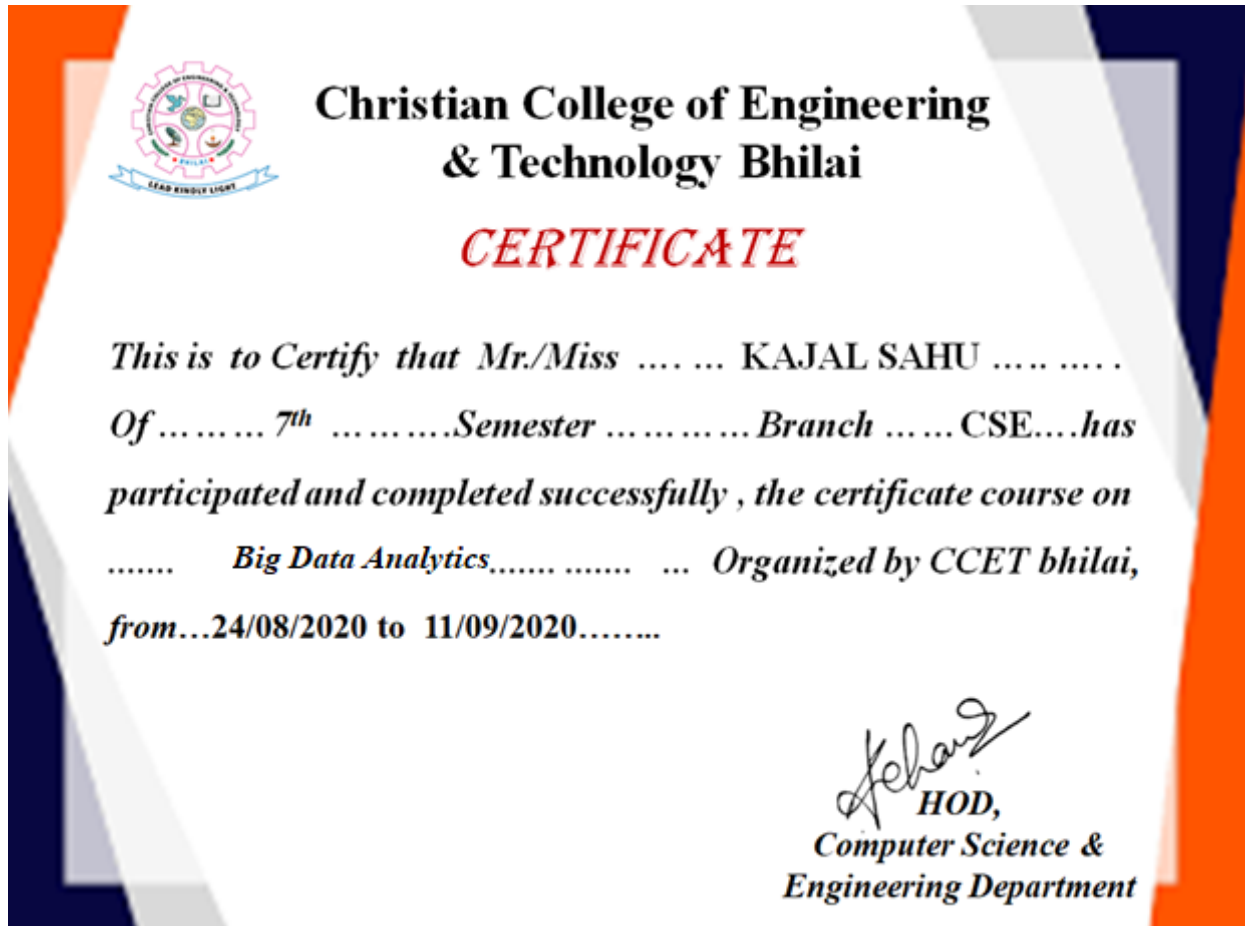
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## Sample of Certificate



**Criterion 1**

**Certificate Courses**





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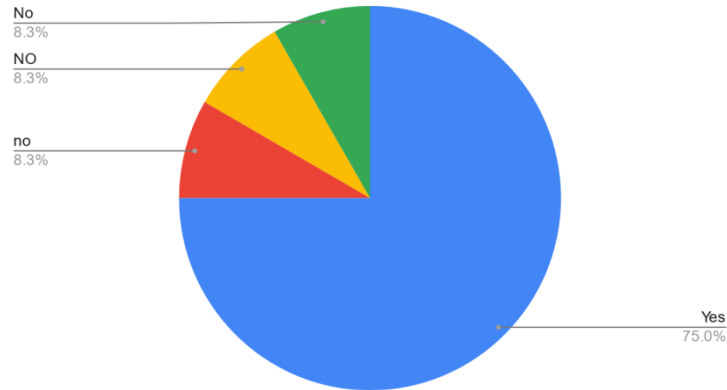
If You Aim High, We Provide The Means

**Feedback :**

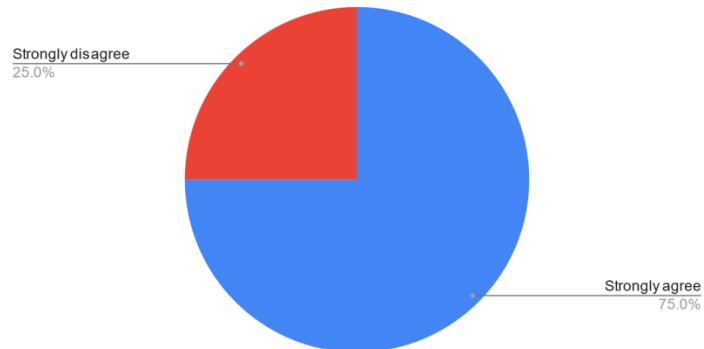
**Feedback Link :**

<https://forms.gle/EgBKHu8i4qVxYHCL6>

Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



**Criterion 1**

**Certificate Courses**



Established In 1998

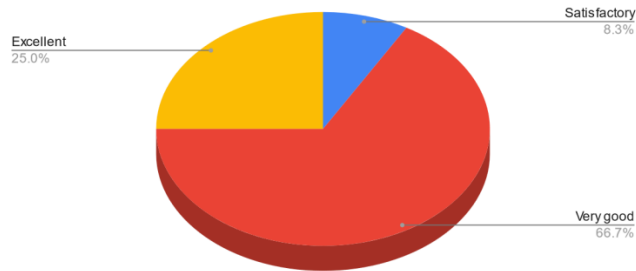
# CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY

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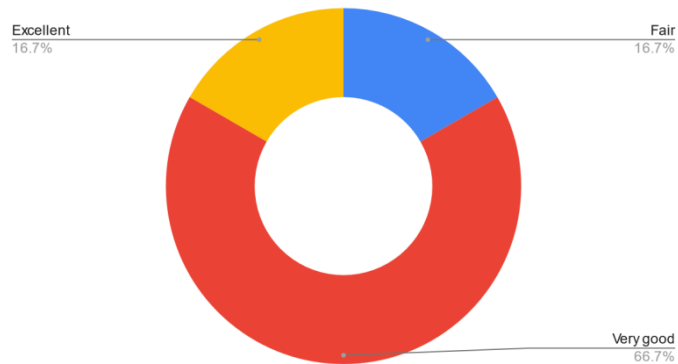
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Count of Q.3. Contribution of lecture to your skill/knowledge



Count of Q.4 Time management by session speaker



**Criterion 1**

**Certificate Courses**



Established In 1998

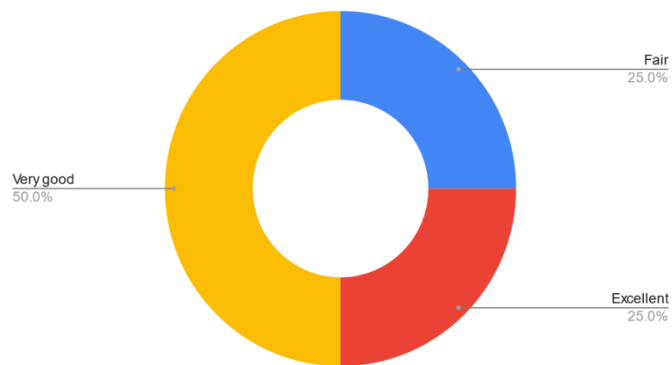
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Count of Q.5 Communication Skill of Speaker



**Criterion 1**

**Certificate Courses**



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**A**  
**Certificate Course**  
**On**  
**BASIC OF DISTRIBUTED SYSTEM**

**Report**

**Venue: Online Mode**

**Date: 22/03/2021 to 09/04/2021**

**Name of Resource person**

**Mrs. Rupali Chandrakar**

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 09/03/2021

All the faculty members and non-teaching staff of the department are requested to attend departmental meeting on date: 09/03/2021, Time: 03:30 p.m. Venue: Online Mode

### **Agenda of the meeting:**

5. Finalization of Certificate Course
6. In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Computer Science &  
Engineering

### **Copy to:**

7. Principal
8. All Faculty members
9. IQAC

**Criterion 1**

**Certificate Courses**



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Date: 09/03/2021

## Minutes of Meeting

A departmental meeting of teaching and non-teaching staff with HOD was held on date: 09/03/2021, Time: 03:30 p.m. Venue: Online mode(Google Meet). Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department
2. It has been decided that a Certificate Course on **Basic of Distributed System** for 6<sup>th</sup> semester students will be conducted from 22.03.2021 to 09.04.2021 for 30 hours in online mode.
3. Time for classes conducted will be 4:30pm to 6:30pm.
4. Students of 3<sup>rd</sup> year studying in Computer Science & Engineering are eligible to attend the course.
5. Mrs. Rupali Chandrakar Asst. Professor of Computer Science Engineering Department will be conducting the classes.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab 2.

HOD

Department of Computer Science &  
Engineering

### Copy to:

7. Principal
8. All Faculty members
9. IQAC

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 12/03/2021

All the students of 3<sup>rd</sup> year of Computer Science & Engineering Branch are hereby informed that we are planning to conduct a certificate course on **Basic of Distributed System** from 22.03.2021 to 09.04.2021, for 2 hours, in online mode. No fee will be charged for the same. Students willing to participate register your names to respective Class In charges earliest by 19.03.2021. Mrs. Rupali Chandrakar Assistant Professor of Computer Science & Engineering Department will be conducting the classes.

HOD

Department of Computer Science  
&Engineering

**Criterion 1**

**Certificate Courses**



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## **Course Syllabus covered during the session:**

### **6<sup>th</sup> Semester**

### **Course Objective**

To introduce the students with the concepts of distributed system.

### **Basics of Distributed System**

- Introduction to DS, Message Passing, Leader Election
- Distributed Models, Causality and Logical Time.
- Global State & Snapshot
- Distributed Mutual Exclusion-Non-Token and Quorum based approaches
- Distributed Mutual Exclusion-Token based approaches, Consensus & Agreement
- Check pointing & Rollback Recovery
- Deadlock Detection
- DSM and Distributed MST
- Termination Detection, Message Ordering & Group Communication
- Fault Tolerance and Self-Stabilization
- Distributed Randomized Algorithms
- DHT and P2P Computing

### **Course Outcomes**

The students will be able to understand the design principles of distributed systems and the architectures for distributed systems. They will be able to understand the concepts related to distributed Mutual Exclusion, deadlock detection, fault tolerance and self-stabilization and distributed randomized algorithms.

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## Attendance List

22<sup>th</sup> March to 9<sup>th</sup> April 2021

6<sup>th</sup>Sem

Subject : - Basics of Distributed System

		<u>Attendance List</u>														
		22 <sup>th</sup> March to 9 <sup>th</sup> April 2021														
		6 <sup>th</sup> Sem														
		Subject : - Basics of Distributed System														
S.No	NAME	22/3/21	23/3/21	24/3/21	25/3/21	26/3/21	29/3/21	30/3/21	31/3/21	01/4/21	20/4/21	30/4/21	05/4/21	07/4/21	08/4/21	09/4/21
1	MUDASSAR HASHMI	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
2	SHASHANK JACOB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	BHEESHM	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
4	NAMAN PANDEY	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
5	ABHISHEK MINJ	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
6	MANISHA SINGH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
7	ANJALI MISHRA	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P
8	SHREYA CHOUDHARY	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
9	KAIFIYA	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P
10	JITHIN V ANIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	PRACHI RAMTEKE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	SWATI RAO	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
13	KAVITA	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P
14	PANKAJ DEWANGAN	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
15	J JYOTSNA	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P

**Criterion 1**

**Certificate Courses**



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16	DAVIS S CHERIAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	DAMINI	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
18	AANCHAL PANDEY	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
19	SAIF ALI SHEKH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	PRADEEP KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
21	CHANDRAMUKHI VERMA	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
22	PRITY BAXLA	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
23	MANJU SHARMA	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
24	ANAND MOHAN YADAV	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P
25	CHANAKAYA DEWANGAN	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P
26	HARISHANKAR BANJARE	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
27	SOBIT TOPPO	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P
28	RATAN KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

## Criterion 1

### Certificate Courses



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## **Report On “A Certificate Course On Basic of Distributed System”**

“A Certificate Course on **Basic of Distributed System (6<sup>th</sup> Semester)**” for 30 hours was arranged in online mode, for the students of Computer Science & Engineering from 22.03.2021 to 09.04.2021 at Lab 2. A total of 30 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mrs. Rupali Chandrakar. The main objective of the course was to introduce the students with distributed system concepts.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of distributed system.

No of Students Enrolled = 28

No of students attended = 28

**Criterion 1**

**Certificate Courses**



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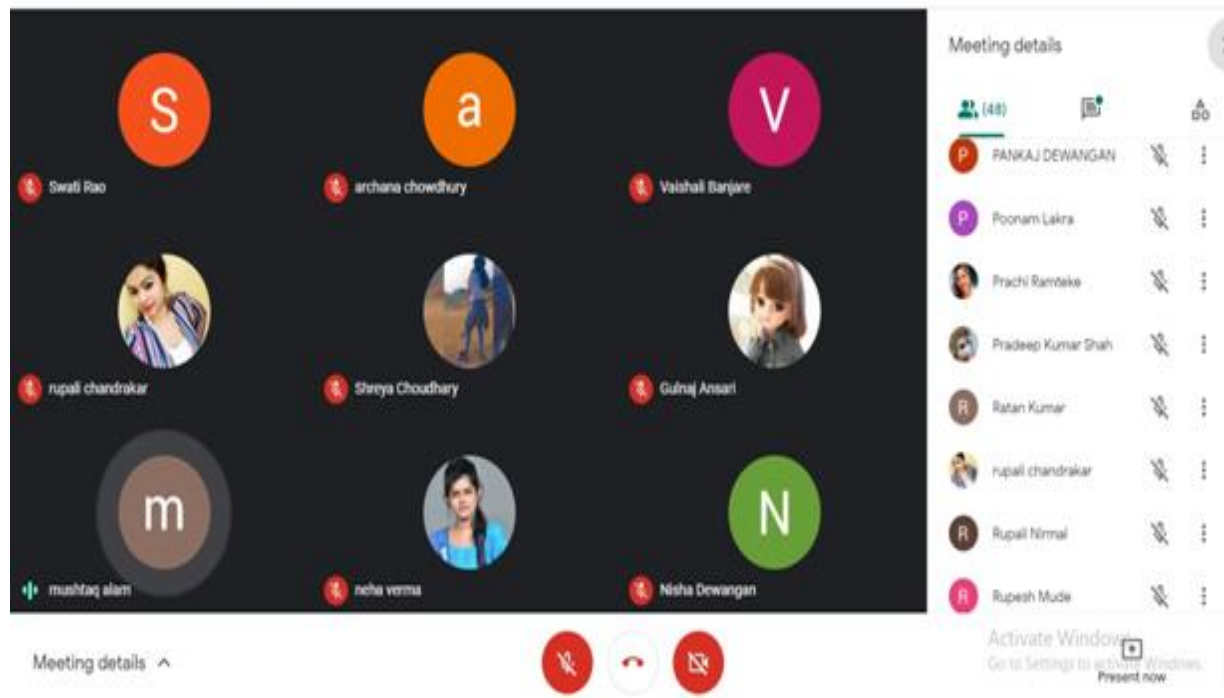
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## Photographs



**Criterion 1**

**Certificate Courses**



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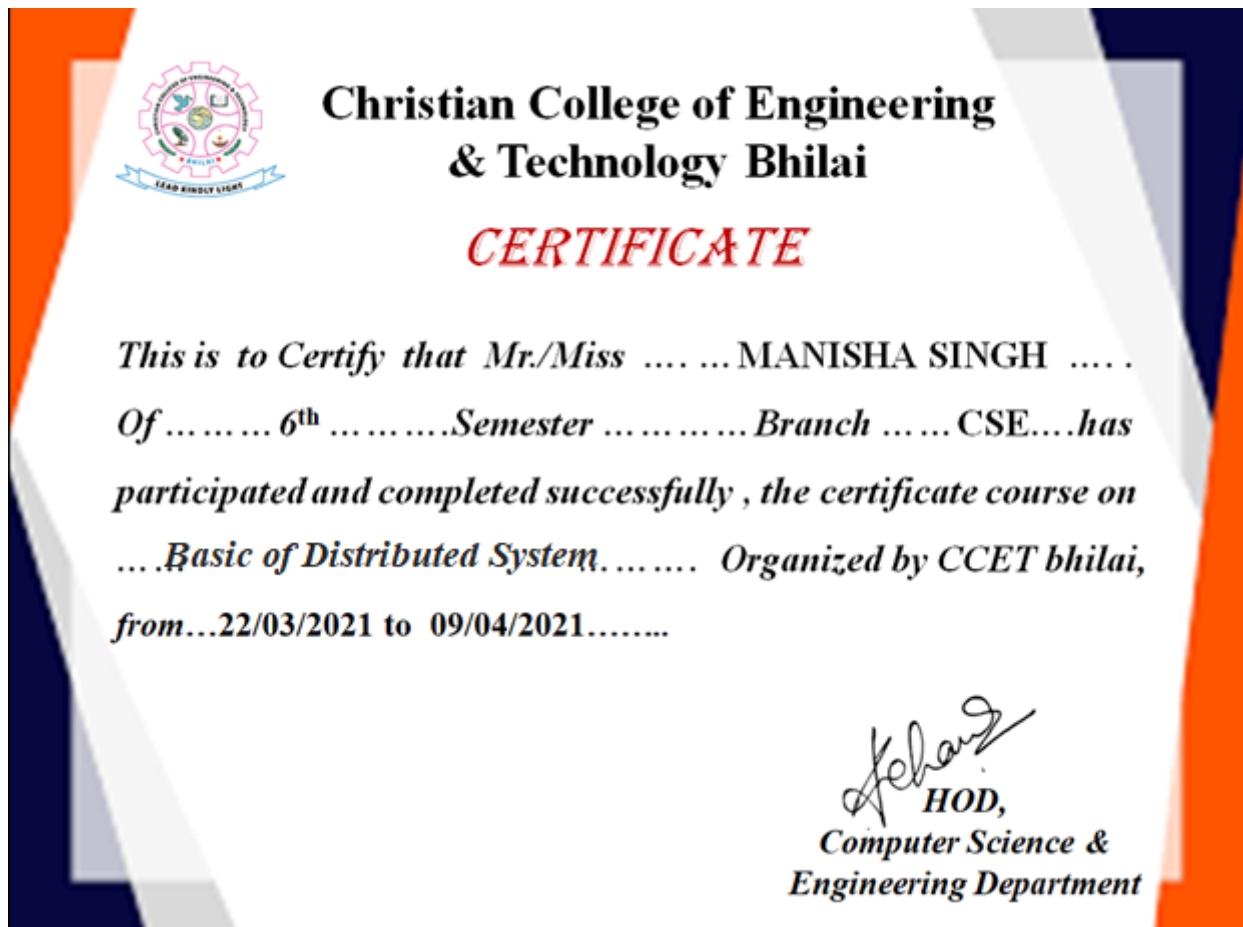
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## Sample of Certificate



**Criterion 1**

**Certificate Courses**



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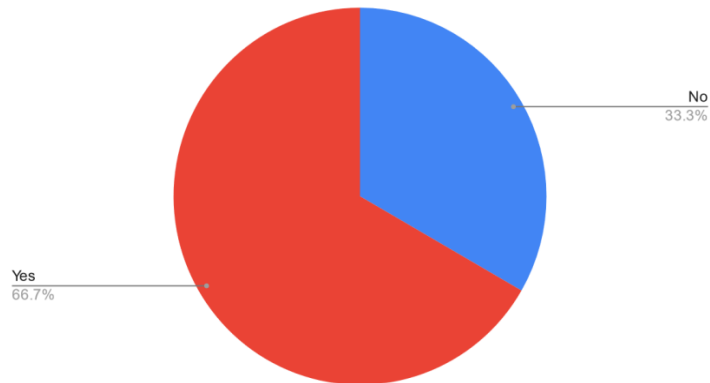
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**Feedback :**

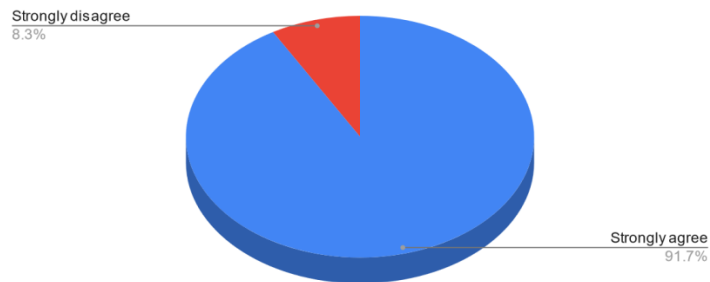
**Feedback Link :**

<https://forms.gle/EgBKHu8i4qVxYHCL6>

Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



**Criterion 1**

**Certificate Courses**



Established In 1998

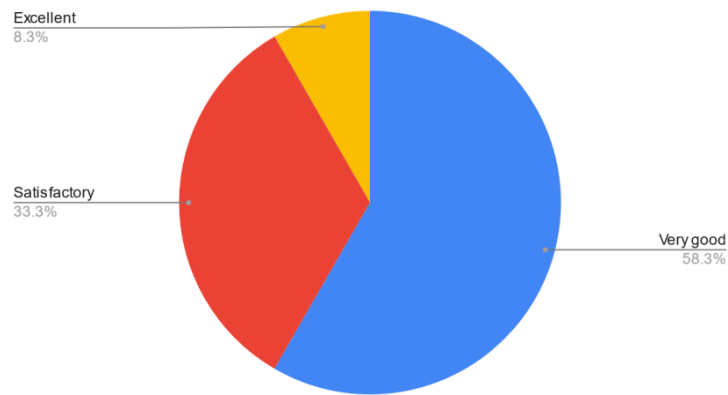
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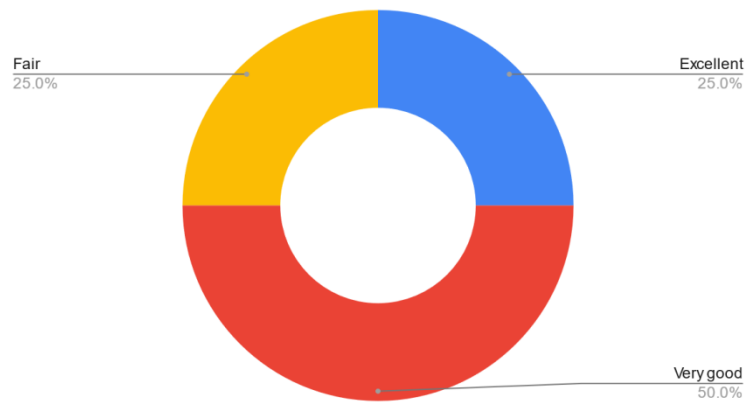
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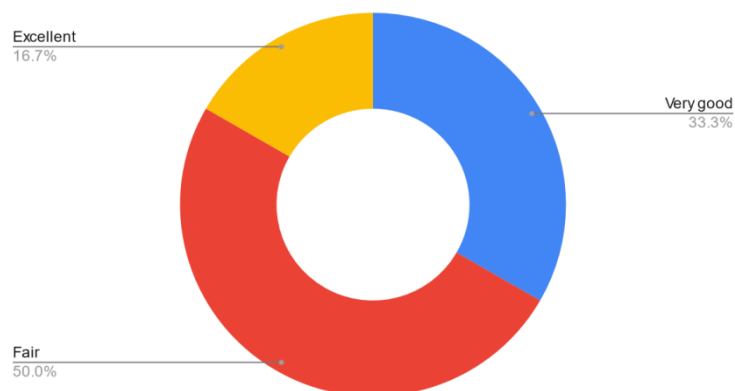
Count of Q.3. Contribution of lecture to your skill/knowledge



Count of Q.4 Time management by session speaker



Count of Q.5 Communication Skill of Speaker



**Criterion 1**

**Certificate Courses**



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**A**  
**Certificate Course**  
**On**  
**Basics of Fuzzy Logic**

**Report**

**Venue: Online mode (Google Meet)**

**Date: 23/08/2021 to 09/09/2021**

**Name of Resource person:**

**Ms. Lincy Mendonza**

**Criterion 1**

**Certificate Courses**





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## NOTICE

Date: 10/08/2021

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 10/08/2021, Time: 03:30 p.m. Venue: Online mode.

### **Agenda of the meeting:**

7. Finalization of Certificate Course
8. In-house (in case of unavailability of Expert) / External guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD  
Department of Computer Science &  
Engineering

### **Copy to:**

10. Principal
11. All Faculty members
12. IQAC

**Criterion 1**

**Certificate Courses**



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Date: 10/08/2021

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 10/08/2021, Time: 03:30 p.m. through Google meet. Discussion on following points has been done.

9. From the feedbacks received from students in the last semester, analyses were made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department.
10. It has been decided that a Certificate Course on **Basics of Fuzzy Logic** for 5<sup>th</sup> Semester students, will be conducted from 23.08.2021 to 09.09.2021 for 30 hours.
11. Time for classes conducted will be 4:30pm to 6:30pm.
12. Students of 3<sup>rd</sup> year studying in Computer Science & Engineering are eligible to attend the course.
13. Ms. Lincy Mendonza, Assistant Professor of Computer Science Engineering Department will be conducting the classes.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day in online mode.

HOD

Department of Computer Science &  
Engineering

### Copy to:

10. Principal
11. All Faculty members
12. IQAC

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 12/08/2021

All the students of 3<sup>rd</sup> of Computer Science & Engineering Branch are hereby informed that we are planning to conduct one certificate courses each of 2 hours each in online mode for **Basics of FuzzyLogic** from 23.08.2021 to 09.09.2021. No fee will be charged for the same. Students willing to participate may register your names to respective Class In charges earliest by 19.08.2021. **Ms. Lincy Mendonza** of Computer Science & Engineering Department will be conducting the classes.

HOD  
Department of Computer Science  
&Engineering

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## **Content to be covered during the session:**

### **5<sup>th</sup>Semster**

#### **Course Objective**

To introduce the students with the concepts of fuzzy logic.

#### **BASICS of FUZZY LOGIC**

- Introduction and Fuzzy Sets Theory
- Membership Functions
- Set Theoretic Operations
- Fuzzy Arithmetic
- Fuzzy Relations
- Fuzzy Inference Systems I
- Fuzzy Inference Systems II
- Fuzzifiers and Defuzzifiers
- Fuzzy Systems and Machine Learning

#### **Course Outcome**

Students will be able to understand the concepts of fuzzy set theory and membership function. They will be able to perform fuzzy arithmetic and operation on fuzzy relation. They will be able to understand the application of fuzzy logic in machine learning.

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## Attendance List

23<sup>rd</sup> August to 10<sup>th</sup> Sept 2021

5th Sem

Subject: - **BASICS of FUZZY LOGIC**

		<u>Attendance List</u>														
		23 <sup>rd</sup> August to 10 <sup>th</sup> Sept 2021														
		Subject: - <b>BASICS of FUZZY LOGIC</b>														
S.No	NAME	23/08/21	24/08/21	25/08/21	26/08/21	27/08/21	28/08/21	31/08/21	01/09/21	02/09/21	03/09/21	06/09/21	07/09/21	8/09/21	09/09/21	10/09/21
1	VIJAY RELWANI	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
2	RAHUL ANISH PRASAD	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
3	DEEPAK SONWANI	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P
4	DEVIKA THAKRE	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P
5	CHANCHALA YADAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	TIKESHWARI	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P
7	VANADA YADAV	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
8	VAISHALI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
9	LAXMI NIRMALKAR	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P
10	ARIMA TOPPO	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P
11	ARTI XALXO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	GULNAJ ANSARI	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P
13	JEEVAN	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P

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	BARA															
14	POONAM LAKRA	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
15	ROSHAN KUMAR SAHU	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
16	SHILANATH PRATAP SINGH	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
17	SHIVAM PANDEY	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
18	VIBHA	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
19	VINAY MINJ	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P

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## **Report on Certificate Course on BASICS of FUZZY LOGIC**

A Certificate Course on **Basics Of Fuzzy Logic** for 30 hours was arranged for the students of 5<sup>th</sup> Semester computer science & engineering from 23.08.2021 to 09.09.2021 in online mode. The sessions were conducted by Ms. Lincy Mendonza. The main objective of the course was to introduce the students with fuzzy logic concepts.

From the overall responses received from the students regarding the course, it has been analyzed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students were satisfied with the techniques used to impart knowledge.

No of Students Enrolled = 19

No of students attended = 19

**Criterion 1**

**Certificate Courses**



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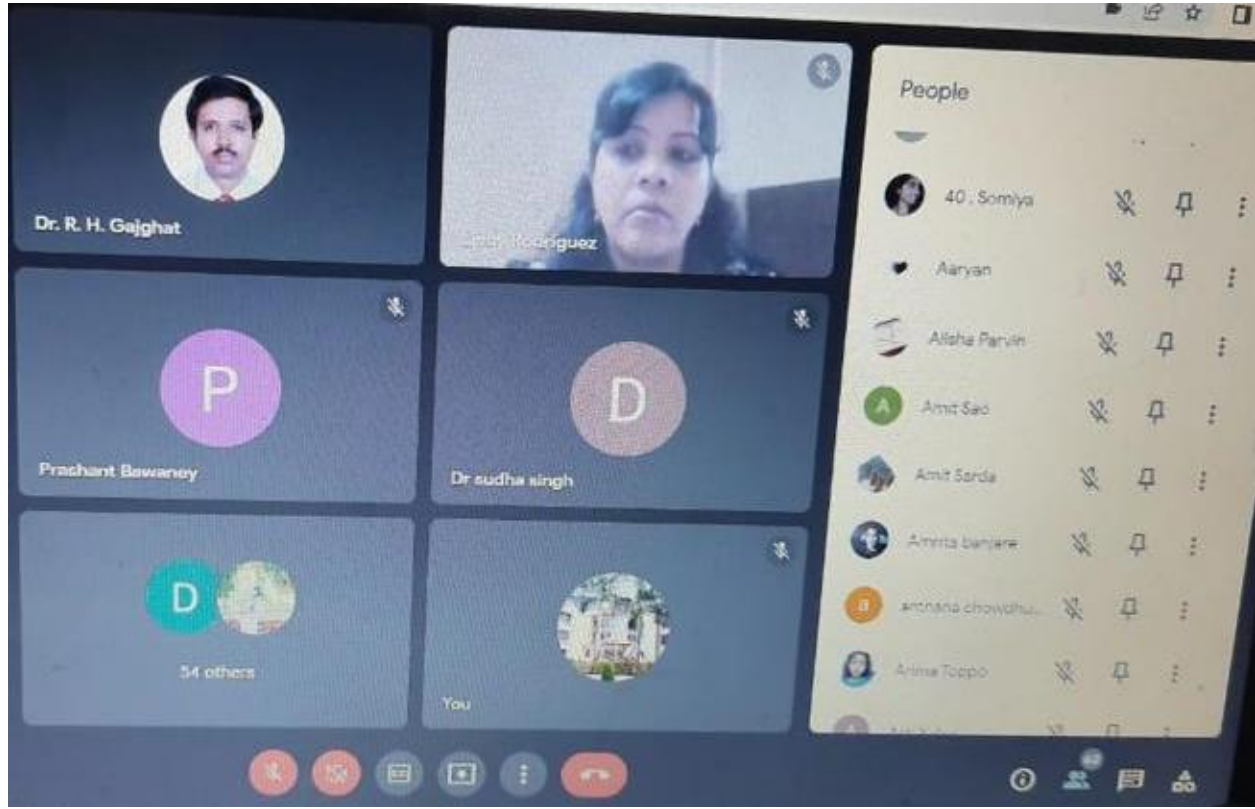
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## Photographs



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**Certificate Courses**





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## Sample of Certificate



**Criterion 1**

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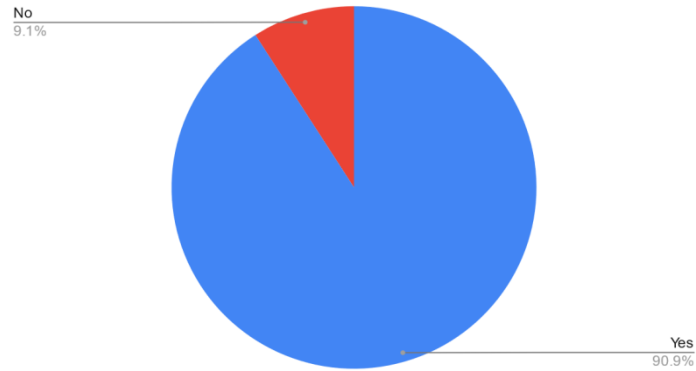
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**Feedback :**

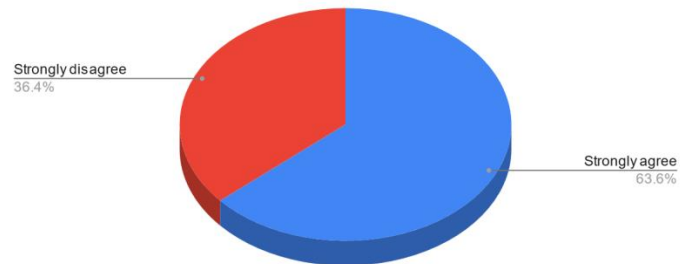
**Feedback Link :**

<https://forms.gle/EgBKHu8i4qVxYHCL6>

Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



**Criterion 1**

**Certificate Courses**



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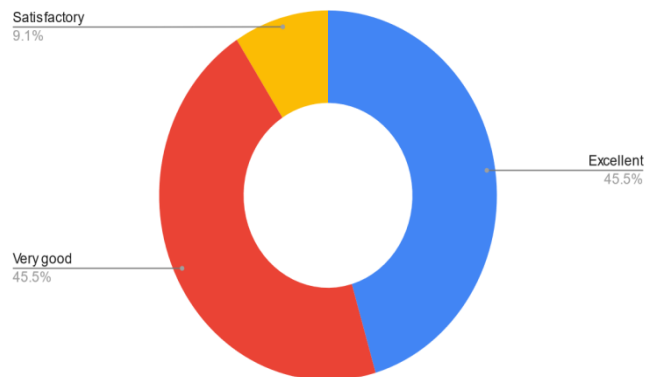
# CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY

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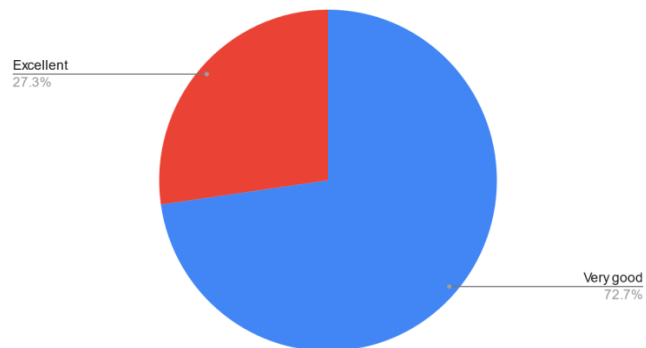
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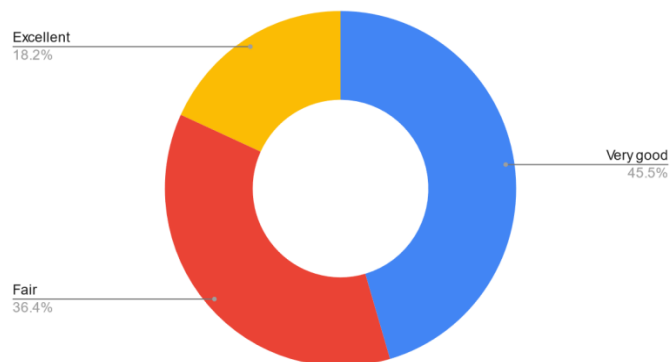
Count of Q.3. Contribution of lecture to your skill/knowledge



Count of Q.4 Time management by session speaker



Count of Q.5 Communication Skill of Speaker



**Criterion 1**

**Certificate Courses**



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**A**  
**Certificate Course**  
**On**  
**ANDROID MOBILE APPLICATION**  
**DEVELOPMENT**

**Report**

**Venue: CCET Bhilai**

**Date:21/03/2022 to 08/04/2022**

**Name of Resource person**

**Mr. Rupesh Mude**

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 08/03/2022

All the faculty members and non-teaching staff of the department are requested to attend departmental meeting on date: 08/03/2022, Time: 03:30 p.m. Venue: HOD Cabin

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD  
Department of Computer Science &  
Engineering

### **Copy to:**

- i Principal
- ii All Faculty members
- iii IQAC

**Criterion 1**

**Certificate Courses**



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Date: 08/03/2022

## Minutes of Meeting

A departmental meeting of teaching and non-teaching staff with HOD was held on date:08/03/2022, Time: 03:30 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Computer science &Engineering Department
2. It has been decided that a Certificate Course on Android Mobile Application Development for 4<sup>th</sup>semester students will be conducted from 21.03.2022 to 08.04.2022 for 30 hours.
3. Time for classes conducted will be 4:30pm to 6:30pm.
4. Students of 2<sup>nd</sup>year studying in Computer Science &Engineering are eligible to attend the course.
5. Mr. Rupesh MudeAssistant Professor of Computer Science Engineering Department will be conducting the classes.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab-1.

HOD

Department of Computer Science &  
Engineering

### Copy to:

- i Principal
- ii All Faculty members
- iii IQAC

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**Certificate Courses**



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## NOTICE

Date: 09/03/2022

All the students of 2<sup>nd</sup> year of Computer Science & Engineering Branch are hereby informed that we are planning to conduct one certificate course on **Android Mobile Application Development** from 21.03.2022 to 08.04.2022 for 2 hours. No fee will be charged for the same. Students willing to participate register your names to respective class In charges earliest by 16.03.2023, Mr. Rupesh Mude Assistant Professor of Computer Science & Engineering Department will be conducting the classes.

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## **Course Syllabus covered during the session:**

### **Course Objective**

To introduce the students with the concepts of developing Android Mobile Application.

### **4<sup>th</sup> Semester**

- Android Software Development, building a sample Android application using Android Studio.
- Android Project Structure, Android Manifest File and its common settingsActivities, Services, Intents.
- Permissions, Application resources
- Basic User Interface Screen elements, Designing User Interfaces with Layouts.
- Networking, Telephony and Location, Android Networking, Web and Telephony API.
- Search, Location and Mapping, Communication, Identity, Sync and social media.
- Sensor and Hardware Programming.
- Publishing Android Application.

### **Course Outcome**

The studentswill be able to Design and develop User Interfaces for the Android platform, They will also understand the concepts of Android manifests permissions and API contents

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## Attendance List

21<sup>st</sup> March to 8<sup>th</sup> April 2022

4<sup>th</sup> Sem

Subject : - Android Mobile Application Development

		CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY																
		Attendance List																
		21 <sup>st</sup> March to 8 <sup>th</sup> April 2022														4 <sup>th</sup> Sem		
		Subject : - Android Mobile Application Development																
S.No	NAME	31/03/22	22/03/22	23/03/22	24/03/22	25/03/22	26/03/22	29/03/22	30/03/22	31/03/22	01/04/22	04/04/22	05/04/22	06/04/22	07/04/22	08/04/22	Signature	
1	SOURABH CHAUDHARY	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	<i>Sourabh</i>	
2	TARUN KUMAR SINHA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	<i>Tarun</i>	
3	KARAN KUMAR BISEN	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	<i>Karan</i>	
4	PREETI JANGADE	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Preeti</i>	
5	NIDHI	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	<i>Nidhi</i>	
6	STUTI DAS	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	<i>Stuti Das</i>	
7	SAKET KUMAR	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	<i>Saket</i>	
8	ABHISHEK KUMAR	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	<i>Abhishek</i>	
9	AALOK KUMAR MUNDA	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	<i>Aalok</i>	
10	ALVIN SAM JACOB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Alvin</i>	
11	ASHISH SAINI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ashish</i>	
12	J AISLEEN SAHOTA	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	<i>Jaisleen</i>	
13	DURGA SONI	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	<i>Durga</i>	
14	YOGESH KUMAR SEN	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	<i>Yogesh</i>	
15	SAHIL KUMAR	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	<i>Sahil</i>	

**Criterion 1**

**Certificate Courses**



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YADAV																			
16	RAJNISH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rajesh</i>
17	MANASH DEWANGAN	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P			<i>Man</i>
18	AAKASH KASHYAP	P	P	P	P	P	P	P	P	P	P	A	P	P	P				<i>Aakash</i>
19	AAYUSHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			<i>Aayushi</i>
20	ARYAN GUPTA	P	P	P	P	P	P	P	P	P	P	P	A	P	P				<i>Ary</i>
21	ANGAD YADAV	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P			<i>Angad</i>
22	SANDEEP SIKDAR	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P			<i>Sandeep</i>
23	RAHUL SINGH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P			<i>Rahul</i>
24	NUTAN	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P			<i>Nutan</i>
25	NAVYA KUMAR RAM	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P			<i>Navya</i>
26	SUKHJEET SINGH HANS	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P			<i>Sukhjeet</i>
27	VISHWAPRATAP DAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			<i>Vish</i>
28	SULTANA KHATUN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			<i>Sultana</i>
29	AMAN NIKUNJ	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P			<i>Aman</i>
30	DHARMENDRA KUSHWAHA	P	P	P	A	P	P	P	P	P	P	P	P	A	P				<i>Dharma</i>
31	VIKAS SINGH YADAV	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P			<i>Vikas</i>

## Criterion 1

### Certificate Courses



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## **Report On “A Certificate Course On Android Mobile Application Development”**

“A Certificate Course on **Android Mobile Application Development(4<sup>th</sup>Semester )**” for 30 hours was arranged for the students of computer science & engineering from 21.03.2022 to 08.04.2022 at Lab 1. A total of 31 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Rupesh Mude. The main objective of the course was to introduce the students with Android Mobile Application Development.

From the overall responses received from the students regarding the course, it has been analyzed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of Android mobile application development.

No of Students Enrolled = 31

No of students attended = 31

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## Photographs (Off Line)



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## Sample of Certificate



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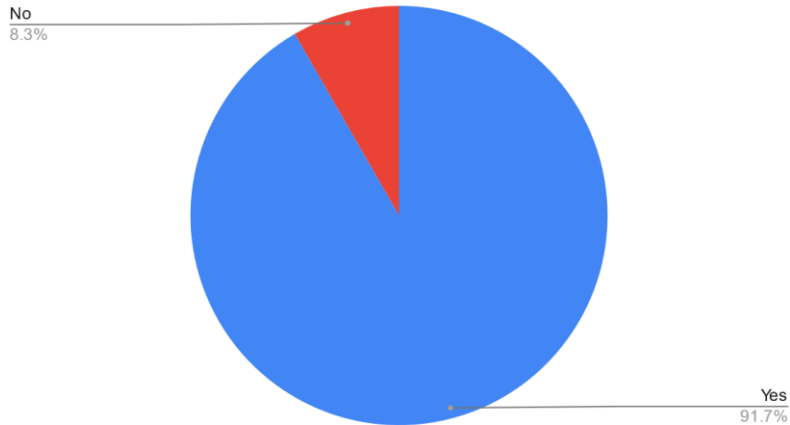
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**Feedback :**

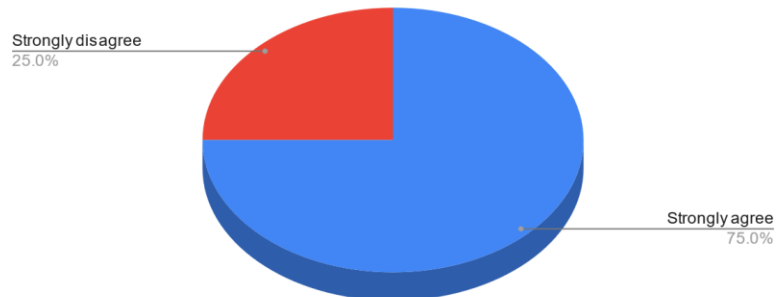
**Feedback Link :**

<https://forms.gle/EgBKHu8i4qVxYHCL6>

Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



**Criterion 1**

**Certificate Courses**



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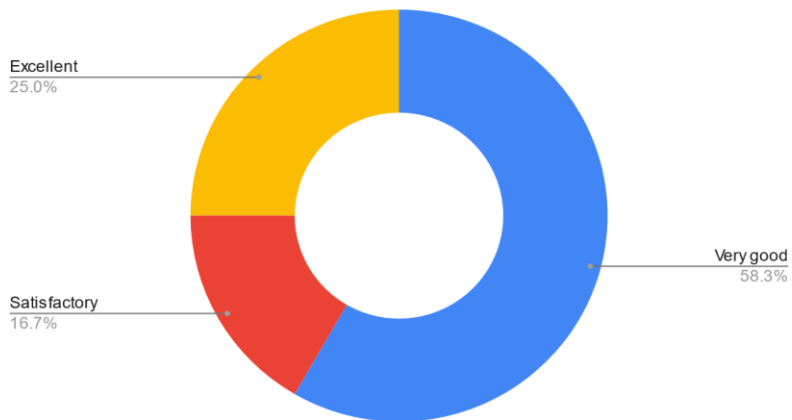
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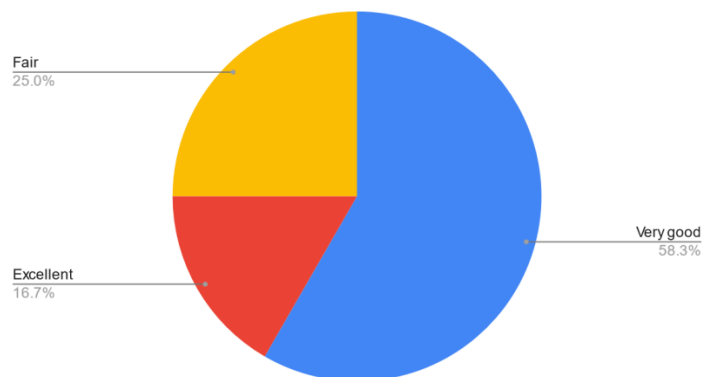
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Count of Q.3. Contribution of lecture to your skill/knowledge



Count of Q.4 Time management by session speaker



**Criterion 1**

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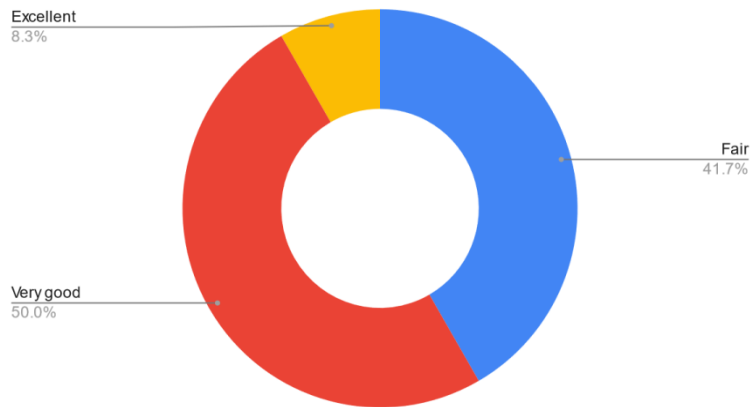
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Count of Q.5 Communication Skill of Speaker



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**A**  
**Certificate Course**  
**On**  
**ARDUINO PROGRAMMING**

**Report**

**Venue: CCET Bhilai**

**Date: 22/08/2022 to 13/09/2022**

**Name of Resource person:**

**Mr. Abid khan**

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 29/07/2022

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 01/08/2022, Time: 03:30 p.m. Venue: HOD Cabin

### **Agenda of the meeting:**

4. Finalization of Certificate Course.
5. In-house (in case of unavailability of expert) / external guest faculty or Agency Number of hours/days, Venue and Eligibility of Participants.

HOD

Department of Computer Science &  
Engineering

### **Copy to:**

- i Principal
- ii All Faculty members
- iii IQAC

**Criterion 1**

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Date: 01/08/2022

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 01/08/2022, Time: 03:30 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analyses were made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department.
2. It has been decided that a Certificate Course on **Arduino Programming** for 7<sup>th</sup> semester students will be conducted from 22.08.2022 to 13.09.2022 for 30 hours.
3. Time for classes conducted will be 4:30pm to 6:30pm.
4. Students of 4<sup>th</sup> year studying in Computer Science & Engineering are eligible to attend the course.
5. Mr. Abid Khan, Assistant Professor of Computer Science Engineering Department will be conducting the classes on Arduino Programming.
6. The course conducted will be free of cost.
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab -2.

HOD

Department of Computer Science &  
Engineering

### Copy to:

- i Principal
- ii All Faculty members
- iii IQAC

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## NOTICE

Date: 10/08/2022

All the students of 4<sup>th</sup> year of Computer Science & Engineering Branch are hereby informed that we are planning to conduct one certificate course each of 2 hours on **Arduino Programming** will be conducted from 22.08.2022 to 13.09.2022 for 2 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In charges earliest by 18.08.2022. Mr. Abid Khan, Assistant Professor of Computer Science & Engineering Department will be conducting the classes on Arduino Programming.

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Department of Computer Science  
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## **Content to be covered during the session:**

### **7<sup>th</sup>semester**

#### **Course Objective**

To introduce the students with the concepts of Arduino programming.

#### **Arduino Programming**

Overview of Arduino:

- Electronic components and connections
- Introduction to Arduino
- Arduino components and IDE
- First Arduino Program
- Arduino with Tricolor LED and Push button
  
- Arduino with LCD
- Display counter using Arduino
- Seven Segment Display
- Pulse Width Modulation
- Analog to Digital Conversion
- Wireless Connectivity to Arduino
- Introduction to IoT
- Sending data to the cloud using IoT devices
- Assembly of Robot
- Robot Control using Bluetooth
- Assembly programming through Arduino

#### **Course Outcome**

Students will be able to write programs for Arduino and understand application of Arduino to IOT and robot control.

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## Attendance List

22<sup>nd</sup> August to 13<sup>th</sup> Sep 2022

7<sup>th</sup> Sem

Subject: - Arduino Programming

		CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY															
		22 <sup>nd</sup> August to 13 <sup>th</sup> Sep 2022															7 <sup>th</sup> Sem
		Subject: - Arduino Programming															
S.No	NAME	22/08/22	23/08/22	24/08/22	25/08/22	26/08/22	29/08/22	30/08/22	01/09/22	02/09/22	05/09/22	06/09/22	07/09/22	12/09/22	13/09/22	Signature	
1	VIJAY RELWANI	P	P	P	A	P	P	P	P	P	P	P	P	A	P	Vijay	
2	RAHUL ANISH PRASAD	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Rahul	
3	DEEPAK SONWANI	P	P	P	A	P	P	P	P	P	P	P	P	P	A	Deevani	
4	DEVIKA THAKRE	P	P	P	P	P	A	P	P	P	P	P	P	P	A	Devika	
5	CHANCHALA YADAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chanchala	
6	TIKESHWARI	A	P	P	P	P	A	P	P	P	P	P	P	P	P	Tikeshwari	
7	VANADA YADAV	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Vanada	
8	VAISHALI	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Vaishali	
9	LAXMI NIRMALKAR	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Laxmi	
10	ARIMA TOPPO	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Arima	
11	ARTI XALXO	P	A	P	P	P	P	P	P	P	P	P	A	P	P	Arti	
12	GULNAJ ANSARI	P	P	P	A	P	P	P	P	P	P	P	A	P	P	Gulnaaj	
13	JEEVAN BARA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Jeevan	
14	POONAM LAKRA	P	P	P	A	P	P	P	P	P	P	P	P	A	P	Poonam	
15	ROSHAN KUMAR SAHU	P	P	P	P	P	A	P	P	P	P	P	P	A	P	Roshan	

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16	SHILANATH PRATAP SINGH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shilpa
17	SHIVAM PANDEY	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Shivam
18	VIBHA	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Vibha
19	VINAY MINJ	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Vinay

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## Reporton Certificate Course onArduino Programming”

A Certificate Course on7<sup>th</sup> Semester **Arduino Programming** for 30 hours was arranged for the students of computer science & engineering from 12.08.2022 to 13.09.2022 at Lab 2. The sessions were conducted by Mr.Abid khan. The main objective of the course was to introduce the students with Arduino programming concepts.

From the overall responses received from the students regarding the course, it has been analyzed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of Arduino Programming.

No of Students Enrolled = 19

No of students attended = 19

## Photographs



**Criterion 1**

**Certificate Courses**





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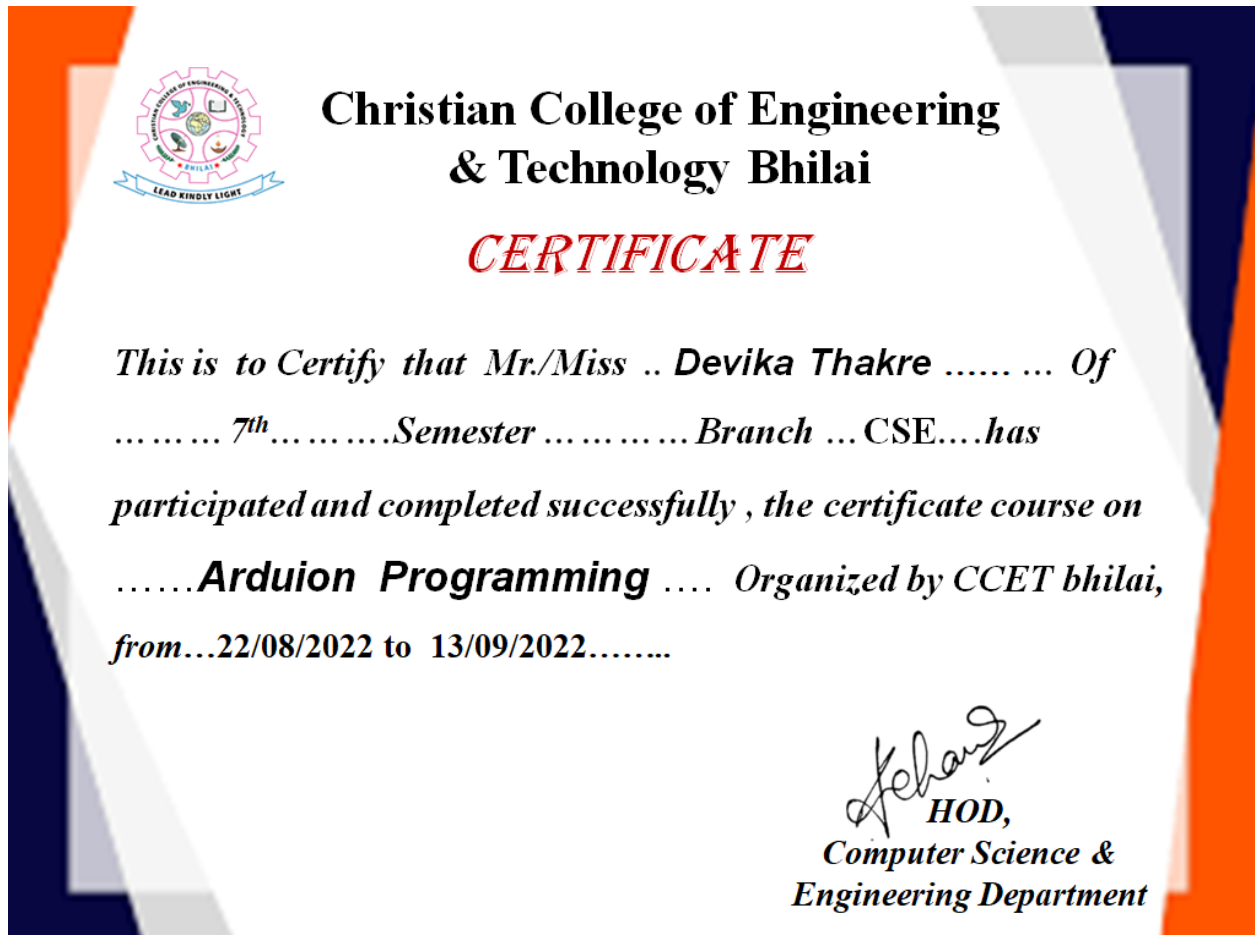
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## Sample of Certificate



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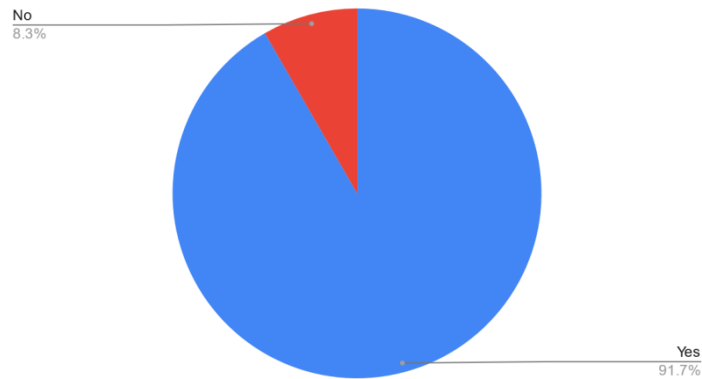
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## Feedback :

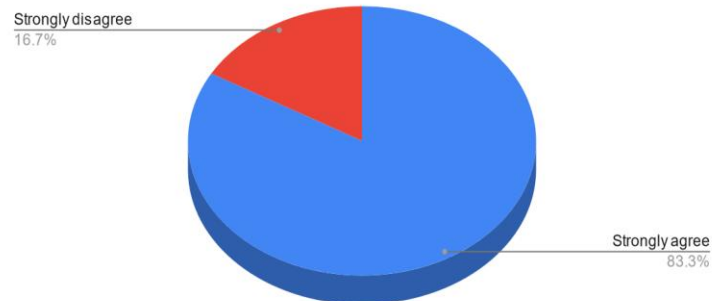
### Feedback Link :

<https://forms.gle/EgBKHu8i4qVxYHCL6>

Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



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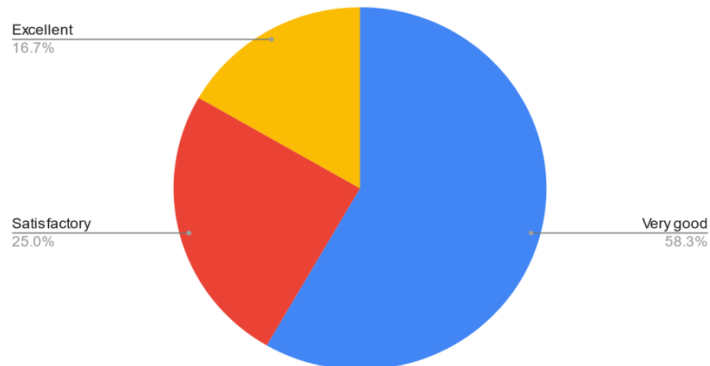
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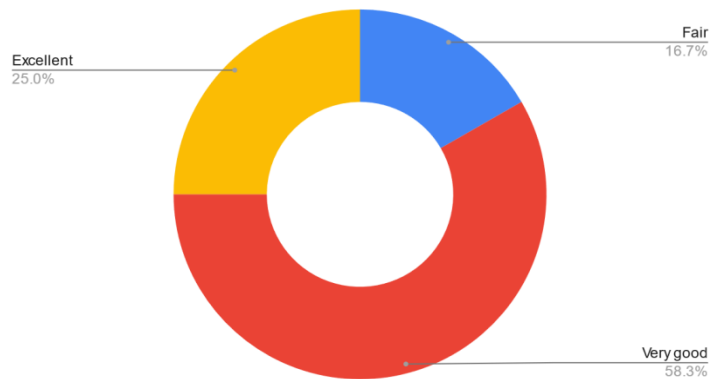
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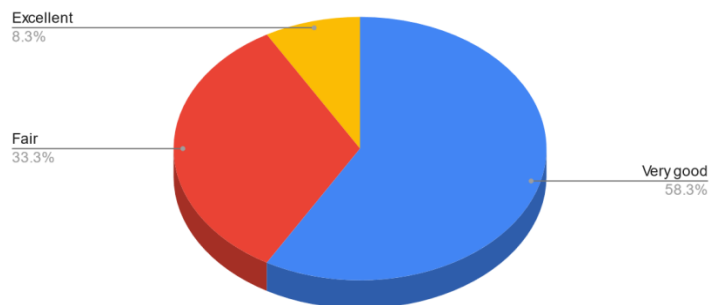
Count of Q.3. Contribution of lecture to your skill/knowledge



Count of Q.4 Time management by session speaker



Count of Q.5 Communication Skill of Speaker



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**A**  
**Certificate Course**  
**On**  
**NATURAL LANGUAGE PROCESSING**

**Report**

**Venue: CCET Bhilai**

**Date: 20/03/2023 to 12/04/2023**

**Name of Resource Person**

**Ms. Divyani**

**Criterion 1**

**Certificate Courses**



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## NOTICE

Date: 06/03/2023

All the faculty members and non-teaching staff of the department are requested to attend departmental meeting on date: 07/03/2023, Time: 03:30 p.m. Venue: HOD Cabin

### **Agenda of the meeting:**

- 1 Finalization of Certificate Course
- 2 In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Computer Science &  
Engineering

### **Copy to:**

- 1 Principal
- 2 All Faculty members
- 3 IQAC

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Date: 07/03/2023

## Minutes of Meeting

A departmental meeting of teaching and non-teaching staff with HOD was held on date: 07/03/2023, Time: 03:30 p.m. Venue: HOD Cabin. Discussion on following points has been done.

- 1 From the feedbacks received from students in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Computer science & Engineering Department
- 2 It has been decided that a Certificate Course on Natural Language Processing (NLP) for 6<sup>th</sup> semester will be conducted from 20.03.2023 to 12.04.2023 for 30 hours.
- 3 Time for classes conducted will be 4:30 pm to 6:30 pm.
- 4 Students of 3<sup>rd</sup> year studying in Computer Science & Engineering are eligible to attend the course.
- 5 Divyani Assistant Professor of Computer Science Engineering Department will be conducting the classes.
- 6 The course conducted will be free of cost.
- 7 The course will be conducted for 2 hours every day after college working hours.
- 8 Venue for the course conduction is Computer Lab 1.

HOD

Department of Computer Science &  
Engineering

### Copy to:

- 1 Principal
- 2 All Faculty members
- 3 IQAC

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## NOTICE

Date: 10/03/2023

All the students of 3<sup>rd</sup> year of Computer Science & Engineering Branch are hereby informed that we are planning to conduct one certificate course on Natural Language Processing (NLP) will be conducted from 20.03.2023 to 12.04.2023 for 2 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In charges earliest by 17.03.2023. Divyani Assistant Professor of Computer Science & Engineering Department will be conducting the classes.

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## **Course Syllabus covered during the session:**

### **6<sup>th</sup> Semester**

#### **Course Objective**

To introduce the students with the concepts of natural language processing.

#### **Natural Language Processing**

- Introduction and Basic Text Processing
- Spelling Correction, Language Modeling
- Advanced smoothing for language modeling, POS tagging
- Models for Sequential tagging – MaxEnt, CRF
- Syntax – Constituency Parsing
- Dependency Parsing
- Distributional Semantics
- Lexical Semantics
- Topic Models
- Entity Linking, Information Extraction
- Text Summarization, Text Classification
- Sentiment Analysis and Opinion Mining

#### **Course Outcome**

The student will be able to understand approaches to syntax and semantics in NLP. They will be able to understand about text summarization, text classification, sentiment analysis and opinion mining.

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## Attendance List

20<sup>th</sup> March to 12<sup>th</sup> April 2023

6<sup>th</sup>Sem

Subject : - Natural Learning Processing

		CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY														
		<u>Attendance List</u>														
		20 <sup>th</sup> March to 12 <sup>th</sup> April 2023														6 <sup>th</sup> Sem
		Subject : - Natural Learning Processing														
S.No	NAME	20/03/23	21/03/23	22/03/23	24/03/23	27/03/23	28/03/23	29/03/23	31/03/23	3/04/23	5/04/23	6/04/23	8/04/23	11/04/23	12/04/23	Signature
1	SOURABH CHOUDHARY	P	P	P	A	P	P	P	P	P	P	P	P	A	P	<i>Sourabh</i>
2	TARUN KUMAR SINHA	A	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Tarun</i>
3	KARAN KUMAR BISEN	P	P	P	P	P	P	P	A	P	P	P	P	P	A	<i>Karan</i>
4	PREETI JANGADE	P	P	P	A	P	P	P	P	P	P	P	P	A	P	<i>Preeti</i>
5	NIDHI	A	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nidhi</i>
6	STUTI DAS	P	P	P	P	P	P	P	A	P	P	P	P	P	A	<i>Stuti Das</i>
7	SAKET KUMAR	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Saket</i>
8	ABHISHEK KUMAR	P	P	P	P	P	P	P	P	P	A	P	P	P	P	<i>Abhishek</i>
9	AALOK KUMAR MUNDA	P	P	P	A	P	P	P	P	P	A	P	P	P	P	<i>Aalok</i>
10	ALVIN SAM JACOB	P	P	P	P	P	A	P	P	P	P	P	P	P	P	<i>Alvin</i>
11	ASHISH SAINI	P	P	P	P	P	P	A	P	P	P	P	A	P	P	<i>Ashish</i>
12	JAISLEEN SAHOTA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Jaisleen</i>
13	DURGA SONI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	<i>Durga</i>
14	YOGESH KUMAR SEN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Yogesh</i>
15	SAHIL KUMAR YADAV	P	P	P	A	P	P	P	P	P	A	P	P	P	P	<i>Sahil</i>

**Criterion 1**

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## CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY

16	RAJNISH KUMAR	P	P	P	A	P	P	P	P	P	P	P	P	A	P	Rajnish
17	MANASH DEWANGAN	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Manash
18	AAKASH KASHYAP	P	P	P	P	P	P	P	A	P	P	P	P	P	A	Aakash
19	AAYUSHI	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Aayushi
20	ARYAN GUPTA	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Aryan
21	ANGAD YADAV	P	P	P	A	P	P	P	P	P	A	P	P	P	P	Angad
22	SANDEEP SIKDAR	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Sandeep
23	RAHUL SINGH	P	P	P	P	P	P	A	P	P	P	P	A	P	P	Rahul
24	NUTAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Nutan
25	NAVYA KUMAR RAM	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Navya
26	SUKHJEET SINGH HANS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sukhjeet
27	VISHWAPRATAP DAS	P	P	P	A	P	P	P	P	P	A	P	P	P	P	Vishwapratap
28	SULTANA KHATUN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sultana
29	AMAN NIKUNJ	P	P	P	P	A	P	P	P	P	P	P	P	P	A	Aman
30	DHARMENDRA KUSHWAHA	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Dharmendra
31	VIKAS SINGH YADAV	P	P	P	A	P	P	P	P	P	P	P	P	A	P	Vikas

### Criterion 1

### Certificate Courses



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## **Report On “A Certificate Course On Natural Language Processing (NLP) “**

“A Certificate Course on **Natural Language Processing (NLP) 6<sup>th</sup>**” for 30 hours was arranged for the students of computer science & engineering from 20.03.2023 to 12.04.2023 at Lab-1. A total of 31 students enrolled themselves for the course and participated in the program. The sessions were conducted by Ms. Divyani . The main objective of the course was to introduce the students with natural language processing concepts .

From the overall responses received from the students regarding the course, it has been analyzed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of natural language Processing.

No of Students Enrolled = 31

No of students attended = 31

**Criterion 1**

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## Photographs



**Criterion 1**

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## Sample of Certificate



**Feedback :**

**Feedback Link :**

<https://forms.gle/EgBKHu8i4qVxYHCL6>

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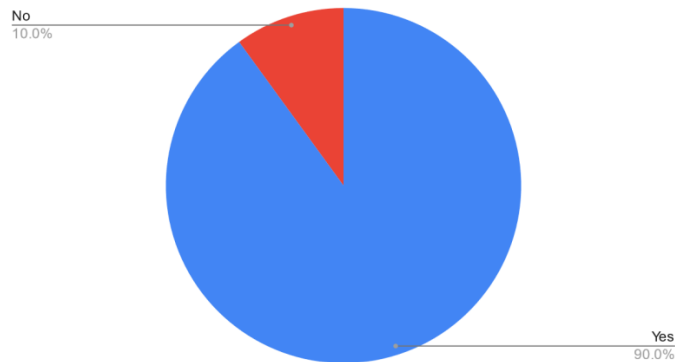
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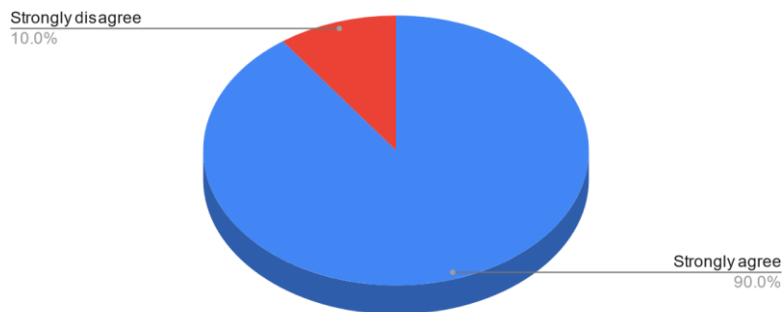
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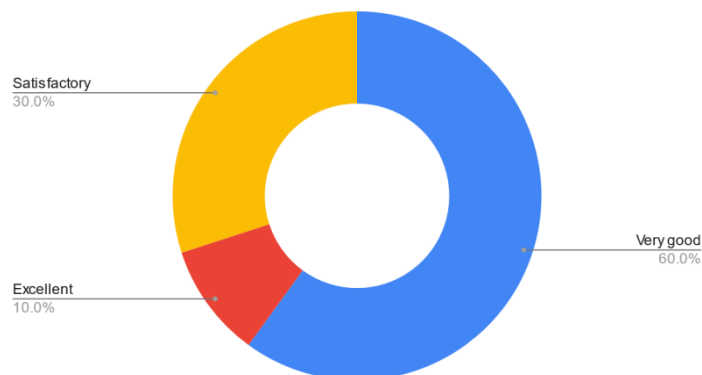
Count of Q1. Were objectives of the sessions clear to you?



Count of Q2. The session exposed you to new knowledge and practices.



Count of Q.3. Contribution of lecture to your skill/knowledge



**Criterion 1**

**Certificate Courses**



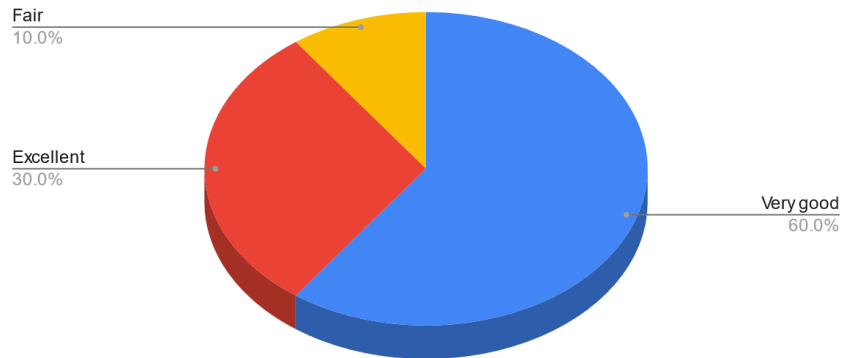
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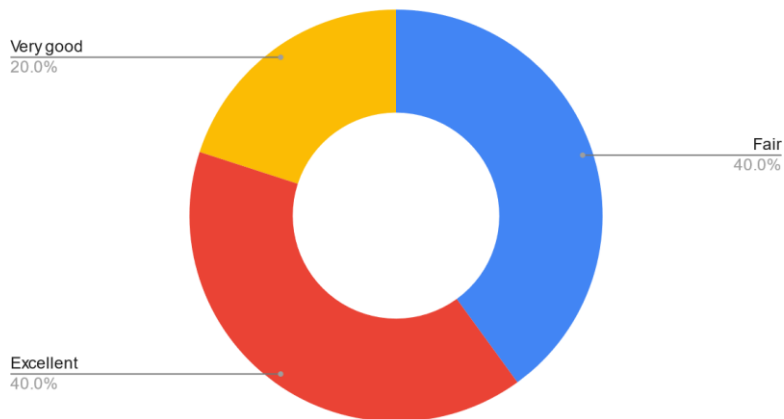
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Count of Q.4 Time management by session speaker



Count of Q.5 Communication Skill of Speaker



**Criterion 1**

**Certificate Courses**



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**Certificate/Value added Courses**

**Department of Electrical Engineering**

**Criterion 1**

**Certificate Programs**





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## INDEX

SN	Academic Session	Department	Topic	Resource Person	Duration
1	2018-2019	Electrical	Control System Design	Mr. M. Biswal	27/08/2018 to 14/09/2018
2	2018-2019	Electrical	Architectural Design Of Digital Integrated Circuits	Mr. Devendra Sahu	25/03/2019 to 12/04/2019
3	2019-2020	Electrical	Advanced Microwave Guided-Structures And Analysis	Mr. S.R. Dewangan	26/08/2019 to 19/09/2019
4	2019-2020	Electrical	Advanced Linear Continuous Control Systems: Applications With MATLAB Programming And Simulink	Mr. B. Sridhar	23/03/2020 to 10/04/2020
5	2020-2021	Electrical	Advanced Topics In Probability and Random Processes	Mr.Pramod Baghmar	24/08/2020 to 11/09/2020
6	2020-2021	Electrical	PLC programming from Scratch	Mrs.Saumya Singh	22/03/2021 to 09/04/2021
7	2021-2022	Electrical	Automation of Industrial Control Process	Mr.Prashant Bawney	23/08/2021 to 10/09/2021
7	2021-2022	Electrical	DSP using MATLAB	Mr.Ashish Dewangan	21/03/2022 to 08/04/2022
8	2022-2023	Electrical	Advanced Programming Paradigms in PLC	Mr. Akash Dewangan	22/08/2022 to 13/09/2022
9	2022-2023	Electrical	MATLAB using Object Concepts	Ms. Richa Sahu	20/03/2023 to 12/04/2023

**Criterion 1****Certificate Programs**



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**A**  
**Certificate Course**  
**On**  
**Control System Design**  
**Report**

**Venue : CCET Bhilai**

**Date: 27/08/2018 to 14/09/2018**

**Name of resource person: Mr. M. Biswal**

**Criterion 1**

**Certificate Programs**



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## NOTICE

Date: 02/08/2018

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 02/08/2018, Time: 01:00 p.m.  
Venue: HOD Cabin

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of availability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

1. Principal
2. All Faculty members
3. IQAC

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**Certificate Programs**



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Date: 03/08/2018

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 03/08/2018, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. It has been decided that a Certificate Course on Control System Design will be conducted from 27/08/2018 to 14/09/2018 for 30 hours.
2. Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course
3. The title of the course will be Automation of Industrial Control Process
4. Mr. M. Biswal, Assistant Professor of Electrical Engineering Department will be conducting the classes
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day after regular classes .
7. Venue for the course is Computer Lab.

HOD

Department of Electrical Engineering

### Copy to:

1. Principal
2. All Faculty members
3. IQAC

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## NOTICE

Date: 10/08/2018

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Engineering Branch are hereby informed that we are planning to conduct a certificate course on Control System Design will be conducted from 27/08/2018 to 14/09/2018 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 25.08.2018.

HOD

Department of Electrical Engineering

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## **Course Objective:**

The course exposes students to control design for continuous-time linear time-invariant (LTI) systems. The course focuses primarily on using Laplace and frequency-domain techniques. It discusses design of 1-degree of freedom (i.e., single controller) and 2-degree of freedom control systems for Single Input-Single Output (SISO) plants, using a range of tools including Nyquist plots, Bode plots, Evans plots (root locus), and Nichols plots. It also discusses the fundamental limits associated with control design and the related trade-offs that need to be made during design.

## **Course Syllabus:**

- Linear system theory
- Fourier and Laplace transforms,
- Transfer functions Fundamentals of feedback control
- Nyquist stability theory Bode plots
- Design of 1-degree of freedom control systems
- Robust control Quantitative Feedback Theory
- Quantitative Feedback Theory
- Bode sensitivity integral
- Bode Gain-Phase relationship
- Ideal Bode Characteristic
- Control of non-minimum phase systems
- Control of unstable systems
- Describing functions

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- Solved examples

### **Course Outcomes:**

- Learn Linear system theory, Fourier and Laplace transforms, Nyquist stability theory Bode plots.
- To design  $n$ -degree of freedom control systems, Robust control Quantitative Feedback Theory, Quantitative Feedback Theory
- To analyse Bode sensitivity integral, Bode Gain-Phase relationship, Ideal Bode Characteristic
- Learn Control of unstable systems and Describing functions

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## Enrolment List

S/NO.	Enroll No.	Name of Student
1	BA0095	AATIFA FATIMA
2	BA1785	AWINT KUJUR
3	BA2732	BHUPENDRA KUMAR DEWANGAN
4	BA3259	DEEPALI SAHU
5	BB5592	DIVYA SUNA
6	BB6487	RAHUL KUMAR CHOUDHARY
7	BA9523	RITESH KUMAR
8	BB1868	SANDHYA SAH
9	BB2161	VARGHESE EKKA
10	BA0095	VINAY KUMAR SINGH

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## Attendance List

S.No	ENROLL NO.	NAME	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	Day 24	Day 25	Signature
1	BA0095	AATIFA FATIMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Atifa
2	BA1785	AWINT KUJUR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amir
3	BA2732	BHUPEN DRA KUMAR DEWANGAN	P	P	P	P	A	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	A
4	BA3259	DEEPALI SAHU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepali
5	BB5592	DIVYA SUNA	P	P	P	P	A	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	Divya
6	BB6487	RAHUL KUMAR CHOUDHARY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Rahul
7	BA9523	RITESH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ritesh
8	BB1868	SANDHYA SAH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sandhya
9	BB2161	VARGHESE EKKA	P	P	P	P	A	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	Varghese
10	BA0095	VINAY KUMAR SINGH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Vinay

### Criterion 1

## Certificate Programs



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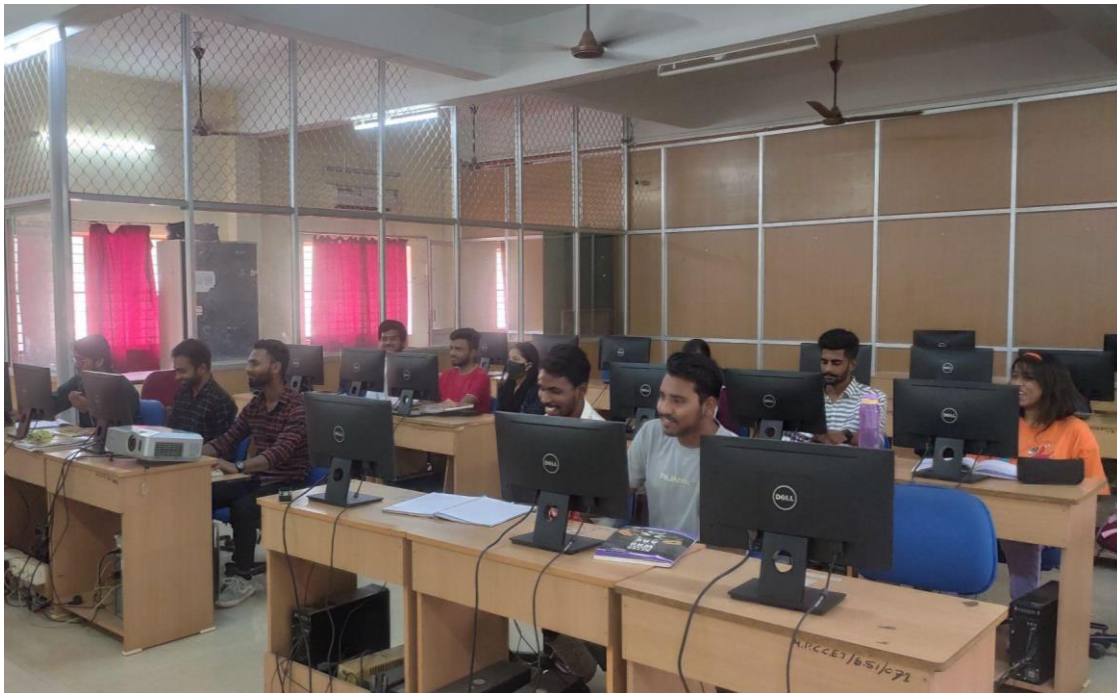
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## **Report On “A certificate course on Control system design”:**

“A Certificate Course on Control system design” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 27/08/2018 to 14/09/2018. A total of 10 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. M. Biswal, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about Control system design.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be organised in the institution.

## **Photographs**



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## Sample of Certificate

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<b>CERTIFICATE OF APPRECIATION</b>		
THIS IS TO CERTIFY THAT MR/MS. <u>Rahul Kumar Choudhary</u> OF <u>7th</u> SEMESTER, BRANCH <u>Electrical Engineering</u> HAVE PARTICIPATED AND SUCCESSFULLY COMPLETED THE CERTIFICATE COURSE ON <u>Control System Design</u> ORGANISED BY ELECTRICAL ENGINEERING DEPARTMENT at CCET BHILAI FROM <u>27/08/2018</u> to <u>14/09/2018</u>		
HOD ELECTRICAL	PRINCIPAL	
	<b>DEPARTMENT OF ELECTRICAL ENGINEERING</b>	

**Criterion 1**

**Certificate Programs**



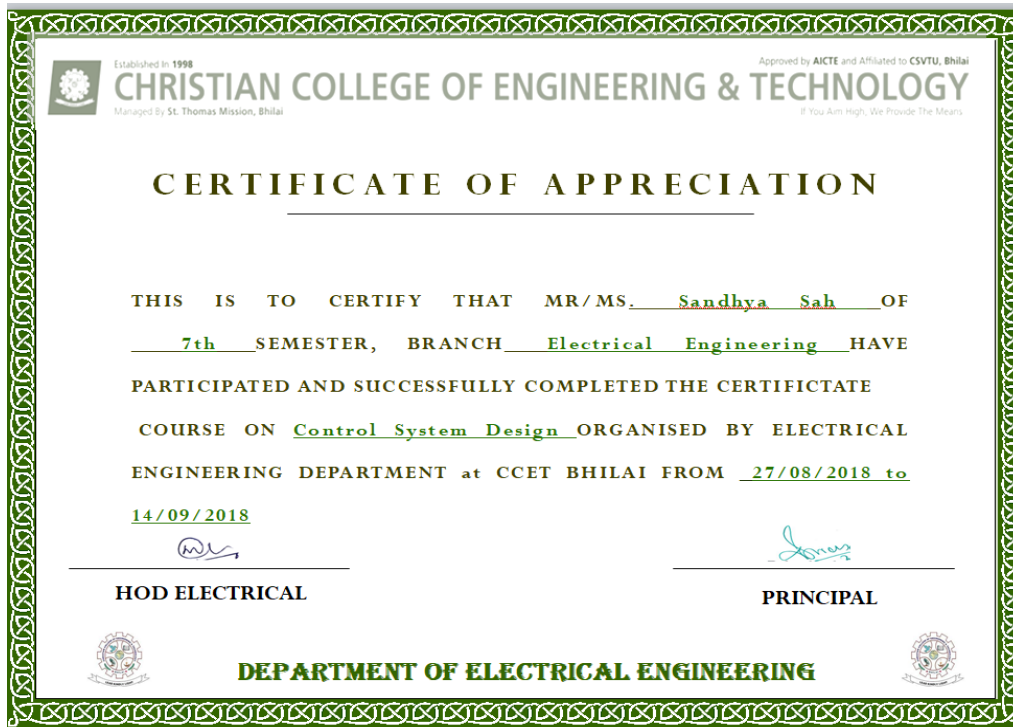
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## **Feedback:**

Feedback link:

<https://forms.gle/zJf59H9uXUatQyba7>

Count of Q.1 Where objectives of the session clear to you? ⋮



**Criterion 1**

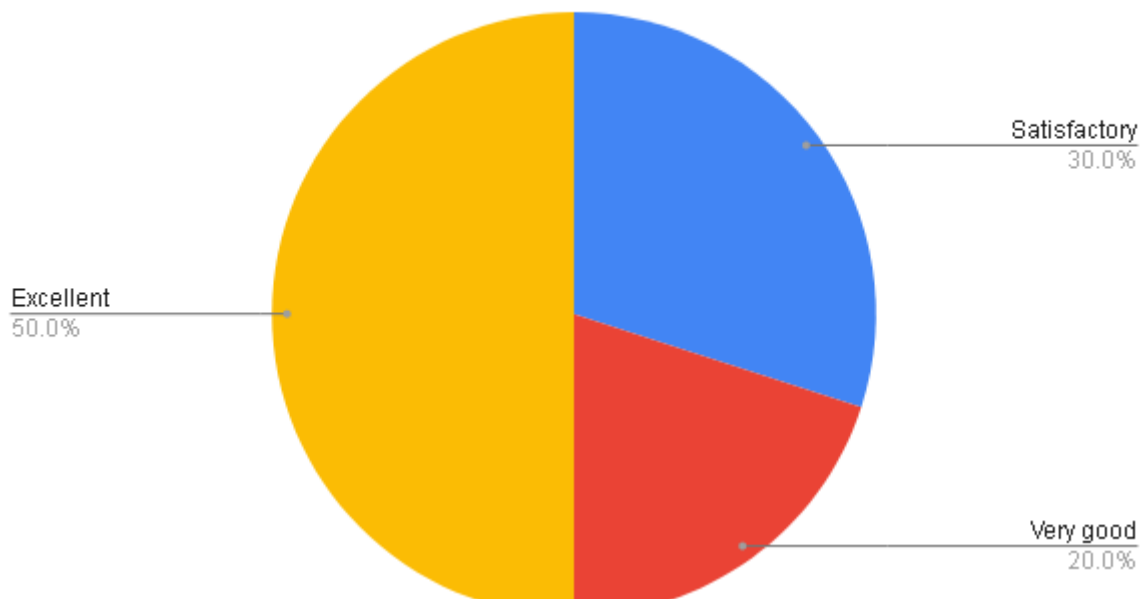
**Certificate Programs**



Count of Q.2 The session exposed you to new knowledge and practices. ⋮



Count of Q.3 Contribution of lecture to your skill/knowledge. ⋮

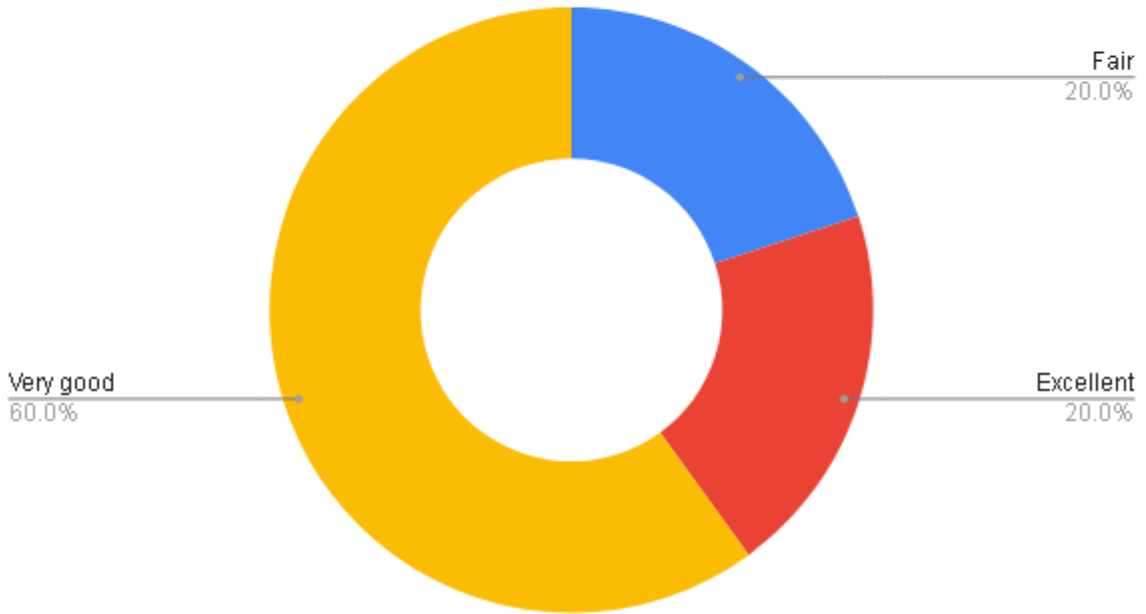


**Criterion 1**

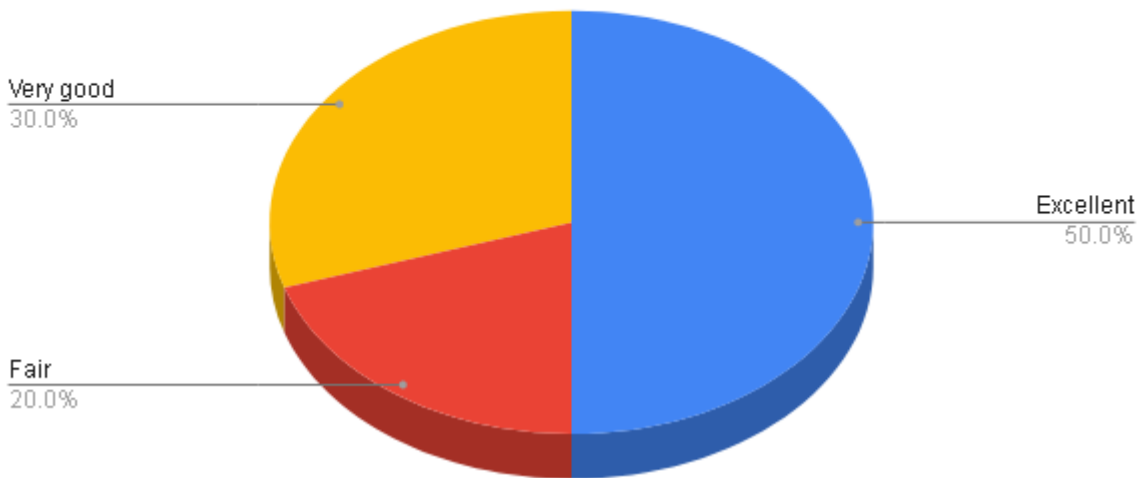
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### Count of Q.4 Time management by session speaker.



### Count of Q.5 Communication Skill of Speaker.



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**A**  
**Certificate Course**  
**On**  
**Architectural Design Of Digital**  
**Integrated Circuits**  
**Report**

**Venue : CCET Bhilai**

**Date: 25/03/2019 to 12/04/2019**

**Name of resource person: Mr.Devendra Sahu**

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## NOTICE

Date: 04/03/2019

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 04/03/2019, Time: 01:00 p.m.  
Venue: HOD Cabin

### **Agenda of the meeting:**

3. Finalization of Certificate Course
4. In-house (in case of availability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

4. Principal
5. All Faculty members
6. IQAC

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Date: 05/03/2019

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 05/03/2019, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

8. It has been decided that a Certificate Course on Architectural Design Of Digital Integrated Circuits will be conducted from 25/03/2019 to 12/04/2019 for 30 hours.
9. Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course
10. The title of the course will be Automation of Industrial Control Process
11. Mr. Devendra Sahu, Assistant Professor of Electrical Engineering Department will be conducting the classes
12. The course conducted will be free of cost
13. The course will be conducted for 2 hours every day after regular classes
14. Venue for the course is Computer Lab.

HOD

Department of Electrical Engineering

### Copy to:

4. Principal
5. All Faculty members
6. IQAC

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## NOTICE

Date: 10/03/2019

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Engineering Branch are hereby informed that we are planning to conduct a certificate course Architectural Design Of Digital Integrated Circuits from 25/03/2019 to 12/04/2019 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 25.03.2019.

HOD

Department of Electrical Engineering

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## **Course Objective:**

Digital arithmetic plays an important role in the design of general-purpose digital processors and of embedded systems for signal processing, graphics, and communications. In spite of a mature body of knowledge in digital arithmetic, each new generation of processors or digital systems creates new arithmetic design problems. Designers, researchers, and graduate students will find solid solutions to these problems in this course. This course explains the fundamental principles of algorithms available for performing arithmetic operations on digital computers. These include basic arithmetic operations like addition, subtraction, multiplication, and division in fixed-point and floating-point number systems as well as more complex operations such as square root extraction and evaluation of exponential, logarithmic, and trigonometric functions. The algorithms described are independent of the particular technology employed for their implementation.

## **Course Syllabus:**

- Efficient technique/s for Algorithm to Architecture Mapping
- Recent Trends on Adder/Subtractor Design
- Recent Trends on Multiplier/Divider Design
- Efficient VLSI Architectures for Various DSP blocks (FIR filter, CORDIC, FFT etc)
- Fundamentals of Efficient Design and Implementation strategies of Digital VLSI Design (Clock Tree synthesis, Timing Closure, Synthesis)
- Static Timing Analysis
- Clock Skew
- VLSI Interview FAQs
- Tips and tricks for Digital VLSI based IC design

## **Course Outcomes:**

- Learn techniques for algorithms
- Learn trends on Adder/Subtractor Design and Multiplier/Divider Design.
- Learn VLSI Architectures for Various DSP blocks.
- Basic trends in Static Timing Analysis, Clock Skew, VLSI Interview FAQs, Tips and tricks for Digital VLSI based IC design

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<b><u>Enrolment List</u></b>	<b>Enroll No.</b>	<b>Name of Student</b>
1	AQ9932	AASIFA RUKHSAR
2	AQ9936	AJAY KUMAR DHRITLAHARE
3	AQ9939	AMIT GABHEL
4	AQ9943	ANIL KUMAR KUSHWAHA
5	AQ9947	ANJALI DUBEY
6	AQ9949	ANJALI SAO
7	AQ9974	HIMANSHU VERMA
8	AQ9978	JESTIN E.JOSEPH
9	AQ9981	KANCHAN YADAV
10	AQ9983	KAUSHAL PRASAD
11	AQ9990	KUSUM SAHU
12	AQ9993	LEKHENDRA DHIWAR
13	AR0002	NEHA KUSHWAHA
14	AR0005	NISHI DEWANGAN
15	AR0006	NITESH KUMAR SINGH

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16	AR0011	NITISH KUMAR DEWANGAN
17	AR0014	PRAKASH CHANDRA SAYTONDAY
18	AR0016	PRAKHAR SAHU
19	AR0020	PRAMOD KUMAR SONI
20	AR0021	RAHUL KUMAR CHOUHAN
21	AR0029	REVATI
22	AR0031	SAMARTH SHARMA
23	AR0035	SAMRIDDHI KASHYAP
24	AR0037	SANGAM PATRA
25	AR0041	SHARON NAG

**Criterion 1**

**Certificate Programs**

**Attendance List**

S.No.	ENROLL NO.	NAME	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	Day 24	Day 25	
1	AQ993 2	AASIFA RUKHSAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Aasifa</i>
2	AQ993 6	AJAY KUMAR DHRITLA HARE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ajay</i>
3	AQ993 9	AMIT GABHEL	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	<i>Amit</i>
4	AQ994 3	ANIL KUMAR KUSHWA HA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Anil</i>
5	AQ994 7	ANJALI DUBEY	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	<i>Anjali</i>
6	AQ994 9	ANJALI SAO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Anjali</i>
7	AQ997 4	HIMANS HU VERMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Himans</i>
8	AQ997 8	JESTIN E.JOSEP H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Jestin</i>
9	AQ998 1	KANCHA N YADAV	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Kanchan</i>

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10	AQ9983	KAUSHAL PRASAD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>JKD</i>
11	AQ9990	KUSUM SAHU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Kusum</i>
12	AQ9993	LEKHENDRA DHIVAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Keshendra</i>
13	AR0002	NEHA KUSHWAHA	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Neha</i>
14	AR0005	NISHI DEWANGAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nishi</i>
15	AR0006	NITESH KUMAR SINGH	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Nitesh</i>
16	AR0011	NITISH KUMAR DEWANGAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nitish</i>
17	AR0014	PRAKASH CHANDRA SAYTON DAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Prakash</i>
18	AR0016	PRAKHAR SAHU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Prakash</i>
19	AR0020	PRAMOD KUMAR SONI	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Pramod</i>
20	AR0021	RAHUL KUMAR CHOUHAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rahul</i>
21	AR0029	REVATI	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Revati</i>
22	AR0031	SAMARTH SHARMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Samarth</i>
23	AR0035	SAMRIDDHI KASHYAP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Samrid</i>
24	AR0037	SANGAM PATRA	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Sangam</i>
25	AR0041	SHARON NAG	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Sharon</i>

**Criterion 1****Certificate Programs**





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## **Report On “A certificate course on Architectural Design Of Digital Integrated Circuits”:**

“A Certificate Course on Architectural Design Of Digital Integrated Circuits” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 25/03/2019 to 12/04/2019. A total of 25 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr Devendra Sahu, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about Architectural Design Of Digital Integrated Circuits.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be organised in the institution.

### **Photographs**



**Criterion 1**

**Certificate Programs**



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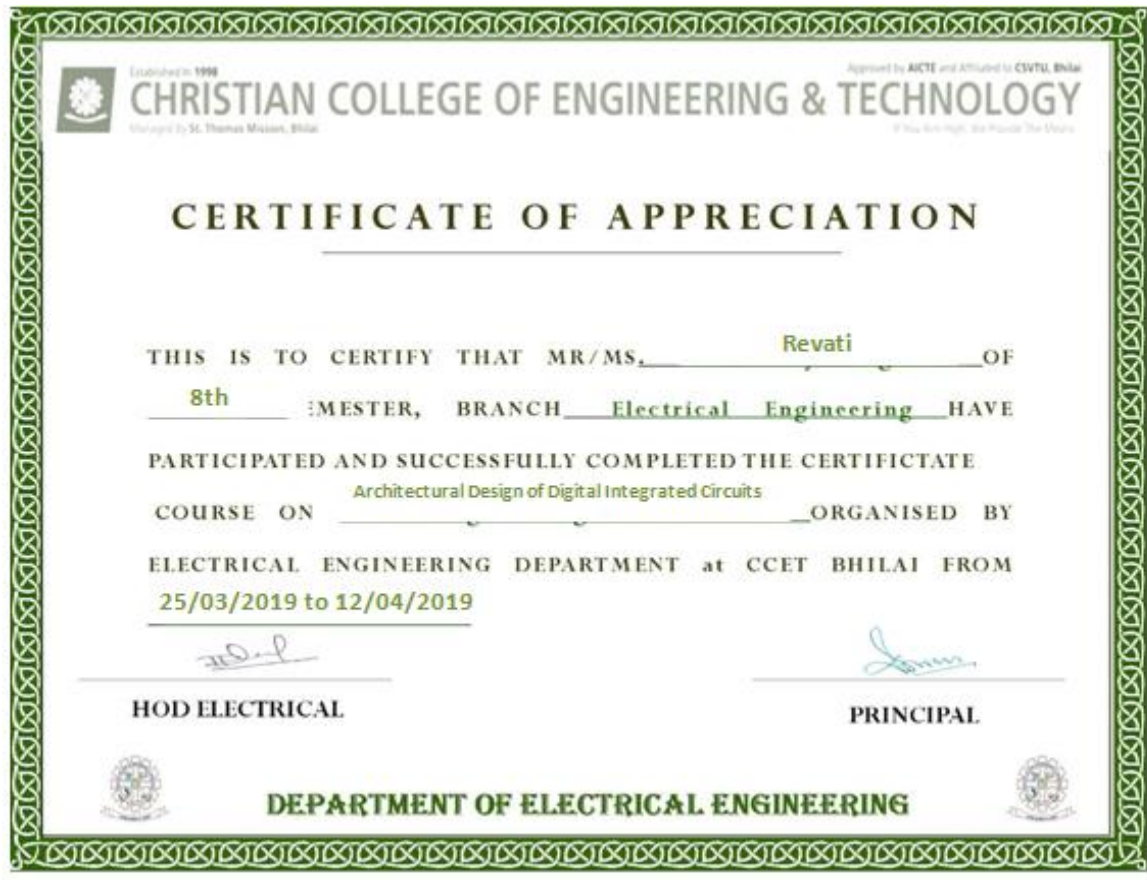
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## Sample of Certificate



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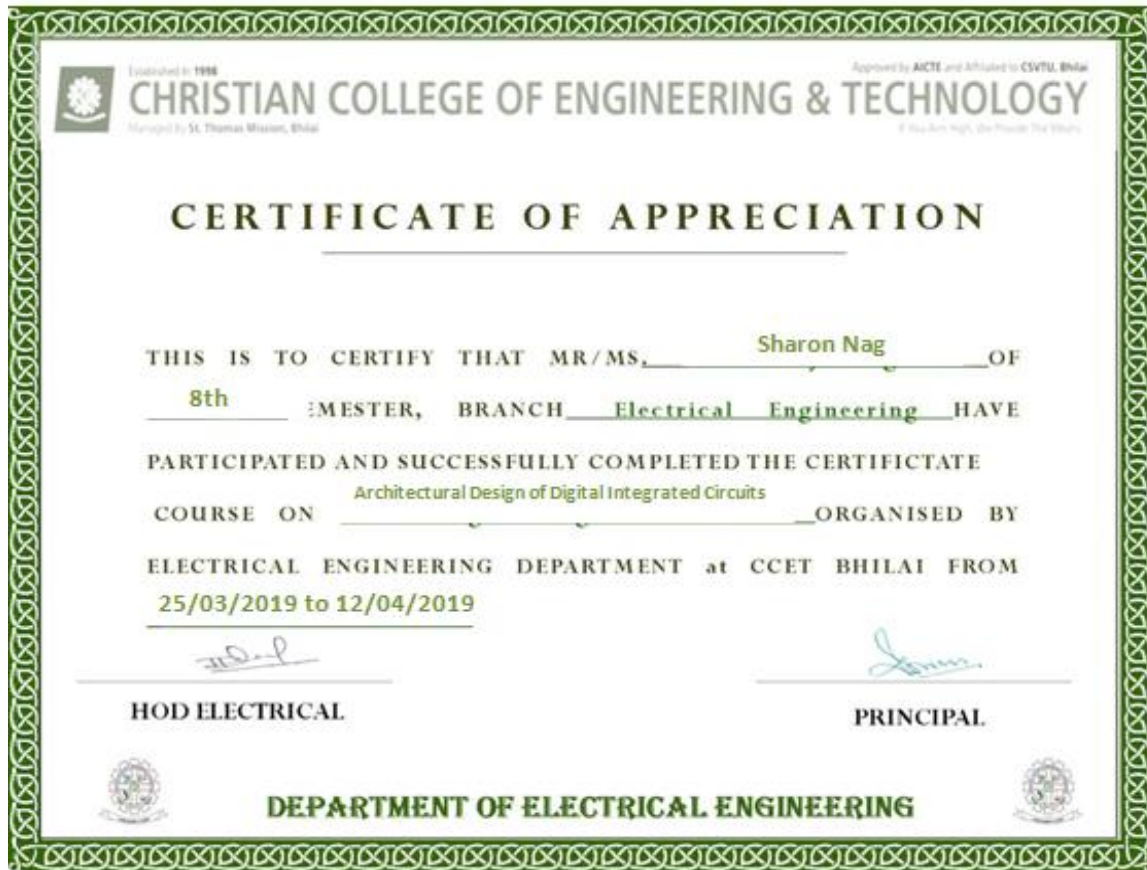
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## **Feedback:**

Feedback link:

<https://forms.gle/MH7aRhGnJ22sq8sg6>

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Count of Q.1 Where objectives of the session clear to you? ⋮



Count of Q.2 The session exposed you to new knowledge and practices.

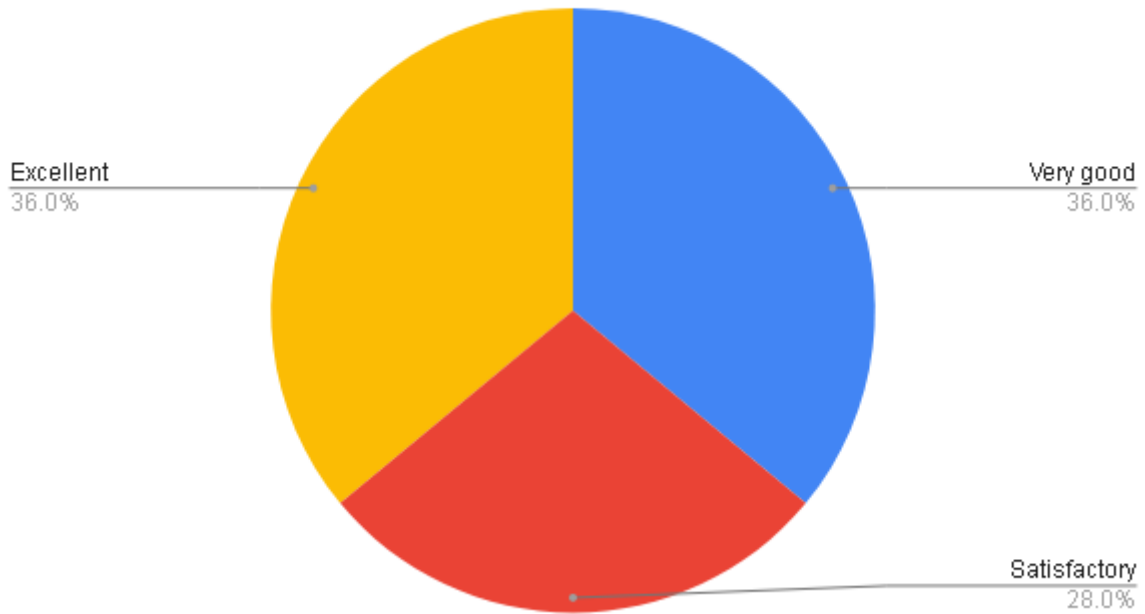


**Criterion 1**

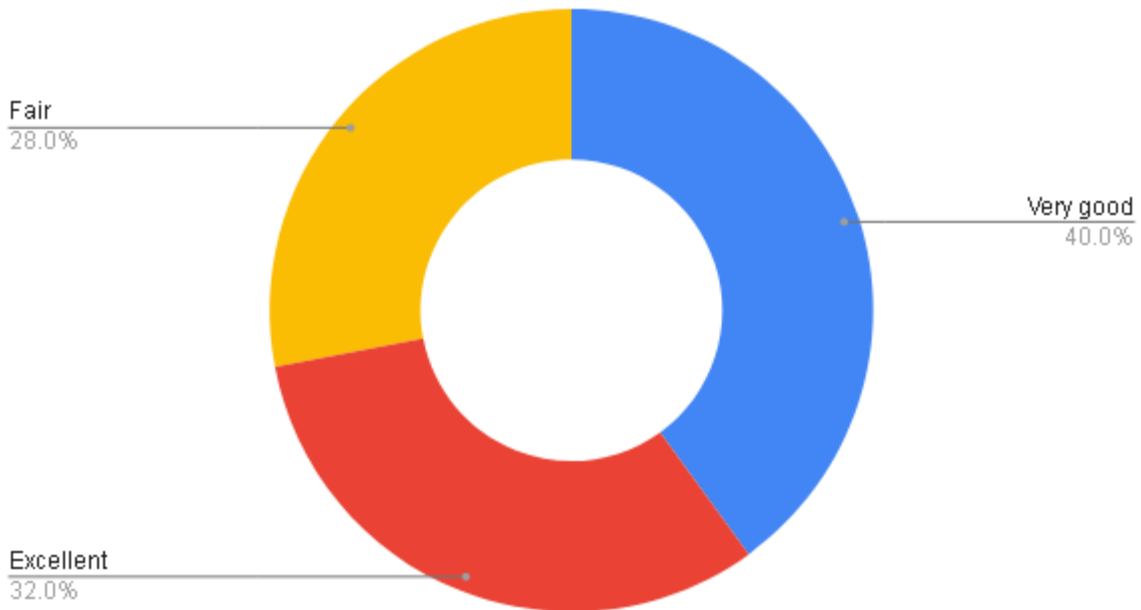
**Certificate Programs**



Count of Q.3 Contribution of lecture to your skill/knowledge.



Count of Q.4 Time management by session speaker.



**Criterion 1**

**Certificate Programs**



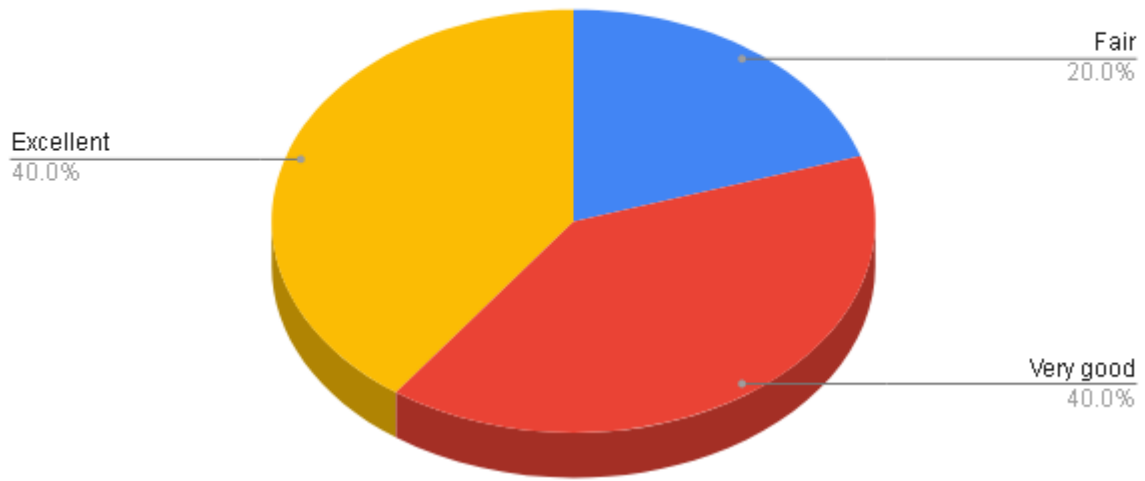
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## Count of Q.5 Communication Skill of Speaker.



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**A**  
**Certificate Course**  
**On**  
**Advanced Microwave Guided-**  
**Structures and Analysis**  
**Report**

**Venue : CCET Bhilai**

**Date: 26/08/2019 to 19/09/2019**

**Name of resource person: Mr. S.R.**  
**Dewangan**

**Criterion 1**

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## NOTICE

Date: 02/08/2019

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 02/08/2019, Time: 01:00 p.m.  
Venue: HOD Cabin

### **Agenda of the meeting:**

- 1 Finalization of Certificate Course
- 2 In-house (in case of availability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

- 1 Principal
- 2 All Faculty members
- 3 IQAC

**Criterion 1**

**Certificate Programs**





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Date: 05/08/2019

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 02/08/2019, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

- 1 It has been decided that a Certificate Course on Advanced Microwave Guided-Structures And Analysis will be conducted from 26/08/2019 to 19/09/2019 for 30 hours.
- 2 Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course
- 3 The title of the course will be Advanced Microwave Guided-Structures And Analysis
- 4 Mr. S.R. Dewangan, Assistant Professor of Electrical Engineering Department will be conducting the classes
- 5 The course conducted will be free of cost
- 6 The course will be conducted for 2 hours every day after college hours
- 7 Venue for the course is Computer Lab.

HOD

Department of Electrical Engineering

### Copy to:

- 1 Principal
- 2 All Faculty members
- 3 IQAC

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**Certificate Programs**



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## NOTICE

Date: 10/08/2019

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Engineering Branch are hereby informed that we are planning to conduct a certificate course on Advanced Microwave Guided-Structures And Analysis for 2 hours from 26/08/2019 to 19/09/2019 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 24.08.2019.

HOD

Department of Electrical Engineering

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## **Course Objective:**

The course begins with an exposition to a complete characterization of Scattering Matrix Parameters. Thereafter, Maxwell's Equations in both instantaneous and time-harmonic forms are covered. The treatment is extended to analyze the Power Conservation for both instantaneous and time-harmonic fields. Next, the wave equation in a homogeneous medium and radiated fields from a current source in a homogeneous medium is analyzed in terms of vector and scalar magnetic / electric potentials. The phenomenon of reflection and transmission of waves at conducting and dielectric interfaces for normal and oblique incidences is studied. A thorough characterization of the rectangular waveguide follows in terms of modes of propagation, power flow, power dissipation, followed by the treatment of the rectangular resonator. A discussion of the reciprocity concept leads to the evaluation of modes excited by a current source in a waveguide. A treatment of related guided structures including hybrid guides follows. The cylindrical wave function is introduced which is used to analyze propagation characteristics in circular guides and the circular cavity.

## **Course Syllabus:**

- Scattering Matrix Concepts
- Instantaneous form of Maxwell's equations : Differential and Integral forms, Generalized Current Concept, Poynting Vector and Conservation of Power
- Time Harmonic form of Maxwell's equations : Poynting Vector and Conservation of Power
- Wave Equation and Solution, Relation between Wavenumbers in a Homogeneous Medium, Radiation from an Electric Current Source in a Homogeneous Medium
- Radiation from a Magnetic Current Source in a Homogeneous Medium and its application to the Green's function computation for electromagnetic field problems
- Rectangular Waveguide I : Solution to the TM to z and TE to z Modes from the z-directed Magnetic and Electric Vector Potentials, Potential Functions in the Rectangular Waveguide, Cut-off Frequency, Dominant Mode, Propagation and Attenuation Constants
- Rectangular Waveguide II : Characteristic Impedances of TE to z and TM to z Modes, Computation of Power Flow, Computation of Power Dissipation on Waveguide Walls
- Rectangular Cavity Resonator : Potential Functions of TM and TE modes for the Cavity, Resonant Frequency, Field Computation in the Cavity, Computation of Stored Energy and Quality Factor.

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- The Reciprocity Theorem, Computation of Amplitudes of Forward and Backward Propagating Waves for Electric and Magnetic Current Sources in the Waveguide
- Analysis of Guided Structures : Partially-Filled Rectangular Waveguide, Dielectric Slab Guide, Non-Radiating Dielectric Guides
- Cylindrical Wave Functions, TE and TM modes in Circular Waveguides : Potential Functions in the Circular Waveguide, Cut-off Frequency, Propagation Constant, Circular Cavity
- Application to the Coupling Problem : Aperture-Coupled, Probe-Coupled and Waveguide Coupled structures.

### **Course Outcome:**

Students learn to analyse the power conservation for both instantaneous and time-harmonic fields. They also learn the wave equation in a homogeneous medium and radiated fields from a current source in a homogenous medium in terms of vector and scalar magnetic / electric potentials. The phenomenon of reflection and transmission of waves at conducting and dielectric interfaces for normal and oblique incidences is studied. A thorough characterization of the rectangular waveguide follows in terms of modes of propagation, power flow, power dissipation, followed by the treatment of the rectangular resonator. A discussion based on the reciprocity concept leads to the evaluation of modes excited by a current source in a waveguide is done.

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### Enrolment List

S/NO.	Enrolment Id	Name of Student
1	BE4309	AASHISH KUMAR
2	BD1779	ADITYA GUPTA
3	BD1746	AKASH CHANDRA SAYTONDAY
4	AQ1949	AKASH RANJAN LAL
5	BD1742	ANJELICA LAKRA
6	BD1786	LOKESH KUMAR PANDEY
7	BE4312	MOHIT MAHESHWARI
8	BD1759	PITAMBAR PATAIL
9	AR5354	PRAVEEN
10	BD1737	RAVINA EKKA
11	BA9367	SAJJAD AHAMAD
12	BD1757	SAKSHAM SHARMA
13	BD1734	SHIVANI TIWARI

**Criterion 1****Certificate Programs**



### Attendance List

S.No	ENROLL NO.	NAME	D 4/1	D 4/2	D 4/3	D 4/4	D 4/5	D 4/6	D 4/7	D 4/8	D 4/9	D 4/10	D 4/11	D 4/12	D 4/13	D 4/14	D 4/15	D 4/16	D 4/17	D 4/18	D 4/19	D 4/20	D 4/21	D 4/22	D 4/23	D 4/24	D 4/25	
1	BE4309	AASHISH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Asish
2	BD1779	ADITYA GUPTA	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Aditya
3	BD1746	AKASH CHANDR A SAYTON DAY	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Aakash
4	AQ1949	AKASH RANJAN LAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Akash
5	BD1742	ANJELIC A LAKRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anjelic
6	BD1786	LOKESH KUMAR PANDEY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Lokesh
7	BE4312	MOHIT MAHESH WARI	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Mohit
8	BD1759	PITAMBAR PATAIL	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Pitambar
9	ARS354	PRAVEEN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Praveen
10	BD1737	RAVINA EKKA	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	RD
11	BA9367	SAJJAD AHAMAD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sajjad
12	BD1757	SAKSHAM SHARMA	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	SKS
13	BD1734	SHIVANI TIWARI	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Shivani

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# Certificate Programs



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## **Report On “A certificate course Advanced Microwave Guided-Structures And Analysis”:**

“Advanced Microwave Guided-Structures And Analysis” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 26/08/2019 to 19/09/2019. A total of 13 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. S.R. Dewangan, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about Advanced Microwave Guided-Structures.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be organised in the institution.

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## Photographs



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## Sample of Certificate

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<b>CERTIFICATE OF APPRECIATION</b>		
THIS IS TO CERTIFY THAT MR/MS. <u>Ashish Kumar</u> OF		
<u>7th</u> SEMESTER, BRANCH <u>Electrical Engineering</u> HAVE		
PARTICIPATED AND SUCCESSFULLY COMPLETED THE CERTIFICATE		
COURSE ON <u>Advanced Microwave Guided-Structures And Analysis</u>		
ORGANISED BY ELECTRICAL ENGINEERING DEPARTMENT at CCET		
BHILAI FROM <u>26/08/2019 to 19/09/2019</u>		
HOD ELECTRICAL	PRINCIPAL	
	<b>DEPARTMENT OF ELECTRICAL ENGINEERING</b>	

**Criterion 1**

**Certificate Programs**



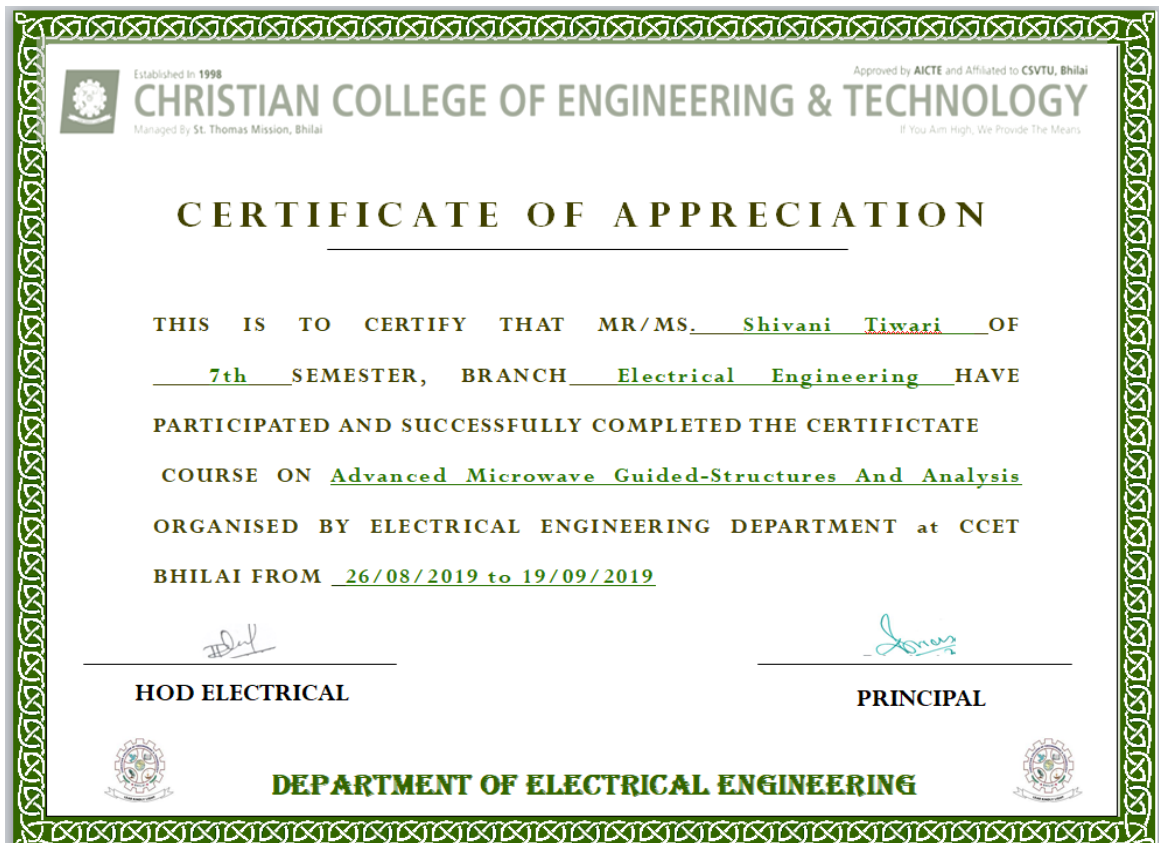
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### **Feedback:**

Feedback Link:

<https://forms.gle/6QHsYsPGVRVnCWJe6>

**Criterion 1**

**Certificate Programs**



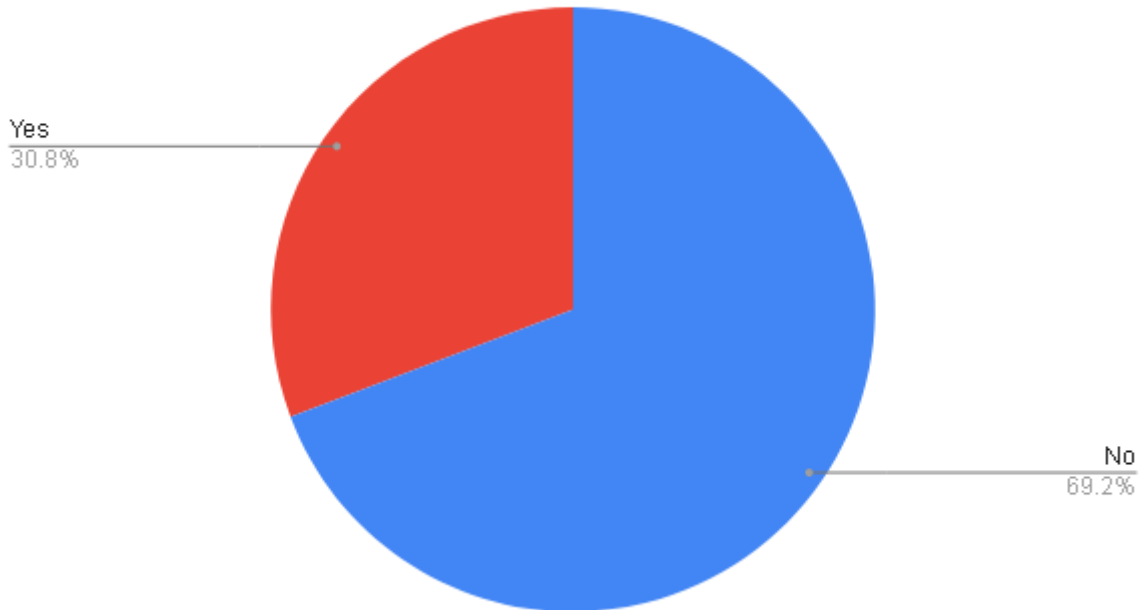
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Count of Q.1 Where objectives of the session clear to you?



Count of Q.2 The session exposed you to new knowledge and practices.

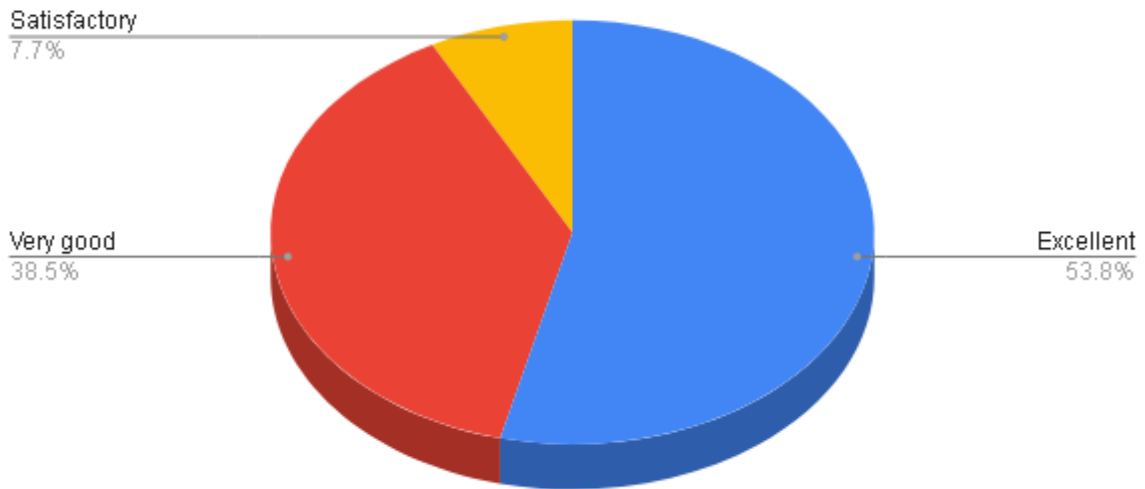


**Criterion 1**

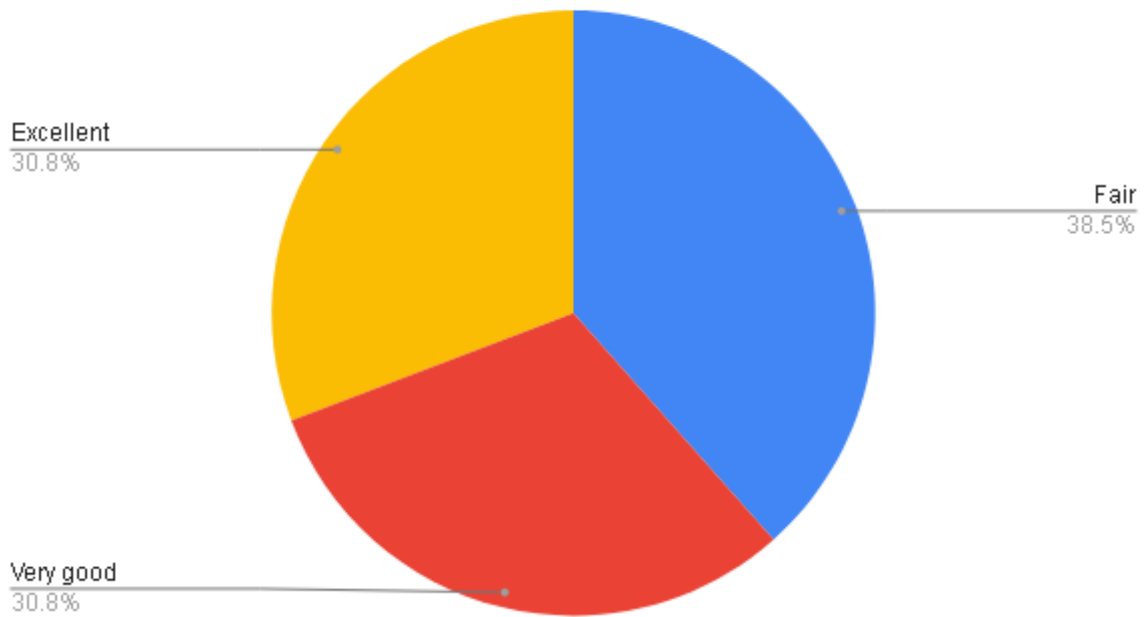
**Certificate Programs**



### Count of Q.3 Contribution of lecture to your skill/knowledge.



### Count of Q.4 Time management by session speaker.



## Criterion 1

## Certificate Programs



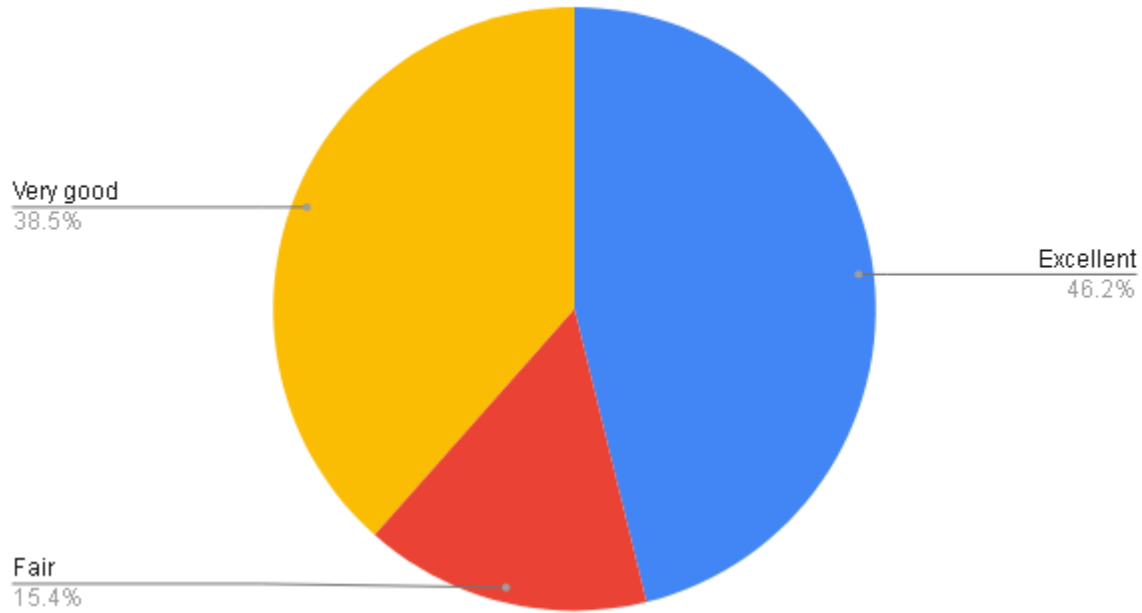
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## Count of Q.5 Communication Skill of Speaker.



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**A**  
**Certificate Course**  
**On**  
**Advanced Linear Continuous**  
**Control Systems: Applications**  
**With MATLAB Programming**  
**And Simulink**

**Report**

**Venue: Online Mode**

**Date: 23/03/2020 to 10/04/2020**

**Name of resource person: Mr. B. Sridhar**

**Criterion 1**

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## NOTICE

Date: 02/03/2020

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 02/03/2020, Time: 01:00 p.m.  
Venue: Google Meet

### **Agenda of the meeting:**

- 1 Finalization of Certificate Course
- 2 In-house (in case of availability of expert) / external guest faculty or Agency

Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

- 1 Principal
- 2 All Faculty members
- 3 IQAC

**Criterion 1**

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Date: 03/03/2020

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 03/03/2020, Time: 01:00 p.m. Venue: Google Meet. Discussion on following points has been done.

- 1 It has been decided that a Certificate Course on Advanced Linear Continuous Control Systems: Applications With MATLAB Programming And Simulink will be conducted from 23/03/2020 to 10/04/2020 for 30 hours.
- 2 Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course
- 3 The title of the course will be Automation of Industrial Control Process
- 4 Mr. B. Sridhar, Assistant Professor of Electrical Engineering Department will be conducting the classes
- 5 The course conducted will be free of cost
- 6 The course will be conducted for 2 hours every day in google meet.
- 7 Venue for the course is Google Meet.

HOD

Department of Electrical Engineering

### Copy to:

- 1 Principal
- 2 All Faculty members
- 3 IQAC

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## NOTICE

Date: 10/03/2020

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Engineering Branch are hereby informed that we are planning to conduct a certificate course on Advanced Linear Continuous Control Systems: Applications With MATLAB Programming And Simulink for 2 hours from 23/03/2020 to 10/04/2020 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 21.03.2020.

HOD

Department of Electrical Engineering

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## **Course Objective:**

The course on advanced linear control system design introduces the fundamental concepts, applications and understanding through Matlab programming and Simulink. This course is a core course for PG student and an elective course for UG. In this course, various methodology of modeling in state space, state transition matrix, and solution in state equation shall be studied. Further, the concept of controller design, observer design (Full order and minimum order), and optimal pole placement design through LQR and LQG will be discussed. The theory will be supported by a variety of numerical examples and practical examples. Software programs in MATLAB environment and Simulink will be studied for the better understanding of the advanced linear control techniques for continuous systems.

## **Course Syllabus:**

- Introduction to State Space
- State Space Representation: Companion Form (Controllable Canonical Form)
- Extended Controllable Canonical Form
- Observable Canonical Form.
- State Space Representation: Diagonal Canonical Form
- Jordan Canonical Form, State Space Representation: Numerical Examples on State Space Modelling
- Modelling of Mechanical Systems in State Space: Modelling of DC Servo Motor
- Modelling of DC Servo Motor
- Determination of Transfer Function from State Space Model
- Stability Analysis in State Space: Concept of Eigenvalues and Eigenvectors
- Lyapunov Stability Analysis (Sylvester's Criterion)
- Lyapunov Stability Analysis (Stability Criterion)
- Lyapunov Stability Analysis (Direct Method)
- Concept of Diagonalization
- Solution of State Equation
- Solution of State Equation (Forced system)
- Steady State Error for State Space System
- State Transition Matrix (Part-I)
- State Transition Matrix (Part-II)
- State Transition Matrix using Caley Hamilton Theorem (Part-III)
- MATLAB Programming with State Space

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- Controllability in State Space
- Observability in State Space
- Pole Placement by State Feedback.
- Tracking Problem in State Feedback Design
- State Observer Design.

### **Course Outcome:**

Students will learn various methodology of modelling in state space, state transition matrix, and solution in state equation shall be studied. Further, the concept of controller design, observer design (Full order and minimum order), and optimal pole placement design through LQR and LQG is discussed

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### Enrolment and Online Attendance List

S/NO.	University Roll No.	Name of Student
1	BA0095	AATIFA FATIMA
2	BA1785	AWINT KUJUR
3	BA2732	BHUPENDRA KUMAR DEWANGAN
4	BA3259	DEEPALI SAHU
5	BB5592	DIVYA SUNA
6	BA5565	KRITESH KUMAR DHURIA
7	BA6773	M SWARNMARY
8	BA6819	NIKHIL KUMAR RAO
9	BA8130	NIKITA TIGGA
10	BA8240	PUSHPENDRA KUMAR SAHU

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## **Report On “Advanced Linear Continuous Control Systems: Applications With MATLAB Programming And Simulink ”:**

“Advanced Linear Continuous Control Systems: Applications With MATLAB Programming And Simulink ” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 23/03/2020 to 10/04/2020. A total of 10 students enrolled themselves for the course and participated in the program. The sessions were conducted by Ms.Saumya Singh, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about MATLAB programming and simulink.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be organised in the institution.

**Criterion 1**

**Certificate Programs**



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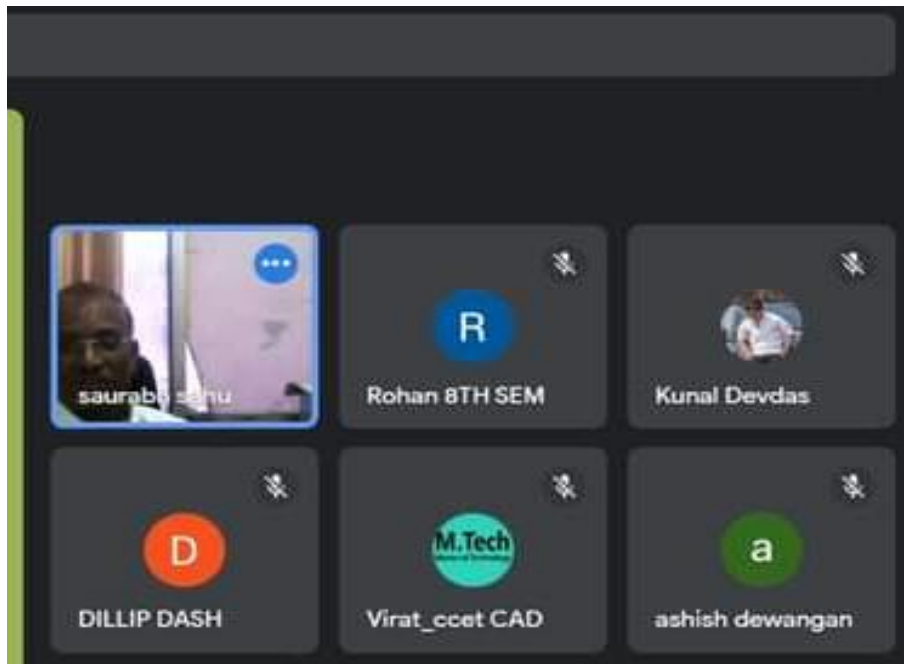
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## Photographs



**Criterion 1**

**Certificate Programs**



Established In 1998

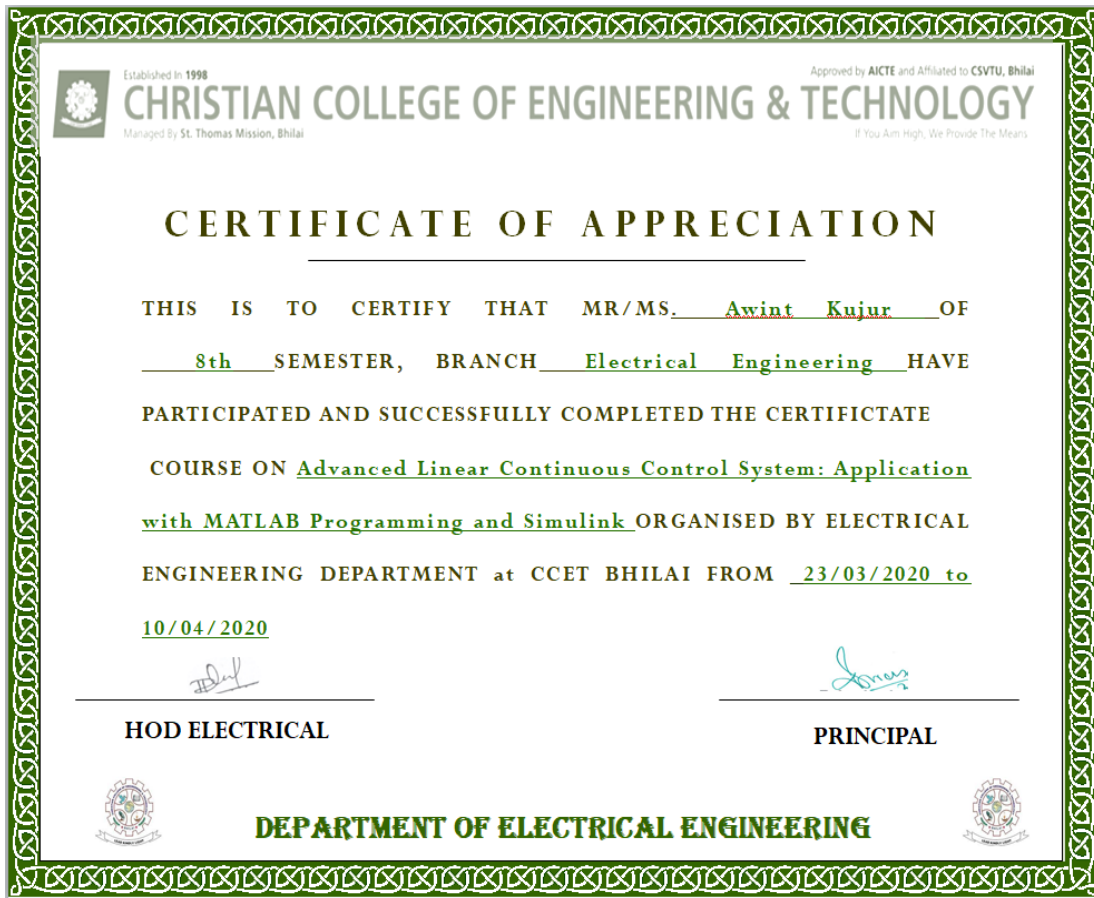
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## Sample of Certificate



**Criterion 1**

**Certificate Programs**



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## CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT MR/MS. Deepali Sahu OF  
8th SEMESTER, BRANCH Electrical Engineering HAVE  
PARTICIPATED AND SUCCESSFULLY COMPLETED THE CERTIFICATE  
COURSE ON Advanced Linear Continuous Control System: Application  
with MATLAB Programming and Simulink ORGANISED BY ELECTRICAL  
ENGINEERING DEPARTMENT at CCET BHILAI FROM 23/03/2020 to  
10/04/2020

HOD ELECTRICAL

PRINCIPAL



**DEPARTMENT OF ELECTRICAL ENGINEERING**



### Feedback

Feedback link:

<https://forms.gle/hXAv66SZPM8UN8Rh7>

**Criterion 1**

**Certificate Programs**





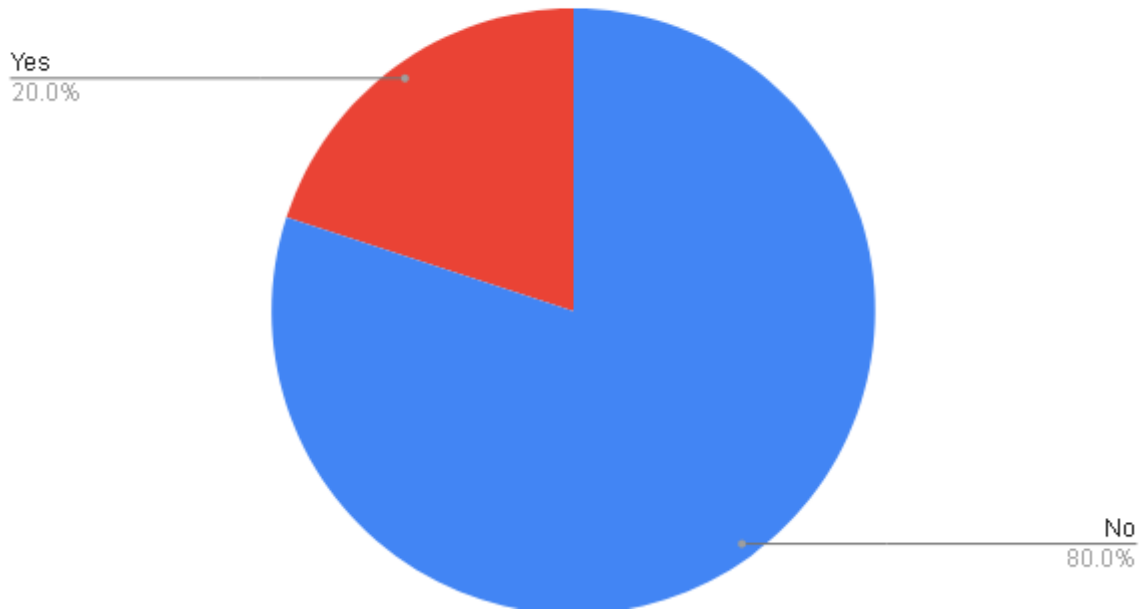
Established In 1998

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Count of Q.1 Where objectives of the session clear to you?



Count of Q.2 The session exposed you to new knowledge and practices.



**Criterion 1**

**Certificate Programs**



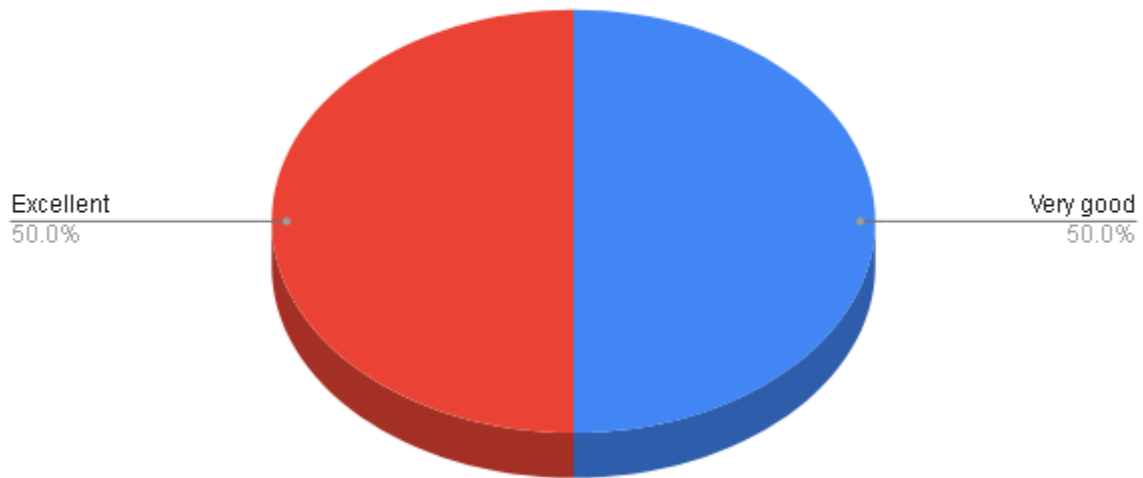
Established In 1998

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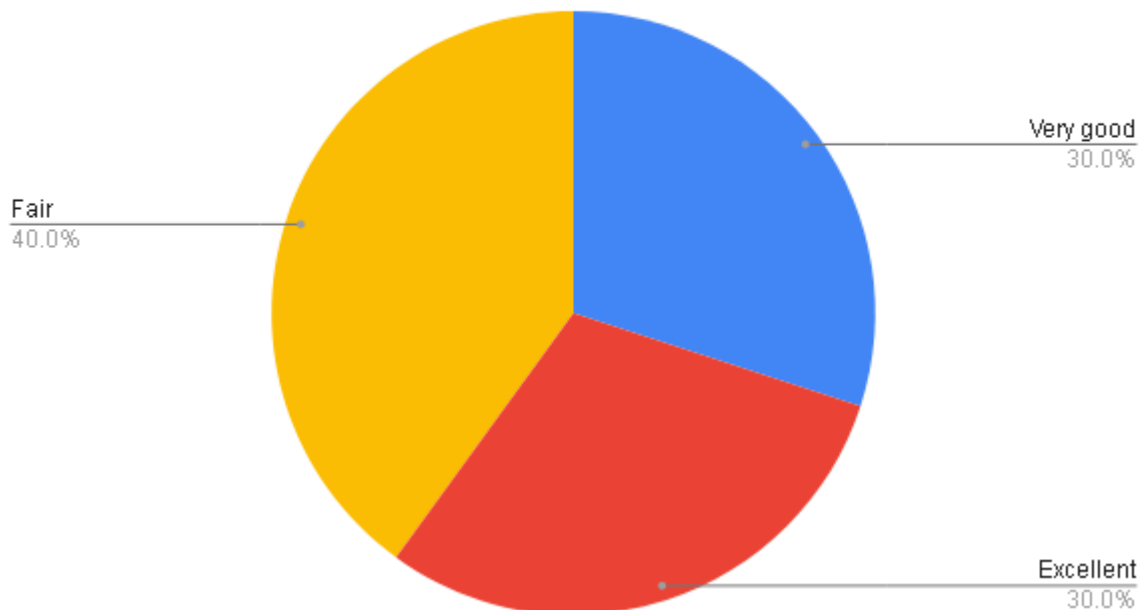
Approved by AICTE and Affiliated to CSVTU, Bilai

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Count of Q.3 Contribution of lecture to your skill/knowledge. ⋮



Count of Q.4 Time management by session speaker. ⋮



**Criterion 1**

**Certificate Programs**



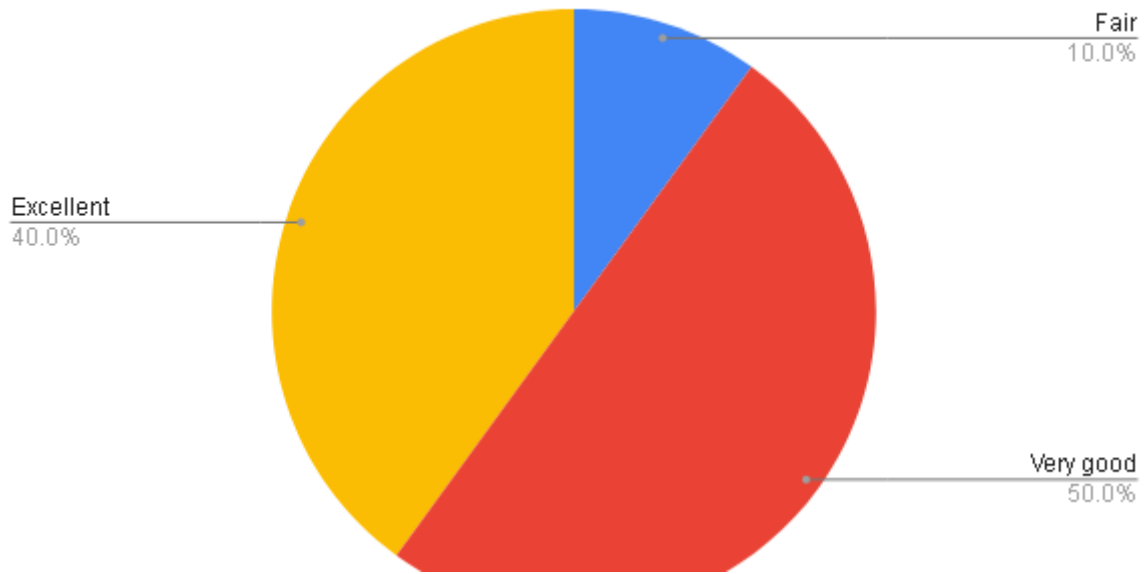
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## Count of Q.5 Communication Skill of Speaker.



**Criterion 1**

**Certificate Programs**



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**A**  
**Certificate Course**  
**On**  
**Advanced Topics In**  
**Probability and Random**  
**Processes**  
  
**Report**

**Venue :Online Mode**

**Date: 24/08/2020 to 11/09/2020**

**Name of resource person:**  
**Mr.PramodBaghmar**

**Criterion 1**

**Certificate Programs**



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## NOTICE

Date: 02/08/2020

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 02/08/2021, Time: 01:00 p.m.  
Venue: Google Meet

### **Agenda of the meeting:**

- 1 Finalization of Certificate Course
- 2 In-house (in case of availability of expert) / external guest faculty or Agency

Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

Principal  
All Faculty members  
IQAC

**Criterion 1**

**Certificate Programs**



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Date: 03/08/2020

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 03/08/2020, Time: 01:00 p.m. through Google meet. Discussion on following points has been done.

- 1 It has been decided that a Certificate Course on Advanced Topics In Probability And Random Processes will be conducted from 24/08/2020 to 11/09/2020 for 30 hours.
- 2 Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course
- 3 The title of the course will be Automation of Industrial Control Process
- 4 Mr.Pramod Baghmar, Assistant Professor of Electrical Engineering Department will be conducting the classes
- 5 The course conducted will be free of cost
- 6 The course will be conducted for 2 hours every day in google meet.
- 7 Venue for the course is Google Meet.

HOD

Department of Electrical Engineering

**Copy to:**

- a. Principal
- b. All Faculty members
- c. IQAC

**Criterion 1**

**Certificate Programs**



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## NOTICE

Date: 14/08/2020

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Engineering Branch are hereby informed that we are planning to conduct a certificate course on Advanced Topics In Probability And Random Processes will be conducted from 24/08/2020 to 11/09/2020 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 22.08.2020.

HOD

Department of Electrical Engineering

**Criterion 1**

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## **Course Objective:**

The course will cover mainly two broad areas:

(1) the concepts of the convergence sequence of random variables leading to the explanation of important concepts like the laws of large numbers, central limit theorem; and (2) Markov chains that include the analysis of discrete and continuous time Markov Chains and their applications. .

## **Course Syllabus:**

- Introduction to probability and Random Processes
- Infinite sequence of events
- Convergence of a sequence of random variables
- Convergence of a sequence of random variables
- Laws of large numbers, central limit theorem
- Discrete time Markov chains
- Markov property, state transition, Chapman Kolmogorov Equations
- Discrete time Markov chains
- classes and recurrence properties
- Continuous time Markov Chain
- Forward and backward equations
- Continuous time Markov Chain Birthdeath Processes

## **Course Outcome:**

The students learned the convergence sequence of random variables leading to the explanation of important concepts like the laws of large numbers, central limit theorem and Markov chains that include the analysis of discrete and continuous time.

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### Enrolment List

<b>S.No</b>	<b>Enroll NO.</b>	<b>NAME</b>
1	BF2473	AAKASH VERMA
2	BF2466	ABHIJEET CHAKRABORTY
3	BF2472	ANITOSH KUMAR
4	BF2468	MD AYAN KHAN
5	BF2467	NAGRAJ
6	BF2474	SONALI PAUL

**Criterion 1**

**Certificate Programs**



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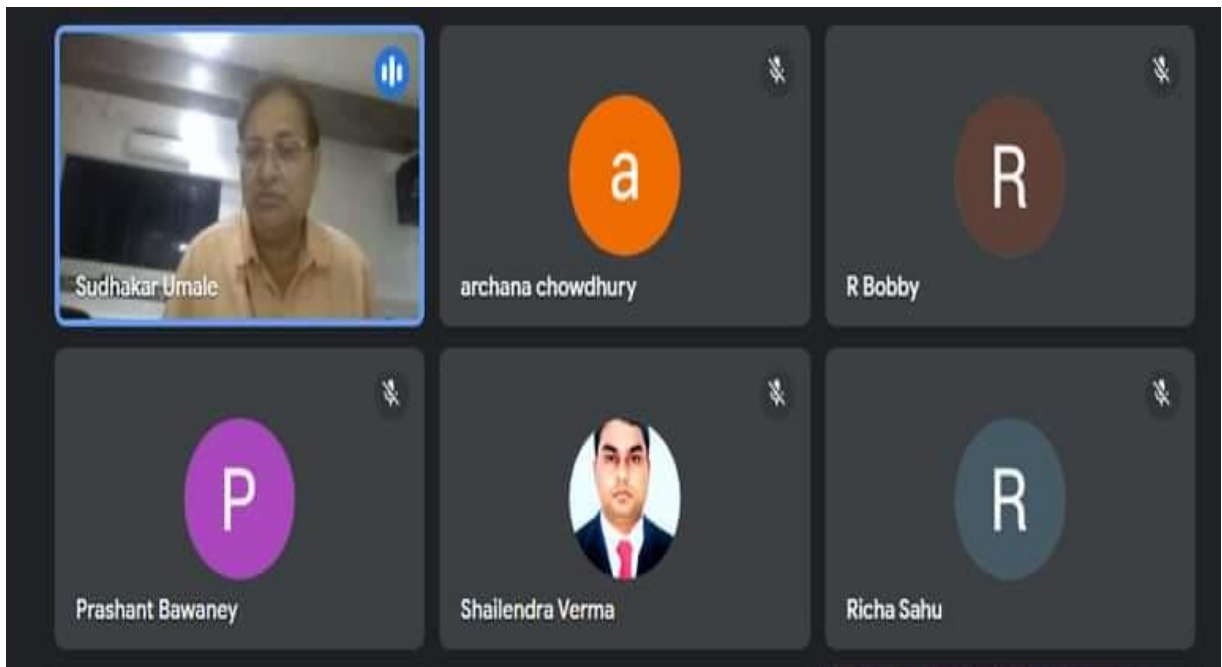
If You Aim High, We Provide The Means

## Report On “A certificate course on Advanced Topics In Probability and Random Processes”:

“A Certificate Course Advanced Topics In Probability And Random Processes” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 24/08/2020 to 11/09/2020. A total of 6 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Pramod Baghmar, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about Signal Processing Toolbox.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be organised in the institution.

### Photographs



**Criterion 1**

**Certificate Programs**



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## Sample of Certificate

	Established In 1998	CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY	Approved by AICTE and Affiliated to CSVTU, Bhilai
	Managed By St. Thomas Mission, Bhilai		If You Aim High, We Provide The Means
<b>CERTIFICATE OF APPRECIATION</b>			
THIS IS TO CERTIFY THAT MR/MS. <u>Abhijeet Chakraborty</u> OF			
<u>5th</u> SEMESTER, BRANCH <u>Electrical Engineering</u> HAVE			
PARTICIPATED AND SUCCESSFULLY COMPLETED THE CERTIFICATE			
COURSE ON <u>Advanced Topics In Probability and Random Processes</u>			
<u>Analysis</u> ORGANISED BY ELECTRICAL ENGINEERING DEPARTMENT at			
CCET BHILAI FROM <u>24/08/2020 to 11/09/2020</u>			
HOD ELECTRICAL		PRINCIPAL	
	<b>DEPARTMENT OF ELECTRICAL ENGINEERING</b>		

**Criterion 1**

**Certificate Programs**



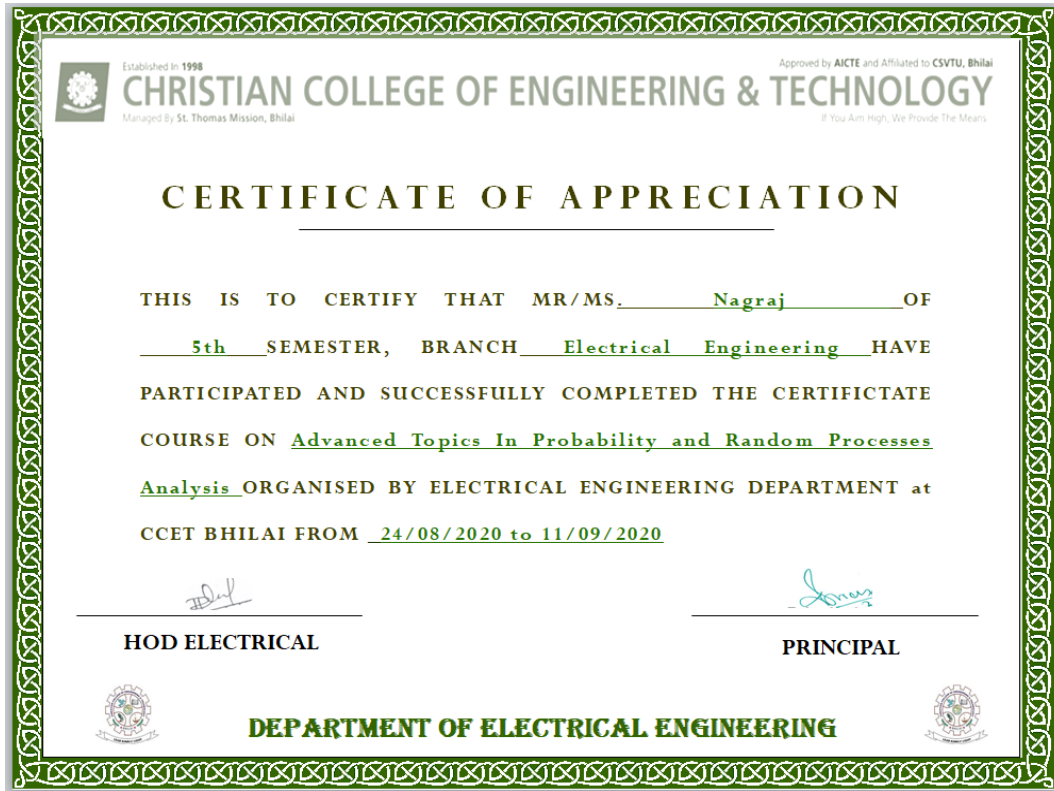
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## **Feedback:**

Feedback link:

<https://forms.gle/jVBk7JfeCCXubJhB7>

**Criterion 1**

**Certificate Programs**



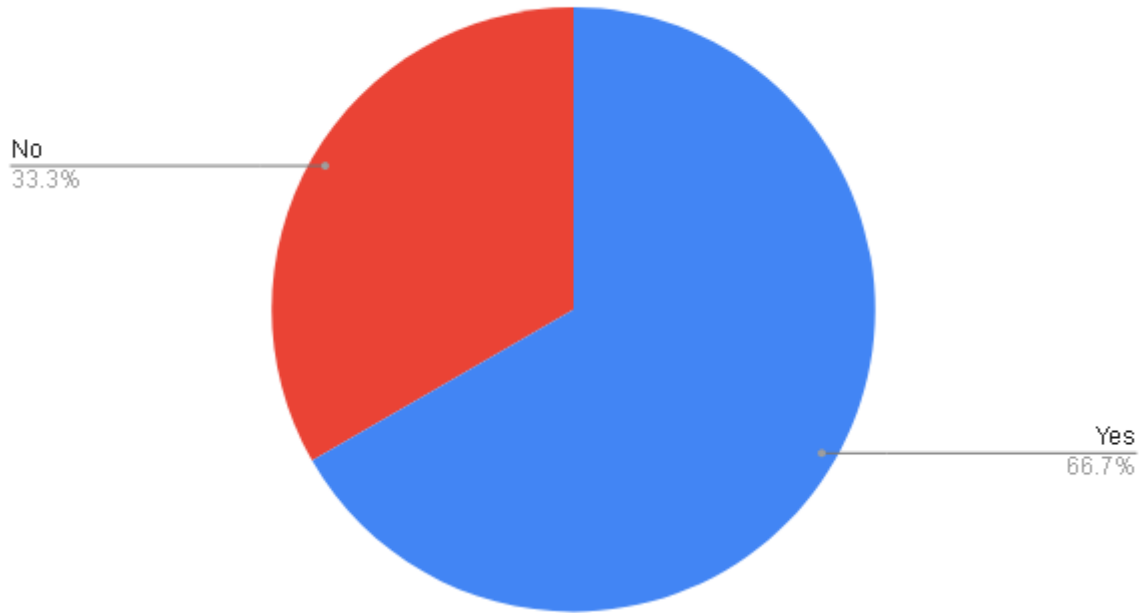
Established In 1998

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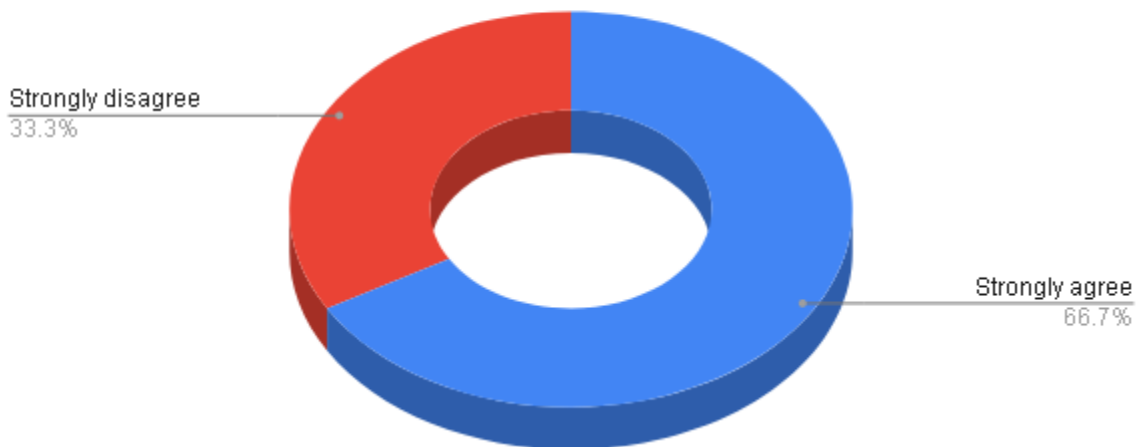
Approved by AICTE and Affiliated to CSVTU, Bhilai

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Count of Q.1 Where objectives of the session clear to you? ⋮



Count of Q.2 The session exposed you to new knowledge and practices. ⋮



**Criterion 1**

**Certificate Programs**



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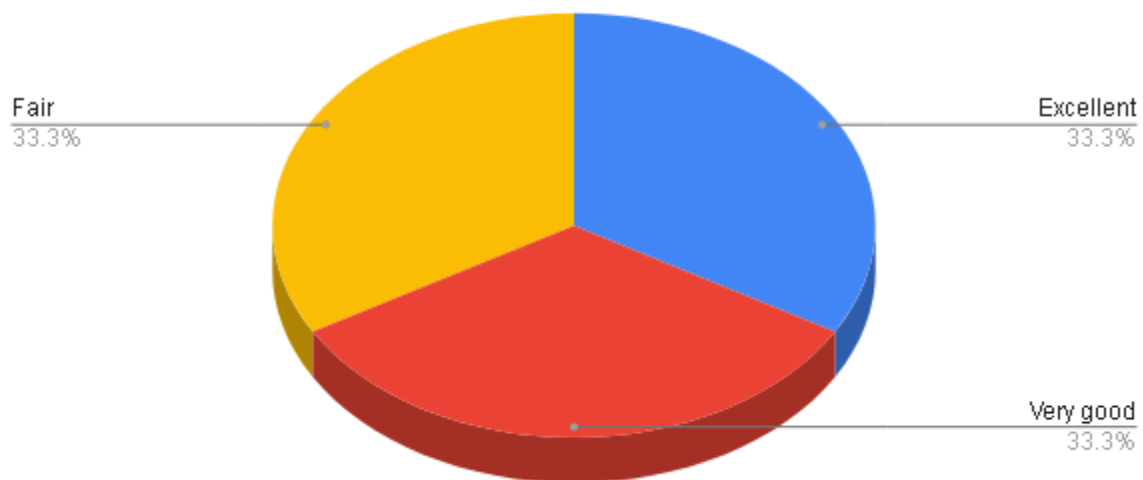
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Count of Q.3 Contribution of lecture to your skill/knowledge.



Count of Q.4 Time management by session speaker.



**Criterion 1**

**Certificate Programs**



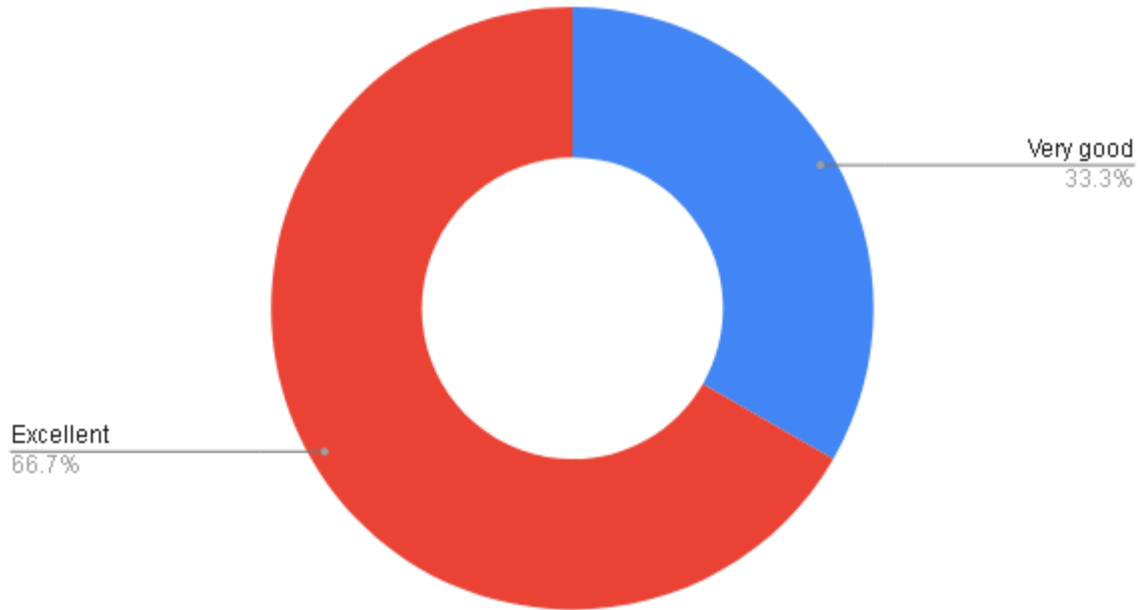
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## Count of Q.5 Communication Skill of Speaker.



**Criterion 1**

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**A**  
**Certificate Course**  
**On**  
**PLC programming from**  
**Scratch**

**Report**

**Venue :Online Mode**

**Date: 22/03/2021 to 09/04/2021**

**Name of resource person: Mrs. Saumya Singh**

**Criterion 1**

**Certificate Programs**





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## NOTICE

Date: 02/03/2021

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 02/03/2021, Time: 01:00 p.m. in Online Mode

### **Agenda of the meeting:**

- 1 Finalization of Certificate Course
- 2 In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

Principal  
All Faculty members  
IQAC

**Criterion 1**

**Certificate Programs**



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Date: 03/03/2021

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 02/03/2021, Time: 01:00 p.m. online. Discussion on following points has been done.

- 1 It has been decided that a Certificate Course on PLC programming from Scratch will be conducted from 22/03/2021 to 09/04/2021 for 30 hours.
- 2 Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course
- 3 The title of the course will be Automation of Industrial Control Process
- 4 Mrs.Saumya Singh, Assistant Professor of Electrical Engineering Department will be conducting the classes
- 5 The course conducted will be free of cost
- 6 The course will be conducted for 2 hours every day in google meet.
- 7 Venue for the course is Google Meet.

HOD

Department of Electrical Engineering

### Copy to:

Principal  
All Faculty members  
IQAC

**Criterion 1**

**Certificate Programs**



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## NOTICE

Date: 10/03/2020

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Engineering Branch are hereby informed that we are planning to conduct a certificate course on Automation for 2 hours from 22/03/2021 to 09/04/2021 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 20.03.2021.

HOD

Department of Electrical Engineering

**Criterion 1**

**Certificate Programs**



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## **Course Objective:**

A certificate course on PLC programming from Scratch is organized for students of Electrical department. Form the feedback received from Employers, it has been analysed that knowledge of PLC programming from scratch to advanced level is required in applying it to ground breaking industrial processes. This course provides the practical foundations necessary to automate real world industrial processes. PLC are being used in every Process & Manufacturing Industries, besides knowing the Wiring & Connection, one must know how to program a PLC. Unless, you know how the brain works, it's extremely difficult to troubleshoot a process. This course will explain how you can Wire, Design & Program a PLC.

## **Course Syllabus:**

- PLC Automation
- Basic Functionality of a Program (Inputs, Outputs, Conversion)
- IO Modules
- Comparators
- PID (Proportional Integral Derivative) Control Loops
- Module Configurations
- Analog Process Control (LL, L, H, HH)
- PID Heater Control
- Dual-bit Alarm / Notification Programming
- Human Machine Interface Overview
- Communications Overview

## **Course Outcome:**

The students getthe practical foundations necessary to automate real world industrial processes. PLC are being used in every Process & Manufacturing Industries, besides knowing the Wiring & Connection, one must know how to program a PLC.

**Criterion 1**

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### Enrolment List

S.No	ROLL NO.	NAME
1	BD0339	DEEPAK CHAUDHARY
2	AQ1999	DUJENDRA KUMAR SAHU
3	BB7773	JAYANT KUMAR
4	AS1009	KAMLESH DAMAHE
5	BJ0422	KRISHNAKANT SAHU
6	BI1503	LEO KOSHY VARGHESE
7	BF5533	MITHLESH
8	BI1504	PAWAN KUMAR VISHWAKARMA
9	BJ0423	RAJKUMAR
10	BI1505	ROVINS XESS
11	BF1033	SHIVENDRA PANIGRAHI
12	AO5077	SUGAM BAKSHI
13	BI1506	VEDINA XAXA
14	BE4309	AASHISH KUMAR
15	BD1779	ADITYA GUPTA
16	BD1746	AKASH CHANDRA SAYTONDAY
17	AQ1949	AKASH RANJAN LAL
18	BD1742	ANJELICA LAKRA
19	BD1764	ARPIT RAJ DAVID
20	BD1744	ARUNA EKKA
21	BD1738	ASHWANI KUMAR SHARMA
22	BD1792	BHOOPENDRA KUMAR
23	BD1735	DEEPAK YADAV

**Criterion 1****Certificate Programs**



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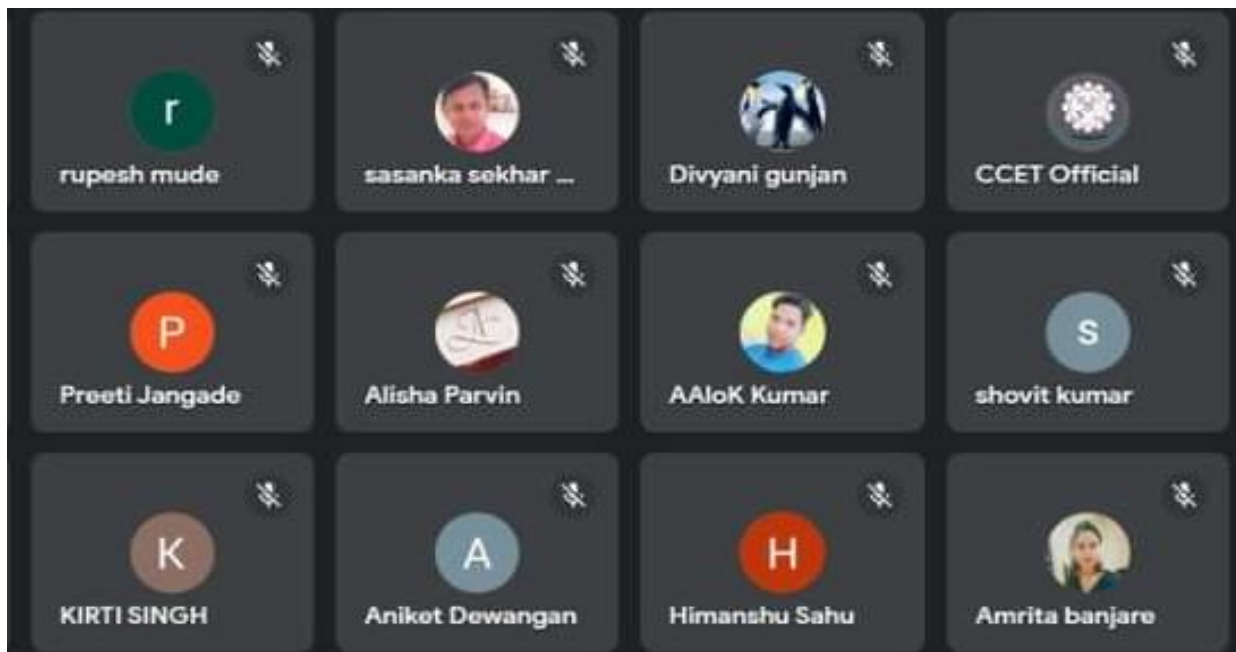
If You Aim High, We Provide The Means

## **Report On “A certificate course on PLC programming from Scratch”:**

“A Certificate Course on PLC programming from Scratch” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 22/03/2021 to 09/04/2021. A total of 23 students enrolled themselves for the course and participated in the program. The sessions were conducted by Ms.Saumya Singh, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about PLC programming from Scratch.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be organised in the institution.

## **Photographs**



**Criterion 1**

**Certificate Programs**



Established In 1998

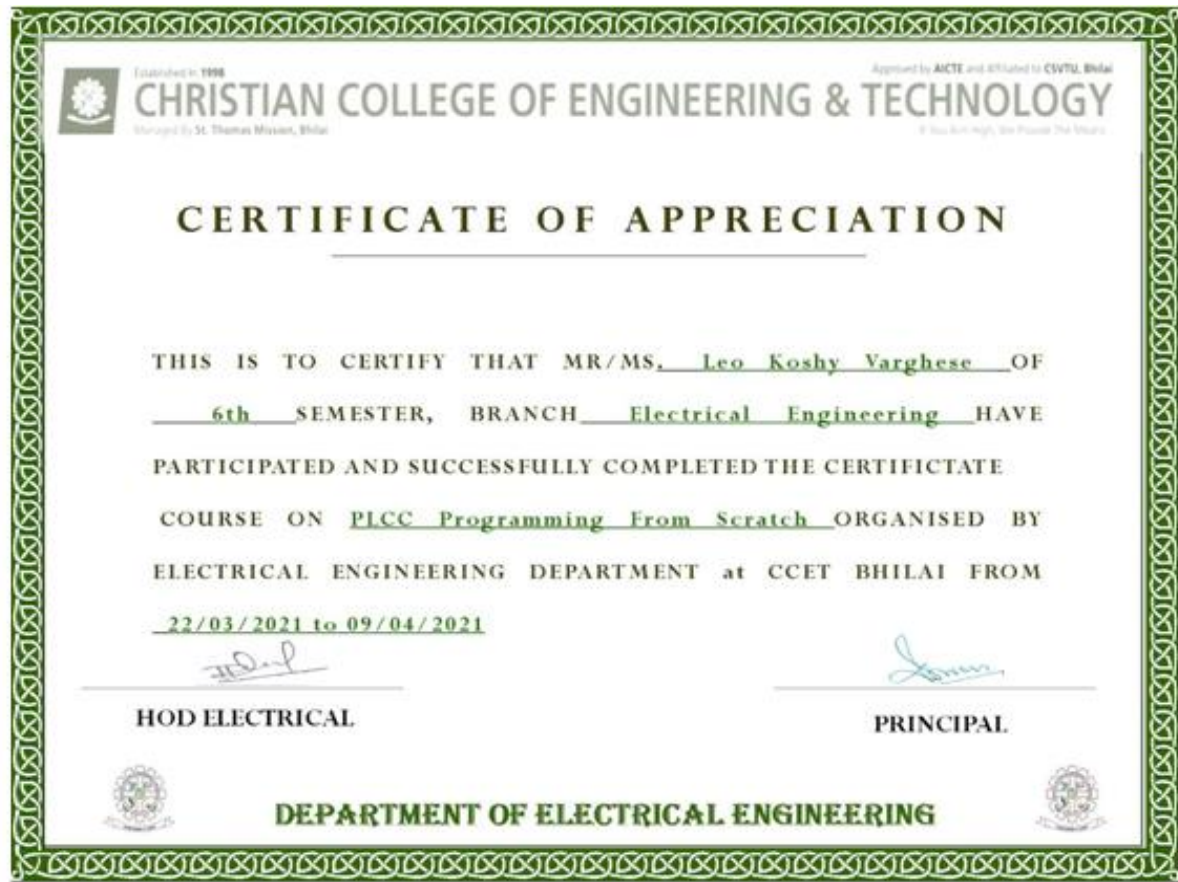
**CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY**

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## Sample of Certificate



**Criterion 1**

**Certificate Programs**



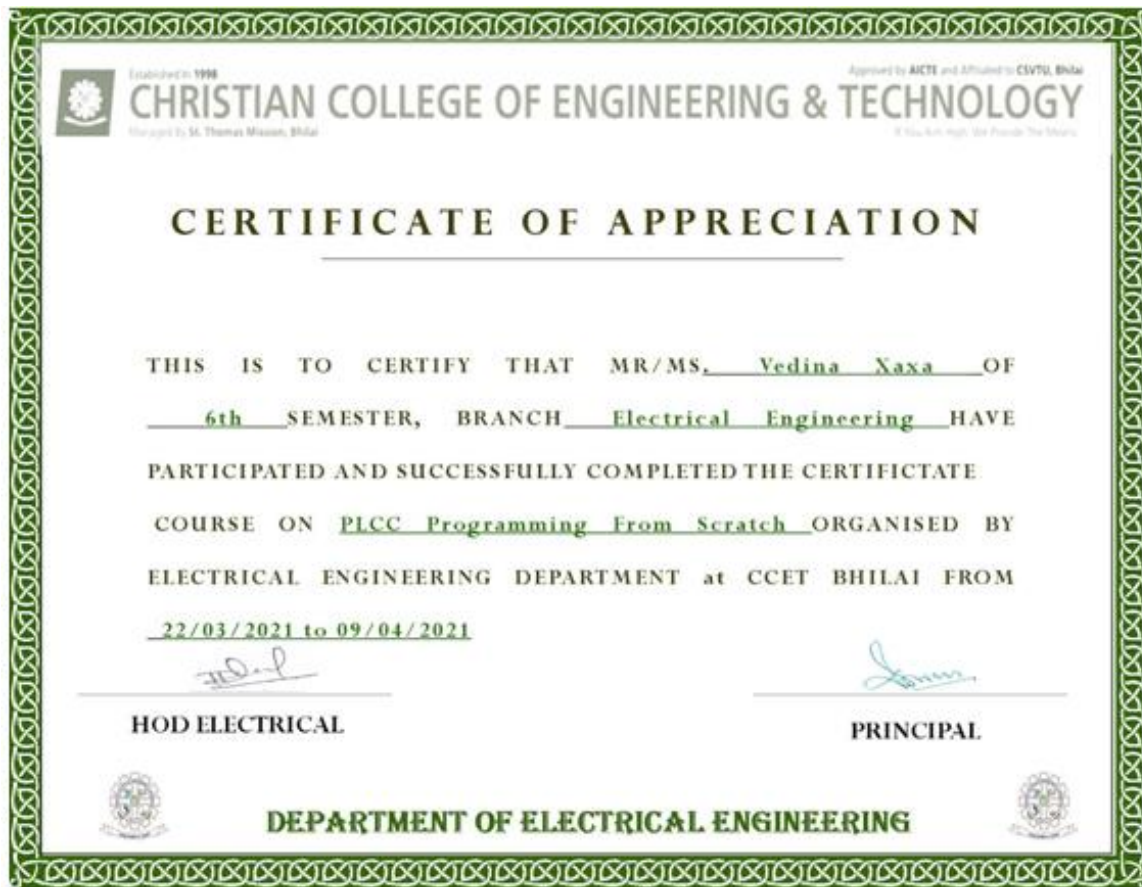
Established In 1998

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## **Feedback:**

Feedback link:

<https://forms.gle/3PFTxyScmYWV7JpQ6>

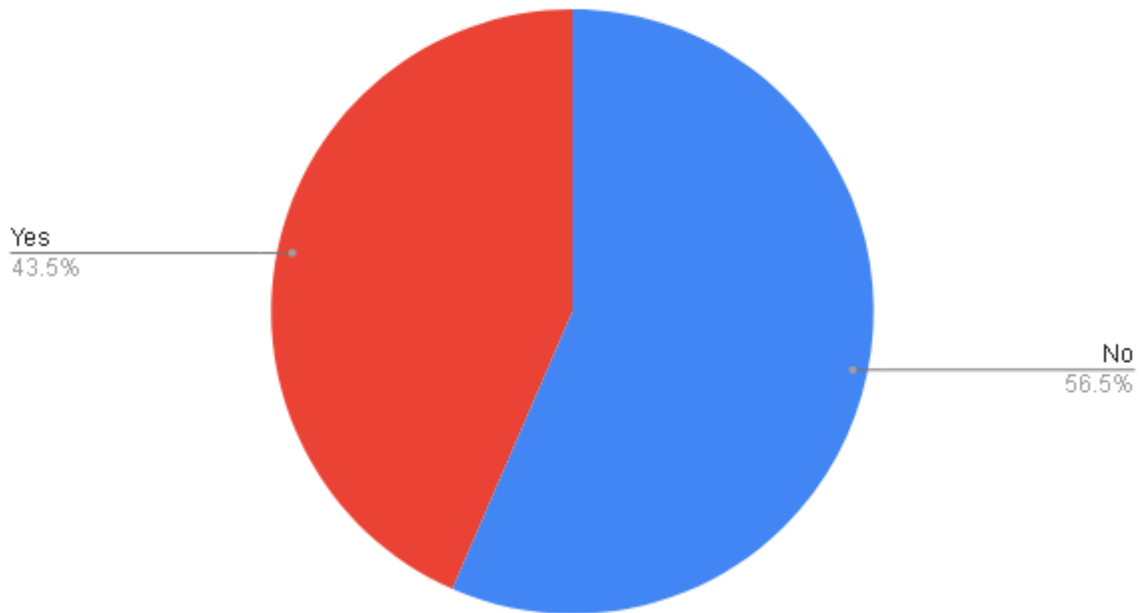
**Criterion 1**

**Certificate Programs**

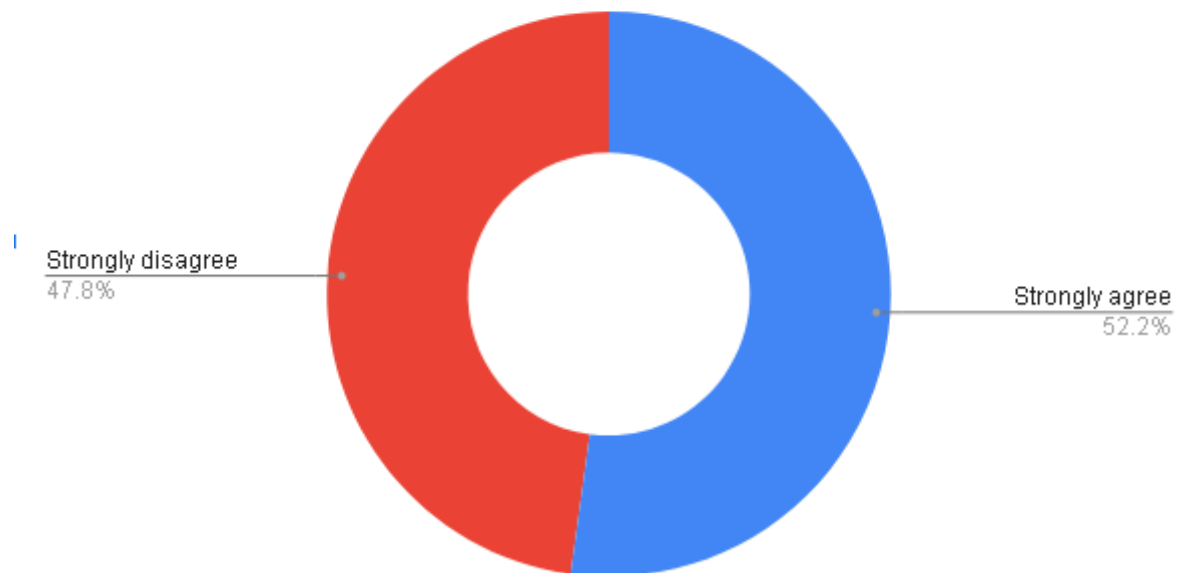




Count of Q.1 Where objectives of the session clear to you? ⋮



Count of Q.2 The session exposed you to new knowledge and practices. ⋮



## Criterion 1

## Certificate Programs



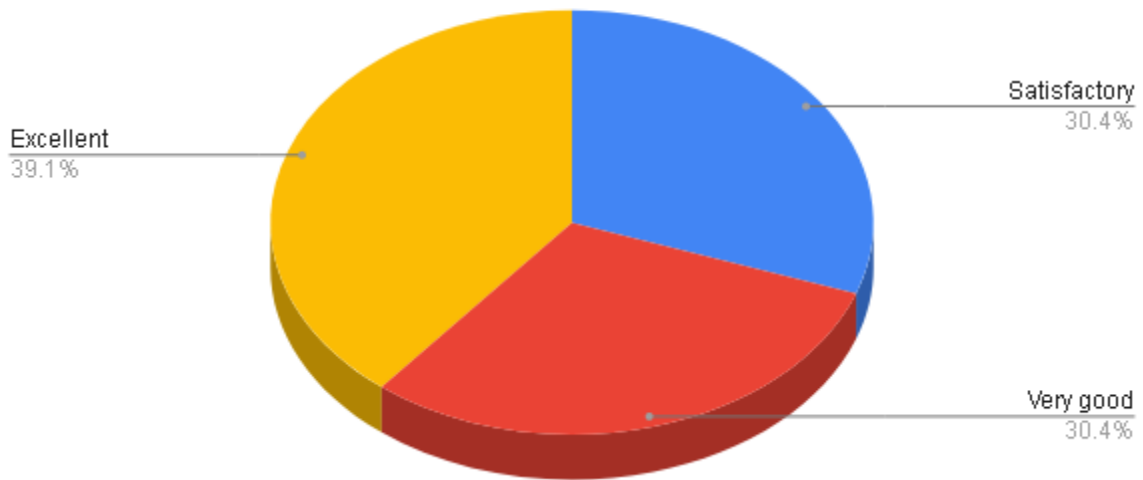
Established In 1998

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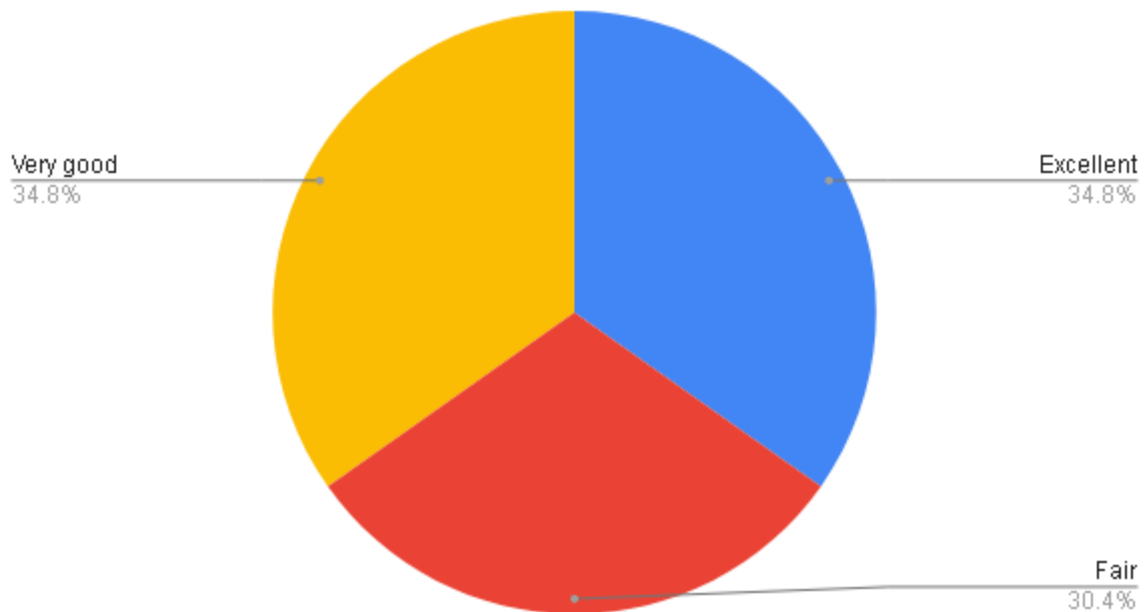
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Count of Q.3 Contribution of lecture to your skill/knowledge. ⋮



Count of Q.4 Time management by session speaker. ⋮



**Criterion 1**

**Certificate Programs**



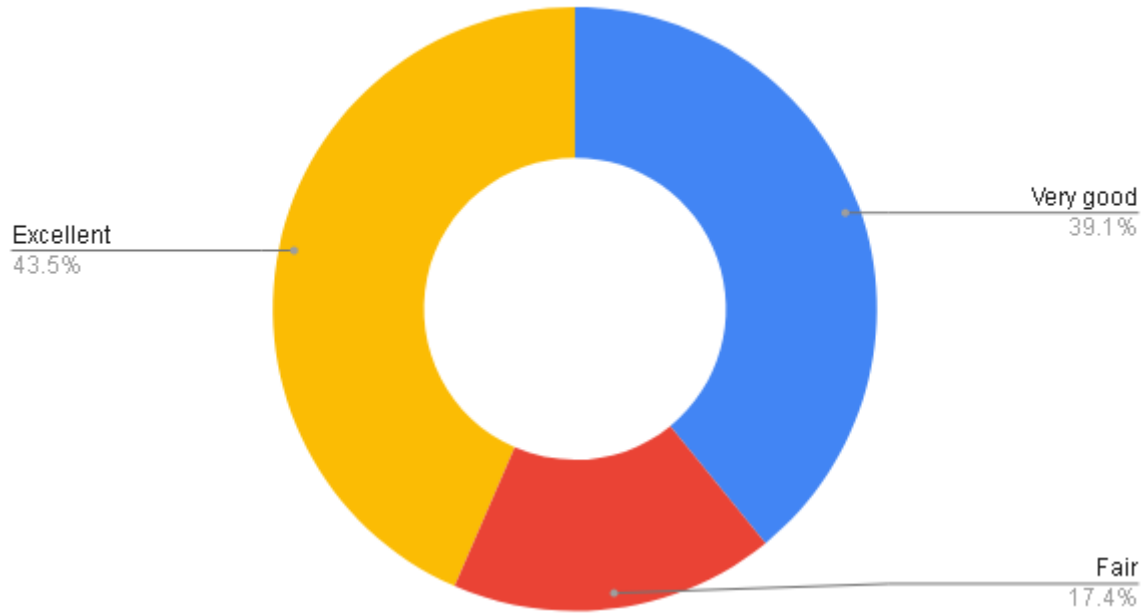
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## Count of Q.5 Communication Skill of Speaker.



**Criterion 1**

**Certificate Programs**



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**A**  
**Certificate Course**  
**On**  
**Automation of Industrial**  
**Control Process**  
**Report**

**Venue: Online Mode**

**Date: 23/08/2021 to 10/09/2021**

**Resource person: Mr.Prashant Bawney**

**Criterion 1**

**Certificate Programs**



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## **Course Objective:**

A certificate course on **Automation of Industrial Control** is organized for students of Electrical department. From the feedback received from Employers, it has been analysed that knowledge of PLC programming from scratch to advanced level is required in applying it to ground breaking industrial processes. This course provides the practical foundations necessary to automate real world industrial processes. PLC are being used in every Process & Manufacturing Industries, besides knowing the Wiring & Connection, one must know how to program a PLC. Unless, you know how the brain works, it's extremely difficult to troubleshoot a process. This course will explain how you can Wire, Design & Program a PLC.

## **Course Syllabus:**

- SCADA Experiments
- PLC Programming Experiments
- AC Servo Motor Control using dSPACE
- Energy Management in Centrifugal pumps by Variable Frequency Drive
- Stepper Motor speed control and step angle control using 8051 Microcontroller
- Measuring Force and thrust of a Linear Induction Motor
- Measurement of breaking Torque for Eddy Current Control drive
- Vector control drive for 3 phase Induction motor using FPGA
- STATCOM and FACTS based Experiments
- Experiments on LabVIEW and MATLAB

## **Course Outcome:**

This course makes the student to learn about the practical foundations necessary to automate real world industrial processes. PLC are being used in every Process & Manufacturing Industries, besides knowing the Wiring & Connection, and also learned how to program a PLC.

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## NOTICE

Date: 03/08/2021

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 03/08/2021, Time: 01:00 p.m. through Google meet

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of availability of expert) / external guest faculty or Agency Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

1. Principalmam
2. All Faculty members
3. IQAC

**Criterion 1**

**Certificate Programs**



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If You Aim High, We Provide The Means

Date: 04/08/2021

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 03/08/2021, Time: 01:00 p.m. in Google meet. Discussion on the following points has been done.

1. It has been decided that a Certificate Course on Automation of Industrial Control Process will be conducted from 23/08/2021 to 10/09/2021 for 30 hours.
2. Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course online.
3. The title of the course will be Automation of Industrial Control Process
4. Mr.Prashant Bawney, Assistant Professor of Electrical Engineering Department will be conducting the classes
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day in google meet.
7. Venue for the course conduction is Google meet.

HOD

Department of Electrical Engineering

**Copy to:**

Principal  
All Faculty members  
IQAC

**Criterion 1**

**Certificate Programs**



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## NOTICE

Date: 10/08/2021

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical and Electrical and Electronics Branch are hereby informed that we are planning to conduct a certificate course on Automation of Industrial Control Process for 2 hours from 23/08/2021 to 10/09/2021 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 21.08.2021

HOD

Department of Electrical Engineering

**Criterion 1**

**Certificate Programs**





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### Enrolment List

S.No	ROLL NO.	NAME
1	BD0339	DEEPAK CHAUDHARY
2	AQ1999	DUJENDRA KUMAR SAHU
3	BB7773	JAYANT KUMAR
4	AS1009	KAMLESH DAMAHE
5	BJ0423	RAJKUMAR
6	BI1505	ROVINS XESS
7	BF1033	SHIVENDRA PANIGRAHI
8	AO5077	SUGAM BAKSHI

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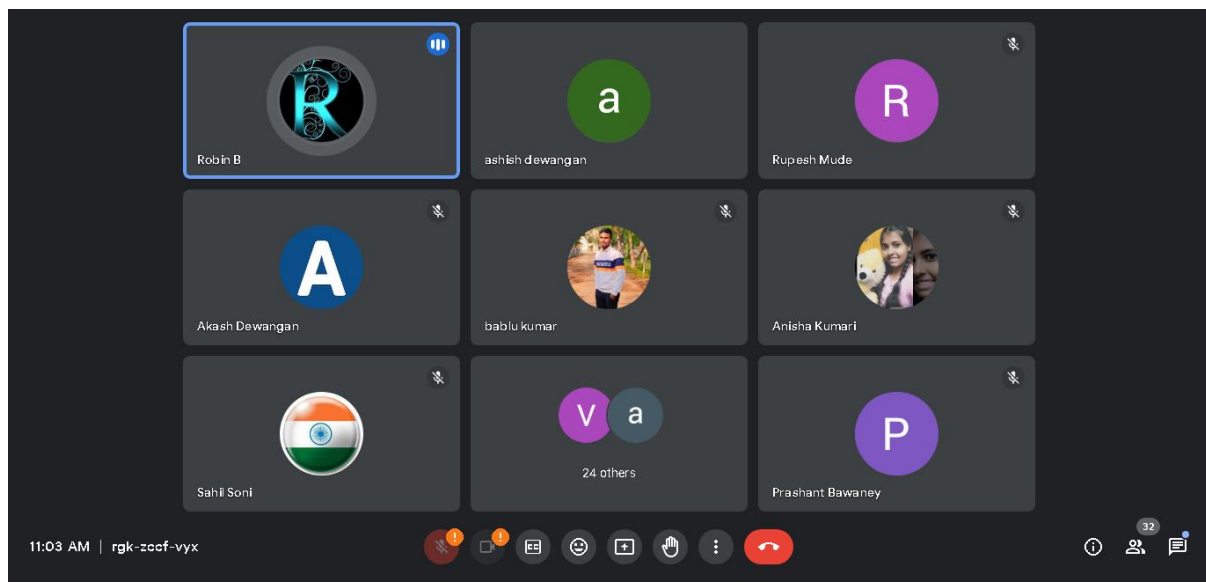
If You Aim High, We Provide The Means

## Report On “A certificate course on Automation of Industrial Control Process”:

“A Certificate Course on Automation of Industrial Control Process” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 23/08/2021 to 10/09/2021 in google meet. A total of 8 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Prashant Bawney, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about Signal Processing Toolbox.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students are very pleased about the practical sessions conducted during the course and have recommended for similar type of Certificate Courses to be.

### Photographs



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## Sample of Certificate

	Established In 1998	Approved by AICTE and Affiliated to CSVTU, Bhilai
<b>CHRISTIAN COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b>	Managed By St. Thomas Mission, Bhilai	If You Aim High, We Provide The Means
<b>CERTIFICATE OF APPRECIATION</b>		
THIS IS TO CERTIFY THAT MR/MS. <u>Rovins Xess</u> OF		
<u>7th</u> SEMESTER, BRANCH <u>Electrical Engineering</u> HAVE		
PARTICIPATED AND SUCCESSFULLY COMPLETED THE CERTIFICATE		
COURSE ON <u>Automation of Industrial Control Process</u> ORGANISED BY		
ELECTRICAL ENGINEERING DEPARTMENT at CCET BHILAI FROM		
<u>23/08/2021 to 10/09/2021</u>		
HOD ELECTRICAL	PRINCIPAL	
	<b>DEPARTMENT OF ELECTRICAL ENGINEERING</b>	

**Criterion 1**

**Certificate Programs**



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## CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT MR/MS. Shivendra Panigrahi OF  
7th SEMESTER, BRANCH Electrical Engineering HAVE  
PARTICIPATED AND SUCCESSFULLY COMPLETED THE CERTIFICATE  
COURSE ON Automation of Industrial Control Process ORGANISED BY  
ELECTRICAL ENGINEERING DEPARTMENT at CCET BHILAI FROM  
23/08/2021 to 10/09/2021

HOD ELECTRICAL

PRINCIPAL



**DEPARTMENT OF ELECTRICAL ENGINEERING**



### **Feedback:**

Feedback link:

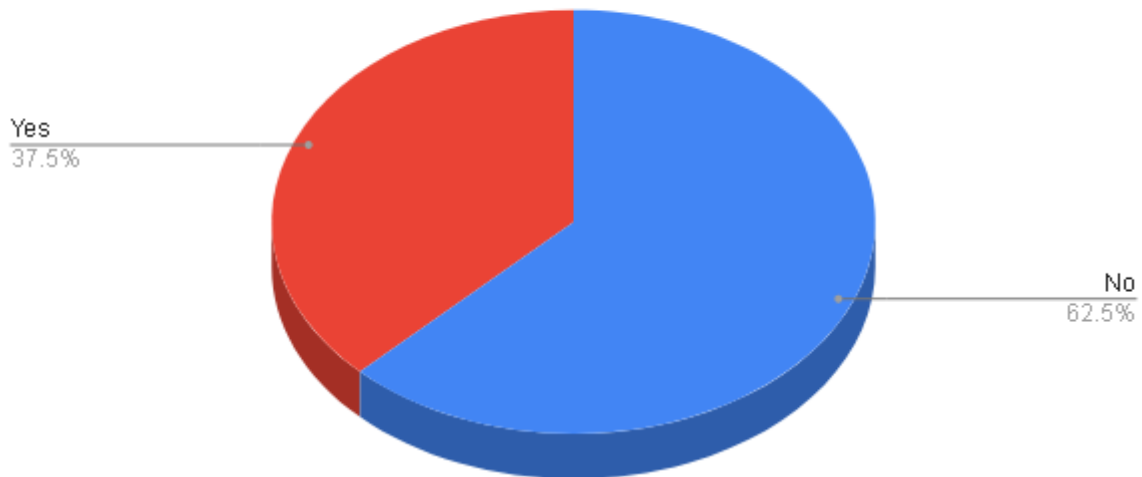
<https://forms.gle/BkZJPoJ5wY2NB6Tm7>

**Criterion 1**

**Certificate Programs**



Count of Q.1 Where objectives of the session clear to you? ⋮



Count of Q.2 The session exposed you to new knowledge and practices. ⋮



**Criterion 1**

**Certificate Programs**



Count of Q.3 Contribution of lecture to your skill/knowledge. ⋮



Count of Q.4 Time management by session speaker. ⋮



## Criterion 1

### Certificate Programs



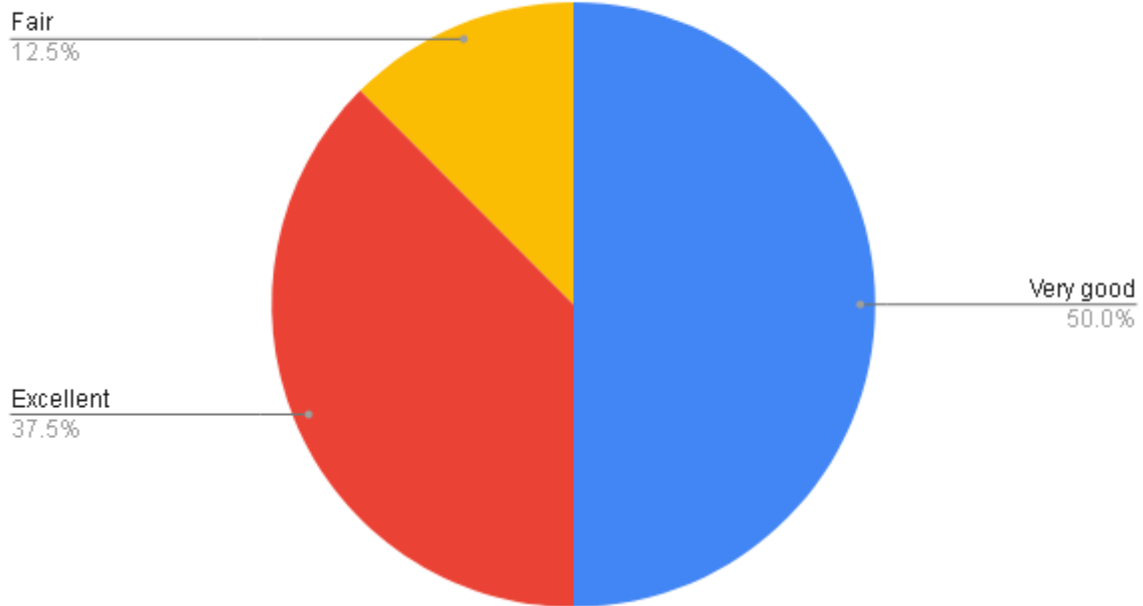
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## Count of Q.5 Communication Skill of Speaker.



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**Certificate Programs**



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**A**  
**Certificate Course**  
**On**  
**DSP using MATLAB**  
**Report**

**Venue : CCET Bhilai**

**Date: 21/03/2022 to 08/04/2022**

**Name of resource person:**  
**Mr.AshishDewangan**

**Criterion 1**

**Certificate Programs**





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## **Course Objective:**

A certificate course on DSP using MATLAB is organized for students of Electrical department. Form the feedback received from Employers, it has been analysed that knowledge of Digital Signal Processing with MATLAB is required for industrial processes. The course imparts knowledge about Signal Processing Toolbox that provides functions and applications to analyze, preprocess, and extract features from uniformly and nonuniformly sampled signals. The toolbox includes tools for filter design and analysis, resampling, smoothing, detrending, and power spectrum estimation

## **Detail of Resource Person: Mr.AshishDewangan, Assistant Professor, CCET Bhilai**

## **Target Audience:**

- 1 Engineering students of 3rd & 4th year (Electrical Engineering )
- 2 A total of 11 students enrolled and 11 students participated in the program

## **Course Syllabus:**

- Recursive and non-recursive difference equations
- Signal flow-graphs and their implementation by simple computer programs
- Linearity, time invariance and impulse-response for discrete time systems
- Definition of finite impulse response (FIR) and infinite impulse response (IIR) type digital filters
- Stability and causality
- Time-domain convolution
- Frequency response as discrete time Fourier transform (DTFT) of impulse-response
- Gain and phase responses
- Linear phase and group delay
- Inverse DTFT

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- Use of MATLAB for analysing digital filters

### **Course Outcome:**

The students will learn about Signal Processing Toolbox that provides functions and applications to analyze, preprocess, and extract features from uniformly and non uniformly sampled signals.



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## NOTICE

Date: 13/03/2022

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 13/03/2022, Time: 01:00 p.m.  
Venue: HOD Cabin

### **Agenda of the meeting:**

- 1 Finalization of Certificate Course
- 2 In-house (in case of availability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

1. Principalmam
2. All Faculty members
3. IQAC

**Criterion 1**

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Date: 04/03/2022

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 13/03/2022, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. From the feedbacks received from alumini in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Electrical Engineering Department
2. It has been decided that a Certificate Course on **DSP using MATLAB** will be conducted from 21/03/2022 to 08/04/2022 for 30 hours.
3. Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical as well as Electrical and Electronics Engineering are eligible to attend the course
4. The title of the course will be DSP using MATLAB
5. Mr.Ashish Dewangan, Assistant Professor of Electrical Engineering Department will be conducting the classes
6. The course conducted will be free of cost
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab

HOD

Department of Electrical Engineering

### Copy to:

1. Principal
2. All Faculty members
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**Criterion 1**

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## NOTICE

Date: 11/03/2022

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical and Electronics Branch are hereby informed that we are planning to conduct a certificate course on **DSP using MATLAB** for 2 hours from 21/03/2022 to 08/04/2022 for 45 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 19.03.2022.

HOD

Department of Electrical Engineering

**Criterion 1**

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### Enrolment List

S.No	ENROLL NO.	NAME
1	BF5577	DEEPAK KUMAR
2	BK3995	PREMKUMAR YADAV
3	CA0711	SAHIL SONI
4	BD388	TRIBHUWAN
5	BE1010	VAIBHAV LAKSHMI DUBEY
6	BF6768	VISHNU RAM

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Attendance List

S.No	NAME	D ay 1	D ay 2	D ay 3	D ay 4	D ay 5	D ay 6	D ay 7	D ay 8	D ay 9	D ay 10	D ay 11	D ay 12	D ay 13	D ay 14	D ay 15	D ay 16	D ay 17	D ay 18	D ay 19	D ay 20		
1	DEEPAK KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak
2	PREMKUMAR YADAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Pranshu
3	SAHIL SONI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sahil
4	TRIBHUWAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Tribo
5	VAIBHAV LAKSHMI DUBEY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Kamru
6	VISHNU RAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Vishnu

**Criterion 1****Certificate Programs**



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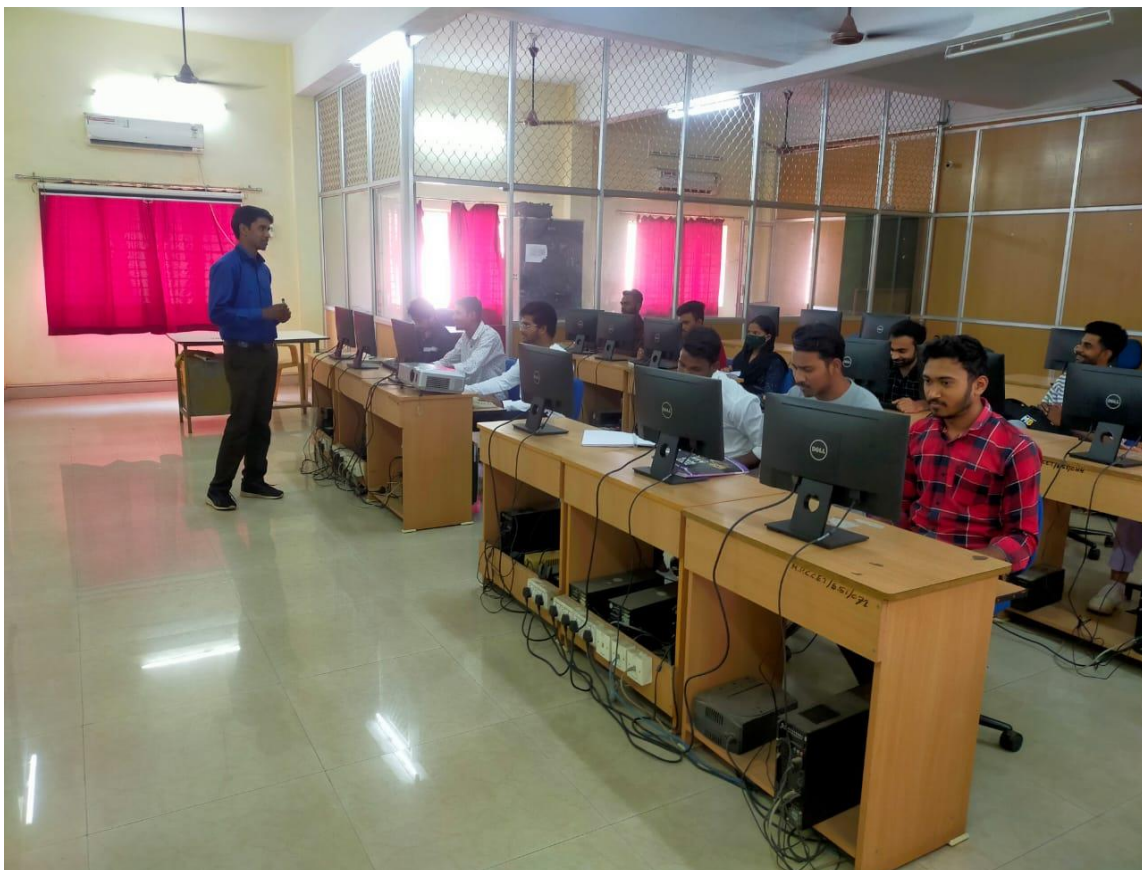
If You Aim High, We Provide The Means

## **Report On “A Certificate Course on DSP using MATLAB”**

“A Certificate Course on DSP using MATLAB” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 21/03/2022 to 08/04/2022 at Computer lab. A total of 6 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Ashish Dewangan, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about Signal Processing Toolbox.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of Matlab

### **Photographs**



**Criterion 1**

**Certificate Courses**





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## Sample of Certificate



**Criterion 1**

**Certificate Courses**



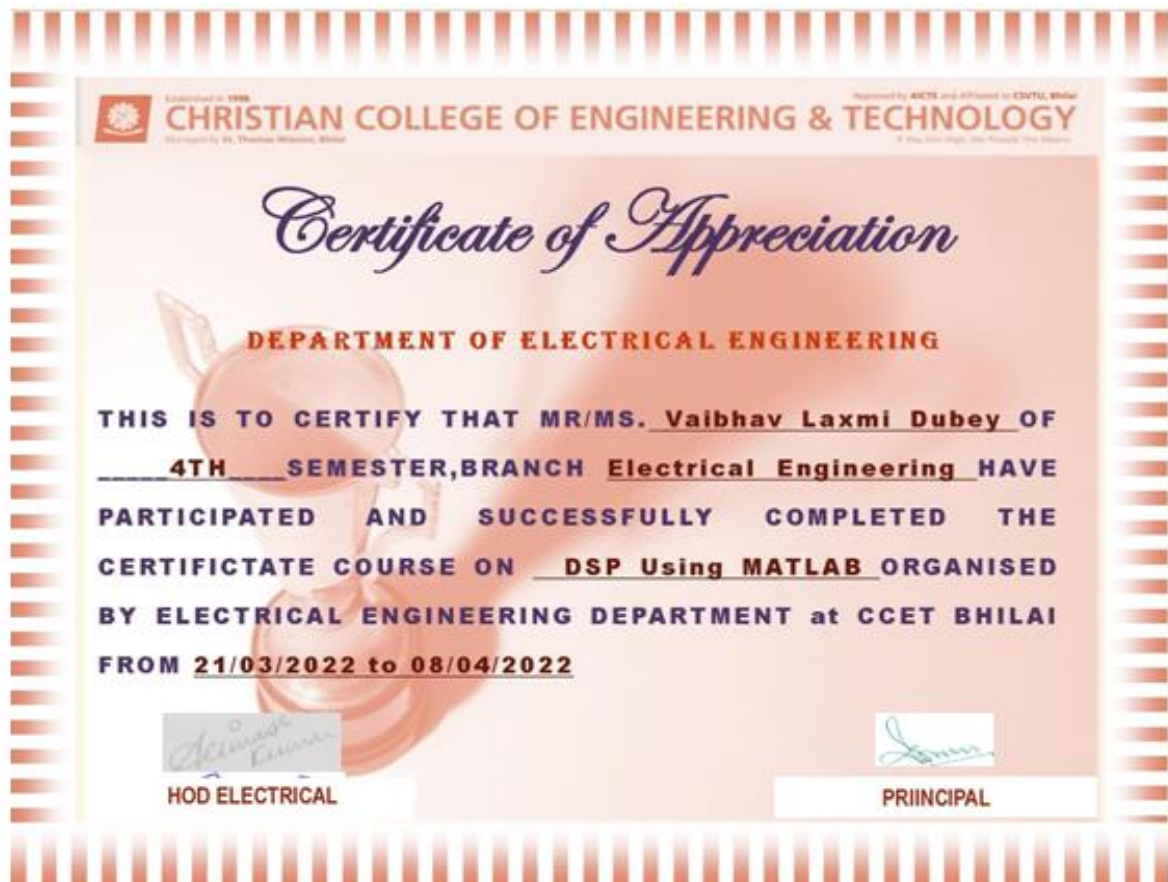
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**Feedback:**

Feedback link:

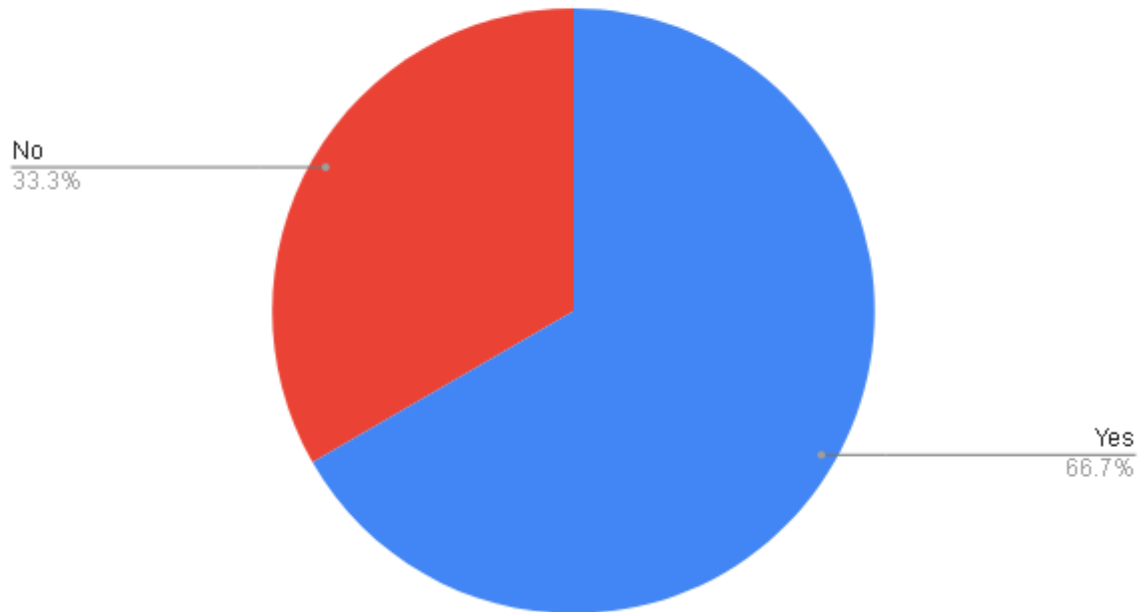
<https://forms.gle/isCVQoEjz6rNEdqS8>

**Criterion 1**

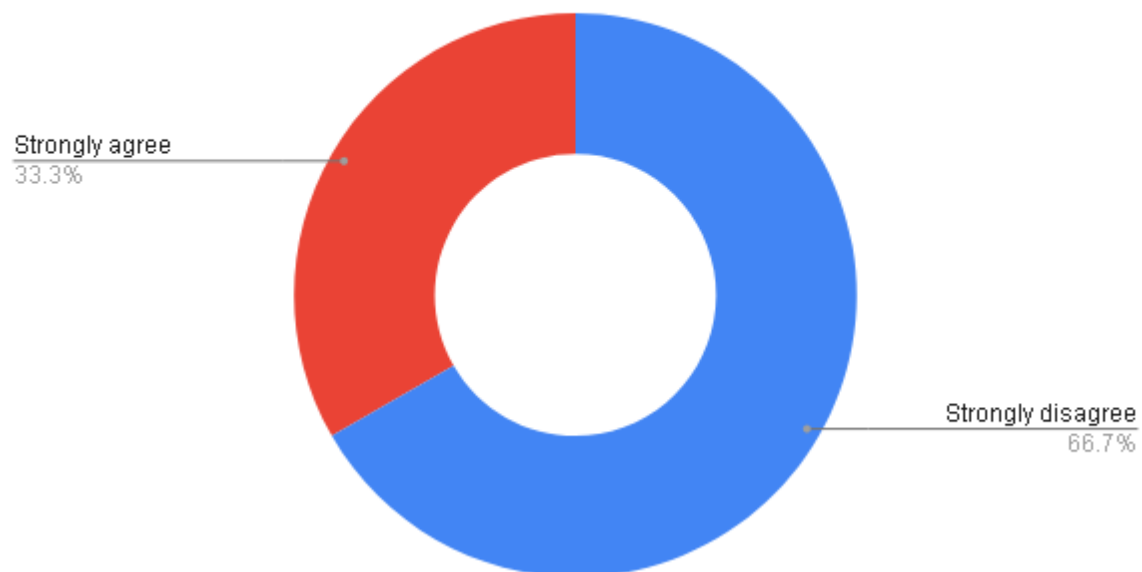
**Certificate Courses**



Count of Q.1 Where objectives of the session clear to you?



Count of Q.2 The session exposed you to new knowledge and practices.

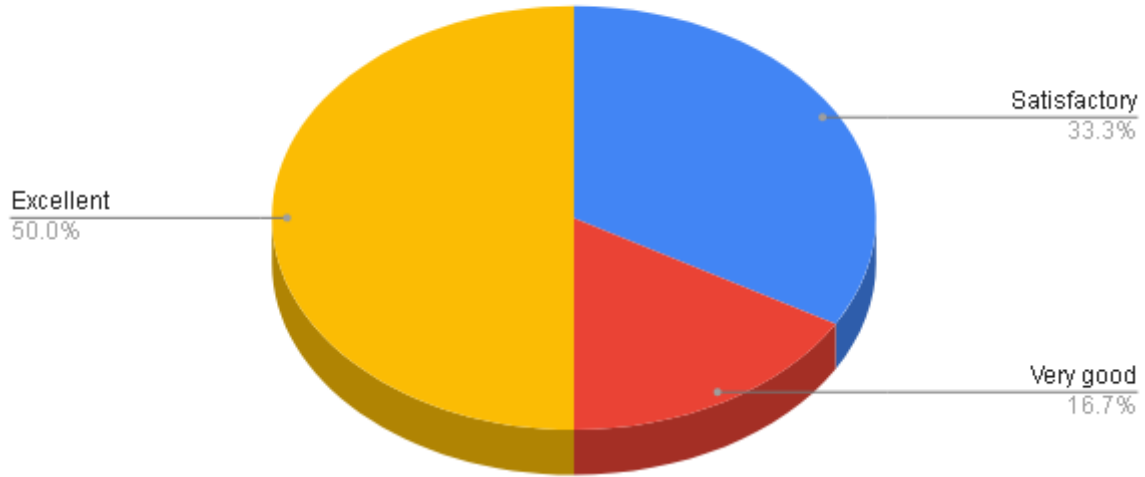


**Criterion 1**

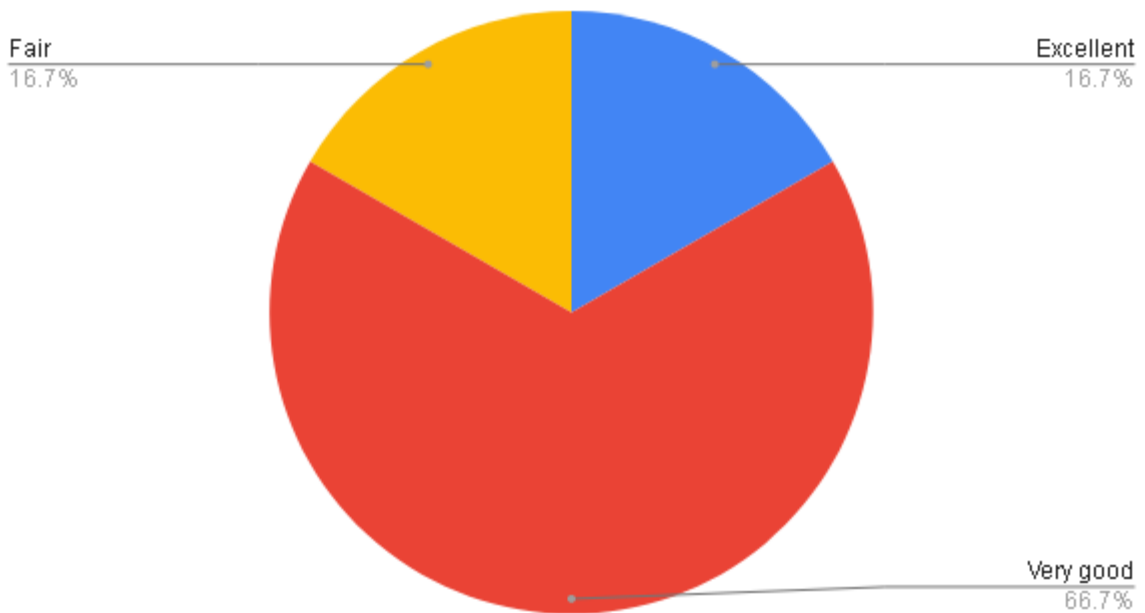
**Certificate Courses**



Count of Q.3 Contribution of lecture to your skill/knowledge. ⋮



Count of Q.4 Time management by session speaker. ⋮



**Criterion 1**

**Certificate Courses**



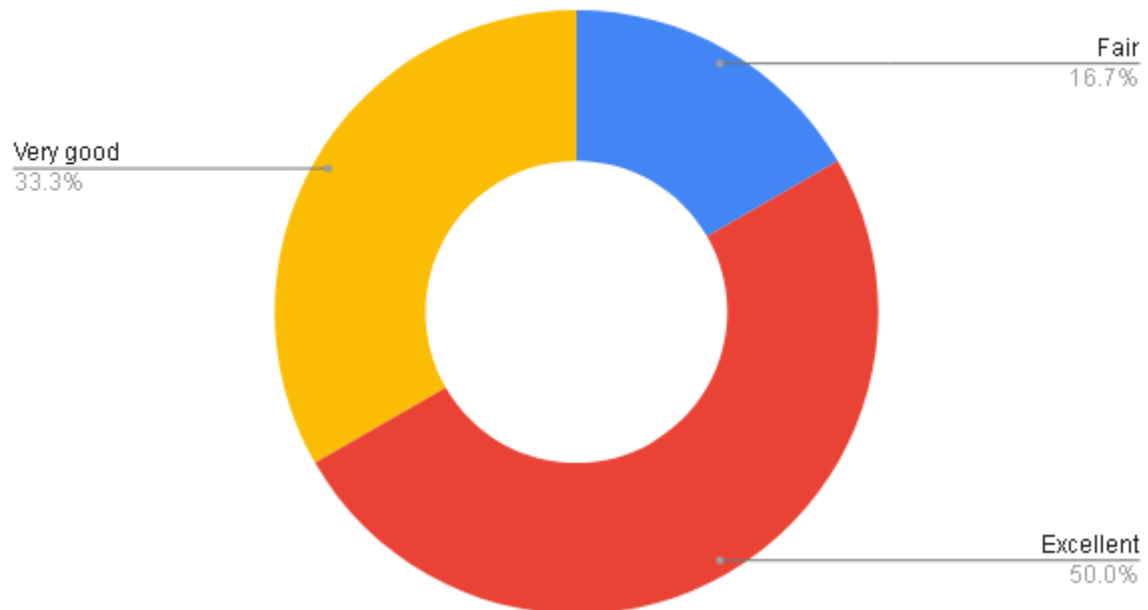
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## Count of Q.5 Communication Skill of Speaker.



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**A**  
**Certificate Course**  
**On**  
**Advanced Programming**  
**Paradigms in PLC**  
**Report**

**Venue :CCET Bhilai**

**Date: 22/08/2022 to 13/09/2022**

**Name of resource person: Mr. Akash  
Dewangan**

**Criterion 1**

**Certificate Courses**



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## **Course Objective:**

A certificate course on Advanced Programming Paradigms in PLCs is organized for students of Electrical department. From the feedback received from Employers, it has been analysed that knowledge of PLC programming from scratch to advanced level is required in applying it to ground breaking industrial processes. This course provides the practical foundations necessary to automate real world industrial processes. PLCs are being used in every Process & Manufacturing Industries, besides knowing the Wiring & Connection, one must know how to program a PLC. Unless, you know how the brain works, it's extremely difficult to troubleshoot a process. This course will explain how you can Wire, Design & Program a PLC.

## **Course Syllabus:**

- Introduction
- IEC 61131-3
- Architecture
- Ladder Programming
- Functional Block Diagram
- Sequential Function Chart
- Logic Function
- Instruction List
- Data Handling
- Continuous Function Chart (Non-IEC)

## **Course Outcome:**

The students learn the practical foundations necessary to automate real world industrial processes. PLCs are being used in every Process & Manufacturing Industries, besides knowing the Wiring & Connection, one must know how to program a PLC, and also gives brief explanation of how you can Wire, Design & Program a PLC.

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## NOTICE

Date: 02/08/2022

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 02/08/2022, Time: 01:00 p.m. Venue: HOD Cabin

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of availability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

1. Principalmam
2. All Faculty members
3. IQAC

**Criterion 1**

**Certificate Courses**





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Date: 03/08/2023

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 02/08/2022, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

- a. From the feedbacks received from students in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Electrical Engineering Department
- b. It has been decided that a Certificate Course on Advanced Programming Paradigms in PLC will be conducted from 22/08/2022 to 13/09/2022 for 30 hours.
- c. Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical Engineering are eligible to attend the course
- d. The title of the course will be Advanced Programming Paradigms in PLC
- e. Mr. Akash Dewangan, Assistant Professor of Electrical Engineering Department will be conducting the classes
- f. The course conducted will be free of cost
- g. The course will be conducted for 2 hours every day after college working hours.
- h. Venue for the course conduction is Computer Lab

HOD

Department of Electrical Engineering

### Copy to:

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2. All Faculty members
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## NOTICE

Date: 12/08/2022

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Branch are hereby informed that we are planning to conduct a certificate course on Advanced Programming Paradigms in PLC for 2 hours from 22/08/2022 to 13/09/2022 for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 20.08.2022.

HOD

Department of Electrical Engineering

**Criterion 1**

**Certificate Courses**



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### Enrolment List

Sr. No.	Enroll No.	Name of Student
1	BF5577	DEEPAK KUMAR
2	BD417	HARISH KUMAR
3	AP9805	KAMLESHWAR
4	BK3995	PREMKUMAR YADAV
5	AP9934	RAKESH KUMAR
6	CA0711	SAHIL SONI

**Criterion 1**

**Certificate Courses**



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Attendance List

S.No	NAME	D ay 1	D ay 2	D ay 3	D ay 4	D ay 5	D ay 6	D ay 7	D ay 8	D ay 9	D ay 10	D ay 11	D ay 12	D ay 13	D ay 14	D ay 15	D ay 16	D ay 17	D ay 18	D ay 19	D ay 20		
1	DEEPAK KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak
2	HARISH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Harish
3	KAMLESHWAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kamal
4	PREMKUMAR YADAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Prem
5	RAKESH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Rakesh
6	SAHIL SONI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sahil

**Criterion 1**

**Certificate Courses**



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## **Report On “A Certificate Course On Advanced Programming Paradigms in PLC”**

“A Certificate Course on Advanced Programming Paradigms in PLC” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 22/08/2022 to 13/09/2022 at computer lab. A total of 6 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Akash Dewangan, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students with Programming Paradigms in PLC.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of Automation.

### **Photographs**



**Criterion 1**

**Certificate Courses**



Established In 1998

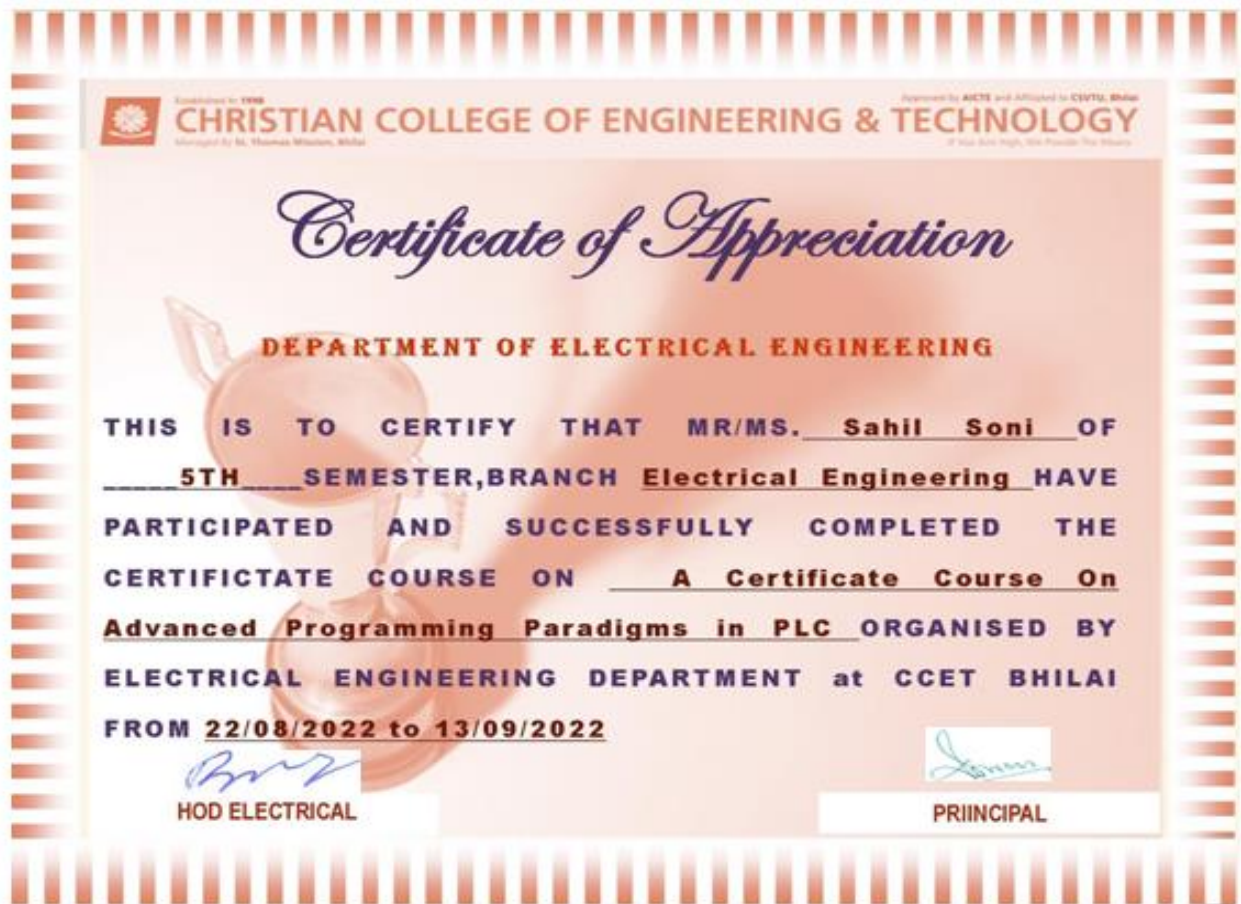
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## Sample of Certificate



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**Certificate Courses**



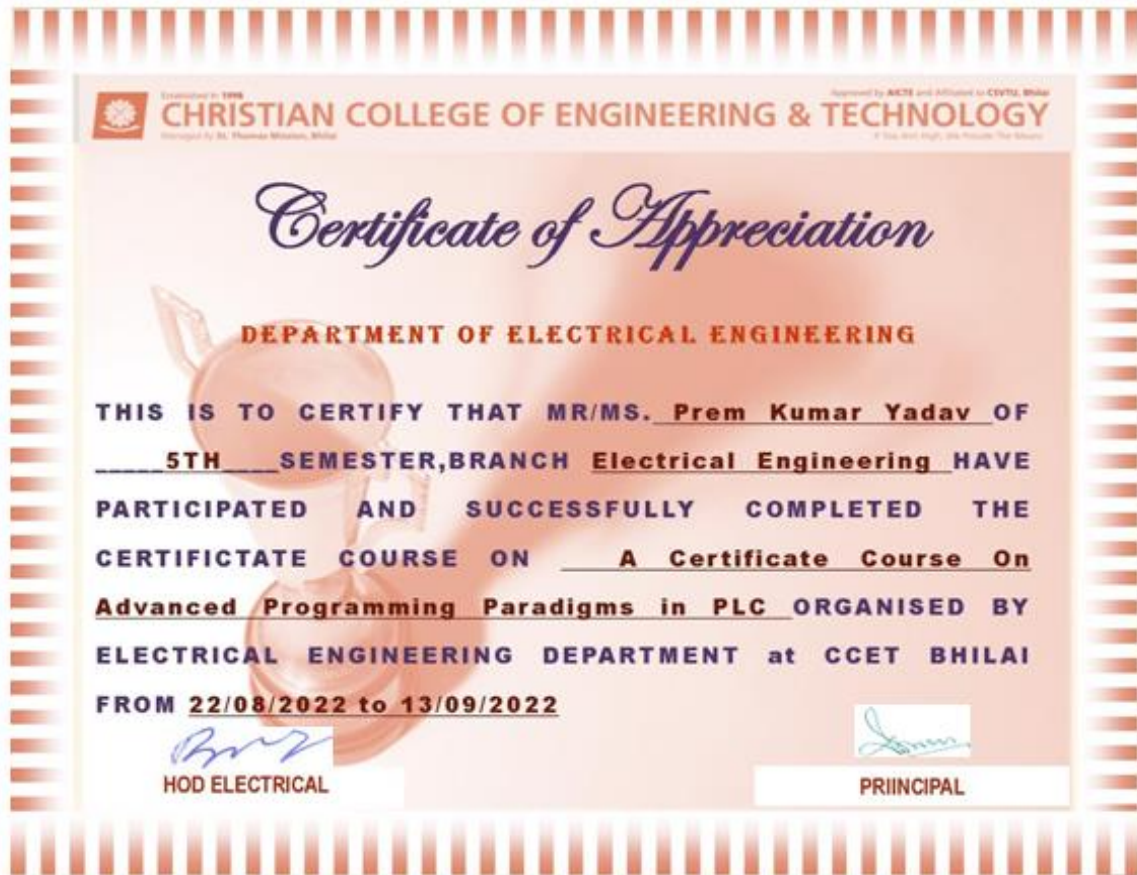
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### Feedback:

Feedback link:

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**Criterion 1**

**Certificate Courses**



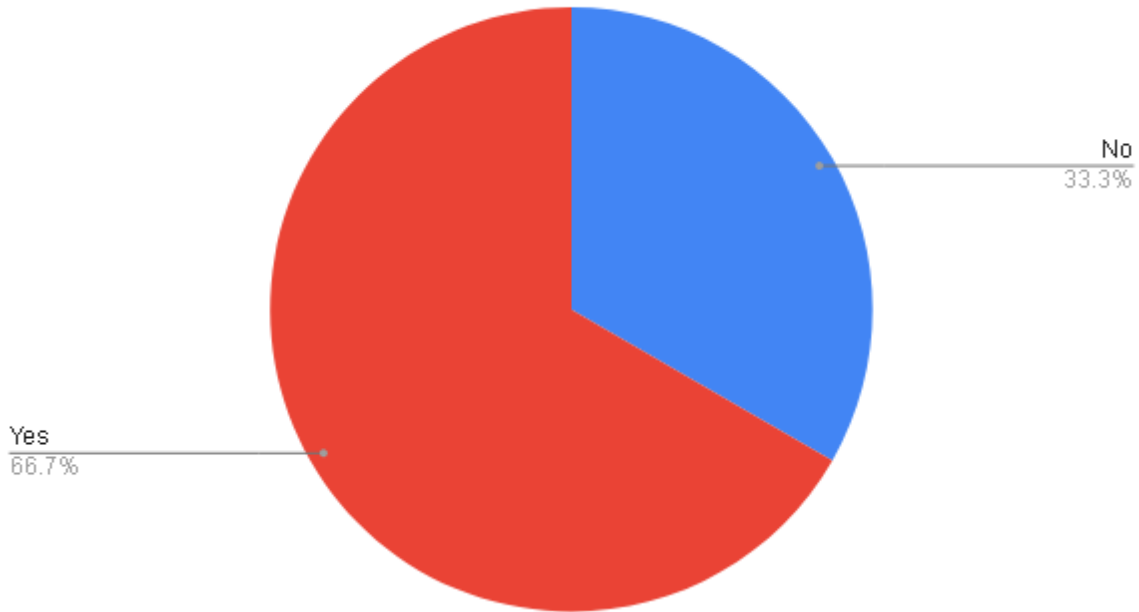
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Count of Q.1 Where objectives of the session clear to you?



Count of Q.2 The session exposed you to new knowledge and practices.



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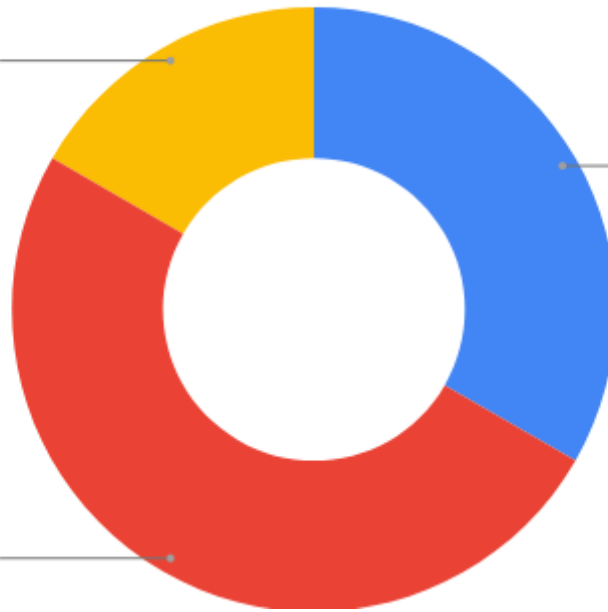
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## Count of Q.3 Contribution of lecture to your skill/knowledge.

Satisfactory  
16.7%

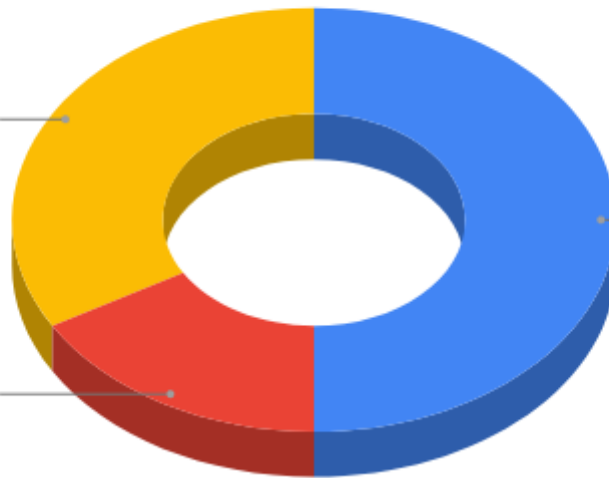


Very good  
33.3%

Excellent  
50.0%

## Count of Q.4 Time management by session speaker.

Excellent  
33.3%



Very good  
50.0%

Fair  
16.7%

### Criterion 1

### Certificate Courses



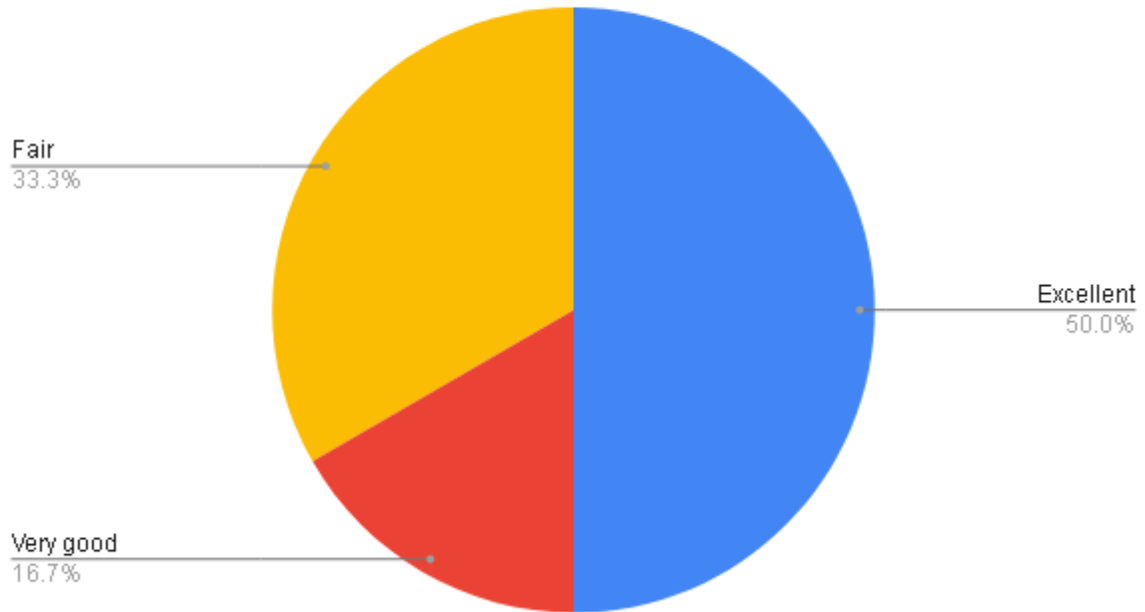
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## Count of Q.5 Communication Skill of Speaker.



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**A**  
**Certificate Course**  
**On**  
**MATLAB using Object**  
**Concepts**  
**Report**

**Venue: CCET Bhilai**

**Date: 20/03/2023 to 12/04/2023**

**Resource person: Ms. Richa Sahu**

**Criterion 1**

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## NOTICE

Date: 02/03/2023

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 02/03/2023, Time: 01:00 p.m.  
Venue: HOD Cabin

### **Agenda of the meeting:**

1. Finalization of Certificate Course
2. In-house (in case of unavailability of expert) / external guest faculty or Agency  
Number of hours/days, Venue and Eligibility of Participants

HOD

Department of Electrical Engineering

### **Copy to:**

1. Principal
2. All Faculty members
3. IQAC

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Date: 03/03/2023

## Minutes of Meeting

A departmental meeting of teaching and non teaching staff with HOD was held on date: 02/03/2023, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. From the feedbacks received from students in the last semester, analysis were made and a Certificate Course is planned to be arranged by the Electrical Engineering Department
2. It has been decided that a Certificate Course on MATLAB with Object Concepts will be conducted from 20.03.2023 to 12.04.2023 for 30 hours.
3. Students of 3<sup>rd</sup> and 4<sup>th</sup> year studying in Electrical as well as Electrical and Electronics Engineering are eligible to attend the course
4. The title of the course will be Automation
5. Ms Richa Sahu Assistant Professor of Electrical Engineering Department will be conducting the classes
6. The course conducted will be free of cost
7. The course will be conducted for 2 hours every day after college working hours.
8. Venue for the course conduction is Computer Lab

HOD

Department of Electrical Engineering

### Copy to:

1. Principal
2. All Faculty members
3. IQAC

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## NOTICE

Date: 10/03/2023

All the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Branch are hereby informed that we are planning to conduct a certificate course on MATLAB with Object Concepts which will be conducted from 20.03.2023 to 12.04.2023 for 2 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In charges earliest by 18.03.2023. Ms Richa Sahu Assistant Professor of Electrical Engineering Department will be conducting the classes.

HOD

Department of Electrical Engineering

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## **Course Objective:**

MATLAB is a popular language for numerical computation. This course introduces students to MATLAB programming, and demonstrate it's use for scientific computations. The basis of computational techniques are expounded through various coding examples and problems, and practical ways to use MATLAB will be discussed.

The objective of this course is to introduce undergraduate students to computational methods using MATLAB. At the end of this course, a student would:

- Learn basics of MATLAB programming
- Get introduced to numerical methods for engineering problems
- Will be able to use MATLAB to solve computational problems

## **Course Syllabus covered during the session:**

### **Module 1: Introduction to MATLAB Programming**

This module will introduce the students to MATLAB programming through a few examples.

- ❖ Basics of MATLAB programming
- ❖ Array operations in MATLAB
- ❖ Loops and execution control
- ❖ Working with files: Scripts and Functions
- ❖ Plotting and program output

### **Module 2: Approximations and Errors**

Taylor's / Maclaurin series expansion of some functions will be used to introduce approximations and errors in computational methods

- ❖ Defining errors and precision in numerical methods
- ❖ Truncation and round-off errors
- ❖ Error propagation, Global and local truncation errors

### **Module 3: Numerical Differentiation and Integration**

Methods of numerical differentiation and integration, trade-off between truncation and round-off errors, error propagation and MATLAB functions for integration will be discussed.

- ❖ Numerical Differentiation in single variable

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- ❖ Numerical differentiation: Higher derivatives
- ❖ Differentiation in multiple variables
- ❖ Newton-Cotes integration formulae
- ❖ Multi-step application of Trapezoidal rule
- ❖ MATLAB functions for integration

#### **Module 4: Linear Equations**

- ❖ Linear algebra in MATLAB
- ❖ Gauss Elimination
- ❖ LU decomposition and partial pivoting
- ❖ Iterative methods: Gauss Siedel
- ❖ Special Matrices: Tri-diagonal matrix algorithm

#### **Module 5: Nonlinear Equations**

After introduction to bisection rule, this module primarily covers Newton-Raphson method and MATLAB routines fzero and fsolve.

- ❖ Nonlinear equations in single variable
- ❖ MATLAB function fzero in single variable
- ❖ Fixed-point iteration in single variable
- ❖ Newton-Raphson in single variable
- ❖ MATLAB function fsolve in single and multiple variables
- ❖ Newton-Raphson in multiple variables

#### **Module 6: Regression and Interpolation**

The focus will be practical ways of using linear and nonlinear regression and interpolation functions in MATLAB.

- ❖ Introduction
- ❖ Linear least squares regression(including lsqcurvefit function)
- ❖ Functional and nonlinear regression (including lsqnonlin function)
- ❖ Interpolation in MATLAB using spline and pchip

#### **Module 7: Ordinary Differential Equations (ODE) – Part 1**

Explicit ODE solving techniques in single variable will be covered in this module.

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- ❖ Introduction to ODEs; Implicit and explicit Euler's methods
- ❖ Second-Order Runge-Kutta Methods
- ❖ MATLAB ode45 algorithm in single variable
- ❖ Higher order Runge-Kutta methods
- ❖ Error analysis of Runge-Kutta method

### **Module 8: Ordinary Differential Equations (ODE) – Practical aspects**

This module will cover ODE solving in multiple variables, stiff systems, and practical problems.

- ❖ MATLAB ode45 algorithm in multiple variables
- ❖ Stiff ODEs and MATLAB ode15s algorithm
- ❖ Practical example for ODE-IVP
- ❖ Solving transient PDE using Method of Lines

### **Course Outcome:**

The students learn MATLAB programming, and demonstrate its use for scientific computations. The basis of computational techniques are expounded through various coding examples and problems, and practical ways to use MATLAB.

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### Enrolment List

<b>Sr. No.</b>	<b>Enroll No.</b>	<b>Name of Student</b>
1	BD0339	DEEPAK CHAUDHARY
2	AQ1999	DUJENDRA KUMAR SAHU
3	BB7773	JAYANT KUMAR
4	BJ0423	RAJKUMAR
5	BI1505	ROVINS XESS
6	BF1033	SHIVENDRA PANIGRAHI
7	AO5077	SUGAM BAKSHI
8	BI1506	VEDINA XAXA

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## Attendance List

S.No	NAME	D ay 1	D ay 2	D ay 3	D ay 4	D ay 5	D ay 6	D ay 7	D ay 8	D ay 9	D ay 10	D ay 11	D ay 12	D ay 13	D ay 14	D ay 15	D ay 16	D ay 17	D ay 18	D ay 19	D ay 20		
1	DEEPAK CHAUDHARY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>R</i>
2	DUJENDRA KUMAR SAHU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	<i>Dujendra</i>
3	JAYANT KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Jayant</i>
4	RAJKUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>RL</i>
5	ROVINS XESS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	<i>Rovins</i>
6	SHIVENDRA PANIGRAHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Shivendra</i>
7	SUGAM BAKSHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Sugam</i>
8	VEDINA XAXA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Vedina</i>

### Criterion 1

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## **Report On “A Certificate Course On MATLAB using Object Concepts”**

“A Certificate Course on MATLAB using Object Concepts” for 30 hours was arranged for the students of 3<sup>rd</sup> and 4<sup>th</sup> year of Electrical Students from 20/03/2023 to 12/04/2023 at the computer lab. A total of 8 students enrolled themselves for the course and participated in the program. The sessions were conducted by Ms Richa Sahu. The main objective of the course was to introduce the students with Object-oriented programming concepts.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended a similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of Matlab.

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## Photographs



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**Certificate Courses**



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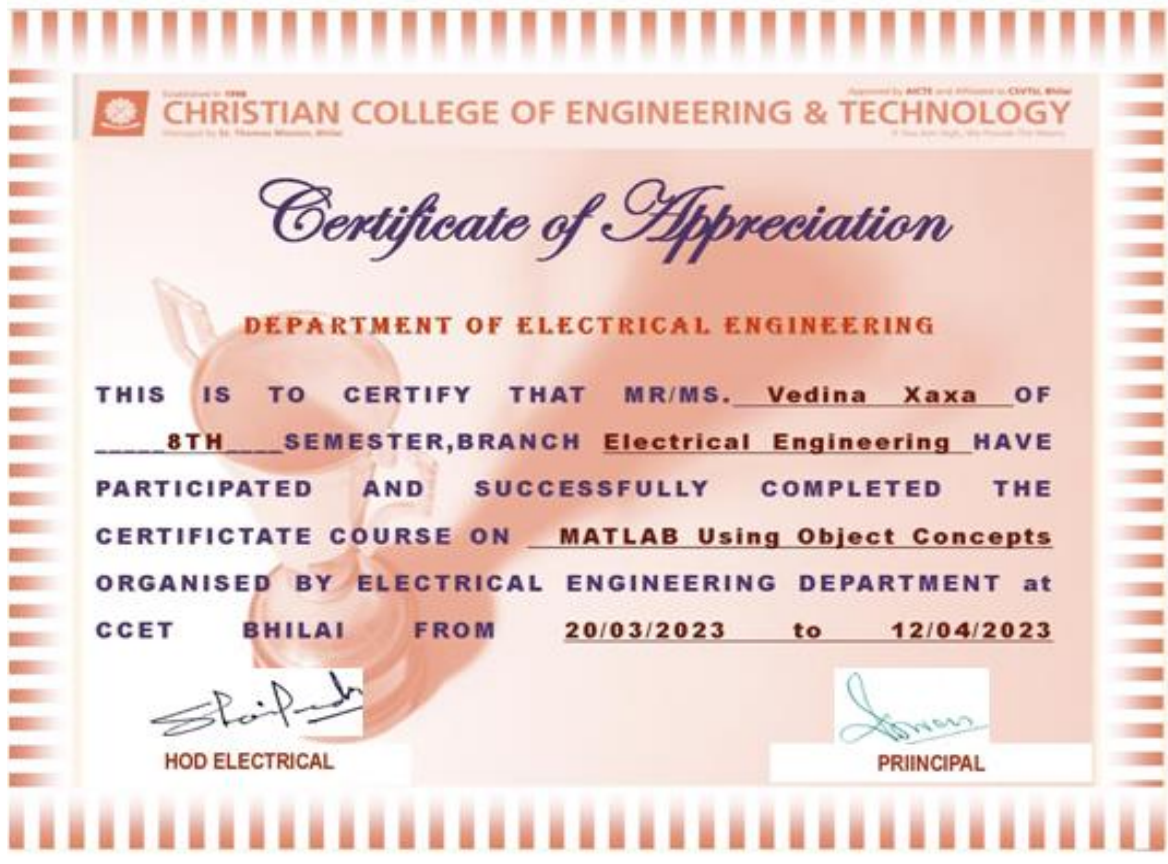
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## Sample of Certificate



**Criterion 1**

**Certificate Courses**



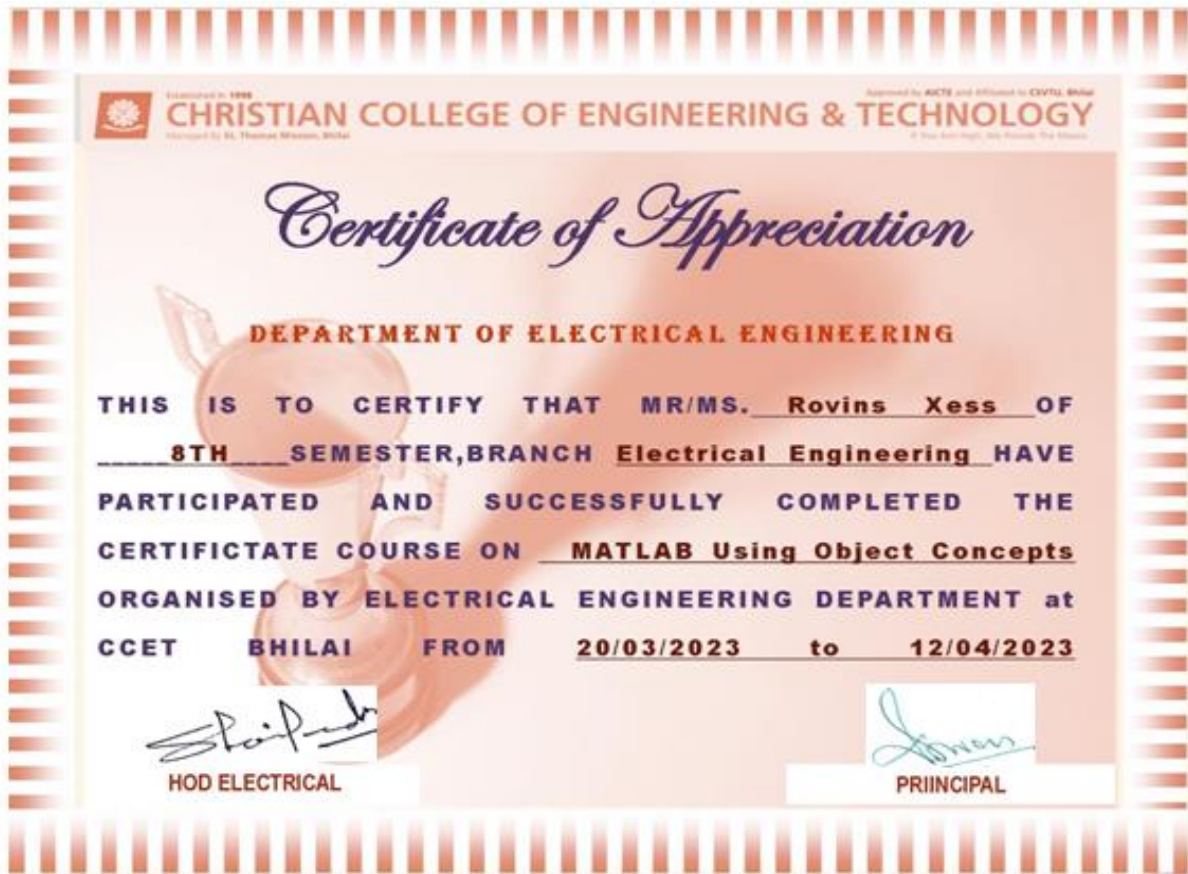
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### **Feedback:**

Feedback link:

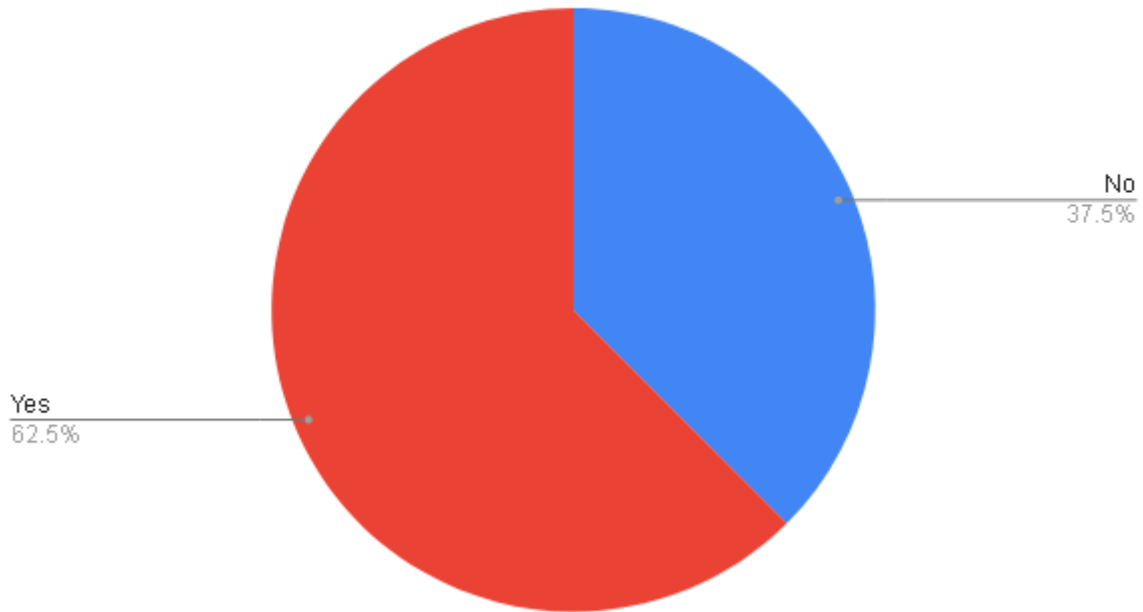
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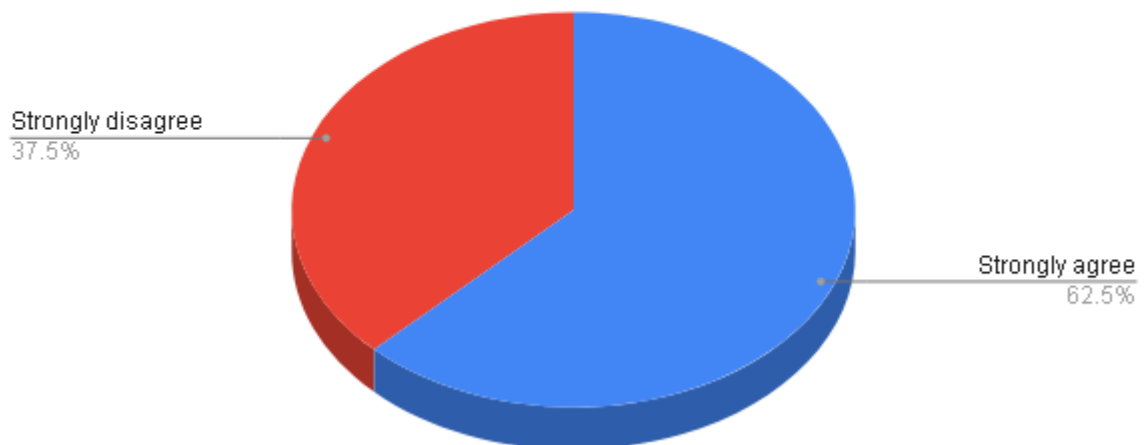
**Certificate Courses**



Count of Q.1 Where objectives of the session clear to you?



Count of Q.2 The session exposed you to new knowledge and practices.



**Criterion 1**

**Certificate Courses**





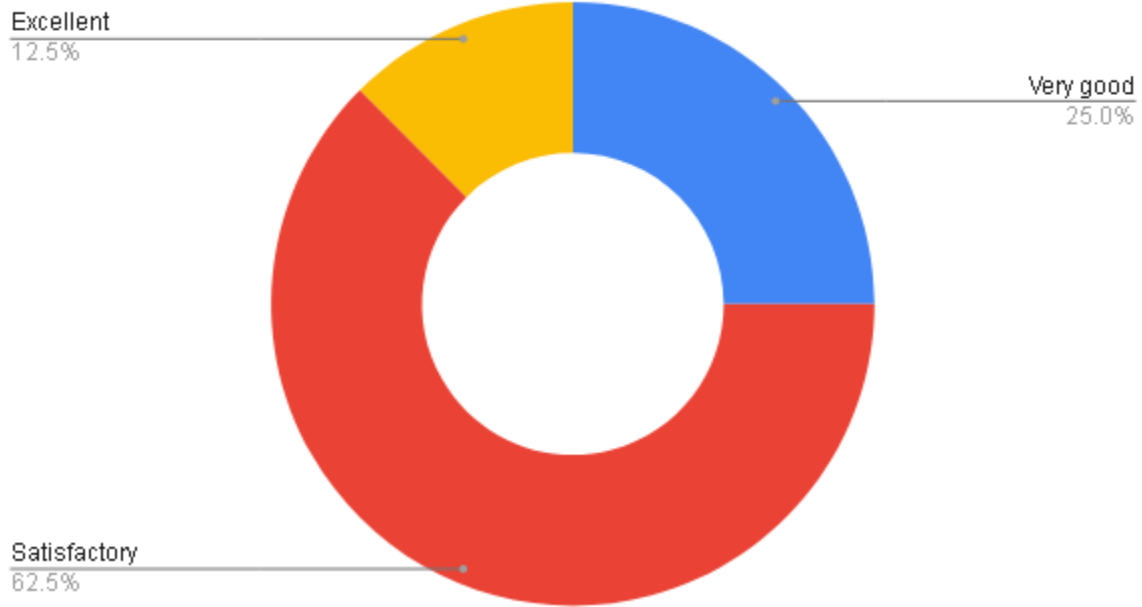
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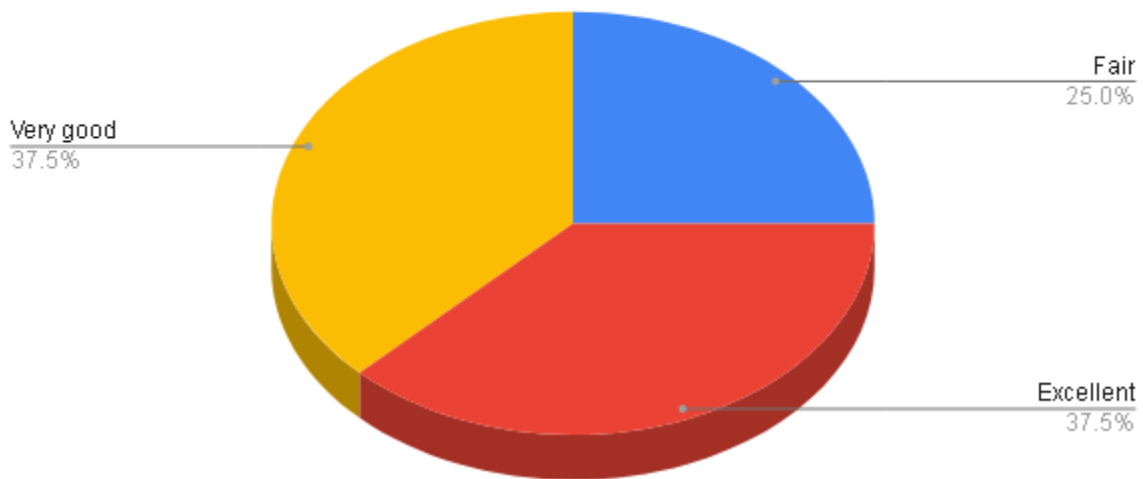
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## Count of Q.3 Contribution of lecture to your skill/knowledge.



## Count of Q.4 Time management by session speaker.



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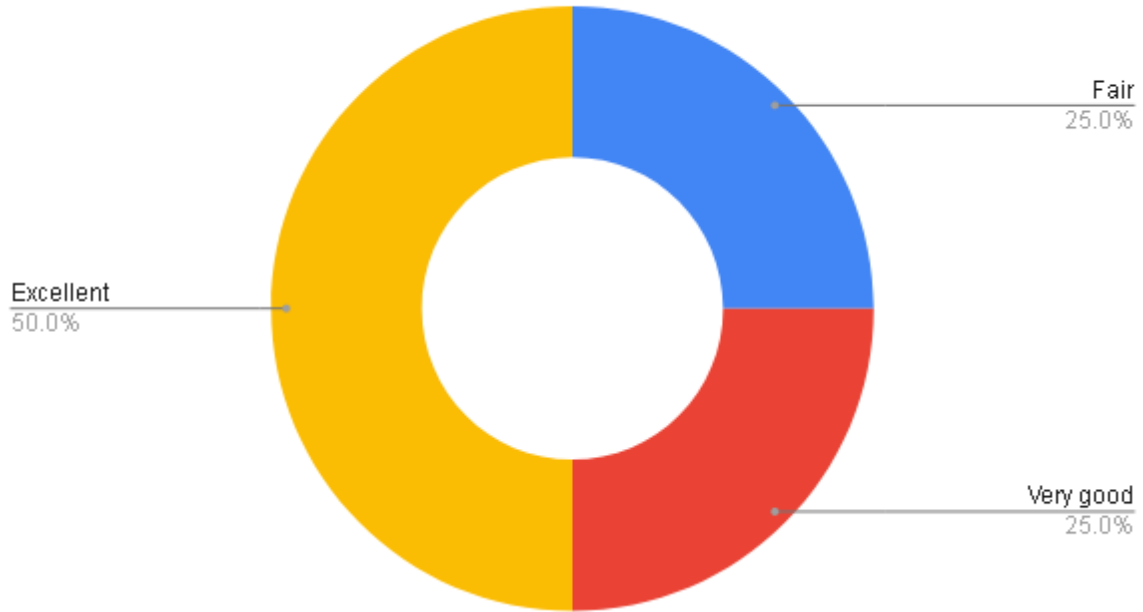
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## Count of Q.5 Communication Skill of Speaker.



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**Certificate/Value added Courses**

**Department of Basic Science and Humanities**

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## **INDEX**

SN	Academic Session	Topic	Resource Person	Duration
1	2018-2019	Improving skills in Mathematics	Dr Dillip kumar Dash	10/8/2018 to 20/9/2018
2	2018-2019	How Things Work-From Perspective of Physics Report	Dr Anil Kumar Choubey	02/03/2019 to 15/04/2019
3	2019-2020	Mathematics for Engineers	Dr Dillip kumar Dash	2/9/2019 to 11/10/2019
4	2019-2020	Lab Safety Measures	Dr Preeti Nand Kumar	24/3/2020 to 6/5/2020
5	2020-2021	Environmental Awareness	Dr Preeti Nand Kumar	5/1/2021 to 12/2/2021
6	2020-2021	General Mental Ability	Dr Sandhya Pillai	3/8/2020 to 11/9/2020
7	2021-2022	Developing Communication skills	Mrs Shiny Blessen	5/12/2021 to 10/1/2022
8	2021-2022	PHYSICAL FITNESS AND ITS IMPORTANCE	Dr R H Gajghat	21/6/2022 to 25/7/2022
9	2022-2023	Future technologies and its relevance	Dr Anju Singh	3/1/2023 to 30/1/2023
10	2022-2023	Hands on to Mathematical Skills	Dr. S.S. Bishoyi	19/10/2022 to 30/11/2022

**Criterion 1****Certificate Programs**



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**A**  
**Certificate Course**  
**On**  
**Improving skills in Mathematics**

**Report**

**Venue: CCET Bhilai**

**Date: 10/8/2018 to 20/9/2018**

**Name of resource person: Dr Dillip kumar Dash**

**Criterion 1**

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## **Course Objective:**

The objective of the course on '*Improving skills in Mathematics*' is as follows:-

- Enhance the mathematical proficiency of the learners by providing them with a solid foundation in fundamental mathematical concepts and techniques.
- To aim to help students develop problem-solving skills, logical reasoning, and critical thinking abilities through a variety of mathematical activities and exercises.

**Detail of Resource Person: Dr. Dilip Dash, Professor, CCET Bhilai**

## **Target Audience:**

- Engineering students of first year students (All branch)

## **Course Syllabus:**

Course module for the add on courses on *Improving skills in Mathematics* is as follows:-

Calculus –This module covered differential and integral calculus including derivatives, integral limits and application of calculus in engineering.

Linear Algebra: It will cover matrix algebra, systems of linear equations, vector spaces and their applications in engineering.

Probability and Statistics – This module will cover probability theory, random variable, probability distributions, statistical inference and their application in engineering.

Differential equation-This module covered first and second order differential equations, and its application in engineering.

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## Circular

Date: 5/8/2018

All the students of First year are hereby informed that we are planning to conduct A certificate course on **'Improving skills in Mathematics'** daily for one hour from 10/8/2018 to 20/9/2018. No fee will be charged for the course Students willing to participate register your names to the undersigned at the earliest.

First Year Incharge

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### **Course Outcome:**

Outcome of this Course on ‘Improving skills in Mathematics’ was to enhance the mathematical proficiency of the learners by providing them with a solid foundation in fundamental mathematical concepts and techniques. With a view to help students develop problem-solving skills, logical reasoning, and critical thinking abilities through a variety of mathematical activities and exercises.

First Year Incharge

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## Attendance

ATTENDANCE SHEET - DR DILIP KUMAR DA: 10/8/2018 TO 20/9/2018 IMPROVING SKILLS IN MATHEMATICS

Roll No.	Name of Student	Branch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SIGNATURE	
1	Abhijeet Chakraborty	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
2	Akash Verma	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
3	Anitosh Kumar	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
4	Anupama Kujur	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
5	Deepak Baghel	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
6	Divyank Suryavanshi	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
7	Mohd. Ayan Khan	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
8	Sushil Kumar Sahu	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
9	Nagraj	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
10	Ratan Kumar	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
11	Sonali Paul	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
12	Visham Trikey	Elect.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
13	ABHISHEK PAL	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
14	Ajay Kumar Adil	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
15	Aman Kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
16	Amit K Yadav	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
17	Anjali Rawat	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
18	Anmol Fernandez	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
19	Arjun Dubey	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
20	Ashutosh Kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
21	Bikku Kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
22	DEEPAK KUMAR NISHAD	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
23	DEEPAK KUMAR SAW	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
24	Deepak Yadav	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
25	Faizan Ahmad	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
26	GAURAV GAUTAM	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
27	HULESH KUMAR DEWAN	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
28	Ishan Francis	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
29	Itendra Kumar Sivanekar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
30	Jozil Jacob	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
31	Kaushal Kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
32	Kalindar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
33	Mohammad Shahnawaz	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
34	MOHAMMAD SHOAIB AN	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
35	Mohd. Adnan Khan	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]
36	NIRAJ THAKUR	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	[Signature]

First Year Incharge

Criterion 1

Certificate Programs



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## **Report On “A Certificate Course on ‘*Improving skills in Mathematics*’**

A certificate course on ‘*Improving skills in Mathematics*’ daily for one hour from 10/8/2018 to 20/9/2018 **were** arranged for the students of first year daily one hour for 30 days. A total of 26 students enrolled themselves for the course and 26 students participated in the program. The sessions were conducted by **Dr.Dillip Dash, Professor, CCET Bhilai.**

This course aims to provide an overview on the course on Mathematics for Engineers with the necessary mathematical knowledge. The students gained skills which are required to solve complex engineering problems. The application of mathematics was explained to solve the trickiest questions.

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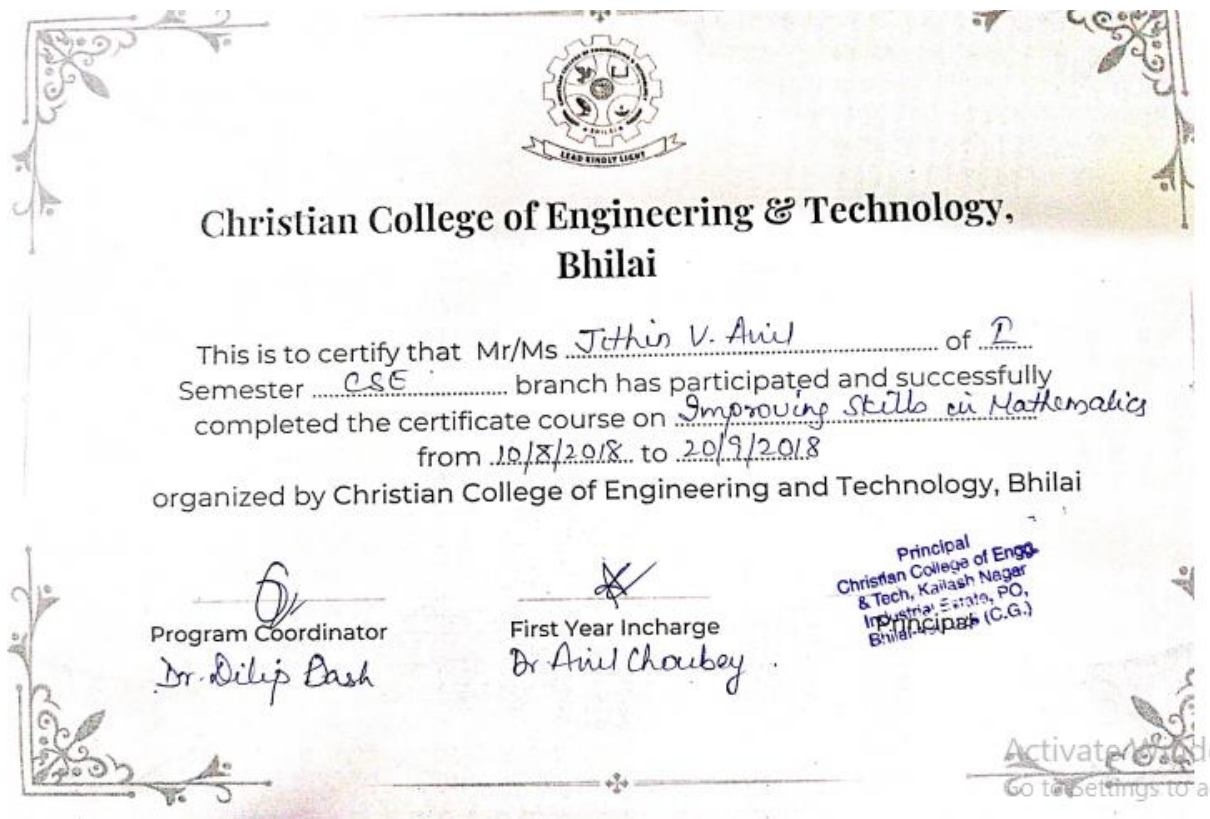
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## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES  
■ No

**2. The session exposed you to new knowledge and practices.**



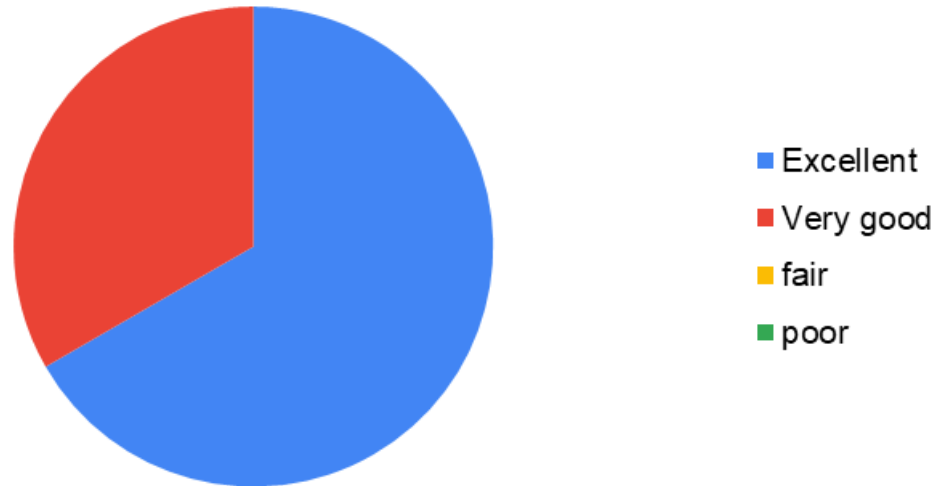
■ Strongly Agree  
■ disagree

**Criterion 1**

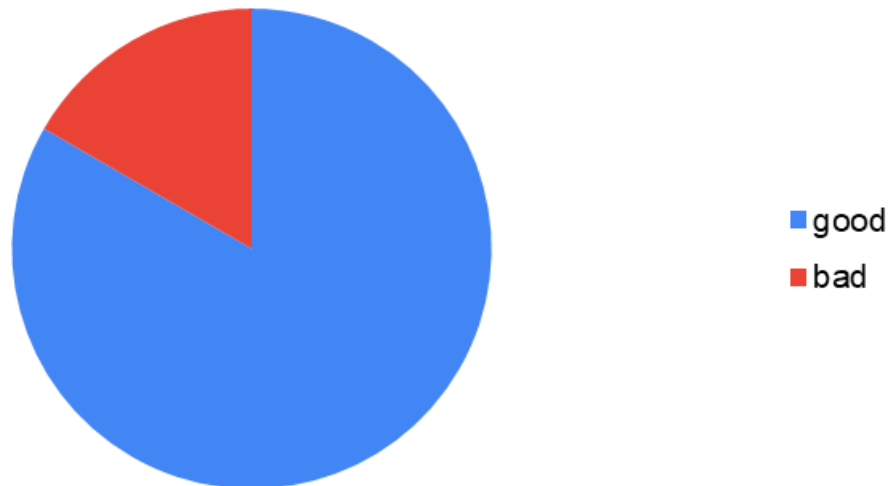
**Certificate Programs**



### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



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**A**  
***Certificate Course***  
***On***  
***How Things Work-From Perspective of Physics***  
***Report***

**Venue: CCET Bhilai**

**Date: 02/03/2019 to 15/04/2019**

**Name of resource person: Dr Anil Kumar  
Choubey**

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### **Course Objective:**

The objective of the course on ‘How Things Work-From Perspective of Physics’ is as follows:-

To provide students with a comprehensive understanding of the fundamental principles of physics that governs the behavior of the physical world around us.

- Through this course, students will develop a conceptual framework for understanding the physical laws and processes that underlie the workings of everyday objects and phenomena.

**Detail of Resource Person: Dr.Anil Kumar Choubey, Assistant Professor, CCET Bhilai**

### **Target Audience:**

- Engineering students of first year students (All branch)

### **Course Syllabus:**

Course Syllabus for the add on courses on ‘*How Things Work-From Perspective of Physics*’ is as follows:-

Following topics are the course syllabus

1. Introduction to Physics – Overview of Physics, Units and measurements
2. Mechanics – Motion and Forces, Work, energy and power, Simple machines, Circular motion and gravitation
3. Thermodynamics –Heat and temperature, Laws of Thermodynamics, Heat engines and refrigerators
4. Wave and Optics –Wave Motion, sound waves, electromagnetic waves.
5. Light Optics –Waves, Light

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6. Electricity and Magnetism- Electric charge and fields, Electric potential, Capacitors and circuits, magnetism

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## Circular

Date: 25/2/2019

All the students of First year are hereby informed that we are planning to conduct a certificate course on on '*How Things Work-From Perspective of Physics*' daily for one hour from **02/03/2019 to 15/04/2019**. No fee will be charged for the course. Students willing to participate register your names to the undersigned at the earliest.

Dr Anil Choubey  
First Year Incharge

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## Report On “A Certificate Course on ‘*Lab Safety Measures*’

A certificate course on ‘*How Things Work-From Perspective of Physics*’ daily for one hour from **02/03/2019 to 15/04/2019** was arranged for the students of first year daily one hour for 30 days in online mode. Many students enrolled themselves for the course and they participated in the program.

Sessions were conducted in offline mode by **Dr. Anil Kumar Choubey**, Associate Professor, and CCET Bhilai

By the end of the course Students gained a deeper understanding of the principles and concepts of Physics that underline the functioning of various systems.

They could understand the scientific method and use it to analyse and explain the behaviour of physical systems.

Learn to apply mathematical tools to analyse physical systems and solve problems. It helps to develop skills in experimental design data analysis and critical thinking.

This course helped to appreciate the role of physics in technology and innovation.

Dr Anil Choubey  
First Year Incharge

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## Attendance

ATTENDANCE SHEET - DR ANIL KUMAR CHOUBEY 2/3/2019 TO 16/4/2019 *How Things Work-From Perspective of Physics*

Roll No.	Name of Student	Branch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SIGNATURE		
			3/2	4/3	5/3	3/7	3/8	3/11	3/13	14/3	15/3	19/3	20/3	21/3	22/3	25/3	27/3	28/3	29/3	1/4	2/4	3/4	4/4	5/4	6/4	8/4	9/4	10/4	11/4	12/4	13/4	15/4			
1	Abhijeet Chakraborty	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Abhijeet	
2	Akash Verma	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Akash	
3	Anitosh Kumar	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anitosh	
4	Anupama Kujur	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anupama	
6	Deepak Baghel	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak	
6	Divyank Suryavanshi	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Divyank	
7	Mohd. Ayan Khan	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Mohd. Ayan	
8	Sushil Kumar Sahu	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sushil	
9	Nagraj	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Nagraj	
10	Ratan Kumar	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ratan	
11	Sonali Paul	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sonali	
12	Visham Trikey	Elect	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Visham	
13	ABHISHEK PAL	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Abhishek	
14	Ajay Kumar Adil	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ajay	
15	Aman Kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Aman	
16	Amit Kr Yadav	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amit	
17	Anjali Rawat	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anjali	
18	Anmol Fernandez	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anmol	
19	Arjun Dubey	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Arjun	
20	Ashutosh kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ashutosh	
21	Bikku Kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bikku	
22	DEEPAK KUMAR NISHI	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak	
23	DEEPAK KUMAR SAWI	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak	
24	Deepak Yadav	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak	
25	Faizan Ahmad	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Faizan	
26	GAURAV GAUTAM	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Gaurav	
27	HULESH KUMAR DEW	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Hulesh	
28	Ishan Francis	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ishan	
29	Jitendra Kumar Sivank	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Jitendra	
30	Jozil Jacob	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Jozil	
31	Kaushal Kumar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kaushal	
32	Kalindar	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kalindar	
33	Mohammad Shahinaw	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Mohammad	
34	MOHAMMAD SHOAB	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Mohammad
35	Mohd. Adnan Khan	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Mohd. Adnan
36	NIRAJ THAKUR	Mech	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Niraj

Dr Anil Choubey  
First Year Incharge

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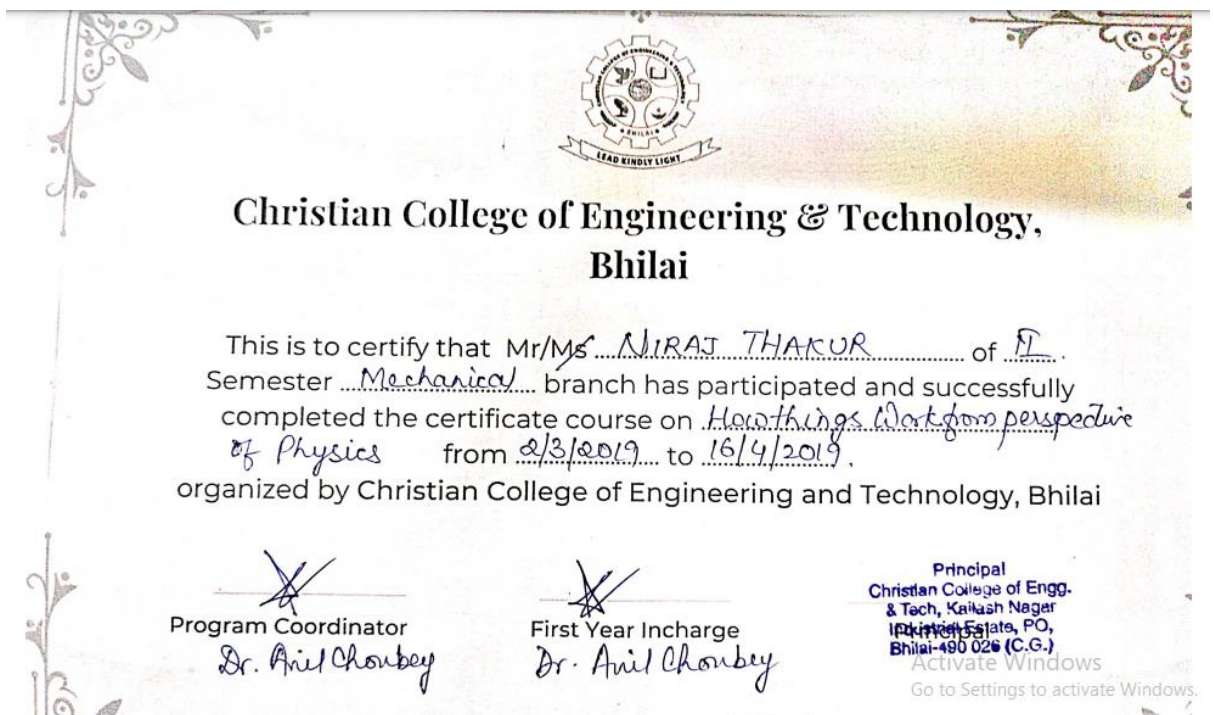
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### Course Outcome :-

Outcome of this course on 'How Things Work-From Perspective of Physics' is to provide students with a comprehensive understanding of the fundamental principles of physics and through this course, students will develop a conceptual framework for understanding the physical laws and processes which underlie the workings of everyday objects and phenomena.

### Sample Certificates



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## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES  
■ No

**2. The session exposed you to new knowledge and practices.**



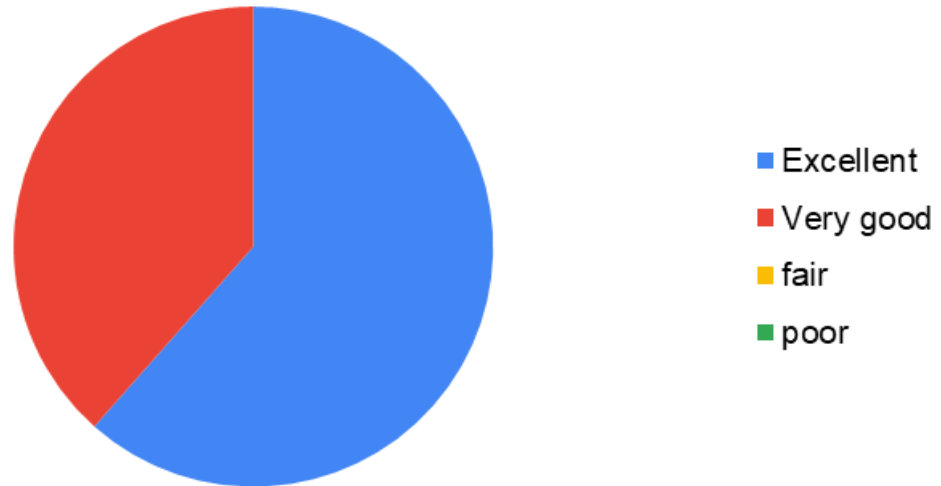
■ Strongly Agree  
■ disagree

**Criterion 1**

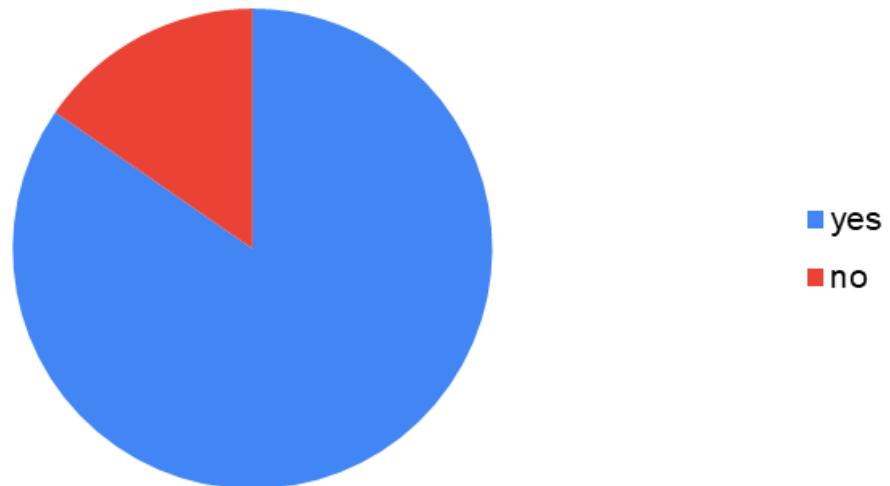
**Certificate Programs**



### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



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**A**  
***Certificate Course***  
***On***  
***Mathematics for Engineers***  
***Report***

**Venue: CCET Bhilai**

**Date: 2/9/2019 to 11/10/2019**

**Name of resource person: Dr Dillipkumar Dash**

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### **Course Objective:**

- The objective of the course on ‘Mathematics for Engineers is as follows:-
- The course will help to give engineering students a thorough and useful grasp of key mathematical ideas and procedures necessary for their success in school and in their careers. Through this course, students will build a solid mathematical foundation and acquire the abilities needed to successfully apply mathematical concepts in order to solve engineering challenges. The following are some of the course's main goals:
- **Basic Mathematical Proficiency:** To provide pupils a firm understanding of fundamental ideas in mathematics, such as algebra, trigonometry, calculus, differential equations, linear algebra, and complex numbers.
- **Mathematical modelling:** To teach students how to use mathematical formulas and equations to represent actual engineering conditions, enabling them to analyse and evaluate engineering issues.
- **Developing problem-solving abilities and to foster problem-solving skills** by teaching students how to apply mathematical techniques to solve engineering problems, providing them with the confidence to tackle complex challenges.

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**Detail of Resource Person: Dr. Dilip Dash, Professor, CCET Bhilai**

### **Target Audience:**

- Engineering students of first year students (All branch)
- A total of 25 students enrolled and 25 students participated in the program

**Criterion 1**

**Certificate Programs**





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## **Course Syllabus:**

Course module for the add on courses on *Mathematics for Engineers*

is as follows:-

**Calculus** –This module covered differential and integral calculus including derivatives, integral limits and application of calculus in engineering.

**Linear Algebra:** It will cover matrix algebra, systems of linear equations, vector spaces and their applications in engineering.

**Probability and Statistics** – This module will cover probability theory, random variable, probability distributions, statistical inference and their application in engineering.

**Differential equation**-This module covered first and second order differential equations, and its application in engineering.

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## List of students who attended the course

### B.Tech I Sem 2019-20

Roll. No.	Branch	Name of Students
1	Computer. SC	ABHIMANYU BANERJEE
2	Computer. SC	AMIT KUJUR
3	Computer. SC	ARIMA TOPPO
4	Computer. SC	ARTI XALXO
5	Computer. SC	GULNAJ ANSARI
6	Computer. SC	JEEVAN BARA
7	Computer. SC	POONAM LAKRA
8	Computer. SC	ROSHAN KUMAR SAHU
9	Computer. SC	SHILANATH PRATAP SINGH
10	Computer. SC	SHIVAM PANDEY
11	Computer. SC	VIBHA
12	Computer. SC	VINAY MINJ
13	Electrical	AKHIL ANU ABRAHAM
14	Electrical	LEO KOSHY VARGHESE
15	Electrical	PAWAN KUMAR VISHWAKARMA
16	Electrical	ROVINS XESS
17	Electrical	VEDINA XAXA
18	Mechanical	ANURAG SHARMA
19	Mechanical	BHUPESH KUMAR SAHU
20	Mechanical	RAHUL KU BRAMHANKAR
21	Mechanical	ROBINS JACOB JOHN
22	Mechanical	ROSHAN ROY
23	Mechanical	SAHIL HUSSAIN
24	Mechanical	SHARON SURYAVANSHI
25	Mechanical	SHIVNATH GOTA
26	Mechanical	SHREYANSH LAL

First Year Incharge

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## *Circular*

Date: 25/8/2019

All the students of First year are hereby informed that we are planning to conduct A certificate course on '*Mathematics for Engineers*' daily for one hour from 2/9/2019 to 10/10/2019. No fee will be charged for the course Students willing to participate register your names to the undersigned at the earliest.

**First Year Incharge**

**Criterion 1**

**Certificate Programs**



## Attendance Sheet

ATTENDANCE SHEET – DR DILIP DASH      2/9/2019      TO      12/9/2019      MATHEMATICS FOR ENGINEERS

Roll No.	Name of Student	Branch	2/9	3/9	4/9	5/9	6/9	7/9	8/9	9/9	10/9	11/9	12/9	13/9	14/9	15/9	16/9	17/9	18/9	19/9	20/9	21/9	22/9	23/9	24/9	25/9	26/9	27/9	28/9	29/9	30/9	SIGNATURE		
1	Abhimanyu Banerjee	CSE	P	A	P	P	P	P	A	P	P	P	A	A	P	P	P	A	P	A	A	A	A	P	P	P	P	P	P	P	P	P	P	
2	Vibha	CSE	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	A	A	P	P	P	A	A	P	P	
3	Amit Kujur	CSE	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	A	A	P	P	P	P	A	A	P	
4	Arima Toppo	CSE	A	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	A	P	P	P	P	P	P	P	P	P	
5	Arti Xalco	CSE	P	P	P	P	A	P	A	A	P	A	P	P	A	P	P	P	A	P	P	A	P	P	P	P	P	A	P	P	P	P	P	
6	Gulraj Ansari	CSE	P	P	P	A	P	P	A	P	A	P	P	P	P	A	P	A	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	
7	Jeevan Bera	CSE	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P	P	P	P	A	P	P	P	P	P	P	
8	Poonam Lakre	CSE	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	
9	Roshan Sahu	CSE	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
10	Shilanath Pratap Singh	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
11	Shivam Pandey	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
12	Vinay Mini	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
13	Akhil Anu Abraham	EE	A	P	P	P	P	P	A	P	P	P	P	P	P	A	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	
14	Leo Koshy Varghese	EE	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
15	Pawan Kumar Vishwakars	EE	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
16	Ravin Kess	EE	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
17	Vedina Xalka	EE	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
18	Rahul Ku Bramhankar	MECH	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
19	Robin Jacob John	MECH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
20	Roshan Roy	MECH	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
21	Sahil Hussain	MECH	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
22	Sharon Suryavanshi	MECH	A	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	Shivnath Gota	MECH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
24	Shreyansh Lal	MECH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	Anurag Sharma	MECH	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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## **Report On “A Certificate Course on ‘*Mathematics for Engineers*’**

A certificate course on ‘*Mathematics for Engineers*’ daily for one hour from 2/9/2019 to 12/9/2019 was arranged for the students of first year daily for one hour for 30 days. A total of 26 students enrolled themselves for the course and 26 students participated in the program. The sessions were conducted by **Dr.Dillip Dash, Professor, CCET Bhilai.**

This course aims to provide an overview on the course on Mathematics for Engineers with the necessary mathematical knowledge. The students gained skills which are required to solve complex engineering problems. The application of mathematics was explained to solve the trickiest questions.

*First Year Incharge*

### **Course outcomes :**

After the completion of the course ‘*Mathematics for Engineers*’ students will be able to demonstrate a solid understanding of foundational mathematical principles, including algebra, trigonometry, calculus, and complex numbers, and apply them to solve engineering problems. They will be able to analyze Mathematical Functions

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## Photographs



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## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES  
■ NO

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## 2.The session exposed you to new knowledge and practices.



■ Strongly Agree  
■ Disagree

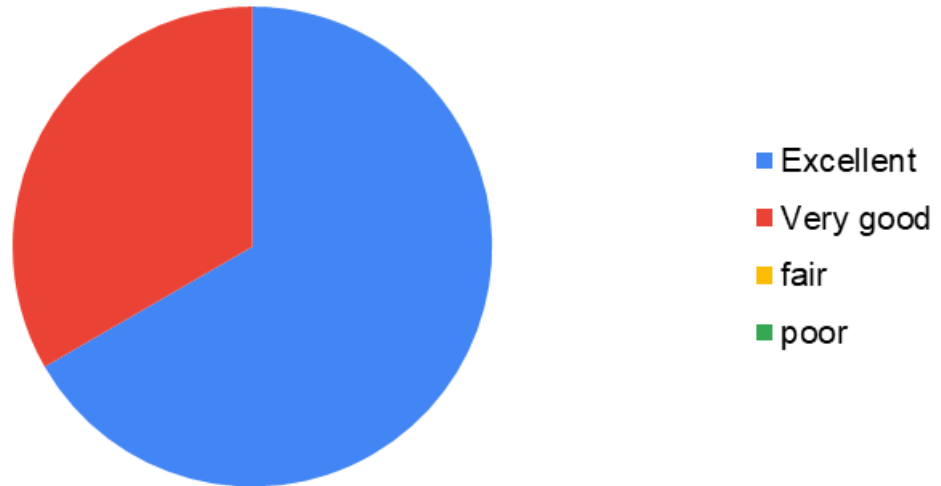
**Criterion 1**

**Certificate Programs**

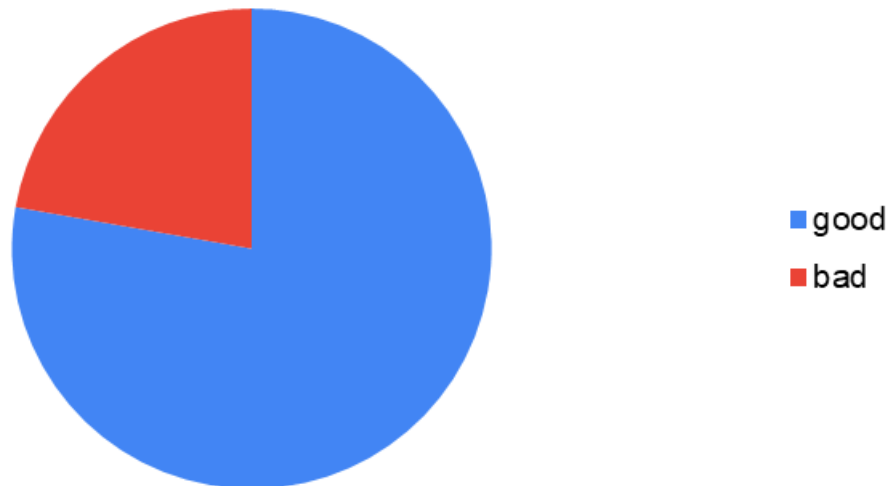




### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



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## Sample Certificates



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**A**  
***Certificate Course***  
***On***  
***Lab Safety Measures***  
  
***Report***

**Venue: *ONLINE***

**Date: 24/3/2020 to 6/5/2020**

**Name of resource person: Dr Preeti Nand  
Kumar**

**Criterion 1**

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## **Course Objective:**

- The objective of the course on 'Lab Safety Measures' is as follows:-
- It helps to educate individuals about the potential hazards and the risks which are present in the laboratory environments.
- It will help to provide the necessary knowledge and skills to effectively prevent accidents and be cautious for emergencies.
- This course will help to teach the students to identify potential safety hazards, implement necessary protocol, properly handle and dispose the hazardous chemicals and to respond to the emergency situation such as fires and chemical exposures.

**Detail of Resource Person: Dr.Preeti Nand Kumar, Associate Professor, CCET Bhilai**

## **Target Audience:**

- Engineering students of first year students (All branch)
- A total of 26 students enrolled and 26 students participated in the program

## **Course Syllabus:**

Course Syllabus for the add on courses on '*Lab Safety Measures*' is as follows:-

- Introduction to Laboratory Safety
- Overview of lab safety and its impact on working and research quality.
- Rules and regulation guarding lab safety.
- Identification and Risk Assessment
- Identify common laboratory hazards
- Conducting risk Assessment and developing risk management plan
- Personal Protective equipment such as Gloves, Lab coats
- Proper selection of protective equipment's
- Chemical Safety
- Safe Handling and storage of Chemicals
- Understanding Chemical properties and hazards
- Emergency procedures used for spills, leaks and exposures.
- Overview of Biological Hazards in the laboratory

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- Using Handling and disposal of Biological materials.
- Physical Safety and common safety hazards
- Safe use of Laboratory equipment.
- Emergency preparedness
- Best practices for maintaining lab safety.
- Creating a culture of safety in the laboratory.
- Role of leadership in promoting lab Safety.
- Best practices for maintaining lab safety.
- Lectures, Case studies, group discussion and hands-on activities to be done during the course.

### Course Outcome:

The outcome of the course on 'Lab Safety Measures' is to educate students about the potential hazards and the risks which are present in the laboratory. It will help to provide the necessary knowledge and skills to effectively prevent accidents and be cautious for emergencies. Students will properly handle and dispose the hazardous chemicals and they can respond to the emergency situation such as fires and chemical exposures.

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## Circular

Date: 22/3/2020

All the students of First year are hereby informed that we are planning to conduct a certificate course on “**Lab Safety Measures**” daily for one hour from **24/3/2020 to 6/5/2020**. No fee will be charged for the course. Students willing to participate register your names to the undersigned at the earliest.

First Year Incharge

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## List of students who attended the course

### B.Tech II Sem 2020

Roll. No.	Branch	Name of Students
1	Computer. SC	ABHIMANYU BANERJEE
2	Computer. SC	AMIT KUJUR
3	Computer. SC	ARIMA TOPPO
4	Computer. SC	ARTI XALXO
5	Computer. SC	GULNAJ ANSARI
6	Computer. SC	JEEVAN BARA
7	Computer. SC	POONAM LAKRA
8	Computer. SC	ROSHAN KUMAR SAHU
9	Computer. SC	SHILANATH PRATAP SINGH
10	Computer. SC	SHIVAM PANDEY
11	Computer. SC	VIBHA
12	Computer. SC	VINAY MINJ
13	Electrical	AKHIL ANU ABRAHAM
14	Electrical	LEO KOSHY VARGHESE
15	Electrical	PAWAN KUMAR VISHWAKARMA
16	Electrical	ROVINS XESS
17	Electrical	VEDINA XAXA
18	Mechanical	ANURAG SHARMA
19	Mechanical	BHUPESH KUMAR SAHU
20	Mechanical	RAHUL KU BRAMHANKAR
21	Mechanical	ROBINS JACOB JOHN
22	Mechanical	ROSHAN ROY
23	Mechanical	SAHIL HUSSAIN
24	Mechanical	SHARON SURYAVANSHI
25	Mechanical	SHIVNATH GOTA
26	Mechanical	SHREYANSH LAL

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## Attendance -

- A total of 26 students enrolled and 26 students participated in the program
- Add on course was conducted in online mode on Google meet.
- Screen shot of the meet is attached for reference for attendance

## Report On “A Certificate Course on ‘Lab Safety Measures’

A certificate course on ‘*Lab Safety Measures*’ daily for one hour from **24/3/2020** to **6/5/2020** was arranged for the students of first year daily one hour for 30 days in online mode. A total of 26 students enrolled themselves for the course and 26 students participated in the program.

Due to sudden lockdown in lieu of Corona offline classes was suspended and online classes was declared. So the sessions were conducted online in Google meet by **Dr. Preeti Nand Kumar**, Associate Professor, and CCET Bhilai

By the end of the course Students gained a deeper understanding of Laboratory safety measures. They will be able to identify the potential sources which will be accidents if not addressed at proper time. They will know what actions can be taken mitigate the issues. The course also aims to inspire the students to adopt laboratory safety principles and practices. It helped to gain skills needed to create safe and secure work environment for themselves and others

First Year Incharge

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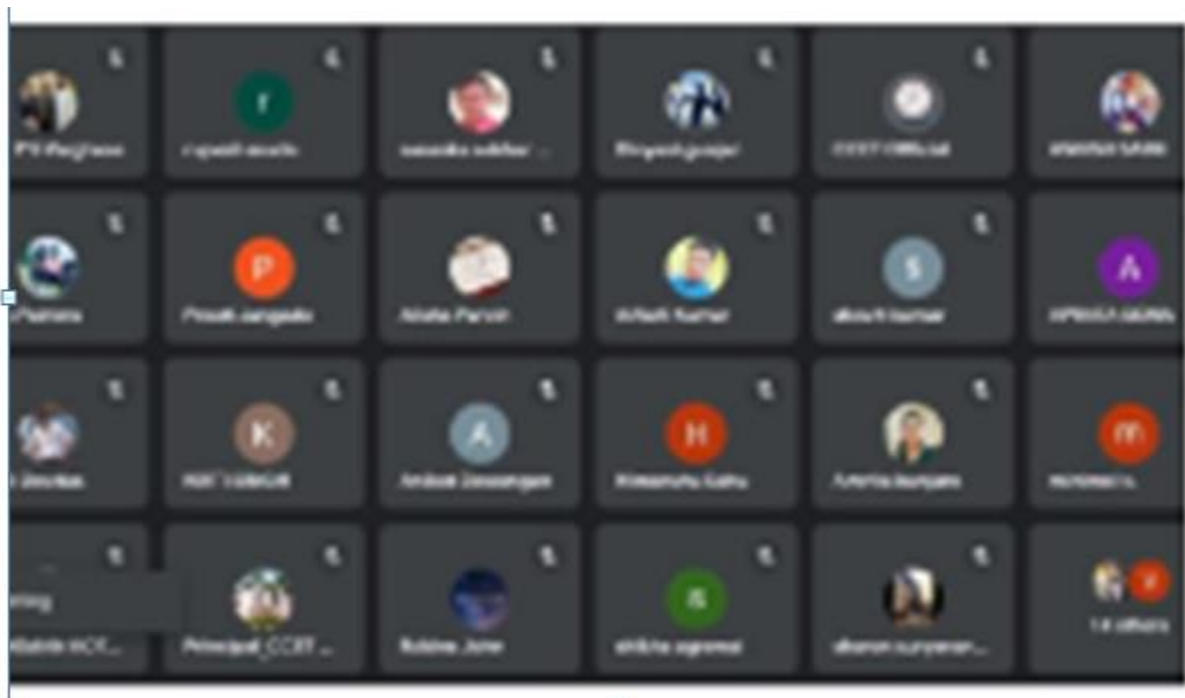
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## Photographs



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## Sample Certificates



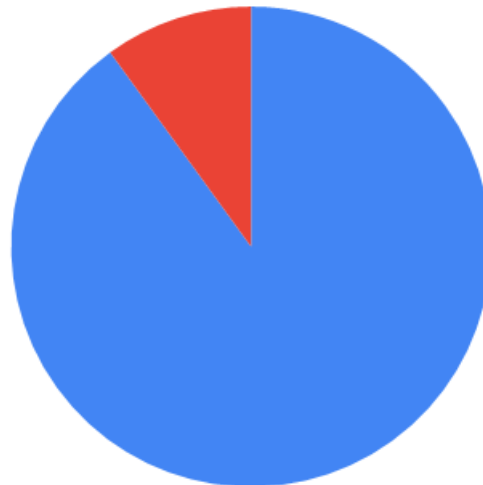
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**Certificate Programs**



## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES  
■ No

**2. The session exposed you to new knowledge and practices.**



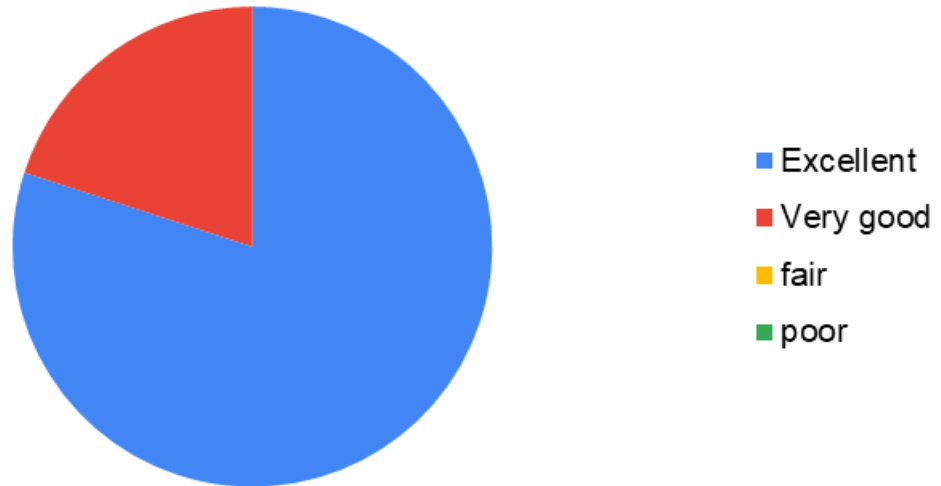
■ Strongly Agree  
■ Disagree

**Criterion 1**

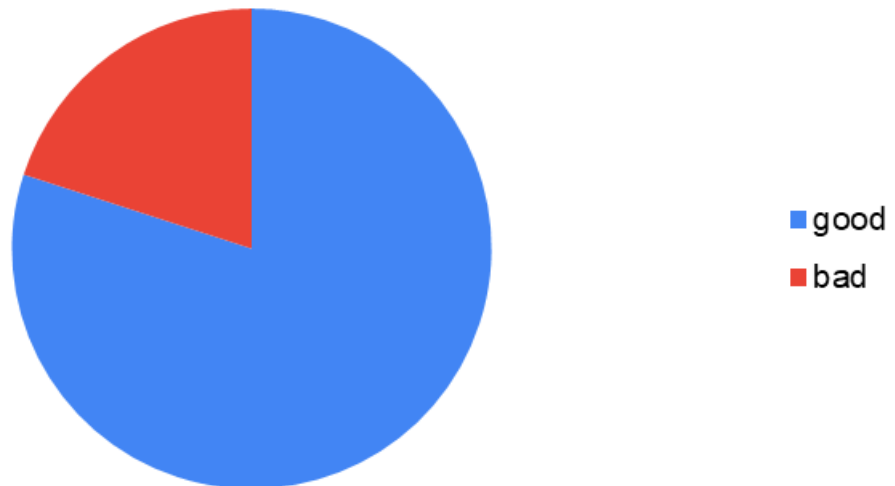
**Certificate Programs**



### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



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**A**  
***Certificate Course***  
***On***  
***Environmental Awareness***  
***Report***

**Venue: Online mode**

**Date: 5/1/2021 to 12/2/2021**

**Name of resource person: Dr Preeti Nand Kumar**

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### **Course Objective:**

- The objective of the course on ‘Environmental Awareness’ is as follows:-
- It will provide the participants with a deeper understanding of the nature and the impact of human activities on the environment.
- The course aims to raise the awareness about the importance of conservation of environment and sustainability.
- It will help to equip participants with the knowledge and skills necessary to get information regarding the environmental issues.
- The course aims to promote a sense of responsibility towards environment and its resources.

**Detail of Resource Person:Dr. Preeti Nand Kumar, Associate Professor, CCET Bhilai**

### **Target Audience:**

- Engineering students of first year students (All branch)
- A total of 40 students enrolled and 35 students participated in the program

### **Course Syllabus:**

Course module for the add on courses on Environmental *Awareness*’ is as follows:-

- Introduction to Environmental awareness
- Overview of the course and its objectives
- Environmental issues, its key concepts and theories.
- Understanding the Natural World, biodiversity and its importance
- Environmental Problems, Overview of major environmental issues such as Climate change, pollution and deforestation.
- Understanding the causes and the impacts of environmental problems

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- Relationship between human activities and environmental degradation.
- Environmental Solution and sustainable development
- Understanding the role of mankind in environmental conservation.
- Environmental Policy and law.
- Understanding the role of government and international organisation in environmental conservation.
- Applying environmental awareness to real life scenarios
- Review of future application and takeaways of environmental awareness.

### **Course Outcome:**

- The course outcome of the course on ‘Environmental Awareness’ is to provide the student with a deeper understanding of nature and to analyse the impact of human activities on the environment. It helped to raise the awareness about the importance of conservation of environment and sustainability. They will be well equip participants with the knowledge and skills necessary to get information regarding the environmental issues.

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**List of students who attended the course**

<b>Class Roll No.</b>	<b>University Roll No.</b>	<b>Name of Student</b>	<b>Branch</b>
1	301102220001	<b>ABHISHEK KUMAR</b>	CSE
2	301102220002	<b>AALOK KUMAR MUNDA</b>	CSE
3	301102220003	<b>ALVIN SAM JACOB</b>	CSE
4	301102220004	<b>ASHISH SAINI</b>	CSE
5	301102220005	<b>JAISLEEN SAHOTA</b>	CSE
6	301102220006	<b>DURGA SONI</b>	CSE
7	301102220007	<b>YOGESH KUMAR SEN</b>	CSE
8	301102220008	<b>SHIVSHANKAR CHOUHAN</b>	CSE
9	301102220009	<b>HIMANCHAL</b>	CSE
10	301102220010	<b>SAHIL KUMAR YADAV</b>	CSE
11	301102220011	<b>RAJNISH KUMAR</b>	CSE
12	301102220012	<b>MANASH DEWANGAN</b>	CSE
13	301102220013	<b>AAKASH KASHYAP</b>	CSE
14	301102220014	<b>DHARMENDRA KUSHWAHA</b>	CSE
15	301102220015	<b>AAYUSHI</b>	CSE
16	301102220016	<b>ARYAN GUPTA</b>	CSE
17	301102220017	<b>ANGAD YADAV</b>	CSE
18	301102220018	<b>SANDEEP SIKDAR</b>	CSE
19	301102220019	<b>RAHUL SINGH</b>	CSE
20	301102220020	<b>NUTAN</b>	CSE
21	301102220021	<b>NAVYA KUMAR RAM</b>	CSE

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22	301102220022	<b>SUKHJEET SINGH HANS</b>	CSE
23	301102220023	<b>VISHWAPRATAP DAS</b>	CSE
24	301102220024	<b>SULTANA KHATUN</b>	CSE
25	301102420001	<b>ALBEY A L</b>	EE
26	301102420002	<b>PREMKUMAR YADAV</b>	EE
27	301102420003	<b>MEENU</b>	EE
28	301102420004	<b>SAKET KUMAR</b>	EE
29	301103720003	<b>YUVRAJ KUMAR</b>	MECH
30	301103720005	<b>PRINCE KUMAR</b>	MECH
31	301103720006	<b>VIKKY KUMAR</b>	MECH
32	301103720007	<b>BUBULU KUMAR</b>	MECH
33	301103720008	<b>JAYANT KUMAR SINGH</b>	MECH
34	301103720009	<b>SHIVAM PRASAD</b>	MECH
35	301103720010	<b>MAYUR YADAV</b>	MECH
36	301103720011	<b>ROBIN ROY</b>	MECH
37	301103720012	<b>AMAN NIKUNJ</b>	MECH
38	301103720013	<b>ROHAN SINHA</b>	MECH
39	301103720014	<b>MANOHAR KUMAR</b>	MECH
40	301103720015	<b>DIVYA PRAKASH</b>	MECH

**Criterion 1****Certificate Programs**



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## **Attendance -**

---

- A total of 40 students enrolled and 35 students participated in the program
- Add on course was conducted in online mode on Google meet.
- Screen shot of the meet is attached for reference for attendance

**Criterion 1**

**Certificate Programs**



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## Circular

Date: 2/1/2021

All the students of First year are hereby informed that we are planning to conduct a certificate course on '*Environmental Awareness*' daily for one hour from 5/1/2021 to 12/2/2021. No fee will be charged for the course. Students willing to participate register your names to the undersigned at the earliest.

First Year Incharge

**Criterion 1**

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A certificate course on '*Environmental Awareness*' daily for one hour from 5/1/2021 to 12/2/2021 was arranged for the students of first year daily one hour for 30 days in online mode. A total of 40 students enrolled themselves for the course and 30 students participated in the program. The sessions were conducted online in google meet by **Dr. Preeti Nand Kumar**, Associate Professor, and CCET Bhilai

By the end of the course Students gained a deeper understanding of environmental problems such as climate change, pollution and resource depletion. They were able to identify the potential solutions and actions that can be taken mitigate the issues. The course also aims to inspire the students to adopt more environmentally friendly behaviours in their lives. Overall the course helped to create a sense of responsibility towards the natural environment and its resources.

First Year Incharge

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## Photographs



**Criterion 1**

**Certificate Programs**



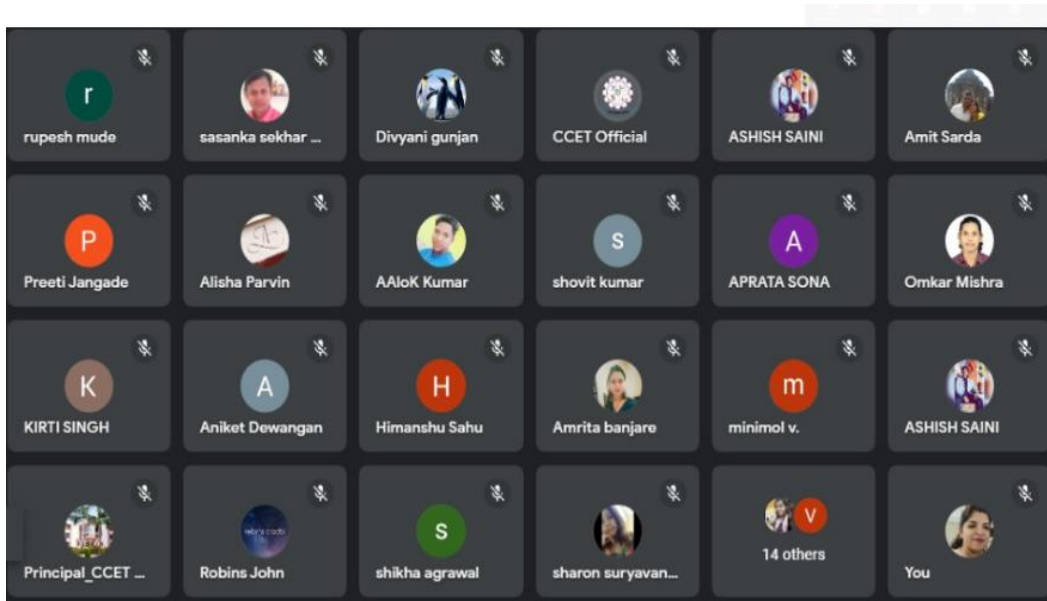
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## Criterion 1

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## Sample Certificates



  
LEAD KINDLY LIGHT

**Christian College of Engineering & Technology,  
Bhilai**

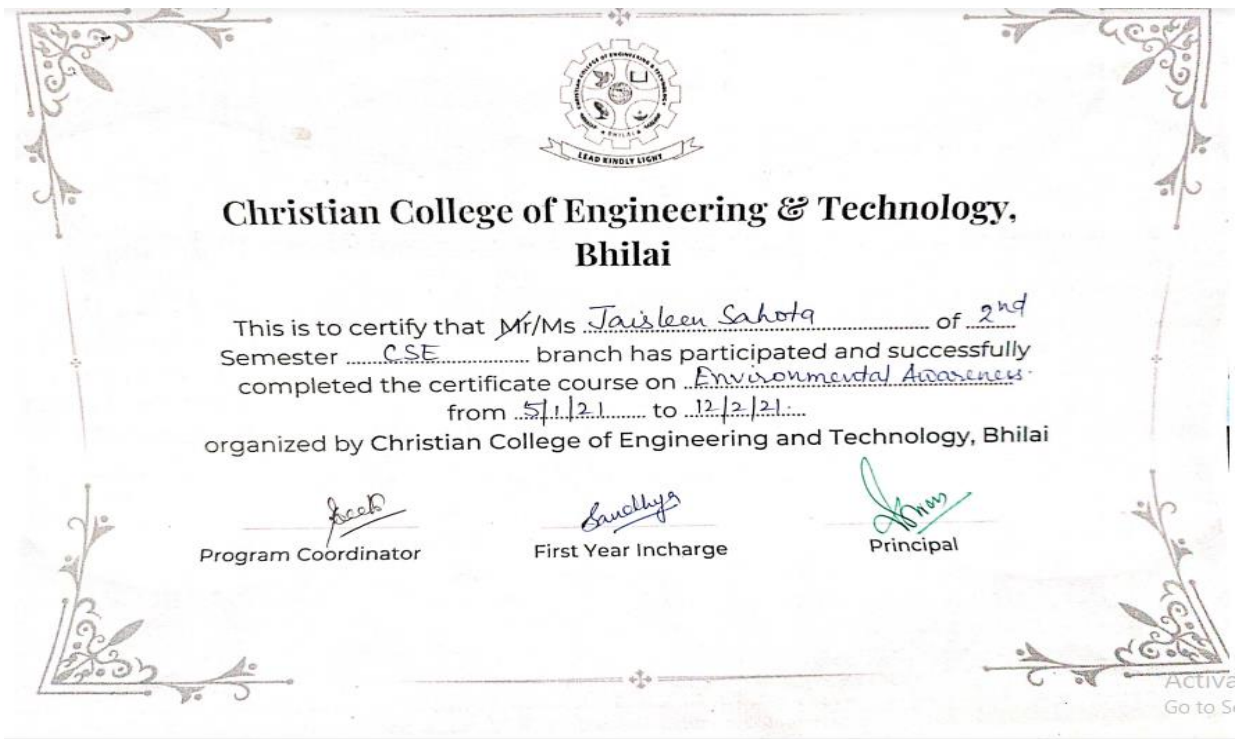
This is to certify that Mr/Ms Vishwa Pratap of 1<sup>st</sup>  
Semester CSE branch has participated and successfully  
completed the certificate course on General Mental Ability  
from 3/8/20 to 11/9/20  
organized by Christian College of Engineering and Technology, Bhilai


Sandhya  
Program Coordinator

Sandhya  
First Year Incharge

Prms  
Principal

Activate  
Go to Sett



  
LEAD KINDLY LIGHT

**Christian College of Engineering & Technology,  
Bhilai**

This is to certify that Mr/Ms Jaisleen Sahota of 2<sup>nd</sup>  
Semester CSE branch has participated and successfully  
completed the certificate course on Environmental Awareness  
from 5/1/21 to 12/2/21  
organized by Christian College of Engineering and Technology, Bhilai

Prms  
Program Coordinator

Sandhya  
First Year Incharge

Prms  
Principal

Active  
Go to S

**Criterion 1**

**Certificate Programs**



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## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES

■ No

**2. The session exposed you to new knowledge and practices.**



■ Strongly Agree

■ disagree

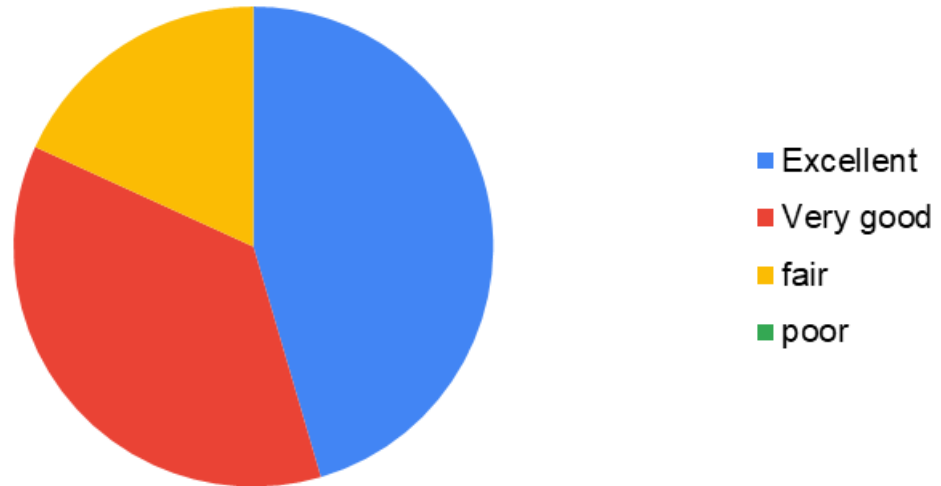
**Criterion 1**

**Certificate Programs**

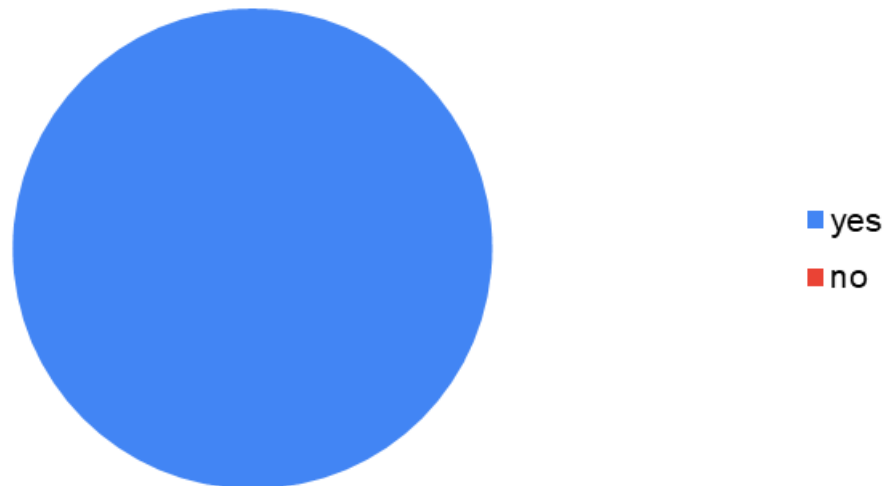




### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



**Criterion 1**

**Certificate Programs**



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**A**  
***Certificate Course***  
***On***  
***General Mental Ability***  
***Report***

**Venue: Online Mode**

**Date: 3/8/2020 to 11/9/2020**

**Name of resource person: Dr Sandhya Pillai**

**Criterion 1**

**Certificate Programs**



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## **Course Objective:**

The objective of the course on '*General Mental Ability*' is as follows:-

- It helps to develop the cognitive abilities and critical thinking skills
- This course will help to enhance the analytical, logical and problem solving skills
- It will help to enable the application of mental strength in various activities such as academic, professional and personal contents.

**Detail of Resource Person: Dr.Sandhya Pillai, Associate Professor, CCET Bhilai**

## **Target Audience:**

- Engineering students of first year students (All branch)
- A total of 40 students enrolled and 35 students participated in the program

## **Course Syllabus:**

Course module for the add on courses on *General Mental Ability* is as follows:-

- Introduction to General Mental Ability – Overview of the course and objectives
- Importance of General Mental ability
- Key concepts of mental Ability
- Spatial Reasoning and perpetual skills- understanding its importance.
- Enhancing Reasoning power and the visualization skills.
- Effective Learning strategies and Memory power
- Logical Reasoning and Analytical skills
- Understanding the verbal abilities and the role in communication.
- Enhance Language skill and vocabulary.

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### Course Outcome :

The outcome of the course on '*General Mental Ability*' is to develop the cognitive abilities and critical thinking skills of the students. The course helped to enhance the analytical, logical and problem solving skills and to enable the application of mental strength in various activities such as academic, professional and personal contents.

### List of students who enrolled for the course

Class Roll No.	University Roll No.	Name of Student	Branch
1	301102220001	ABHISHEK KUMAR	CSE
2	301102220002	AALOK KUMAR MUNDA	CSE
3	301102220003	ALVIN SAM JACOB	CSE
4	301102220004	ASHISH SAINI	CSE
5	301102220005	JAISLEEN SAHOTA	CSE
6	301102220006	DURGA SONI	CSE
7	301102220007	YOGESH KUMAR SEN	CSE
8	301102220008	SHIVSHANKAR CHOUHAN	CSE
9	301102220009	HIMANCHAL	CSE
10	301102220010	SAHIL KUMAR YADAV	CSE
11	301102220011	RAJNISH KUMAR	CSE
12	301102220012	MANASH DEWANGAN	CSE
13	301102220013	AAKASH KASHYAP	CSE
14	301102220014	DHARMENDRA KUSHWAHA	CSE
15	301102220015	AAYUSHI	CSE

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16	301102220016	<b>ARYAN GUPTA</b>	CSE
17	301102220017	<b>ANGAD YADAV</b>	CSE
18	301102220018	<b>SANDEEP SIKDAR</b>	CSE
19	301102220019	<b>RAHUL SINGH</b>	CSE
20	301102220020	<b>NUTAN</b>	CSE
21	301102220021	<b>NAVYA KUMAR RAM</b>	CSE
22	301102220022	<b>SUKHJEET SINGH HANS</b>	CSE
23	301102220023	<b>VISHWAPRATAP DAS</b>	CSE
24	301102220024	<b>SULTANA KHATUN</b>	CSE
25	301102420001	<b>ALBEY A L</b>	EE
26	301102420002	<b>PREMKUMAR YADAV</b>	EE
27	301102420003	<b>MEENU</b>	EE
28	301102420004	<b>SAKET KUMAR</b>	EE
29	301103720003	<b>YUVRAJ KUMAR</b>	MECH
30	301103720005	<b>PRINCE KUMAR</b>	MECH
31	301103720006	<b>VIKKY KUMAR</b>	MECH
32	301103720007	<b>BUBULU KUMAR</b>	MECH
33	301103720008	<b>JAYANT KUMAR SINGH</b>	MECH
34	301103720009	<b>SHIVAM PRASAD</b>	MECH
35	301103720010	<b>MAYUR YADAV</b>	MECH
36	301103720011	<b>ROBIN ROY</b>	MECH
37	301103720012	<b>AMAN NIKUNJ</b>	MECH
38	301103720013	<b>ROHAN SINHA</b>	MECH
39	301103720014	<b>MANOHAR KUMAR</b>	MECH
40	301103720015	<b>DIVYA PRAKASH</b>	MECH

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## **Attendance -**

---

- A total of 40 students enrolled and 35 students participated in the program
- Add on course was conducted in online mode on Google meet.
- Screen shot of the meet is attached for reference for attendance

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## Circular

Date: 1/8/2020

All the students of First year are hereby informed that we are planning to conduct A certificate course on '*General Mental Ability*' daily for one hour from **3/8/2020 to 11/9/2020**. No fee will be charged for the course. Students willing to participate register your names to the undersigned at the earliest.

First Year Incharge

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## **Report On “A Certificate Course on Developing Communication skills**

A certificate course on ‘*General Mental Ability*’ daily for one hour from **3/8/2020 to 11/9/2020** was arranged for the students of first year daily one hour for 30 days in online mode. A total of 40 students enrolled themselves for the course and 35 students participated in the program. The sessions were conducted by **Dr.Sandhya Pillai, Associate Professor, and CCET Bhilai**

Students gained a deeper understanding of their cognitive strength and weakness and they were able to utilize their mental abilities to their full potential. The course mainly focused on the participants memory, reasoning, perpetual skills and increasing the overall mental ability.

First Year Incharge

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## Photographs



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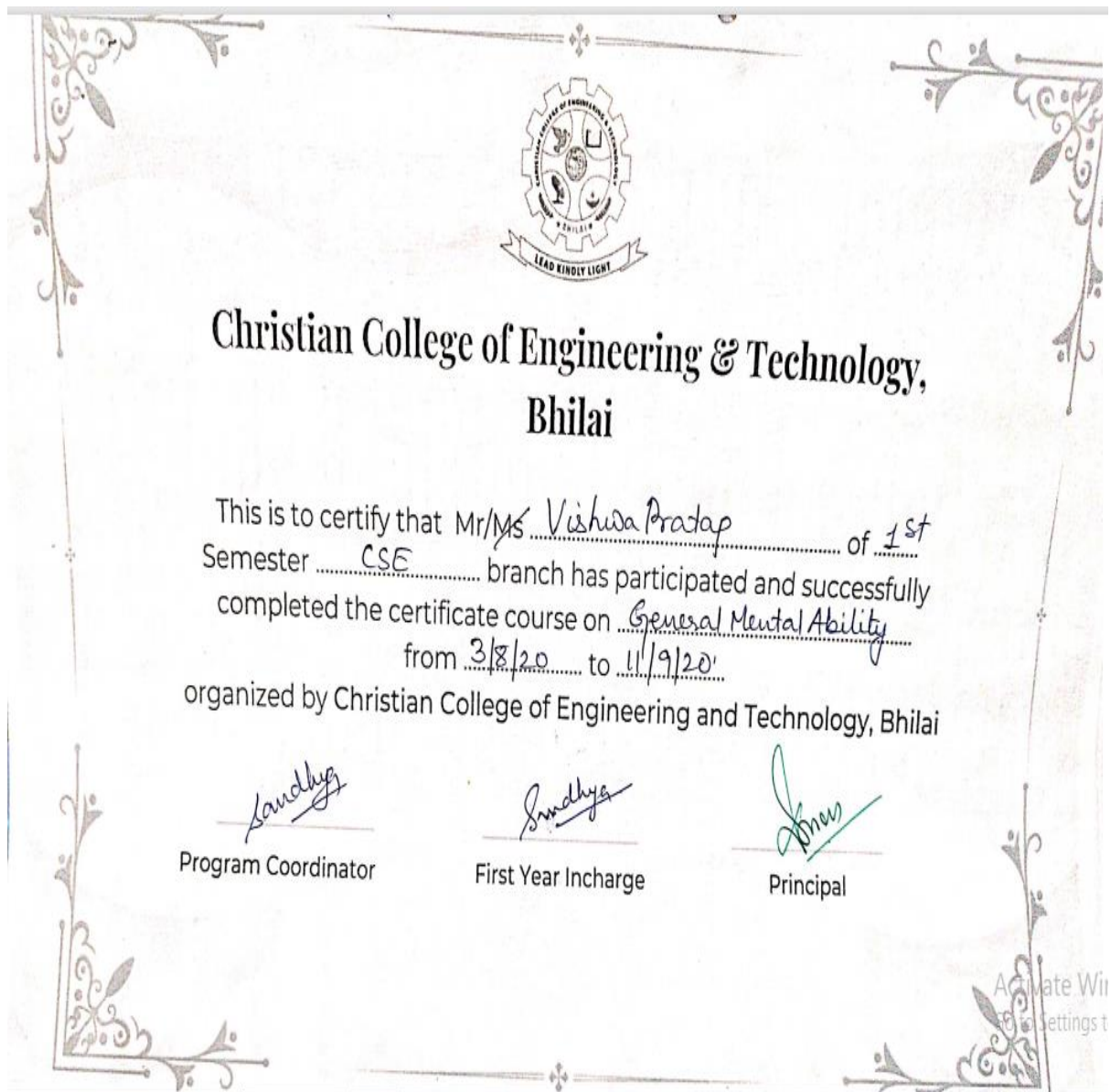
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## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



**2. The session exposed you to new knowledge and practices.**



**Criterion 1**

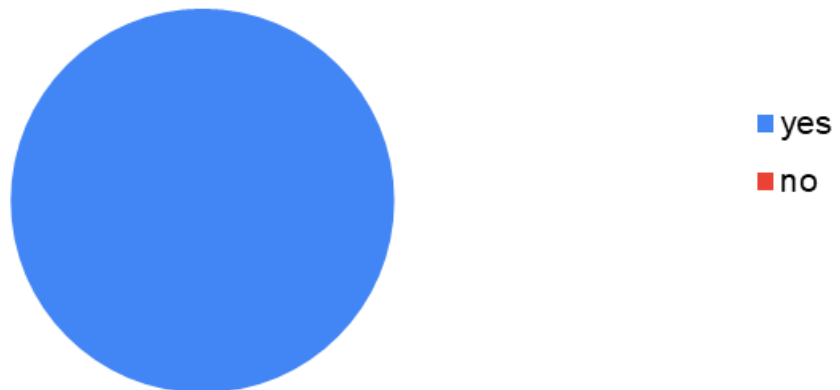
**Certificate Programs**



### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



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**A**  
***Certificate Course***  
***on***  
***Developing Communication skills***  
  
***Report***

**Venue: CCET Bhilai**

**Date: 5/12/2021 to 10/1/2022**

**Name of resource person: Mrs Shiny Blessen**

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### **Course Objective:**

- The objective of the course on ‘DEVELOPING COMMUNICATION SKILL’ is as follows:-
  - To basically equip students with the fundamental knowledge as well as practical experience of improving communication skills.
  - The use of communication skill is helpful for personal and professional lives both.
  - At the end of the course student will develop the ability to communicate effectively and confidently.
  - The course will also help to address common communication, dealing with other people.
- 

**Detail of Resource Person: Mrs. Shiny Blessen, Faculty Humanities, CCET Bhilai**

### **Target Audience:**

- Engineering students of first year students (All branch)
  - A total of 27 students enrolled and 26 students participated in the program
- 

### **Course Syllabus:**

Course module for the add on courses on Future technologies and its relevance is as follows:-

- Introduction to communication skill, Importance of Communication

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- Key elements of Effective communication, Types of Effective Communication
- Importance of Body Language in Communication
- Techniques for improving Verbal communication skills such as Active listening, speaking and questioning.
- Styles of Communications and understanding different types of communication,
- Active Listening, Paraphrasing and Summarizing.
- Practical Activities, Role plays and assignments were given to learners to demonstrate the understanding of communication skills.

### **Course Outcome :**

- The outcome of the course on ‘DEVELOPING COMMUNICATION SKILL’ is to basically equip students with the fundamental knowledge as well as practical experience of improving communication skills. They will learn to use communication skills which will be helpful for personal and professional lives both.

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## Circular

Date: 2/12/2021

All the students of First year are hereby informed that we are planning to conduct A certificate course on '**Developing Communication skills**' daily for one hour from 5/12/2021 to 10/1/2022.No fee will be charged for the course Students willing to participate register your names to Class Incharge at the earliest.

First Year Incharge

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**List of Students :-**

<b>Roll No.</b>	<b>University Roll No.</b>	<b>Name of Student</b>	<b>Branch</b>
1	301102221001	ARIN MALAKI	CSE
2	301102221002	SOMIYA C KURIAN	CSE
3	301102221003	DEMAN LAL KOTHARI	CSE
4	301102221004	ALISHA PARVIN	CSE
5	301102221005	DEEPIKA PATEL	CSE
6	301102221006	ROBINS SOLOMON	CSE
7	301102221007	RISHABH DIXIT	CSE
8	301102221008	RAHUL KUMAR	CSE
9	301102221009	RICHA JHA	CSE
10	301102221011	NITISH KUMAR SHARMA	CSE
11	301102221012	SHIVAM KUMAR	CSE
12	301102221013	PRIYANSHU KUMAR	CSE
13	301102221014	VIKAS PAINKRA	CSE
14	301102221015	NIVEDITA XALXO	CSE
15	301103721001	DINESH KUMAR YADAV	MECH
16	301103721002	AMIT KUMAR SAO	MECH
17	301103721003	SHREYANSH EKKA	MECH
18	301103721004	SHIVAM	MECH
19	301103721005	KHUSHBOO	MECH
20	301103721006	ATUL HIRWANI	MECH
21	301103721007	BHUPENDRA KUMAR SEN	MECH
22	301102421001	RAGINI RATHORE	EE
23	301102421002	HARBHAJAN BAGHEL	EE
24	301102421003	TARUN KUMAR	EE
25	301102421004	KIRTI SINGH	EE
26	301102821001	SHOBHIT KUMAR	ETC
27	301102821002	AVINASH EKKA	ETC

**Criterion 1****Certificate Programs**



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## Attendance Sheet

ATTENDANCE SHEET - Shiny Th 5/12/2021 TO 10/1/2022 DEVELOPING COMMUNICATION SKILL

Roll No.	Name of Student	Branch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SIGNATURE
1	ARIN MALAKI	CSE	P	P	P	A	P	A	P	P	A	P	P	P	A	P	A	P	A	A	P	P	P	A	A	A	P	P	P	P	A	A	Arin
2	SOMIYA C KURIAN	CSE	A	A	P	P	P	P	P	P	A	A	P	P	A	P	A	P	A	A	P	P	P	A	A	A	P	P	P	P	P	A	Somya
3	DEMAN LAL KOTHARI	CSE	P	P	A	P	P	P	P	P	P	A	P	P	A	P	A	P	A	A	P	P	P	P	P	P	P	P	P	P	P	A	Deman
4	ALISHA PARVIN	CSE	P	P	P	P	A	P	P	P	P	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Alisha
5	DEEPIKA PATEL	CSE	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Deepika
6	ROBINS SOLOMON	CSE	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Robins
7	RISHAB DIXIT	CSE	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Rishab
8	RAHUL KUMAR	CSE	A	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Rahul
9	RICHA JHA	CSE	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Richa
10	NITISH KUMAR SHARI	CSE	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Nitish
11	SHIVAM KUMAR	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Shivam
12	PRIYANSHU KUMAR	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Priyanshu
13	VIKAS PAINKRA	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Vikas
14	RAGINI RATHORE	EE	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Ragini
15	HARSHAJAN BAGHEL	EE	A	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Harshajan
16	TARUN KUMAR	EE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Tarun
17	KIRTI SINGH	EE	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Kirti
18	SHOSHIT KUMAR	ETC	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Shoshit
19	AVINASH EKKA	ETC	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Avinash
20	DINESH KUMAR YADA	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Dinesh
21	AMIT KUMAR SAO	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Amit
22	SHREYANSH EKKA	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Shreyansh
23	SHIVAM	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Shivam
24	KHUSHBOO	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Khushboo
25	ATUL HERWANI	MECH	A	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Atul
26	BHUPENDRA KUMAR	MECH	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Bhupendra

### Criterion 1

## Certificate Programs



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## **Report On “A Certificate Course on Developing Communication skills**

“A Certificate Course on ‘**Developing Communication skills**’ daily for one hour was arranged for the students of first year Students from from 5/12/2021 to 10/1/2022 daily one hour for 30 days at Room no. B-104 ,B block Building. A total of 27 students enrolled themselves for the course and participated in the program. The sessions were conducted by **Mrs. Shiny Thomas, Faculty Humanities, and CCET Bhilai**

Students learned the key elements of effective communication. Different communication styles and their impact on interpersonal relationship was learnt. Students could demonstrate effectively the verbal and nonverbal communications. They could apply listening skills to improve communications and build rapport with others.

First Year Incharge

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## Photographs



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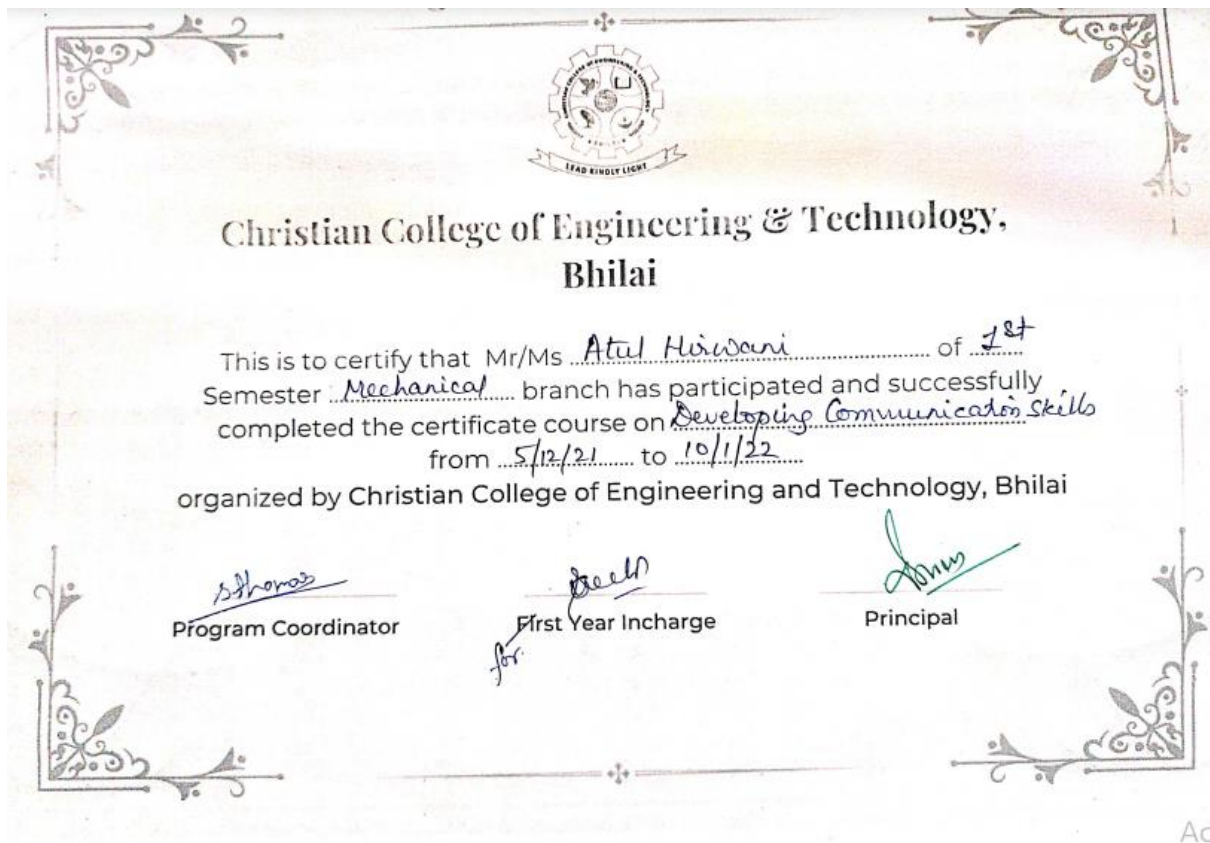
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## Sample Certificates



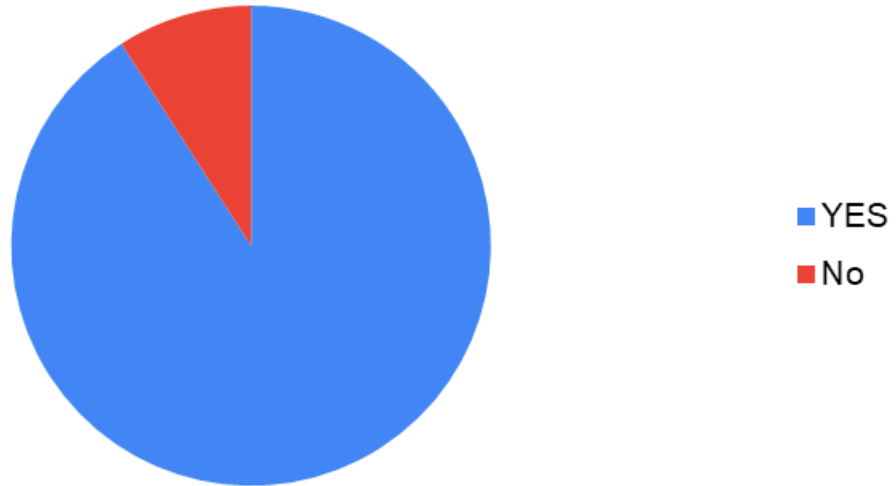
**Criterion 1**

**Certificate Programs**



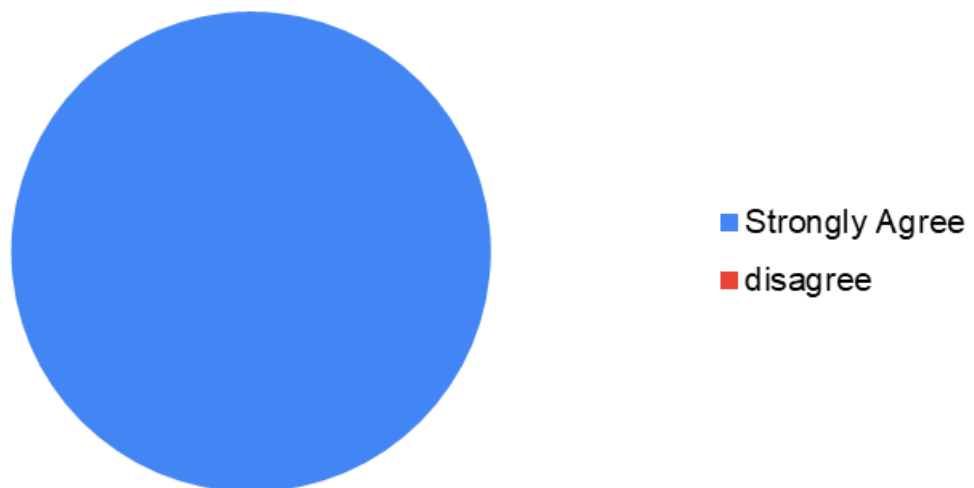
## FEEDBACK.

**1. Were objectives of the sessions clear to you? \***



2.

**2. The session exposed you to new knowledge and practices.**

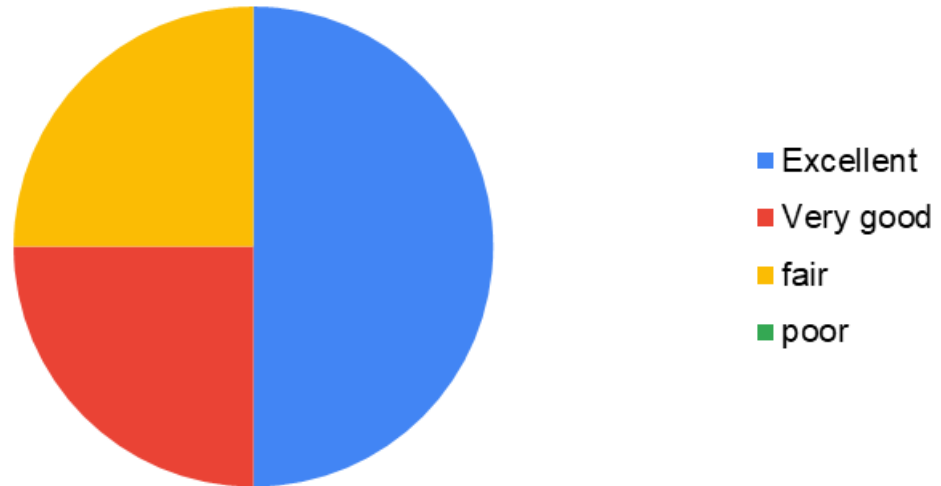


**Criterion 1**

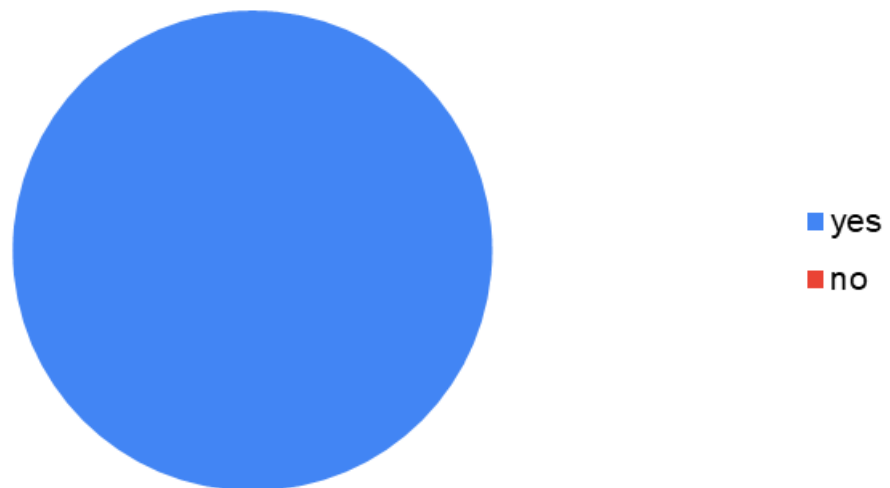
**Certificate Programs**



### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



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**A**  
**Certificate Course**  
**On**  
***'PHYSICAL FITNESS AND ITS IMPORTANCE'***  
**Report**

**Venue: CCET Bhilai**

**Date: 21/6/2022 to 25/7/2022**

**Name of resource person: Dr R.H.Gajghat**

**Criterion 1**

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### **Course Objective:**

- The objective of the course on ‘PHYSICAL FITNESS AND ITS IMPORTANCE’ is basically to provide students with an understanding of ,physicafitness,yoga philosophy, its principles, and techniques.
- By the attending this course, students will develop a strong foundation in physical fitness its importance through yoga practice.
- They will learn different asanas (postures), pranayama (breathing techniques), meditation, and relaxation.

**Detail of Resource Person: Dr.R.H.Gajghat, Associate Professor, CCET Bhilai**

### **Target Audience:**

- Engineering students of first year students (All branch)
- A total of 27 students enrolled and 26 students participated in the program

### **Course Syllabus:**

- Introduction to Physical Fitness
- Brief history of Body and its working
- Importance of Food and Exercise with our body
- Philosophy and principles of Yoga Benefits of Yoga practices
- Basic Yoga practices or asana.
- Yoga practices Pranayama and its Benefits
- Techniques of Breathing practices, Breathing exercises for relaxation and stress
- Meditation and its benefits
- Techniques for meditation which includes concentration mindfulness.

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- Deep relaxation techniques and Yoga Nidra
- Different fitness posture and its practices
- Yoga philosophy and Practices and how it works with ethical Living
- The impact of Physical fitness on the body

### **Course Outcome:**

- The outcome of the course on 'PHYSICAL FITNESS AND ITS IMPORTANCE' is basically to provide students with an understanding of ,physicafitness,yoga philosophy, its principles, and techniques. The students gained a zeal to develop for Physical fitness and yoga practice.

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## Circular

Date: 20/6/2022

All the students of Second semester ,First year Students are hereby informed that we are planning to conduct **A certificate course on ‘*PHYSICAL FITNESS AND ITS IMPORTANCE*’**

**21/6/2022 to 25/7/2022 daily for one hour.** No fee will be charged for the course

Students willing to participate register your names to Class Incharge at the earliest

First Year Incharge

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**List of Students :-**

<b>Roll No.</b>	<b>University Roll No.</b>	<b>Name of Student</b>	<b>Branch</b>
1	301102221001	ARIN MALAKI	CSE
2	301102221002	SOMIYA C KURIAN	CSE
3	301102221003	DEMAN LAL KOTHARI	CSE
4	301102221004	ALISHA PARVIN	CSE
5	301102221005	DEEPIKA PATEL	CSE
6	301102221006	ROBINS SOLOMON	CSE
7	301102221007	RISHABH DIXIT	CSE
8	301102221008	RAHUL KUMAR	CSE
9	301102221009	RICHA JHA	CSE
10	301102221011	NITISH KUMAR SHARMA	CSE
11	301102221012	SHIVAM KUMAR	CSE
12	301102221013	PRIYANSHU KUMAR	CSE
13	301102221014	VIKAS PAINKRA	CSE
14	301102221015	NIVEDITA XALXO	CSE
15	301103721001	DINESH KUMAR YADAV	MECH
16	301103721002	AMIT KUMAR SAO	MECH
17	301103721003	SHREYANSH EKKA	MECH
18	301103721004	SHIVAM	MECH
19	301103721005	KHUSHBOO	MECH
20	301103721006	ATUL HIRWANI	MECH
21	301103721007	BHUPENDRA KUMAR SEN	MECH
22	301102421001	RAGINI RATHORE	EE
23	301102421002	HARBHAJAN BAGHEL	EE
24	301102421003	TARUN KUMAR	EE
25	301102421004	KIRTI SINGH	EE
26	301102821001	SHOBHIT KUMAR	ETC
27	301102821002	AVINASH EKKA	ETC

**Criterion 1****Certificate Programs**



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## Attendance Sheet

ATTENDANCE SHEET - DR R H GAJGHAT      21/6/2022 TO 25/7/22      ~~XXXXXXXXXX~~ PHYSICAL FITNESS & ITS IMPORTANCE

Roll No.	Name of Student	Branch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SIGNATURE		
			21/6	21/6	22/6	22/6	23/6	24/6	24/6	27/6	27/6	28/6	29/6	30/6	1/7	1/7	4/7	6/7	7/7	8/7	11/7	12/7	13/7	14/7	15/7	15/7	18/7	19/7	20/7	21/7	22/7	25/7			
1	ARIN MALAKI	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Arin</i>
2	SOMYA CKURIAN	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Somya</i>
3	DEMAN LAL KOTHARI	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Deman</i>
4	AISHA PARVIN	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Aisha</i>
5	DEEPIKA PATEL	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Deepika</i>
6	ROBNS SOLOMON	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Robns</i>
7	ROHAB DIXIT	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rohab</i>
8	RAHUL KUMAR	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rahul</i>
9	RICHA JHA	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Richa</i>
10	NITISH KUMAR SHARMA	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nitish</i>
11	SHIVAM KUMAR	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Shivam</i>
12	PRINSHU KUMAR	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Prinshu</i>
13	VIKAS PANKAJ	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Vikas</i>
14	RAGNI RATHORE	EE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ragni</i>
15	HARBHARAN BAGHEL	EE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Harbharan</i>
16	TARUN KUMAR	EE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Tarun</i>
17	KIRTI SINGH	EE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Kirti</i>
18	SHOBHI KUMAR	ETC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Shobhi</i>
19	AVINASH EKKA	ETC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Avinash</i>
20	DINESH KUMAR YADAV	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Dinesh</i>
21	AMIT KUMAR SAG	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Amit</i>
22	SHREYANSH EKKA	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Shreyansh</i>
23	SHIVAM	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Shivam</i>
24	KHUSHBOO	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Khushboo</i>
25	ATUL HRWANI	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Atul</i>
26	BHUPENDRA KUMAR SE	MECH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Bhupendra</i>

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## **Report On “A Certificate Course on Yoga Training”**

“A Certificate Course ‘*PHYSICAL FITNESS AND ITS IMPORTANCE*’

was arranged for the students of 2<sup>nd</sup> semester Students from **21/6/2022 to 25/7/2022** daily one hour for 30 days at first floor lobby B block Building.. A total of 27 students enrolled them for the course and participated in the program. The sessions were conducted by Dr R.H Gajghat, Associate Professor, Mechanical Department CCET Bhilai.

The main objective of the course was to provide students with an understanding of yoga philosophy, its principles, and techniques.

From the overall responses received from the students regarding the course,

It was found that the students felt more relaxed and centred after each session of Yoga. It helped to improve the flexibility and strength. They appreciated the course which helped to reduce the stress and anxiety. The resource person was found to be knowledgeable.

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## Photographs



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## Sample Certificates



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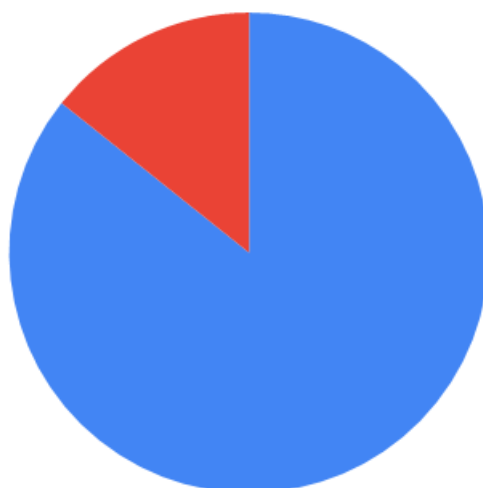
## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES  
■ NO

**2. The session exposed you to new knowledge and practices.**



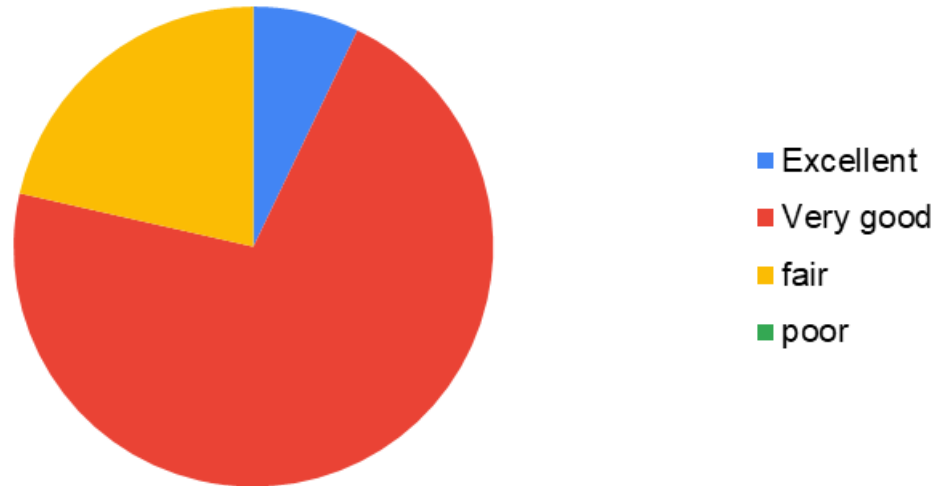
■ Strongly Agree  
■ Disagree

**Criterion 1**

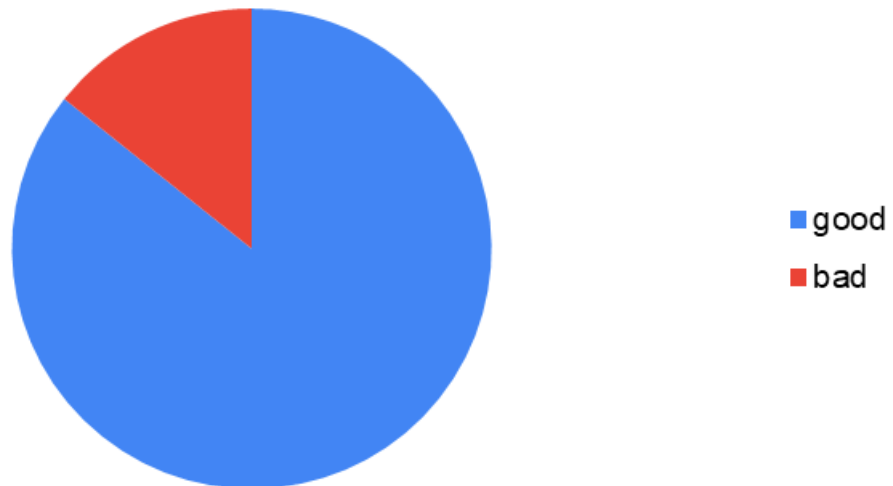
**Certificate Programs**



### 3 Time management by session speaker



### 4. Communication Skill of Speaker .



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**A**  
**Add on Course**  
**On**  
**Future technologies and its relevance**

**Report**

**Venue: CCET Bhilai**

**Date: 3/1/2023 to 31/1/2023**

**Name of resource person: Dr. Anju Singh**

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### **Course Objective:**

The objective of the course on Future technologies and its relevance is prepared so as to introduce the students of first year with the latest developments in Science and technology. Its potential impact on society is briefed. At the end of the course the students will gain a deep understanding on the role of technologies in shaping the future and its relevance. Course will help in gaining the latest advancements.

**Detail of Resource Person: Dr. Anju Singh, Assistant Professor, CCET Bhilai**

### **Target Audience:**

- Engineering students of first year students (All branch)
- A total of 18 students enrolled and 18 students participated in the program

### **Course Syllabus:**

Course module for the add on courses on Future technologies and its relevance is as follows:-

- Introduction to Future technologies.
- Future technologies such as Artificial Intelligence, Robotics, Astrophysics, Nano technology, Luminescence, Phosphors, Sensors
- Importance of Future technologies in our lives.
- Future technologies and Society
- Impact of future technologies on Society
- Emerging Job opportunities in Future technologies.

### **Course Outcome:**

The outcome of the course on Future technologies and its relevance for the students of first year was to equip them with the latest developments in Science and technology. It also helped for potential impact on society. At the end of the

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course the students gained a deep understanding on the role of technologies in shaping the future and its relevance.

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## Circular

Date: 2/1/2023

All the students of First year Students are hereby informed that we are planning to conduct **A certificate course on “Future technologies and its relevance”** daily for one hour from **3/1/2023 to 30/1/2023**. No fee will be charged for the course. Dr. Anju Singh will be the resource person.

Students willing to participate should register your names to Class In charge at the earliest

First Year In charge

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### List of Students :-

<b>Roll No.</b>	<b>Name of Student</b>	<b>Branch</b>
1	ANISHA KUMARI	COMP.SC.
2	DHEERAJ SONI	COMP.SC.
3	DIKSHA SONI	COMP.SC.
4	DURGA JYOTI YADAV	COMP.SC.
5	KUNAL DEVDAS	COMP.SC.
6	MAYANK	COMP.SC.
7	NAFIYA KHAN	COMP.SC.
8	NAMRATA KUMARI	COMP.SC.
9	NEELKANTH	COMP.SC.
10	OMKAR	COMP.SC.
11	TANNU MAJUMDAR	COMP.SC.
12	VISHAL YADAV	COMP.SC.
13	ASHISH SONI	E&TC
14	HARSH TARONE	E&TC
15	KOMAL PRASAD	E&TC
16	NIHAL SHARMA	E&TC
17	ASHWANI KUMAR	EE
18	SAGAR YADAV	MECH.

**Criterion 1**

**Certificate Programs**



## Attendance Sheet

ATTENDANCE SHEET – DR ANJU SINGH    31/1/2023 TO 31/1/2023    FUTURE TECHNOLOGIES AND ITS RELEVANCE

Roll No.	Name of Student	Branch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SIGN	
			2/1	3/1	4/1	5/1	6/1	9/1	10/1	11/1	11/1	12/1	12/1	13/1	13/1	16/1	16/1	17/1	18/1	19/1	20/1	23/1	24/1	25/1	25/1	27/1	27/1	28/1	30/1	31/1	31/1			
1	ANISHA KUMARI	CSE	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Kumbhar
2	DHEERAJ SONI	CSE	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Sharma
3	DIKSHA SONI	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharma
4	DURGA JYOTI YADAV	CSE	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharma
5	KUNAL DEVDAS	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kulkarni
6	MAYANK	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharma
7	NAFIYA KHAN	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharma
8	NAMRATA KUMARI	CSE	A	P	A	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	A	P	P	P	P	P	P	Sharma
9	NEELKANTH	CSE	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	Sharma
10	OMKAR	CSE	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharma
11	TANNU MAJUMDAR	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Tannu
12	VISHAL YADAV	CSE	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Vishal
13	ASHISH SONI	E&TC	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Sharma
14	HARSH TARONE	E&TC	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharma
15	KOMAL PRASAD	E&TC	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Sharma
16	NIHAL SHARMA	E&TC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sharma
17	ASHWANI KUMAR	EE	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	A	A	P	P	P	Sharma
18	SAGAR YADAV		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	Sharma

# Criterion 1

# Certificate Programs





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## **Report On “A Certificate Course on Future technologies and its relevance”**

“A certificate course on “Future technologies and its relevance” from 3/1/2023 to 30/1/2023 daily one hour for 30 days in Room Number B-104 ground floor B block Building. A total of 18 students enrolled them for the course and participated in the program. The sessions were conducted by Dr Anju Singh, Assistant Professor, Physics Department, CCET Bhilai.

The main objective of the course was to provide students a deep understanding on the role of technologies in shaping the future and its relevance. From the overall responses received from the students regarding the course, It was found that the students have gained the knowledge regarding New technologies, the advancements which are taking place nowadays. The resource person was found to be knowledgeable.

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## Photographs



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## Sample Certificates



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## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES

■ No

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**Certificate Programs**



## 2.The session exposed you to new knowledge and practices.



- Strongly Agree
- disagree

## 3 Time management by session speaker



- Excellent
- Very good
- fair
- poor

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**Certificate Programs**



## 4. Communication Skill of Speaker .



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**A**  
**Add on Course**  
**On**  
*Hands on to Mathematical Skills*

**Report**

**Venue: CCET Bhilai**

**Date: 19/10/2022 to 30/11/2022**

**Name of resource person: Dr. S.S. Bishoyi**

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## **Course Objective :**

The objective of the course on **Hands on to Mathematical Skills** is to provide students with the fundamental knowledge and the practical experience needed to develop essential skills in mathematics.

Students will develop the ability to learn the mathematical concepts and techniques with the real world problems and academic pursuits.

Through the lectures and exercises students will learn mathematical skills such as Arithmetic's, Algebra, Trigonometry, Determinants and Matrices.

They will enhance the mathematical concepts and skills for problem solving and critical thinking

**Detail of Resource Person: Dr.S.S.Bishoyi, Associate Professor, CCET Bhilai**

## **Target Audience:**

- Engineering students of first year students (All branch)
- A total of 18 students enrolled and 18 students participated in the program

## **Course Syllabus:**

The course 'Hands on to Mathematical Skills' contains following modules

- Fundamentals of Mathematics,
- Properties of Numbers (commutative, associative and Distributive)
- Algebra and Quadratic Equations
- Linear inequalities.
- Geometry and its properties.
- Introduction to Trigonometry
- Introduction to Coordinate geometry
- Determinants and Matrices

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### **Course Outcome :**

The outcome of the course on **Hands on to Mathematical Skills** was that the students could attain the fundamental knowledge and the practical experience needed to develop essential skills in mathematics. Students learned the mathematical concepts and techniques with the real world problems and academic pursuits.

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## Circular

Date: 18/10/2022

All the students of First year Students are hereby informed that we are planning to conduct **A certificate course on “Hands on to Mathematical Skills”** daily for one hour from **19/10/2022 to 30/11/2022**. No fee will be charged for the course. **Dr. S.S. Bishoyi, Associate Professor, CCET**. will be the resource person. Students willing to participate should register your names to Class In charge at the earliest

First Year Incharge

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### List of Students :-

<b>Roll No.</b>	<b>Name of Student</b>	<b>Branch</b>
1	ANISHA KUMARI	COMP.SC.
2	DHEERAJ SONI	COMP.SC.
3	DIKSHA SONI	COMP.SC.
4	DURGA JYOTI YADAV	COMP.SC.
5	KUNAL DEVDAS	COMP.SC.
6	MAYANK	COMP.SC.
7	NAFIYA KHAN	COMP.SC.
8	NAMRATA KUMARI	COMP.SC.
9	NEELKANTH	COMP.SC.
10	OMKAR	COMP.SC.
11	TANNU MAJUMDAR	COMP.SC.
12	VISHAL YADAV	COMP.SC.
13	ASHISH SONI	E&TC
14	HARSH TARONE	E&TC
15	KOMAL PRASAD	E&TC
16	NIHAL SHARMA	E&TC
17	ASHWANI KUMAR	EE
18	SAGAR YADAV	MECH.

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## Attendance Sheet

ATTENDANCE SHEET - SS BISHOYI

19/10/2022 TO 30/11/2022

HANDS ON TO MATHEMATICAL SKILLS

Roll No.	Name of Student	Branch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SIGNATURE
			19/10	20/10	21/10	25/10	26/10	27/10	28/10	11/2	2/11	3/11	4/11	7/11	8/11	9/11	10/11	15/11	16/11	17/11	18/11	21/11	22/11	23/11	24/11	25/11	28/11	28/11	29/11	29/11	30/11	30/11	
1	ANISHA KUMARI	CSE	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Anisha</i>
2	DHEERAJ SONI	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Dheeraj</i>
3	DIKSHA SONI	CSE	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Diksha</i>
4	DURGA JYOTI YADAV	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	A	A	P	P	P	A	P	P	P	P	P	<i>Durga</i>
5	KUNAL DEVDAS	CSE	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Kunal</i>
6	MAYANK	CSE	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Mayank</i>
7	NAFIYA KHAN	CSE	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nafiya</i>
8	NAMRATA KUMARI	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Namrata</i>
9	NEELKANTH	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Neelkanth</i>
10	OMKAR	CSE	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Omkar</i>
11	TANNU MAJUMDAR	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Tannu</i>
12	VISHAL YADAV	CSE	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Vishal</i>
13	ASHISH SONI	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ashish</i>
14	HARSH TARONE	CSE	P	P	A	P	P	P	P	P	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Harsh</i>
15	KOMAL PRASAD	CSE	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Komal</i>
16	NIHAL SHARMA	CSE	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nihal</i>
17	ASHWANI KUMAR	CSE	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ashwani</i>
18	SAGAR YADAV	CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Sagar</i>

Activate Windows

### Criterion 1

## Certificate Programs



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## **Report on “A Certificate Course on “Hands on to Mathematical Skills”**

A certificate course on “Hands on to Mathematical Skills” daily for one hour from 19/10/2022 to 30/11/2022 daily one hour for 30 days in Room Number B-104 ground floor B block Building. **Dr. S.S. Bishoyi, Associate Professor, CCET** was the resource person. A total of 18 students enrolled them for the course and participated in the program.

The main objective of the course was to provide students with a deep understanding of the mathematical skills in the field of science, technology, engineering and mathematics. The courses helped in addressing the common challenges and misconceptions that students face when learning Maths. After attending the course they will be equipped with the concepts in mathematics and learn the skills in solving the problems.

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## Photographs



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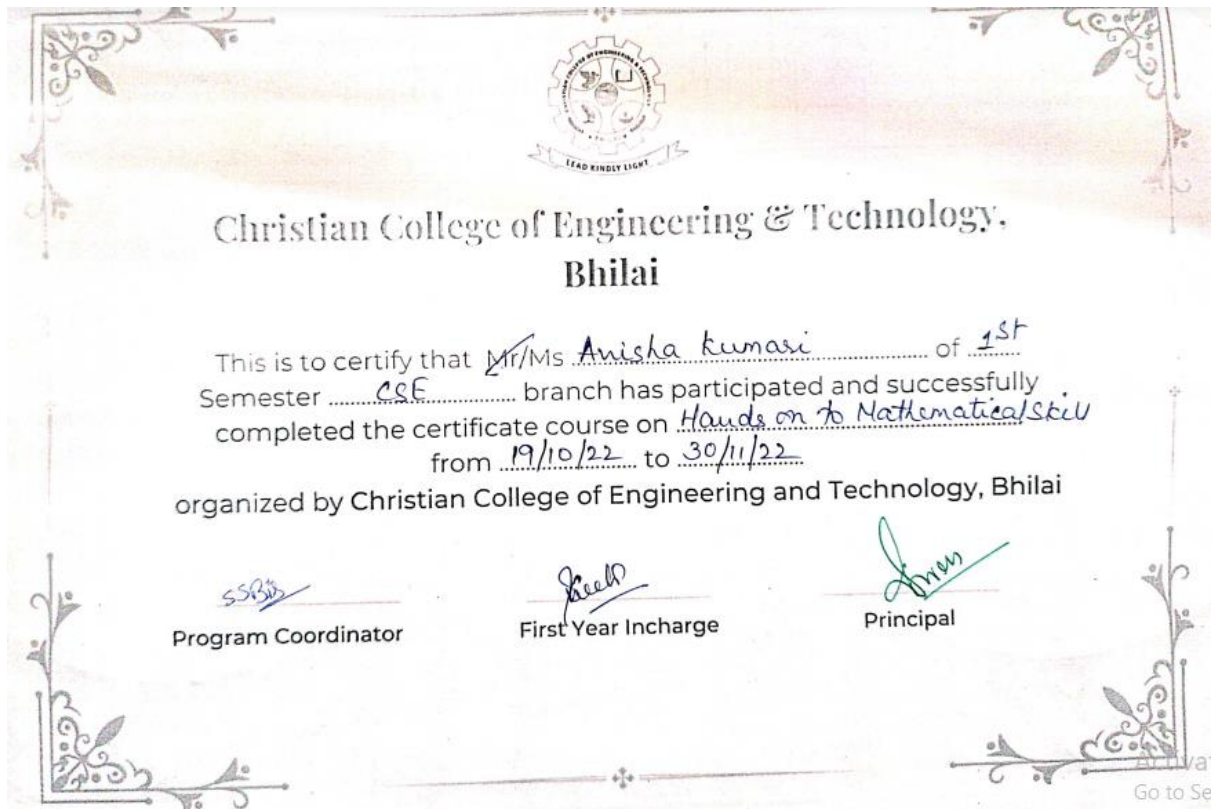
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## Sample Certificates



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## FEEDBACK

**1. Were objectives of the sessions clear to you? \***



■ YES  
■ No

**2. The session exposed you to new knowledge and practices.**



■ Strongly Agree  
■ disagree

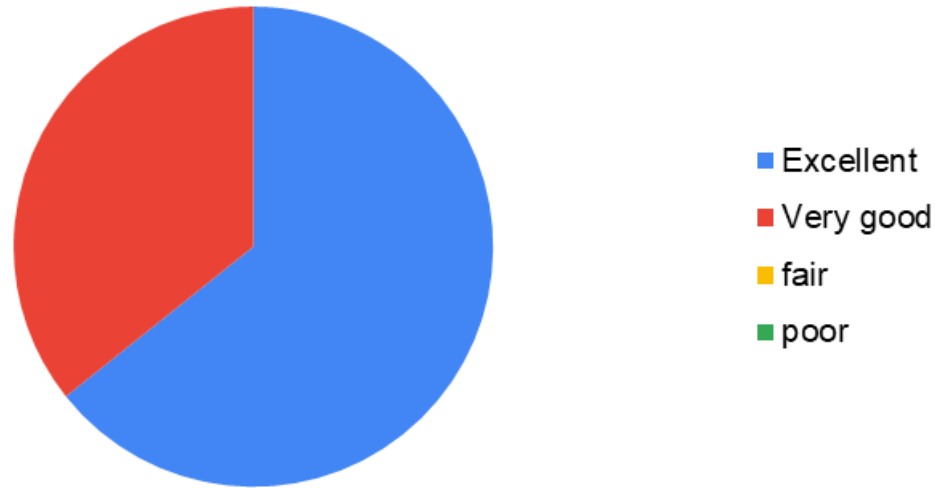
**Criterion 1**

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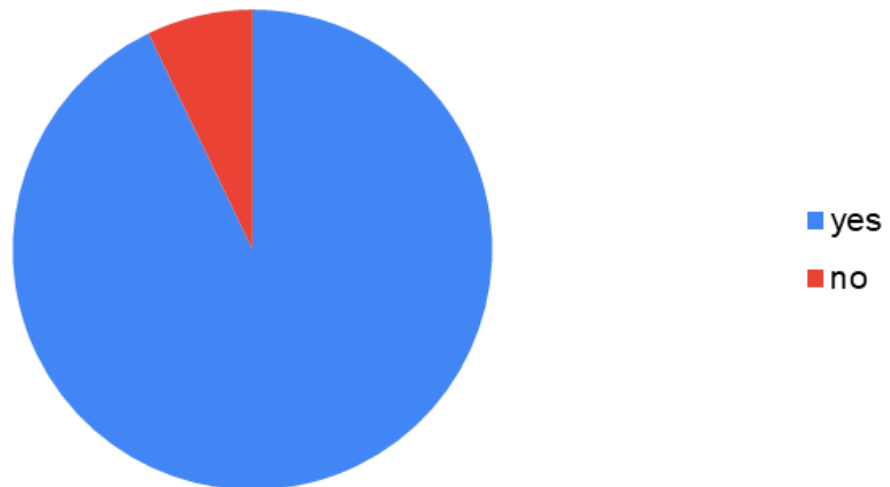




### 3 Time management by session speaker



### 4. Communication Skill of Speaker .





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**Certificate/Value added Courses**

**Department of Mechanical Engineering**

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## **INDEX**

SN	Academic Session	Topic	Resource Person	Duration
1	2018-2019	Data Analysis with SPSS	Mr. R. K. RATHORE	11/09/2018 to 01/10/2018
2	2018-2019	Advanced Excel	Mr Amit Sarda	09/01/2019 to 30/01/2019
3	2019-2020	Optimization Techniques for Design of Product and Manufacturing	Dr. Srinivasa Rao Pulivarti	04/09/2019 to 25/09/2019
4	2019-2020	Overview of Green Composites	Dr. Srinivasa Rao Pulivarti	08/01/2020 to 29/01/2020
5	2020-2021	LaTeX for Engineering Students	Dr. Radheshyam H. Gajghat	02/09/2020 to 23/09/2020
6	2020-2021	Ethics In Engineering Practice	Mr. AMIT SARDA	18/01/2021 to 08/02/2021
7	2021-2022	CSAT Preparation Technique	Mr. C.S.Sahu	11/08/2021to 01/09/2021
8	2021-2022	Soft Skill Development	Mr. Praveen Chandrakar	07/02/2022 to 28/02/2022
9	2022-2023	Fundamental design and analysis of machine elements by Solidworks	Mr. Sumit Kumar Shrivastava	01/08/2022 to 24/08/2022
10	2022-2023	An Introduction to Intellectual Property Rights for Engineers in India	Dr. Radheshyam H. Gajghat	01/02/2023 to 21/02/2023

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A  
Certificate Course  
On  
**Data Analysis with SPSS**  
  
**Report**

Venue: CCET, Bhilai

**Date: 11/09/2018 to 01/10/2018**

**Name of Resource Person: Mr. R. K. RATHORE**

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## **NOTICE**

Date: 04/09/2018

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 05/09/2018, Time: 1:00 p.m.  
Venue: HOD Cabin.

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 05/09/2018, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. It has been decided that a Certificate Course on **Data Analysis with SPSS** will be conducted from 11/09/2018 to 01/10/2018 for 30 hours.
2. Students of BTech 4<sup>th</sup> year and MTech 1<sup>st</sup> year studying in Mechanical Engineering are eligible to attend the course.
3. The title of the course will be **Data Analysis with SPSS**.
4. Mr. Radheshyam H. Gajghat, Associate Professor, Dept. of Mech. Engg. CCET, Bhilai will be conducting the classes.
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day after regular classes
7. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## Circular

Date: 06/09/2018

All the students of B.Tech 4<sup>th</sup> year of Mechanical Engineering and M.Tech 1<sup>st</sup> year of CAD-CAM Robotics are hereby informed that we are planning to conduct a certificate course on **Data Analysis with SPSS** for 2 hours per day from **11/09/2018 to 01/10/2018** for total 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by 11.09.2018

HOD

Department of Mechanical Engineering

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## Course Objective:

The course is designed to provide participants with both an understanding and practical experience of a range of the more common analytical techniques and representation methods for numerical data.

**Detail of Resource Person:** Mr. Mr. R. K. RATHORE, Assistant Professor,  
Dept. of Mech. Engg., CCET, Bhilai

## Target Audience:

- Engineering Students of BTech 4<sup>th</sup> year (Mechanical Engineering)
- Engineering Students of MTech 1<sup>st</sup> year (CAD-CAM Robotics)

## Course Syllabus:

- Introduction
- Input and data management
- Data manipulation
- Descriptive and graphical data analysis
- Statistical tests + Working with data files
- Introduction to correlation and regression
- Introduction to multivariate analysis: feature reduction
- Introduction to multivariate analysis: clustering and classification

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## **Course Outcomes:**

On successful completion of the course, the participant will be able to:

- Solve algebraic, arithmetic, and trigonometric operations.
- Prepare attractive reports of investigations. It incorporates text, tables, graphs, and statistical results of the report in the same file.
- Calculate/recode variables and prepare data for analysis.
- Conduct descriptive and basic inferential statistics.
- Create and edit graphical displays of data.
- Understand and practical experience of a range of the more common analytical techniques and representation methods for numerical data.

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## Enrolment List

S. No.	Roll No.	Name	Semester
1	1	A Ashish	7 <sup>th</sup>
2	2	Abdul Rashid Alim	7 <sup>th</sup>
3	3	Abdul Washiff	7 <sup>th</sup>
4	4	Abhishek Giri	7 <sup>th</sup>
5	5	Abhishektara	7 <sup>th</sup>
6	6	Ali Hassanansari	7 <sup>th</sup>
7	7	Aman Kumar Mahto	7 <sup>th</sup>
8	8	Amarjeet Banjare	7 <sup>th</sup>
9	9	Amit Lakra	7 <sup>th</sup>
10	10	Amit Singh	7 <sup>th</sup>
11	11	Ankit Patel	7 <sup>th</sup>
12	12	Anoop G Koshy	7 <sup>th</sup>
13	13	Anupam Jaiswal	7 <sup>th</sup>
14	14	Ashish Dewangan	7 <sup>th</sup>
15	15	Avinash Kumar Dewangan	7 <sup>th</sup>
16	16	Bharat Kumar	7 <sup>th</sup>
17	17	Chandan Koumarya	7 <sup>th</sup>
18	18	Chiranjeev Agrawal	7 <sup>th</sup>
19	19	Dayanand Sahu	7 <sup>th</sup>
20	20	Deepak Kumar	7 <sup>th</sup>
21	21	Deepak Lal Verma	7 <sup>th</sup>
22	1	Aashana Khatoon	M.tec 1 <sup>st</sup>
23	2	Ajay Keshri	M.tec 1 <sup>st</sup>

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<b>S. No.</b>	<b>Roll No.</b>	<b>Name</b>	<b>Semester</b>
24	3	Bhupesh Sahu	M.tec 1 <sup>st</sup>
25	4	Diksha Singh	M.tec 1 <sup>st</sup>
26	5	Neeraj Verma	M.tec 1 <sup>st</sup>
27	6	Ranveer Singh	M.tec 1 <sup>st</sup>
28	7	Sanjay Sahu	M.tec 1 <sup>st</sup>
29	22	Dev Sagar Sao	7 <sup>th</sup>

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## Attendance List

 Christian College of Engineering and Technology, Bhilai

**Attendance List**

S. No	Name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Signature
1	A Ashish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	AA
2	Abdul Rashid Alim	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Alim
3	Abdul Washiff	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Abdul Washiff
4	Abhishek Giri	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Abhishek
5	Abhishektara	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Abhishektara
6	Ali Hassanansari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ali
7	Aman Kumar Mahto	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Aman
8	Amarjeet Banjare	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amarjeet
9	Amit Lakra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amit
10	Amit Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amit
11	Ankit Patel	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ankit
12	Anoop G Koshy	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Anoop
13	Anupam Jaiswal	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Anupam
14	Ashish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ashish
15	Avinash Kumar Dewangan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Avinash
16	Bharat Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bharat
17	Chandan Koumarya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chandan
18	Chiranjeev Agrawal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chiranjeev
19	Dayanand Sahu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Dayanand
20	Deepak Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak
21	Deepak Lal Verma	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak
22	Aashana Khaton	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Aashana

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## Christian College of Engineering and Technology, Bhilai

S. No	Name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Signature
23	Ajay Keshri	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ajay</i>
24	Bhupesh Sahu	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	<i>Bhupesh</i>
25	Diksha Singh	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Diksha</i>
26	Neeraj Verma	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	<i>Neeraj</i>
27	Ranveer Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ranveer</i>

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## **Report On a Certificate Course on “Data Analysis with SPSS”**

A Certificate Course on “**Data Analysis with SPSS**” for 30 hours was arranged for the students of BTech 4<sup>th</sup> year of Mechanical Engineering and MTech 1<sup>st</sup> & 2<sup>nd</sup> year of CAD-CAM Robotics from **11/09/2018 to 01/10/2018** at room no B-104 and total of 27 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. R K Rathode, Assistant Professor, CCET Bhilai. The main objective of the course was to provide participants with both an understanding and practical experience of a range of the more common analytical techniques and representation methods for numerical data.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to understand the uses of SPSS, as a tool to summarize and aid in the interpretation of research findings.

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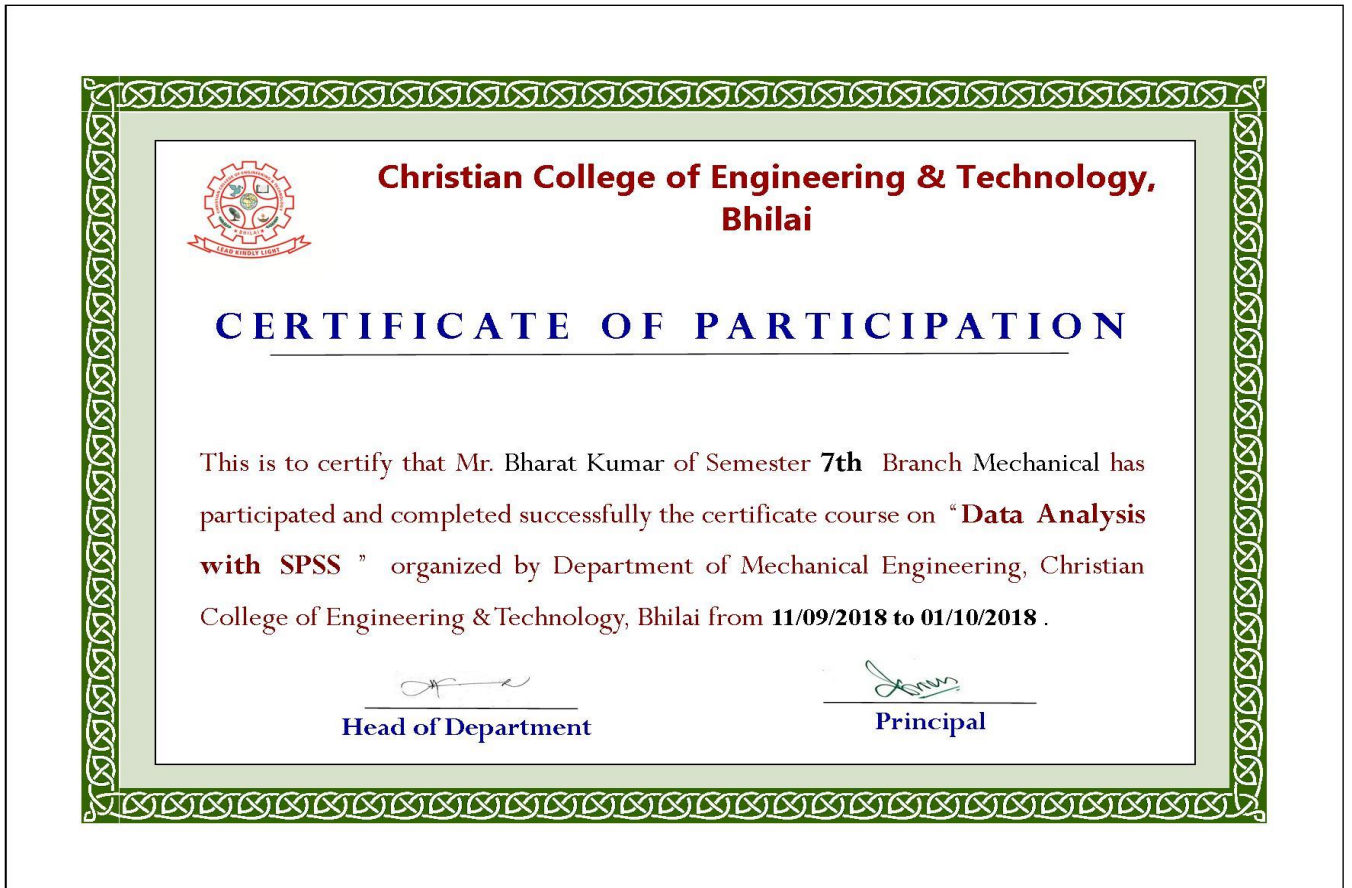
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## Sample of Certificate for Feedback Session

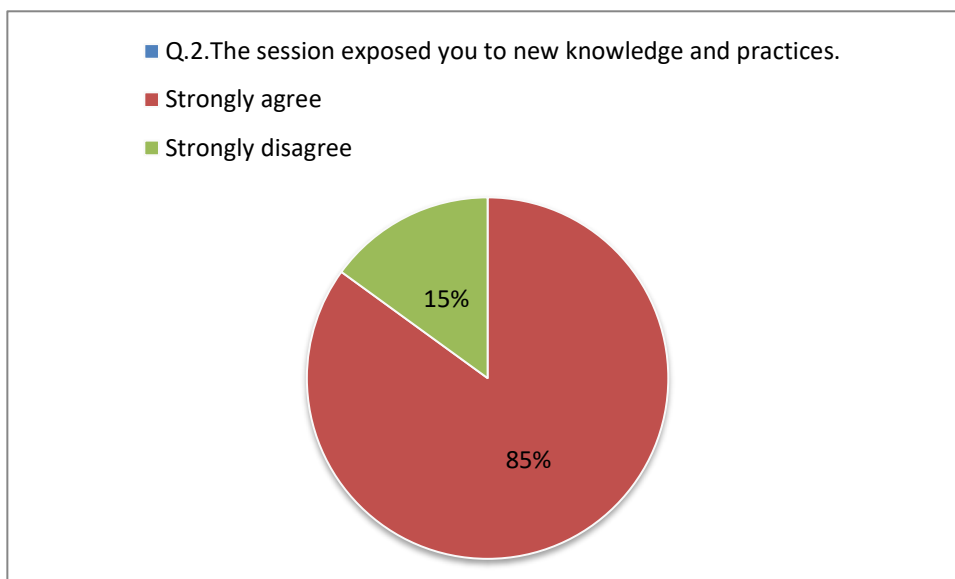
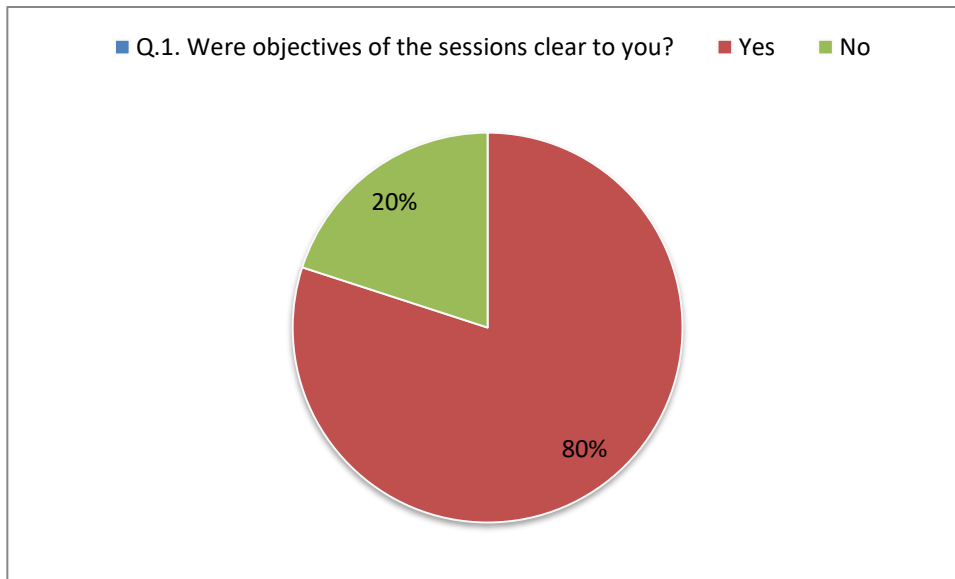


**Criterion 1**

**Certificate Programs**



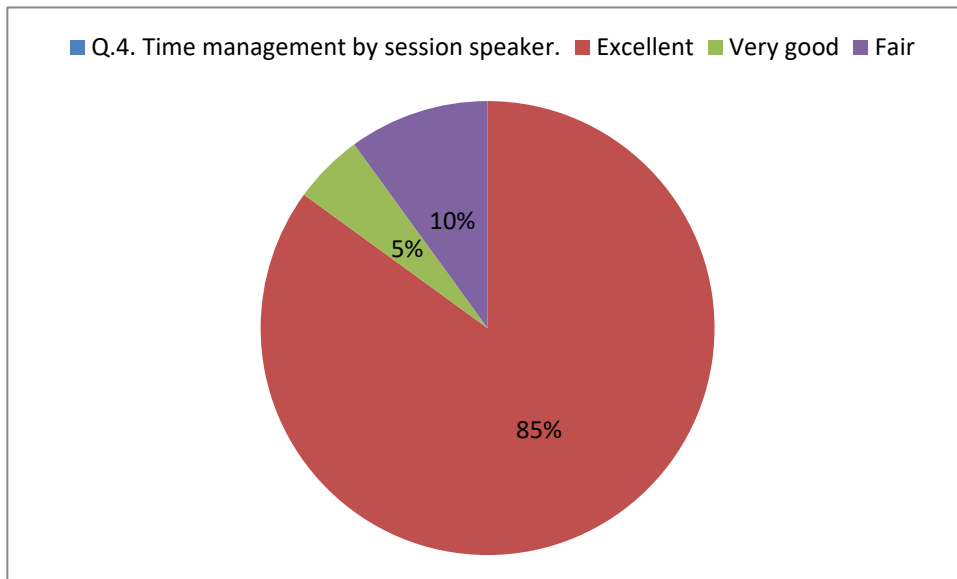
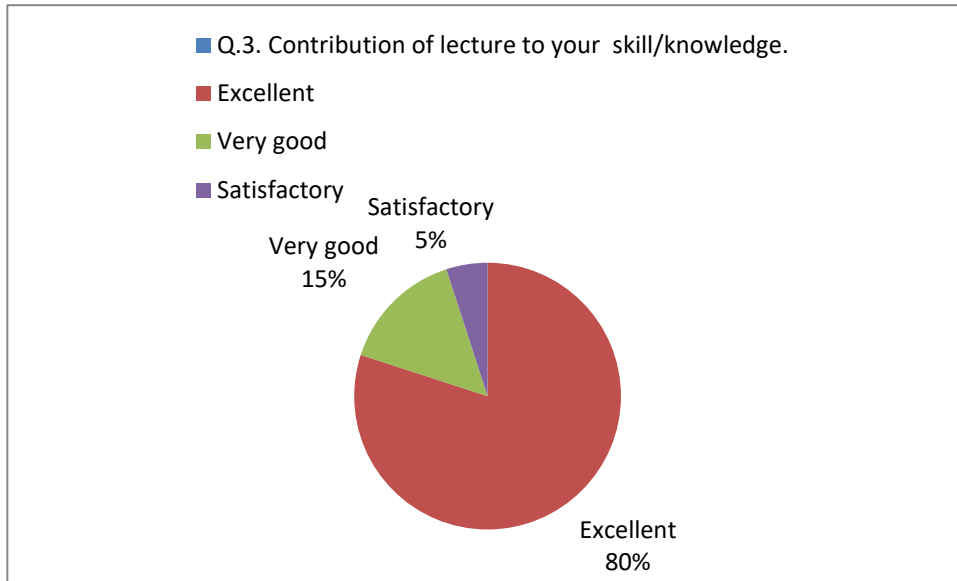
## Feedback (Online)



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**Certificate Programs**





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## Certificate Programs

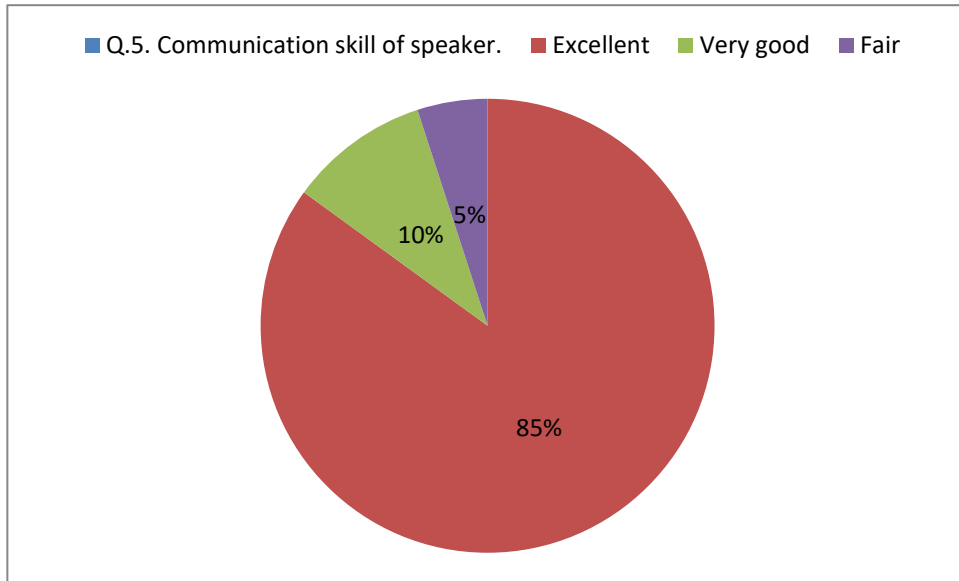


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A  
Certificate Course  
On  
**Advanced Excel**  
  
**Report**

Venue: CCET, Bhilai

Date: 09/01/2019 to 30/01/2019

Name of Resource Person: Mr. Amit Sarda

**NOTICE**

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Date: 03/01/2019

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 04/01/2019, Time: 2:00 p.m.  
Venue: HOD Cabin.

**AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**  
**Department of Mechanical Engineering**

**COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

**Criterion 1**

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 04/01/2019, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. It has been decided that a Certificate Course on **Advanced Excel** will be conducted from 09/01/2019 to 30/01/2019 for 30 hours.
2. Students of BTech **2<sup>nd</sup> and 3<sup>rd</sup> year** studying in Mechanical Engineering are eligible to attend the course.
3. The title of the course will be **Advanced Excel**.
4. Mr. Amit Sarda, Associate Professor of Mechanical Engineering Department will be conducting the classes.
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day after regular classes
7. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. **Principal**
2. **All Faculty members**
3. **IQAC Coordinator**

**Criterion 1**

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## Circular

**Date: 07/01/2019**

All the students of B.Tech 3<sup>rd</sup> & 2<sup>nd</sup> year of Mechanical Engineering are hereby informed that we are planning to conduct a certificate course on “**Advanced Excel**” for 2 hours per day from **09/01/2019 to 30/01/2019** for total 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by 08/01/2019

HOD

Department of Mechanical Engineering

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## Course Objective:

The ability to analyse data is essential in today's world that will help learners to make better decisions. Knowledge of MS Excel enables the learner to process data irrespective of the area of work. MS Excel is one of the popular tools for data analysis.

MS Excel is a full-featured spreadsheet program that allows the users to perform simple specific calculation or work-related analytics to support decision making or more complex dashboards and big data analytics.

The syllabus of this course has been designed to include various approaches to entering, segregating and processing of data in such a way that will enhance data analytical skills of the learner to suit the requirements of industry today.

The course will be available to students that are interested to upgrade their skill sets in working on MS Excel.

**Detail of Resource Person:** Mr. Amit Sarda, Associate Professor, Dept. of Mech. Engg., CCET, Bhilai

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## Course Syllabus:

S No.	Modules	No. of Hours
1	Creating and navigating worksheet and adding information to worksheet i) Type of data, entering different type of data such as texts, numbers, dates, function ii) Quick way to add data auto complete, auto correct, auto fill, auto fit. Undo and redo. iii) Moving data, contiguous and non-contiguous selections. Selecting with keyboard cut-copy-paste. Adding and moving columns or row. Inserting columns and rows iv) Find and replace values. Spell check. v) Formatting cells, numbers, dates, times, vi) Freeze/Split Protecting Sheet/Tracking / Auditing etc.	4
2	Multiple spreadsheet i) Create and using template ii) Creating and linking Multiple spreadsheet iii) Adding, removing, hiding and renaming worksheet. iv) Add header and footer to a workbook. Page breaks, preview. v) Creating formula, inserting function, cell reference, absolutes, relative (within a worksheet, other worksheets and other workbook), logical operator. vi) Creating and using named ranges. vii) Use of Paste Special	5
3	Functions i) Financial Function: - FV, PV, PMT, PPMT, IPMT, NPER, RATE, NPV, IRR. ii) Database Functions: - LOOKUP, VLOOKUP, HLOOKUP, iii) Conditional Logical Functions: - IF, COUNTIF, SUMIF. iv) Mathematical & statistical Functions: - ROUND, ROUNDDOWN, ROUNDUP, CEILING FLOOR, INT, MAX, MIN, MOD, SQRT. v) AVERAGE, ABS. vi) String Functions:- LEFT, RIGHT, MID, LEN, UPPER, LOWER, PROPER, TRIM. vii) Date functions: - TODAY, NOW, DATE, TIME, MONTH, YEAR, WEEKLY, DAYS360. viii) Logical functions - AND/OR	6
4	Data Analysis i) Sorting filter with customized conditions & subtotal. ii) The graphical representative of data	7

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	iii) Pivot table-building pivot tables, iv) Goal Seek/duplicate Data /	
5	Data Conversion i) Horizontal to Vertical using Paste Special ii) Comma Separated (CSV) etc. iii) Goal Seek/duplicate Data	4
6	Practice and Revision	4

### **Suggested Readings:**

- 1) A To Z of MS EXCEL : A book for learners and trainers Kindle edition by RinkooJainASIN: B08WPMFWXM
- 2) Excel 2019 All-in-one : Master the new features of Excel 2019/Office 365 paperback by Lokesh Lalwani Bpb publications
- 3) MICROSOFT EXCEL 2019: DATA ANALYSIS & BUSINESS MODEL Paperback by L. Winston Wayne (Author) Publisher: PHI Learning Pvt. Ltd. ISBN-10: 9389347181 ISBN-13: 978-9389347180

### **Course Outcomes:**

After completion of the course, learners would be able to:

**CO1:** Have an in-depth understanding of MS Excel.

**CO2:** Apply analytical excel skills and tools in business problem solving.

**CO3:** Organise data for effective analysis.

**CO4:** Help in identifying and forecasting trends.

**CO5:** Make graphical presentation that provides real insight for taking important decisions.

**CO6:** Equip themselves for better internship offers and self-employment

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## Enrolment List

S. No.	Roll No.	Name	Semester
1	1	Abhishek Pal	4 <sup>th</sup>
2	2	Ajay Kumar	4 <sup>th</sup>
3	3	Aman Kumar	4 <sup>th</sup>
4	4	Amit Kumar Yadav	4 <sup>th</sup>
5	5	Anjali Rawat	4 <sup>th</sup>
6	6	Anmol Fernandez	4 <sup>th</sup>
7	7	Arjun Dubey	4 <sup>th</sup>
8	8	Ashutosh Kumar	4 <sup>th</sup>
9	9	Bikku Kumar	4 <sup>th</sup>
10	10	Deepak Kumar Nishad	4 <sup>th</sup>
11	11	Deepak Kumar Saw	4 <sup>th</sup>
12	12	Faizan Ahmad Siddiqui	4 <sup>th</sup>
13	13	Gaurav Gautam	4 <sup>th</sup>
14	14	Hulesh Kumar Dewangan	4 <sup>th</sup>
15	15	Ishan Anand Francis	4 <sup>th</sup>
16	16	Jitendra Kumar Sivankar	4 <sup>th</sup>
17	17	Jozil Jacob	4 <sup>th</sup>
18	18	Kalinder	4 <sup>th</sup>
19	19	Kaushal Kumar	4 <sup>th</sup>
20	20	Md Adnan Khan	4 <sup>th</sup>
21	21	Mohammad Shoaib Ansari	4 <sup>th</sup>
22	22	Niraj Thakur	4 <sup>th</sup>
23	23	Premraj Sinha	4 <sup>th</sup>
24	24	Saket Kumar Yadav	4 <sup>th</sup>
25	25	Sameer	4 <sup>th</sup>
26	26	Shivdutt	4 <sup>th</sup>
27	27	Sumeet Prasad	4 <sup>th</sup>
28	28	Tanu Sen	4 <sup>th</sup>
29	29	Vipin Kumar	4 <sup>th</sup>
30	30	William Wadkar	4 <sup>th</sup>
31	31	Yashab Ranga	4 <sup>th</sup>
32	32	Ramchandra	4 <sup>th</sup>
33	1	Abhay Kumar Yadav	6 <sup>th</sup>

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<b>S. No.</b>	<b>Roll No.</b>	<b>Name</b>	<b>Semester</b>
34	2	Abhay Sen	6 <sup>th</sup>
35	3	Ajay Kumar Navrang	6 <sup>th</sup>
36	4	Brahmanand Jha	6 <sup>th</sup>
37	5	Deepesh Johnson Tirkey	6 <sup>th</sup>
38	6	Dilip Kumar	6 <sup>th</sup>
39	7	Gaurav Kumar Verma	6 <sup>th</sup>
40	8	Kajal Maurya	6 <sup>th</sup>
41	9	Krishna Kumar Jhariya	6 <sup>th</sup>
42	10	Kundan Singh Barman	6 <sup>th</sup>
43	11	Nelson Kujur	6 <sup>th</sup>
44	12	Nikhil Dewangan	6 <sup>th</sup>
45	13	Pawan Kumar Sahu	6 <sup>th</sup>
46	14	Preetam Tirkey	6 <sup>th</sup>
47	15	Rahul Soni	6 <sup>th</sup>
48	16	Rishikesh Yadav	6 <sup>th</sup>
49	17	Siddharth Sahu	6 <sup>th</sup>
50	18	Tamendra Singh Parmar	6 <sup>th</sup>

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## Attendance List



### Christian College of Engineering and Technology, Bhilai

#### Attendance List

S. No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Signature
1.	Abhishek Pal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	(P)
2.	Ajay Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Aj
3.	Aman Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Aman
4.	Amit Kumar Yadav	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amit
5.	Anjali Rawat	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anjali
6.	Arjun Dubey	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Arjun
7.	Ashutosh Kumar	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Ash
8.	Deepak Kumar Nishad	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Deepak
9.	Deepak Kumar Saw	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak
10.	Faizan Ahmad Siddiqui	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Faizan
11.	Gaurav Gautam	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	Gaurav
12.	Hulesh Kumar Dewangan	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Hulesh
13.	Ishan Anand Francis	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ishan
14.	Jitendra Kumar Sivankar	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Jitendra
15.	Kalinder	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kalinder
16.	Kaushal Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kaushal
17.	Md Adnan Khan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Md Adnan
18.	Mohammad Shoaib Ansari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shoaib
19.	Niraj Thakur	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Niraj
20.	Premraj Sinha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Premraj
21.	Saket Kumar Yadav	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Saket
22.	Sameer	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sameer
23.	Shivdutt	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shiv
24.	Sumeet Prasad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sumeet

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## Christian College of Engineering and Technology, Bhilai

S. No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Signature
25.	Tanu Sen	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	<i>Tanu</i>
26.	Vipin Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Vipin</i>
27.	William Wadkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>W.Wadkar</i>
28.	Yashab Ranga	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Yashab</i>
29.	Ramchandra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ram</i>
30.	Abhay Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Abhay</i>
31.	Abhay Sen	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Abhay</i>
32.	Ajay Kumar Navrang	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ajay</i>
33.	Brahmanand Jha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Brahmanand</i>
34.	Deepesh Johnson Tirkey	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Deepesh</i>
35.	Dilip Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Dilip</i>
36.	Gaurav Kumar Verma	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Gaurav</i>
37.	Kajal Maurya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Kajal</i>
38.	Krishna Kumar Jhariya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Krishna</i>
39.	Kundan Singh Barman	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Kundan</i>
40.	Nelson Kujur	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nelson</i>
41.	Nikhil Dewangan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Nikhil</i>
42.	Pawan Kumar Sahu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Pawan</i>
43.	Preetam Tirkey	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	<i>Preetam</i>
44.	Rahul Soni	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rahul</i>
45.	Rishikesh	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	<i>Rishikesh</i>

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## Certificate Programs



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## Report On a Certificate Course on “Advanced Excel”

A Certificate Course on “**Advanced Excel**” for 30 hours was arranged for the students of B.Tech 3<sup>rd</sup> & 2<sup>nd</sup> year of Mechanical Engineering from **09/01/2019 to 30/01/2019** at **Room no. B109/A**. A total of 48 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Amit Sarda, Associate Professor, CCET Bhilai. The main objective of the course was to provide a clear understanding of the MS Excel program that allows the users to perform from a simple specific calculation to work-related analytics to support decision making and to more complex dashboards and big data analytics.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used in Excel.

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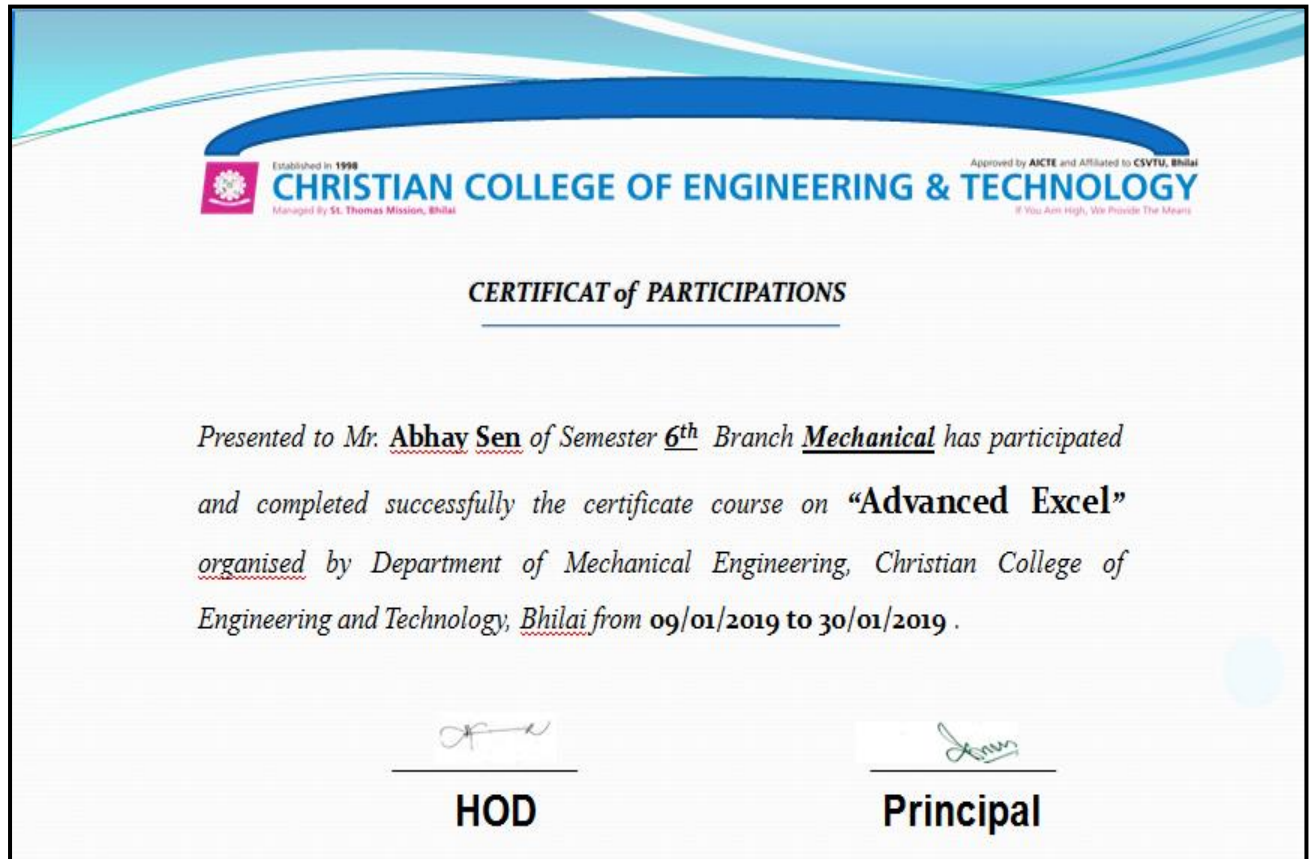
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## Sample of Certificate for Feedback Session

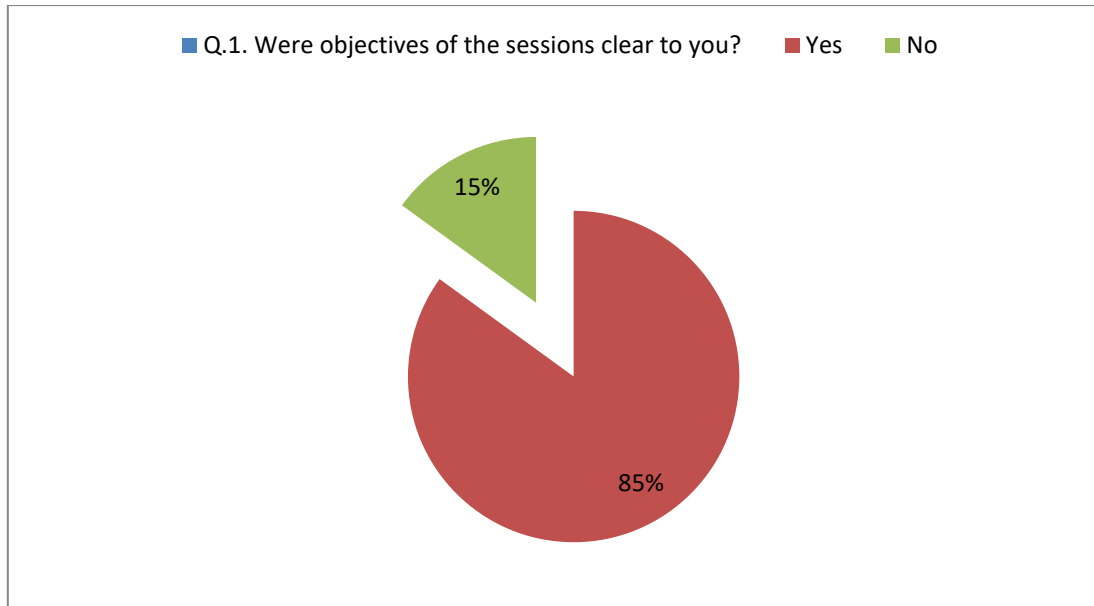


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**Certificate Programs**



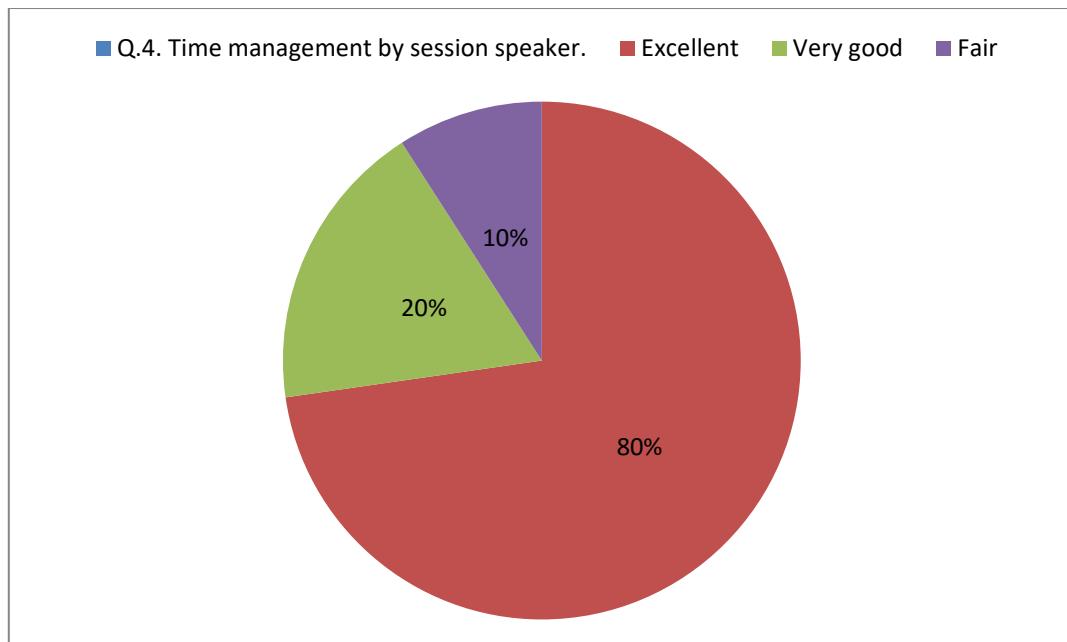
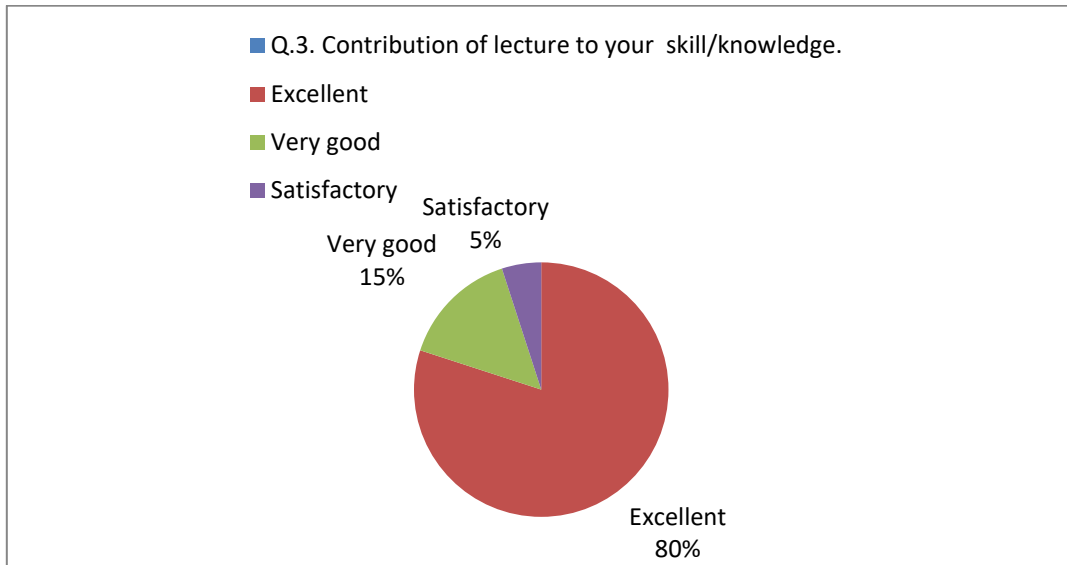
## Feedback (Online):



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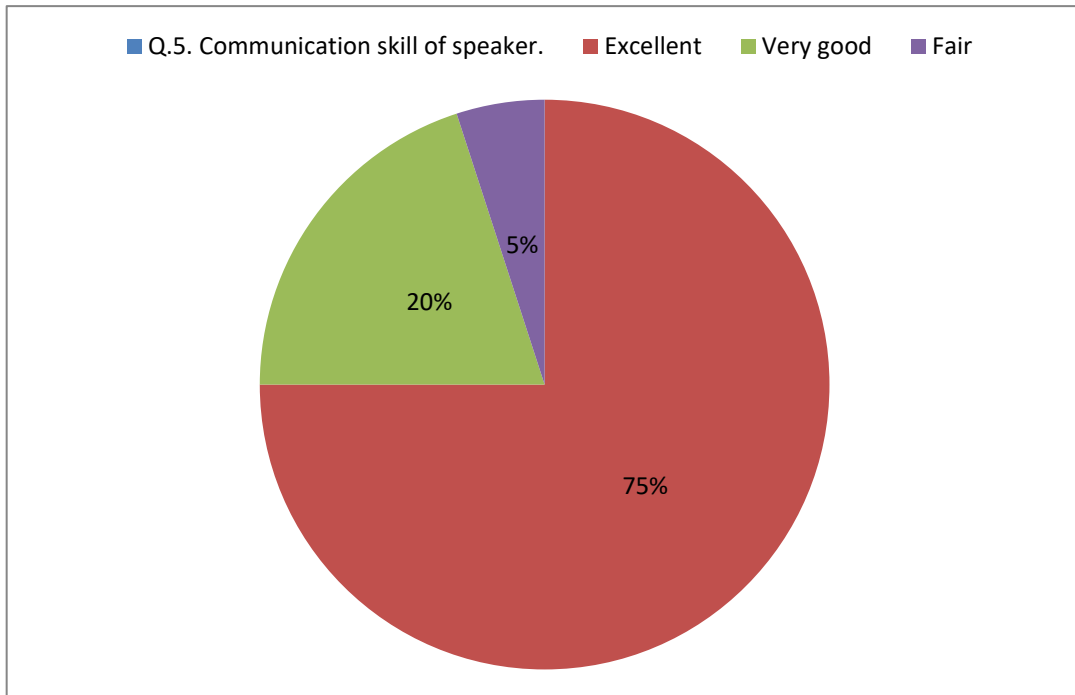
**Certificate Programs**





## Criterion 1

### Certificate Programs



## Criterion 1

### Certificate Programs



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**A**  
**Certificate Course**  
**On**  
**Optimization Techniques**  
**for Design of Product and**  
**Manufacturing**

**Report**

**Venue: CCET, Bhilai**

**Date: 04/09/2019 to 25/09/2019**

**Name of Resource Person: Dr. Srinivasa Rao Pulivarti**

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## **NOTICE**

Date: 29/08/2019

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 30/08/2019, Time: 3:00 p.m.  
Venue: HOD Cabin.

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. **Principal**
2. **All Faculty members**
3. **IQAC Coordinator**

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 30/08/2019, Time: 03:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. It has been decided that a Certificate Course on Optimization Techniques for Design of Product and Manufacturing will be conducted from 04/09/2019 to 25/09/2019 for 30 hours.
2. Students of BTech 4<sup>th</sup> year and MTech 1<sup>st</sup> year studying in Mechanical Engineering are eligible to attend the course.
3. The title of the course will be Optimization Techniques for Design of Product and Manufacturing
4. Dr. Srinivasa Rao Pulivarti, Associate Professor, Dept. of Mech. Engg. CCET, Bhilai will be conducting the classes.
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day after regular classes
7. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

- 1. Principal**
- 2. All Faculty members**
- 3. IQAC Coordinator**

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## Circular

**Date: 02/09/2019**

All the students of BE 4<sup>th</sup> year of Mechanical Engineering and MTech 1<sup>st</sup> year of CAD-CAM Robotics are hereby informed that we are planning to conduct a certificate course on **Optimization Techniques for Design of Product and Manufacturing** for 2 hours per day from **04/09/2019 to 25/09/2019** for total **32 hours**. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by **04.09.2019**

HOD

Department of Mechanical Engineering

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## Course Objective:

Multi objective optimization methods may be applied to get the best possible solution of a well-defined problem. Optimization methods are used in many areas of study to find solutions that maximize or minimize some study parameters, such as minimize costs in the production of a good or service, maximize profits, minimize raw material in the development of a good, or maximize production. In particular, they will be described to be used to maximize thermal energy use meanwhile the production cost will be minimized. Hence optimization plays a vital role in almost every sector.

This certificate course has been designed to provide engineering students a view of optimization as a tool for engineering decision making. Students will be given a fundamental introduction to the optimization techniques and an opportunity to learn how to model product design and manufacturing problems and solve them using computer-based (numerical) optimization techniques. Students will be encouraged to relate the course material to their research.

## Detail of Resource Persons:

Dr. SrinivasaRaoPulivarti Associate Professor, Mechanical Engineering  
Department

## Target Audience:

- Engineering Students of BTech 4<sup>th</sup> year (Mechanical Engineering)
- Engineering Students of MTech 1<sup>st</sup> year (CAD-CAM Robotics)

## Course Topics:

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- ✚ Introduction to engineering optimization
- ✚ Formulation of optimization models
- ✚ Linear models and solution techniques
- ✚ Unconstrained nonlinear models and solution algorithms
- ✚ Constrained nonlinear optimization
- ✚ Discrete and mixed integer models and techniques
- ✚ Shape and topology optimization
- ✚ Computer experiments and met modeling
- ✚ Optimization under uncertainty
- ✚ Multi objective & Multidisciplinary optimization

### **Course Outcomes:**

- a. Ability to understand and analyze managerial problems in industry so that they are able to use resources (capitals, materials, staffing, and machines) more effectively.
- b. Knowledge of formulating mathematical models for quantitative analysis of managerial problems in industry.
- c. Skills in the use of Operations Research approaches and computer tools in solving real problems in industry.

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## Enrolment List

S. No.	Roll No.	Name	Semester
1	1	Achsae Grace Samuel	7 <sup>th</sup>
2	2	Akash Gedam	7 <sup>th</sup>
3	3	Aman Rana	7 <sup>th</sup>
4	4	Amir Hassan Ansari	7 <sup>th</sup>
5	5	Amit Kumar Umarvaishya	7 <sup>th</sup>
6	6	Amit Kushwaha	7 <sup>th</sup>
7	7	Anurag Ekka	7 <sup>th</sup>
8	8	Ashish Kumar Dewangan	7 <sup>th</sup>
9	9	Chandan Paswan	7 <sup>th</sup>
10	10	Deepak Kumar Singh	7 <sup>th</sup>
11	11	Denis Pratik Toppo	7 <sup>th</sup>
12	12	Jaspreet Akaur Randhawa	7 <sup>th</sup>
13	13	Malvant Singh	7 <sup>th</sup>
14	14	Mani Alfred Sahu	7 <sup>th</sup>
15	15	Nishant Philip	7 <sup>th</sup>
16	16	Piyush Kumar	7 <sup>th</sup>
17	17	Prashant Pandey	7 <sup>th</sup>
18	18	Raj Kumar Sen	7 <sup>th</sup>
19	19	Samuel Moses	7 <sup>th</sup>
20	20	Sanju Manna	7 <sup>th</sup>
21	21	Sd.Mustakim Hashmi	7 <sup>th</sup>
22	22	Shine Abraham John	7 <sup>th</sup>
23	23	Shubham Sao	7 <sup>th</sup>
24	24	Shubham Yadav	7 <sup>th</sup>
25	25	Vikas Kumar Mourya	7 <sup>th</sup>
26	26	Vikas Sharma	7 <sup>th</sup>
27	27	Vinay Kumar Patel	7 <sup>th</sup>
28	28	Vinith Yacob	7 <sup>th</sup>
29	01	Jay Shankar Prasad	MTech 1 <sup>st</sup>
30	02	Sandeep Gupta	MTech 1 <sup>st</sup>

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## Attendance List

**Christian College of Engineering and Technology, Bhilai**

**Attendance List**

S. No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Day16	Signature
1	Achsae Grace Samuel	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Agg
2	Akash Gedam	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Akash
3	Aman Rana	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Aman
4	Amir Hassan Ansari	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Amir
5	Amit Kumar Umarvaishya	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	Amit
6	Amit Kushwaha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amit
7	Anurag Ekka	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anurag
8	Ashish Kumar Dewangan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ashish
9	Chandan Paswan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chandan
10	Deepak Kumar Singh	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Deepak
11	Denis Pratik Toppo	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Denis
12	Jaspreet Akaur Randhawa	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Jaspreet
13	Malvant Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Malvant
14	Mani Alfred Sahu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Mani
15	Nishant Philip	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Nishant
16	Piyush Kumar	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Piyush
17	Prashant Pandey	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Prashant
18	Raj Kumar Sen	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Raj
19	Samuel Moses	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Samuel
20	Sanju Manna	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sanju
21	Sd.Mustakim Hashmi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sd.Mustakim
22	Shine Abraham	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shine

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### Christian College of Engineering and Technology, Bhilai

*Gadh.*

S. No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Day16	Signature
	John																	
23	Shubham Sao	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
24	Shubham Yadav	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
25	Vikas Kumar Mourya	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
26	Vikas Sharma	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
27	Vinay Kumar Patel	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	<i>[Signature]</i>
28	Vinith Yacob	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
29	Jay Shankar Prasad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
30	Sandeep Gupta	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>

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## Report On a Certificate Course

A Certificate Course on “**Optimization Techniques for Design of Product and Manufacturing**” for 30 hours was arranged for the students of BTech 4<sup>th</sup> year of Mechanical Engineering and MTech 1<sup>st</sup> year of CAD-CAM Robotics from **04/09/2019 to 25/09/2019** at room no B-105. A total of 30 students enrolled themselves for the course and participated in the program. The sessions were conducted by Dr. SriivasaRaoPulivarti, Associate Professor, CCET Bhilai. The purpose of Optimization is to achieve the Best solution for any given problem. In simple words optimization can be used in manufacturing plants to figure out how to best run their machinery, to buy raw materials, and also airlines and other passenger transportation services use optimization to determine their schedules.

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## Sample of Certificate for Feedback Session

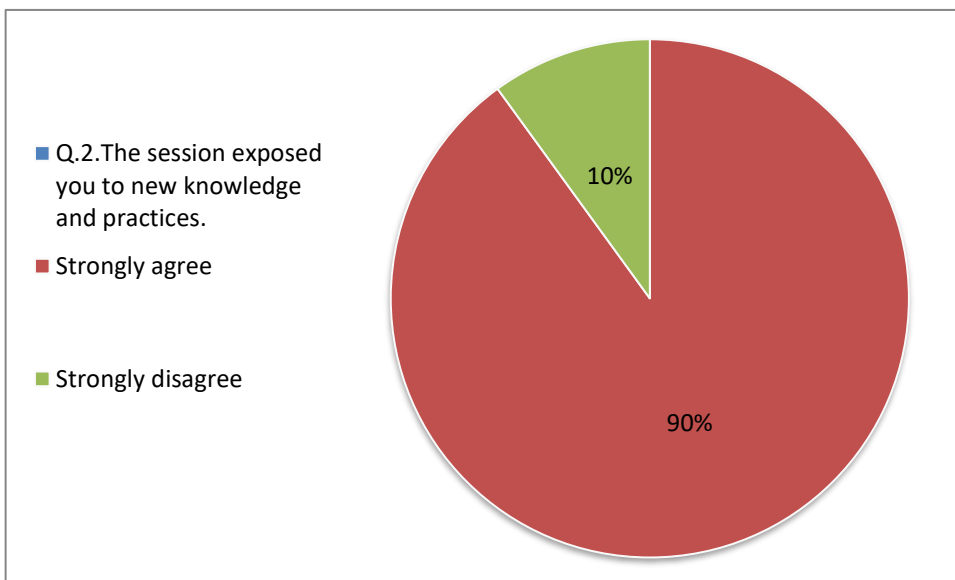
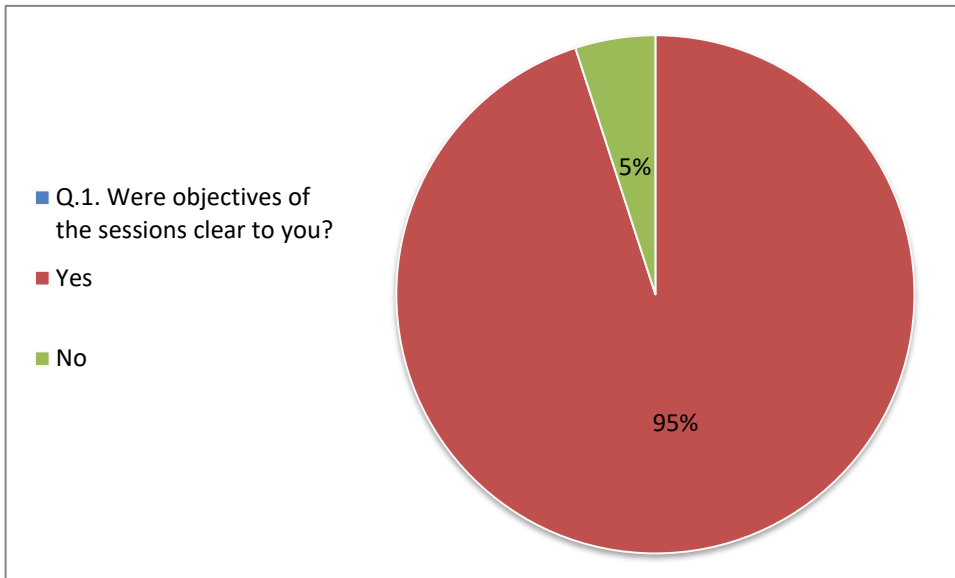


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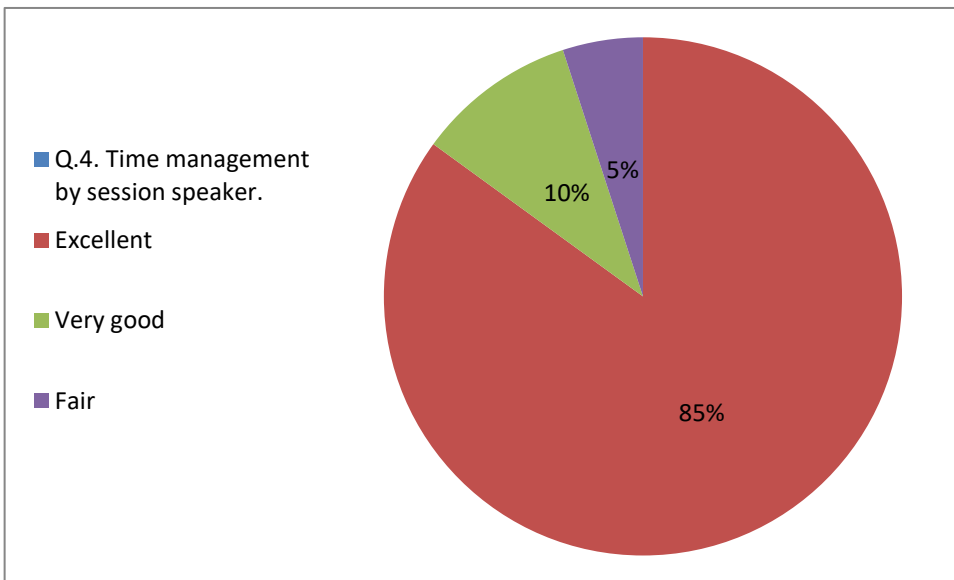
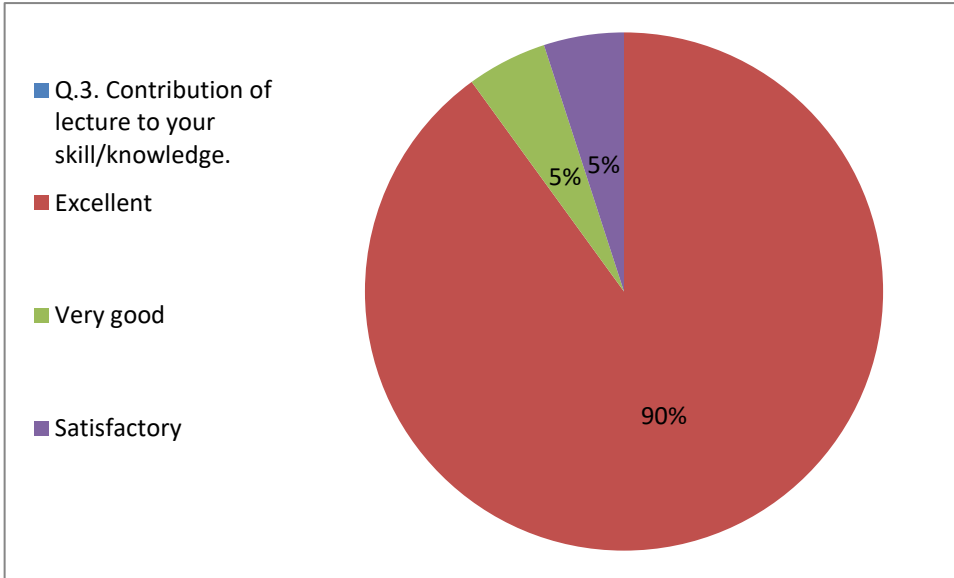


## Feedback (Online)



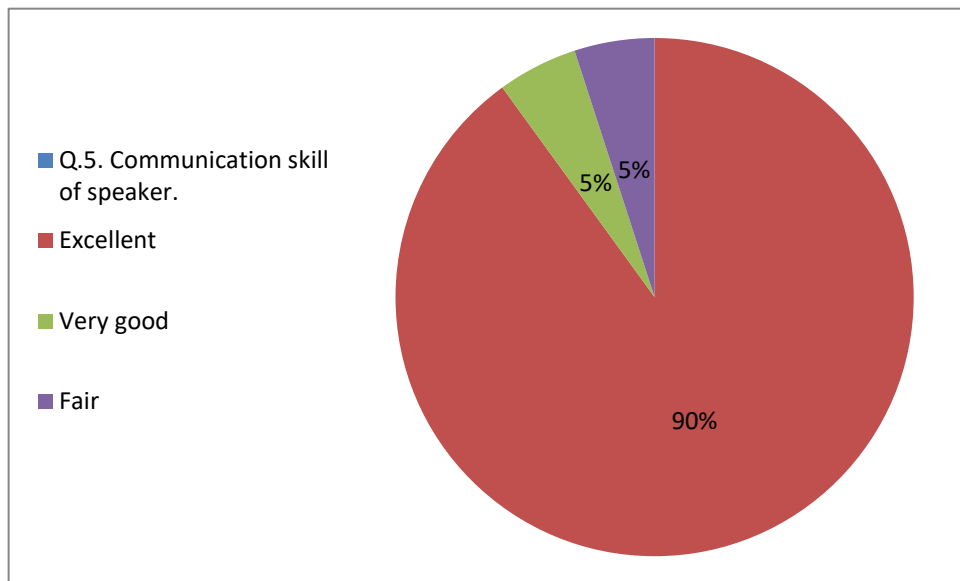
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## Certificate Programs



## Criterion 1

## Certificate Programs



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**A**

**Certificate Course**

**On**

**Overview of Green**

**Composites**

**Report**

**Venue: CCET, Bhilai**

**Date: 08/01/2020 to 29/01/2020**

**Name of Resource Person: Dr. Srinivasa Rao Pulivarti**

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## **NOTICE**

Date: 02/01/2020

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 03/01/2020, Time: 1:00 p.m.  
Venue: HOD Cabin.

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 03/01/2020, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

8. It has been decided that a Certificate Course on **Overview of green composite** will be conducted from 08/01/2020 to 29/01/2020 for 30 hours.
9. Students of BTech 2<sup>nd</sup> & 3<sup>rd</sup> year studying in Mechanical Engineering are eligible to attend the course.
10. The title of the course will be **Overview of green composite**.
11. Dr. Srinivasa Rao Pulivarti, Associate Professor, Dept. of Mech. Engg. CCET, Bhilai will be conducting the classes.
12. The course conducted will be free of cost
13. The course will be conducted for 2 hours every day after regular classes
14. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members

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### 3. IQAC Coordinator

## Circular

**Date: 06.01.2020**

All the students of B.Tech 2<sup>nd</sup> & 3<sup>rd</sup> year of Mechanical Engineering are hereby informed that we are planning to conduct a certificate course on **Overview of Green Composites** for 2 hours per day from 08/01/2020 to 29/01/2020 for total 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by 08.01.2020

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## **Course Objective:**

Development of green composite from natural fibers has gained increasing interests due to the environmental and sustainable benefits when compared with petroleum based non-degradable materials. However, a big challenge of green composites is the diversity of fiber sources, because of the large variation in the properties and characteristics of the lignocellulosic renewable resource. The lignocellulosic fibers/ natural fibers used to reinforce green composites are reviewed in this chapter. A classification of fiber types and sources, the properties of various natural fibres, including structure, composition, physical and chemical properties are focused; followed by the impacts of natural fibers on composite properties, with identification of the main pathways from the natural fibers to the green composite. Furthermore, the main challenges and future trend of natural fibers are highlighted. ;

## **Detail of Resource Persons:**

Dr. Srinivasa Rao Pulivarti, Associate Professor, Mechanical Engineering Department

## **Target Audience:**

➤ Engineering Students of BTech 2<sup>nd</sup> & 3<sup>rd</sup> year (Mechanical Engineering)

## **Course Content:**

1. Natural Fibers for the Production of Green Composites
2. Processing Technologies for Green Composites Production
3. Concurrent Design of Green Composites
4. Effect of Bamboo Hybridization and Staking Sequence on Mechanical Behavior of Bamboo-Glass Hybrid Composite
5. Estimation of Mechanical and Tribological Properties of Epoxy-Based Green Composites

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6. Fabrication and Processing of Pineapple Leaf Fiber Reinforced Composites
7. Green Composites and Their Properties: A Brief Introduction
8. Rice Husk Reinforcement in Polymer Composites
9. Techno-Economic and Life Cycle Assessment for the Production of Green Composites
10. Banana Fiber Reinforcement and Application in Composites: A Review
11. Bamboo Fiber-Reinforced Composites
12. Coir Fiber-Reinforced Composites

### **Outcomes:**

1. Acquire knowledge and hands-on competence in applying the knowledge of green composite materials or natural composite in the design and development of mechanical systems.
2. Demonstrate creativeness in designing new systems components in the field of engineering.
3. Work effectively with engineering and science teams as well as with multidisciplinary designs.

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## Enrolment List

S. No.	Roll No.	Name	Semester
1	1	Deepak Kumar	4 <sup>th</sup>
2	2	Himanshu Tamrakar	4 <sup>th</sup>
3	3	Rahul Kumar Bramhankar	4 <sup>th</sup>
4	4	Robins Jacob John	4 <sup>th</sup>
5	5	Roshan Roy	4 <sup>th</sup>
6	6	Sahil Hussain	4 <sup>th</sup>
7	7	Seeyon Kumar	4 <sup>th</sup>
8	8	Sharon Suryavanshi	4 <sup>th</sup>
9	9	Shivnath Gota	4 <sup>th</sup>
10	10	Shreyansh Lal	4 <sup>th</sup>
11	11	Akhil Anu Abraham	4 <sup>th</sup>
12	1	Abhishek Pal	6 <sup>th</sup>
13	2	Ajay Kumar	6 <sup>th</sup>
14	3	Aman Kumar	6 <sup>th</sup>
15	4	Amit Kumar Yadav	6 <sup>th</sup>
16	5	Anjali Rawat	6 <sup>th</sup>
17	6	Anmol Fernandez	6 <sup>th</sup>
18	7	Arjun Dubey	6 <sup>th</sup>
19	8	Ashutosh Kumar	6 <sup>th</sup>
20	9	Bikku Kumar	6 <sup>th</sup>
21	10	Deepak Kumar Nishad	6 <sup>th</sup>
22	11	Deepak Kumar Saw	6 <sup>th</sup>
23	12	Faizan Ahmad Siddiqui	6 <sup>th</sup>
24	13	Gaurav Gautam	6 <sup>th</sup>
25	14	Hulesh Kumar Dewangan	6 <sup>th</sup>
26	15	Ishan Anand Francis	6 <sup>th</sup>
27	16	Jitendra Kumar Sivankar	6 <sup>th</sup>
28	17	Jozil Jacob	6 <sup>th</sup>
29	18	Kaushal Kumar	6 <sup>th</sup>
30	19	Md Adnan Khan	6 <sup>th</sup>
31	20	Mohammad Shoaib Ansari	6 <sup>th</sup>
32	21	Niraj Thakur	6 <sup>th</sup>
33	22	Premraj Sinha	6 <sup>th</sup>
34	23	Saket Kumar Yadav	6 <sup>th</sup>
35	24	Sameer	6 <sup>th</sup>
36	25	Shivdutt	6 <sup>th</sup>

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<b>S. No.</b>	<b>Roll No.</b>	<b>Name</b>	<b>Semester</b>
37	26	Sumeet Prasad	6 <sup>th</sup>
38	27	Tanu Sen	6 <sup>th</sup>
39	28	Vipin Kumar	6 <sup>th</sup>
40	29	William Wadkar	6 <sup>th</sup>
41	30	Yashab Ranga	6 <sup>th</sup>
42	31	Ramchandra	6 <sup>th</sup>

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## Attendance List



### Christian College of Engineering and Technology, Bhilai

#### Attendance List

S. No	Name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Signature	
1	Deepak Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Deepak</i>
2	Himanshu Tamrakar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Him</i>
3	Rahul Kumar Bramhankar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rahul</i>
4	Robins Jacob John	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rj</i>
5	Roshan Roy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Roy</i>
6	Sahil Hussain	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Sahil</i>
7	Seeyon Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Seeyon</i>
8	Sharon Suryavanshi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Sharon</i>
9	Shivnath Gota	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Shivnath</i>
10	Shreyansh Lal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Shreyansh</i>
11	Akhil Anu Abraham	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Akhil</i>
12	Abhishek Pal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Abhishek</i>
13	Ajay Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ajay</i>
14	Aman Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Aman</i>
15	Amit Kumar Yadav	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Amit</i>
16	Anjali Rawat	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Anjali</i>
17	Anmol Fernandez	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Anmol</i>
18	Arjun Dubey	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Arjun</i>
19	Ashutosh Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ashutosh</i>
20	Bikku Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Bikku</i>
21	Deepak Kumar Nishad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Deepak</i>
22	Deepak Kumar Saw	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Deepak</i>

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Technology, Bhilai**

S. No	Name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Signature
23	Faizan Ahmad Siddiqui	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Faizan
24	Gaurav Gautam	P	P	P	P	P	P	P	P	P	P	P	H	P	P	P	P	Jitendra
25	Hulesh Kumar	P	P	P	H	P	P	P	P	P	P	P	P	P	P	P	P	studied
26	Ishan Anand Francis	P	P	P	P	P	P	P	P	P	P	P	P	P	P	H	P	IAF
27	Jitendra Kumar Sivankar	P	P	P	P	P	P	H	P	P	P	P	P	P	P	P	P	Jitendra
28	Jozil Jacob	P	P	P	P	P	P	P	P	P	P	H	P	P	P	P	P	Jacob
29	Kaushal Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kaushal
30	Md Adnan Khan	P	P	P	H	P	P	P	P	P	P	P	P	P	P	P	P	MA
31	Mohammad Shoab Ansari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	MSA
32	Niraj Thakur	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Niraj
33	Premraj Sinha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	PS
34	Saket Kumar Yadav	P	P	P	P	P	H	P	P	P	P	P	P	P	P	P	P	Saket
35	Sameer	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sameer
36	Shivdutt	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shiv
37	Sumeet Prasad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sumeet
38	Tanu Sen	P	P	P	P	P	H	P	P	P	P	P	P	P	P	P	P	Tanu
39	Vipin Kumar	P	P	P	P	P	P	P	P	P	P	P	H	P	P	P	P	Vipin
40	William	P	P	P	P	P	P	P	P	P	H	P	P	P	P	P	P	William

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## **Report On a Certificate Course**

A Certificate Course on “**Overview of Green Composites**” for 32 hours was arranged for the students of BTech 4<sup>th</sup> year of Mechanical Engineering and MTech 1<sup>st</sup>& 2<sup>nd</sup> year of CAD-CAM Robotics from 08/01/2020 to 29/01/2020 at Room no B-103. A total of 42 students enrolled themselves for the course and 40 Students participated in the program. The sessions were conducted by Dr.Sriivasa Rao Pulivarti, Associate Professor, CCET Bhilai. The purpose of this study is to make students to be aware about green composites. They are used to eliminate the traditional materials such as steel and wood with biodegradable polymer composites.

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## Sample of Certificate for Feedback Session



### Christian College of Engineering and Technology, Bhilai

#### **CERTIFICATE of PARTICIPATIONS**

Presented to Mr. Shreyansh Lal of Semester 4<sup>th</sup> Branch Mechanical has participated and completed successfully the certificate course on “**Overview of green composite**” organized by Department of Mechanical Engineering, Christian College of Engineering and Technology, Bhilai from 08/01/2020 to 29/01/2020

HOD

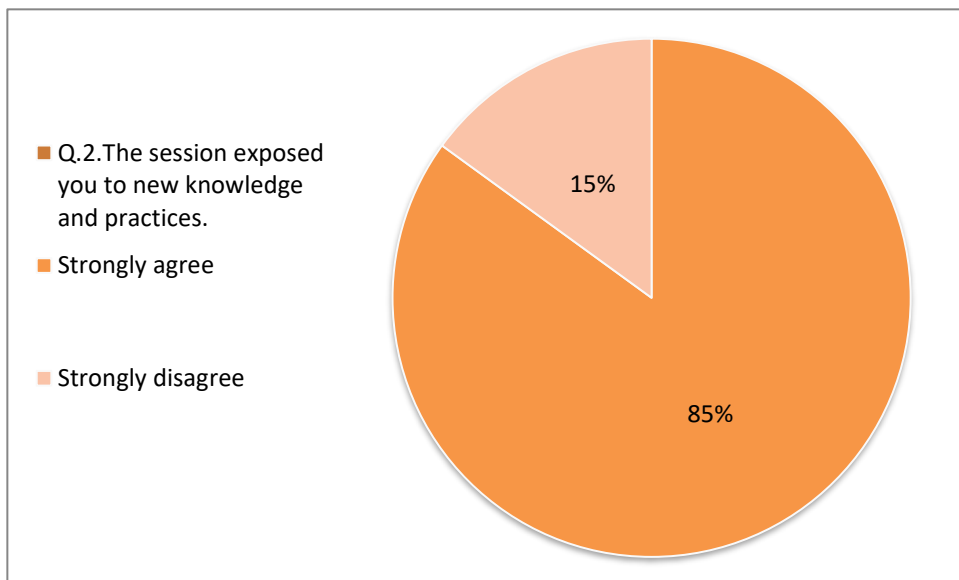
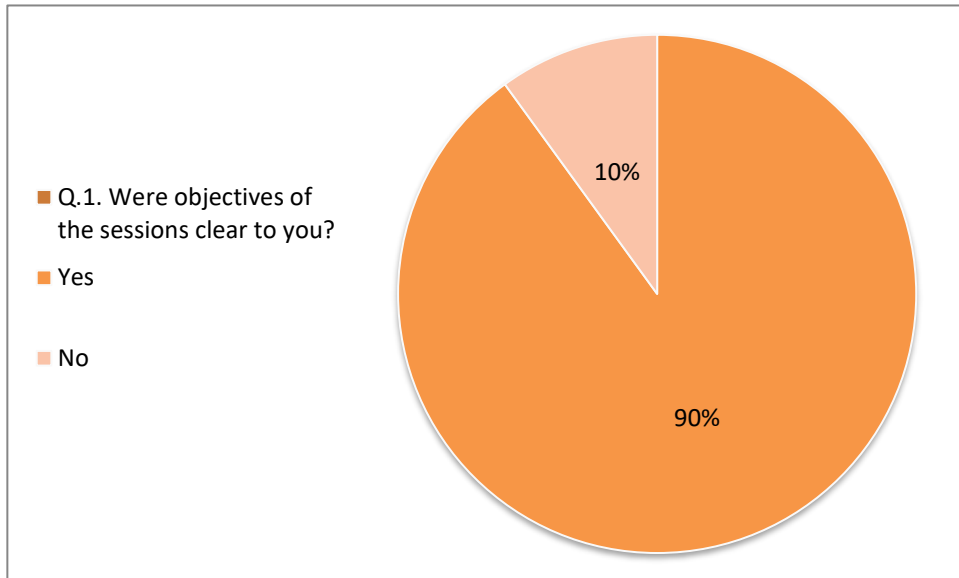
Principal

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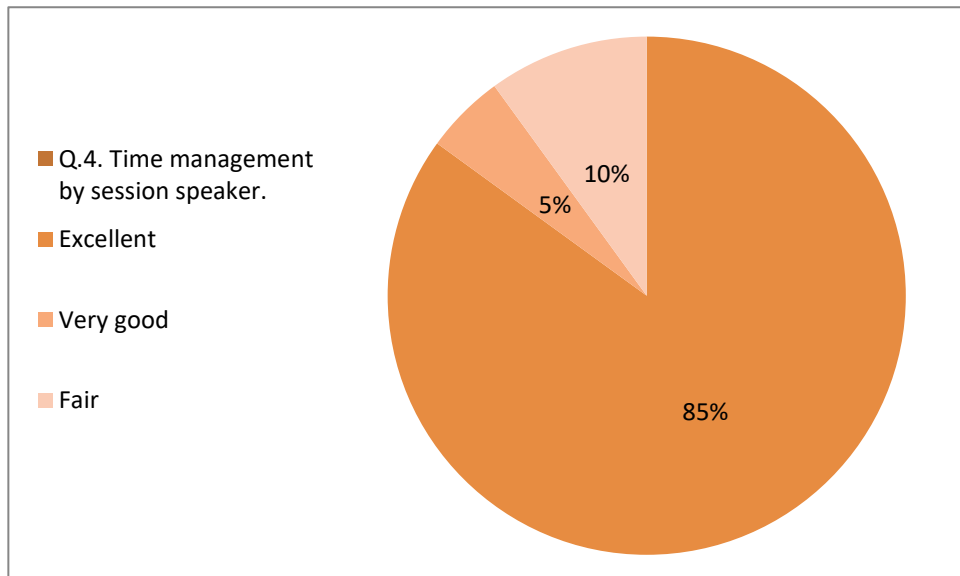
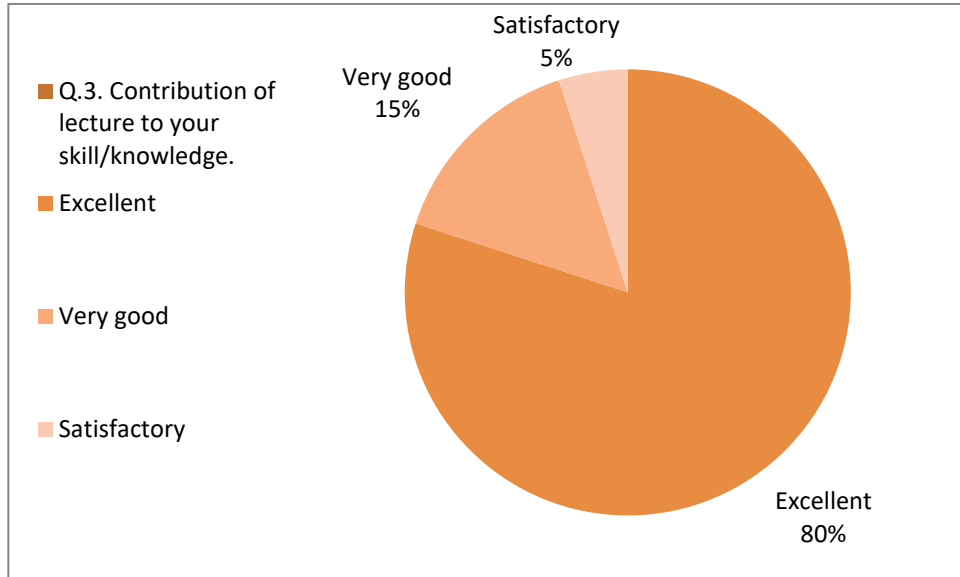


## Feedback (Online)



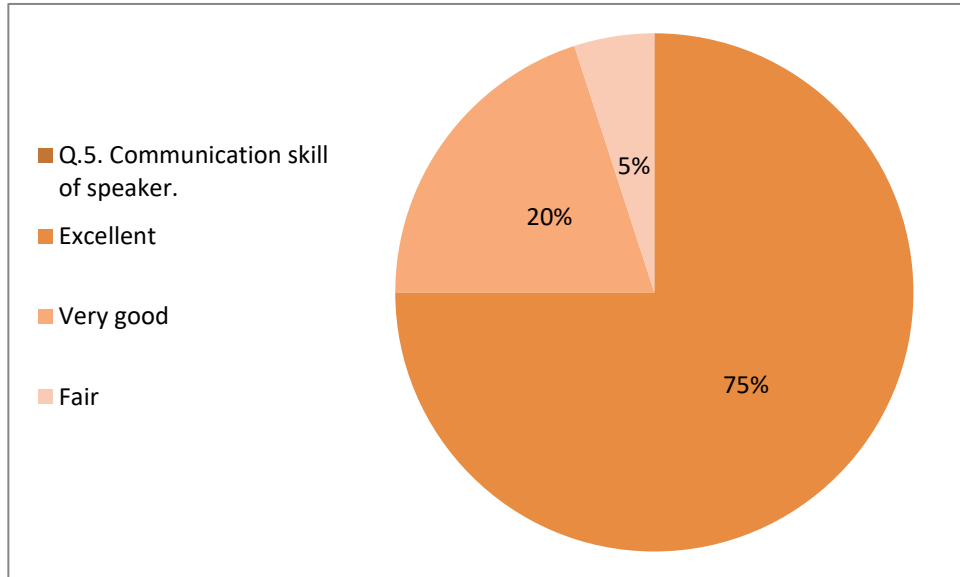
## Criterion 1

## Certificate Programs



## Criterion 1

## Certificate Programs



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**A**

**Certificate Course**

**On**

**LaTeX for Engineering  
Students**

**Report**

**Venue: Online Mode (Google meet)**

**Date: 02/09/2020 to 23/09/2020**

**Name of Resource Person: Dr. Radheshyam H.  
Gajghat**

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## **NOTICE**

Date: 26/08/2020

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 28/08/2020, Time: 1 1:00 a.m. Venue: Online Mode (Google meet)

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 28/08/2020, Time: 11:00 p.m. Venue: Online Mode (Google meet)

Discussion on following points has been done.

1. It has been decided that a Certificate Course on **Latex for Engineering Students** will be conducted from 02/09/2020 to 23/09/2020 for 30 hours.
2. Students of **B.Tech 4<sup>th</sup> year and M.Tech 1<sup>st</sup> year** studying in Mechanical Engineering are eligible to attend the course.
3. The title of the course will be **Latex for Engineering Students**.
4. Mr. Dr. Radheshyam H. Gajghat, Associate Professor, Dept. of Mech. Engg., CCET, Bhilai will be conducting the classes through Google Meet(Online mode).
5. The course conducted will be free of cost.
6. The course will be conducted for 2 hours every day after regular classes.
7. Venue: Online Mode (Google meet).

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. **Principal**
2. **All Faculty members**
3. **IQAC Coordinator**

**Criterion 1**

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## Circular

**Date: 31/08/2020**

All the students of BTech 4<sup>th</sup> year of Mechanical Engineering and MTech 1<sup>st</sup> & 2<sup>nd</sup> year of CAD-CAM Robotics are hereby informed that we are planning to conduct a certificate course on **Latex for Engineering Students** in Online mode for 2 hours per day from **02/09/2020 to 23/09/2020** for total 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by 01/09/2020.

HOD

Department of Mechanical Engineering

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## Course Objective:

Competence in technical writing holds great importance in the present era. Technical writing deals with specific knowledge, generally in the sphere of science and technology, and may be used in a wide variety of media: journal papers, thesis, project proposals, and other technical documents. LaTeX is a document typesetting system that is used to produce high quality scientific documents, like articles, books, dissertations, technical reports, etc. Expertise in drafting technical documents is an indispensable skill for all professionals for it helps them to share their knowledge of technical subjects effectively in all domains of society and thus makes them competent in their professional careers.

This certificate course has been designed to provide a clear understanding of the basics of technical writing which will enable the participants to communicate their ideas effectively in the form of technical reports, journal papers etc. by using the technical writing tool LaTeX. It will include sessions on topics like innovative methods for enhancing one's technical writing skills, use of technical terminology for information transfer, satisfying document specifications like style and format, page layout and organizational structure, and principles of accuracy and clarity.

**Detail of Resource Person:** Mr. Radheshyam H. Gajghat, Associate Professor, Dept. of Mech. Engg., CCET, Bhilai

## Target Audience:

- Engineering Students of B.Tech 4<sup>th</sup> year (Mechanical Engineering)
- Engineering Students of M.Tech 1<sup>st</sup> year (CAD-CAM Robotics)

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## **Course Syllabus:**

- Typesetting journal articles, technical reports, books, and slide presentations.
- Automatic generation of bibliographies and indexes
- Formatting documents containing sectioning, cross-references, tables, equations and figures.
- Writing effectively and clearly for academic purposes.
- Ideas to energize technical writing (Research project proposal, journal and conference articles.
- Practicing hands-on exercises and examples.

## **Course Outcomes:**

On successful completion of the course, the participant will be able to:

- Produce high quality scientific documents, like articles, books, dissertations, technical reports, etc.
- Share their knowledge of technical subjects effectively in all domains of society and thus makes them competent in their professional careers.
- Communicate their ideas effectively in the form of technical reports, journal papers etc. by using the technical writing tool LaTeX.
- Enhance their technical writing skills, use of technical terminology for information transfer, satisfying document specifications like style and format, page layout and organizational structure, and principles of accuracy and clarity.

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## Enrolment List

<b>S. No.</b>	<b>Roll No.</b>	<b>Name</b>	<b>Semester</b>
1	1	Abhay Kumar Yadav	7th
2	2	Abhay Sen	7th
3	3	Ajay Kumar Navrang	7th
4	4	Brahmanand Jha	7th
5	5	Deepesh Johnson Tirkey	7th
6	6	Dilip Kumar	7th
7	7	Gaurav Kumar Verma	7th
8	8	Kajal Maurya	7th
9	9	Krishna Kumar Jhariya	7th
10	10	Kundan Singh Barman	7th
11	11	Nelson Kujur	7th
12	12	Nikhil Dewangan	7th
13	13	Pawan Kumar Sahu	7th
14	14	Preetam Tirkey	7th
15	15	Rahul Soni	7th
16	16	Rishikesh Yadav	7th
17	17	Siddharth Sahu	7th
18	18	Tamendra Singh Parmar	7th
19	1	Jay Shankar Prasad	M.Tech 1 <sup>st</sup>
20	2	Sandeep Gupta	M.Tech 1 <sup>st</sup>

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## **Report On a Certificate Course on “LaTeX for Engineering Students”**

A Certificate Course on “**LaTeX for Engineering Students**” for 30 hours was arranged for the students of BTech 4<sup>th</sup> year of Mechanical Engineering and MTech 1<sup>st</sup> & 2<sup>nd</sup> year of CAD-CAM Robotics from **02/09/2020 to 23/09/2020 at in online mode. A total of 20 students enrolled themselves for the course and participated** in the program. The sessions were conducted by Dr. Radheshyam H. Gajghat, Associate Professor, CCET Bhilai. The main objective of the course was to provide a clear understanding of the basics of technical writing which will enable the participants to communicate their ideas effectively in the form of technical reports, journal papers etc. by using the technical writing tool LaTeX.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to write technical papers by using LaTeX.

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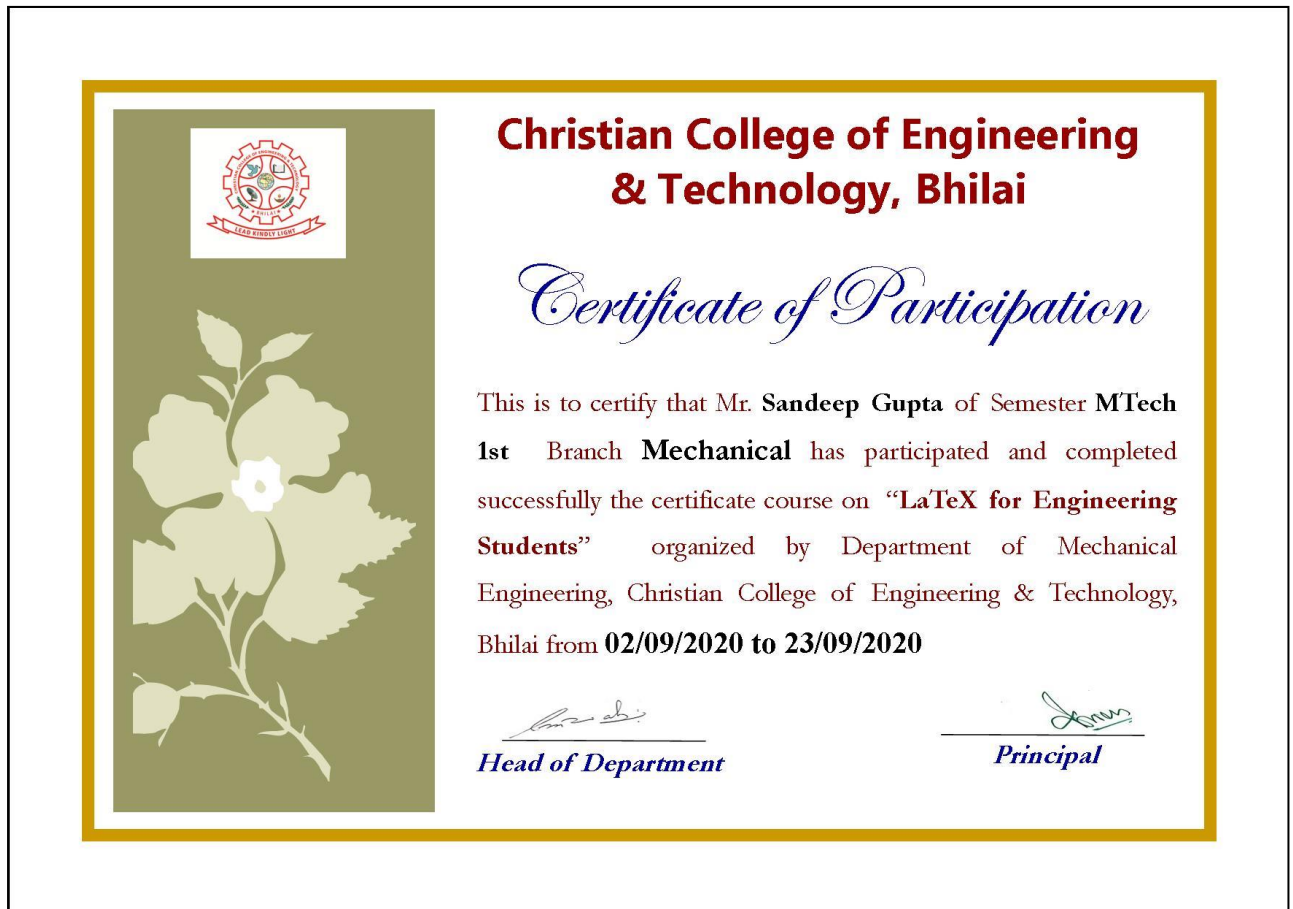
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## Sample of Certificate for Feedback Session



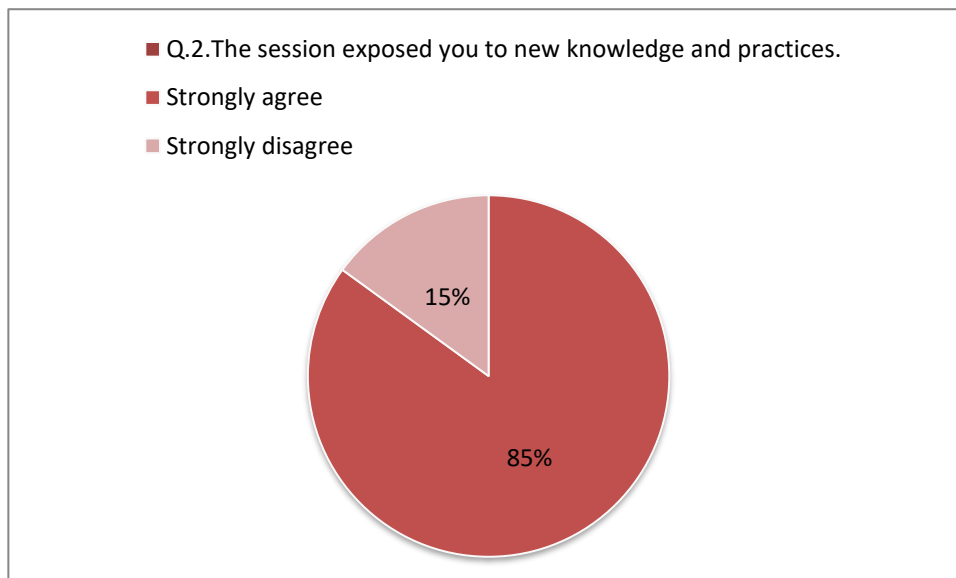
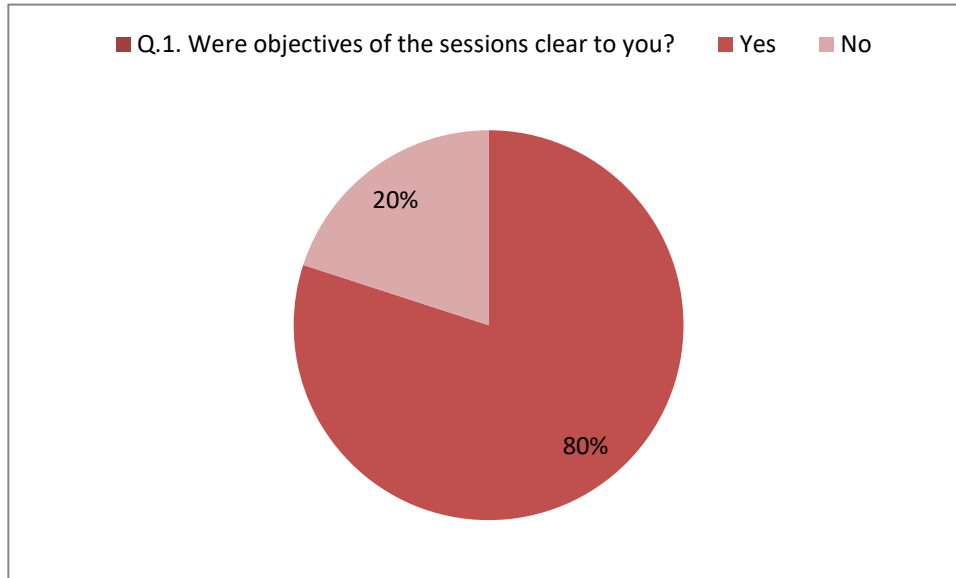
**Criterion 1**

**Certificate Programs**



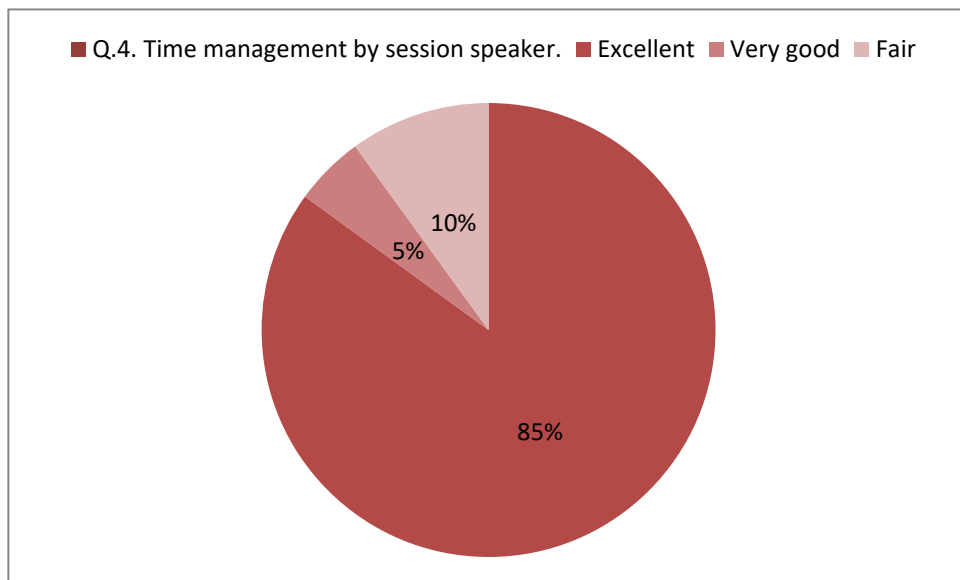
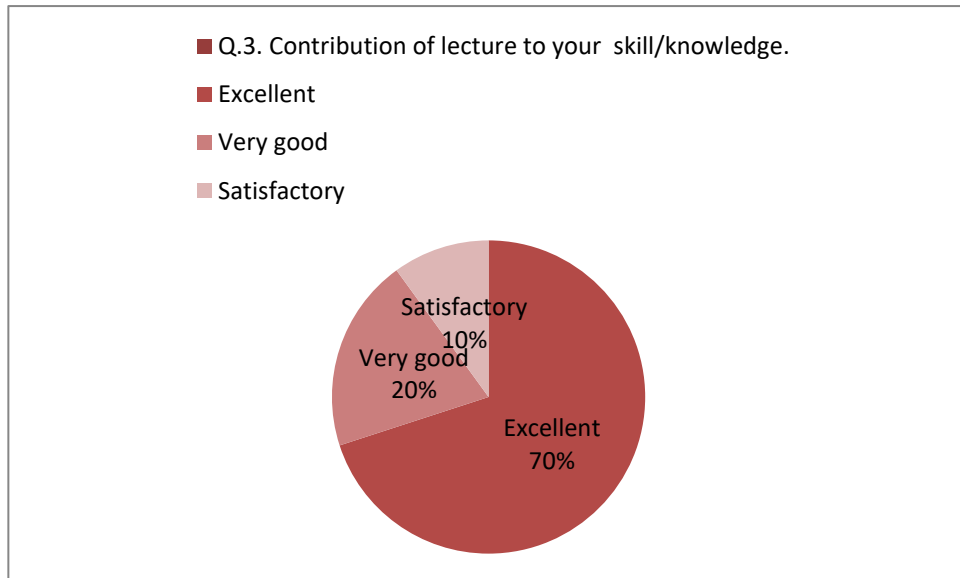


## Feedback (online)



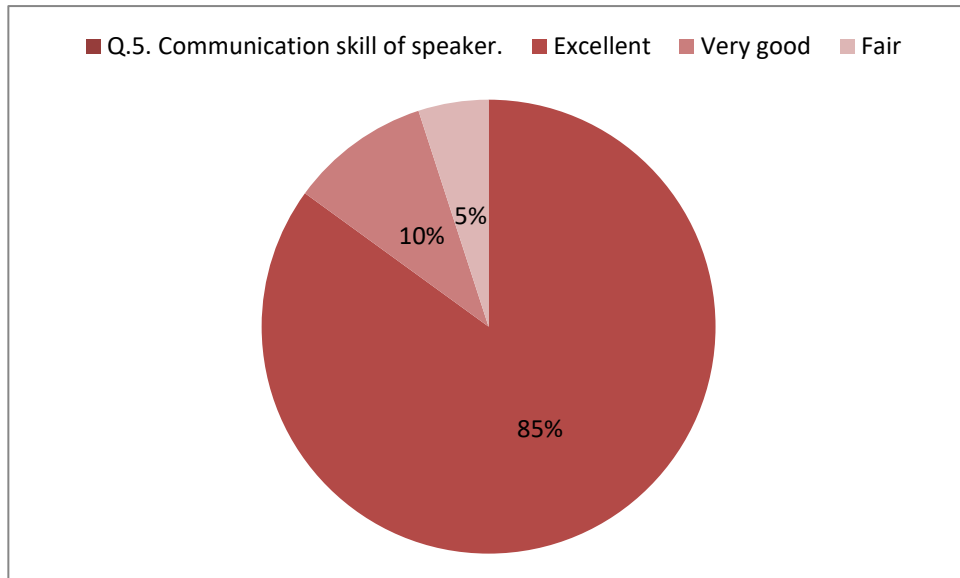
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## Criterion 1

## Certificate Programs



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**A**  
**Certificate Course**  
**On**  
**ETHICS IN ENGINEERING PRACTICE**  
**Report**

**Venue: Google Meet (Online)**

**Date: 18/01/2021 to 08/02/2021**

**Name of Resource Person: Mr. AMIT SARDA**

**Criterion 1**

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## **NOTICE**

Date: 12/01/2021

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 13/01/2021, Time: 11:00 a.m. Venue: Google Meet (Online)

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 13/01/2021, Time: 11:00 a.m. Venue: Google Meet (Online). Discussion on following points has been done.

1. It has been decided that a Certificate Course on Ethics In Engineering Practice will be conducted from 18/01/2021 to 08/02/2021 for 30 hours through Google Meet(Online).
2. Students of **2<sup>nd</sup> and 3<sup>rd</sup> year** studying in Mechanical Engineering are eligible to attend the course.
3. The title of the course will be Ethics In Engineering Practice
4. Mr. Amit Sarda, Associate Professor, Dept. of Mech. Engg., CCET, Bhilai will be conducting the classes.
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day after regular classes
7. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

- 1. Principal**
- 2. All Faculty members**
- 3. IQAC Coordinator**

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## Circular

**Date: 08/01/2021**

All the students of **B.Tech 2<sup>nd</sup> & 3<sup>rd</sup> year** of Mechanical Engineering are hereby informed that we are planning to conduct a certificate course on **Ethics in Engineering Practice** for 2 hours per day from **18/01/2021 to 08/02/2021** for total 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by 18/01/2021.

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## **Course Objective:**

Engineering as a profession is meant to serve the public by strictly adhering to codes of conduct and placing paramount the health, safety and welfare of public. However it raises few conflicting questions like: who is the public? Does it include future generation? Who decides what is best for public? Do engineers have managerial and technical responsibilities? What is the acceptable risk? Do Engineers have responsibilities towards the environment also?

Engineering ethics is the study of moral issues and decisions confronting individuals and organizations engaged in engineering and the study of related questions about the moral ideals, character, policies and relationships of people and corporations involved in technological activity. To prepare students for their professional responsibilities as Engineers. To help them recognize and think through ethically significant problem situations that are common in Engineering and to evaluate the existing ethical standards for ENGINEERING Practice.

**Detail of Resource Person:** Mr. AMIT SARDA, Associate Professor, Dept. of Mech. Engg., CCET, Bhilai

## **Course Syllabus:**

- Introduction to Ethical Reasoning and Engineer Ethics.
- Professional Practice in Engineering.
- Ethics as Design - Doing Justice to Moral Problems.
- Central Professional Responsibilities of Engineers.
- Computers, Software, and Digital Information.
- Rights and Responsibilities Regarding Intellectual Property.
- Workplace Rights and Responsibilities.

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- Responsibility for the Environment.

### **Course Outcome:**

By the completion of this course on Engineering Ethics, students will develop a comprehensive understanding of the moral and ethical dimensions of engineering practice, enabling them to make well-informed decisions that prioritize the health, safety, welfare, and interests of the public and the environment. The course aims to instill a strong sense of professional responsibility among students, equipping them with the necessary knowledge and critical thinking skills to address ethically significant problem situations commonly encountered in engineering.

Specifically, the course will have the following outcomes:

1. **Knowledge of Engineering Ethics:** Students will acquire a deep understanding of the principles, theories, and concepts underpinning engineering ethics. They will explore moral issues and dilemmas that arise in engineering practice and understand the importance of adhering to ethical codes of conduct.
2. **Recognition of Ethical Problem Situations:** Participants will be able to recognize and identify ethically significant problem situations that can occur in various engineering contexts. They will develop the ability to analyze complex scenarios and identify the moral implications of their decisions.
3. **Ethical Decision-Making Skills:** The course will enable students to develop ethical decision-making skills by evaluating alternative courses of action and considering the potential consequences on the public, future generations, and the environment. They will learn to assess risks and make principled choices aligned with ethical standards.
4. **Understanding of Public Welfare and Responsibility:** Students will understand the diverse stakeholders in engineering projects and the responsibility of engineers towards the public, which includes not only the current generation but also future generations. They will appreciate the significance of public welfare and safety in engineering activities.
5. **Awareness of Environmental Responsibilities:** Participants will recognize the impact of engineering practices on the environment and the role of engineers in promoting sustainable and environmentally responsible solutions. They will be aware of their responsibilities towards protecting and preserving the environment.

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6. **Evaluation of Existing Ethical Standards:** Students will critically evaluate existing ethical standards and codes of conduct in engineering practice. They will assess their strengths and limitations and consider the need for continuous improvement in ethical guidelines.
7. **Integration of Ethics in Engineering Practice:** The course will equip students with the skills to integrate ethical considerations into their engineering projects and decision-making processes. They will learn to strike a balance between technical requirements and ethical principles.
8. **Appreciation of Moral Ideals and Character:** Participants will develop an appreciation for moral ideals and the significance of character traits, integrity, and professionalism in engineering practice. They will understand the importance of personal ethical development as engineers.
9. **Enhanced Communication and Collaboration:** The course will encourage students to engage in ethical discussions and debates, promoting effective communication and collaboration among engineering professionals to address ethical challenges collectively.
10. **Ethical Awareness and Responsibility:** Upon completing the course, students will have a heightened ethical awareness and a sense of responsibility towards upholding ethical standards in their future engineering careers, contributing to a more ethical and socially responsible engineering profession.

Overall, this course seeks to foster a culture of ethical engineering practice, where future engineers are equipped with the knowledge, skills, and values needed to prioritize the well-being of the public and the environment in their professional endeavours.

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## Enrolment List

S. No.	Roll No.	Name	Semester
1	1	Ashish Prasad	4 <sup>th</sup>
2	2	Bablu Kumar	4 <sup>th</sup>
3	3	D John Victor	4 <sup>th</sup>
4	4	Daulat	4 <sup>th</sup>
5	5	G Ramu	4 <sup>th</sup>
6	6	Harsad	4 <sup>th</sup>
7	7	Himanshu Sahu	4 <sup>th</sup>
8	8	Mayur Yadav	4 <sup>th</sup>
9	9	Rajesh Kumar Shrivastava	4 <sup>th</sup>
10	10	Robin Roy	4 <sup>th</sup>
11	11	Rohan Sinha	4 <sup>th</sup>
12	12	Shivam Prasad	6 <sup>th</sup>
13	13	Vikky Kumar	6 <sup>th</sup>
14	14	Manohar Kumar	6 <sup>th</sup>
15	15	Akhil Anu Abraham	6 <sup>th</sup>
16	16	Deepak Kumar	6 <sup>th</sup>
17	17	Himanshu Tamrakar	6 <sup>th</sup>
18	18	Rahul Kumar Bramhankar	6 <sup>th</sup>
19	19	Robins Jacob John	6 <sup>th</sup>
20	20	Roshan Roy	6 <sup>th</sup>
21	21	Shreyansh Lal	6 <sup>th</sup>
22	22	Sahil Hussain	6 <sup>th</sup>
23	23	Sharon Suryavanshi	6 <sup>th</sup>
24	24	Shivnath Gota	6 <sup>th</sup>
25	25	Seeyon Kumar	6 <sup>th</sup>

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## **Report On a Certificate Course on “Ethics in Engineering Practice”**

A Certificate Course on “**Ethics in Engineering Practice**” for 30 hours was arranged for the students of B.Tech 2<sup>nd</sup> & 3<sup>rd</sup> year of Mechanical Engineering from **18/01/2021 to 08/02/2021** by online mode. A total of 25 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. Amit Sarda, Associate Professor, CCET Bhilai. The main objective of the course was to prepare the students for their professional responsibilities as Engineers. To help them recognize and think through ethically significant problem situations that are common in Engineering and to evaluate the existing ethical standards for ENGINEERING Practice.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the course.

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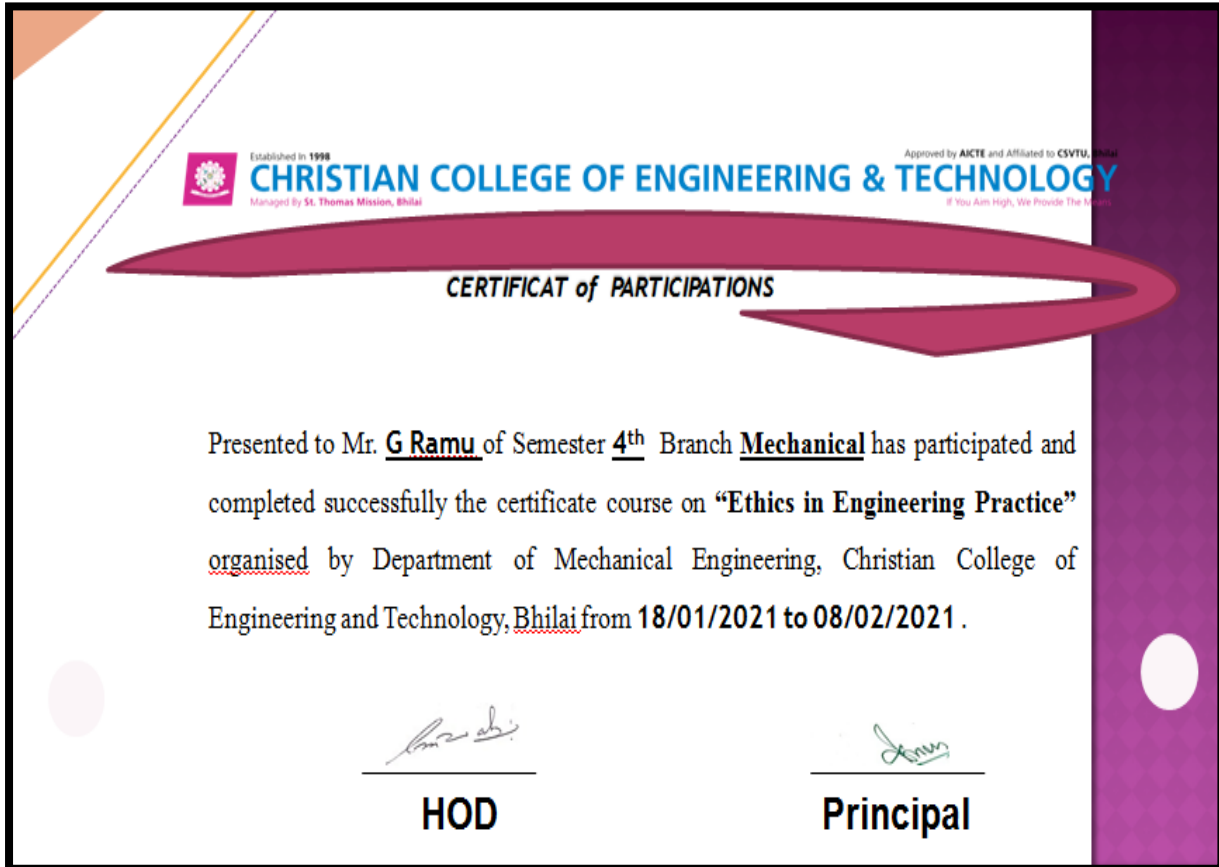
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## Sample of Certificate for Feedback Session

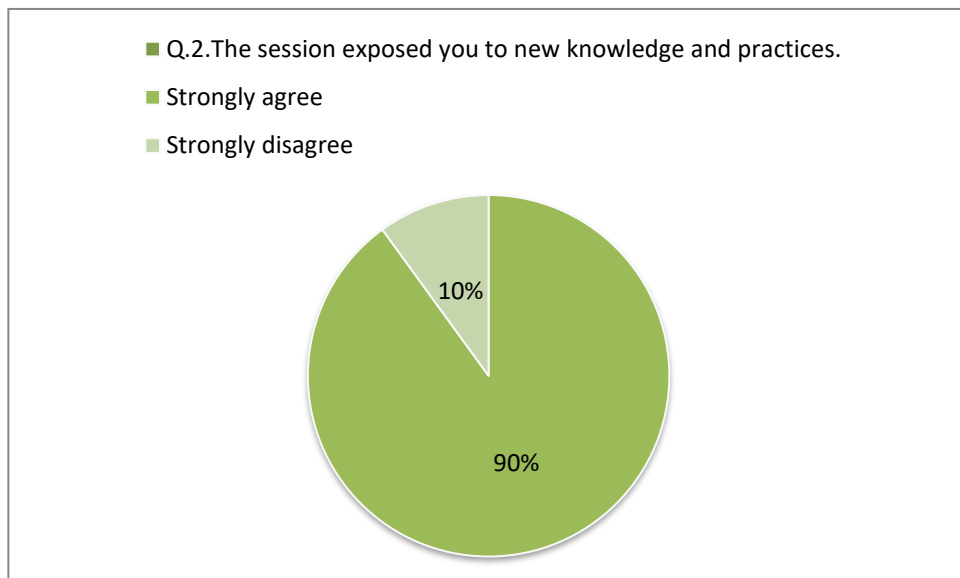
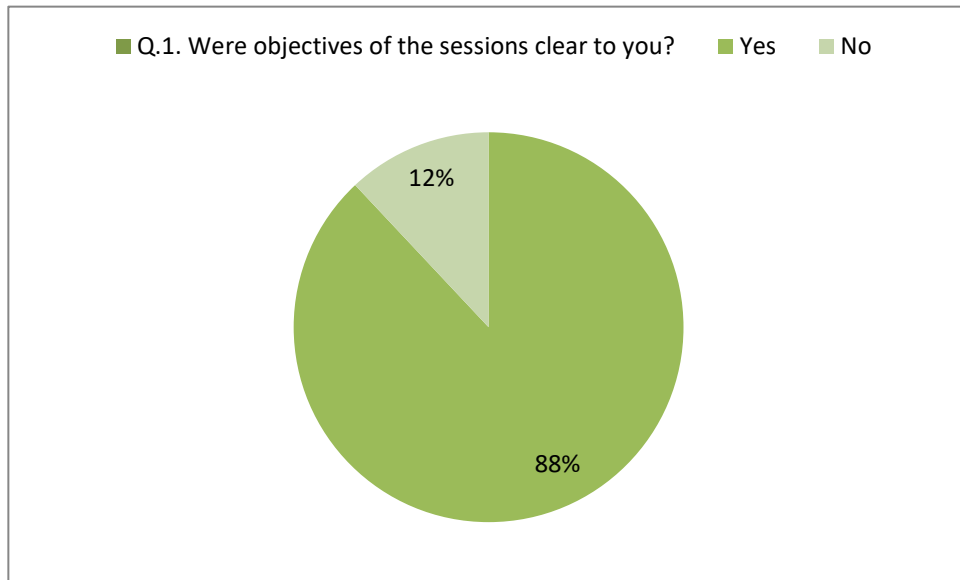


### Criterion 1

### Certificate Programs

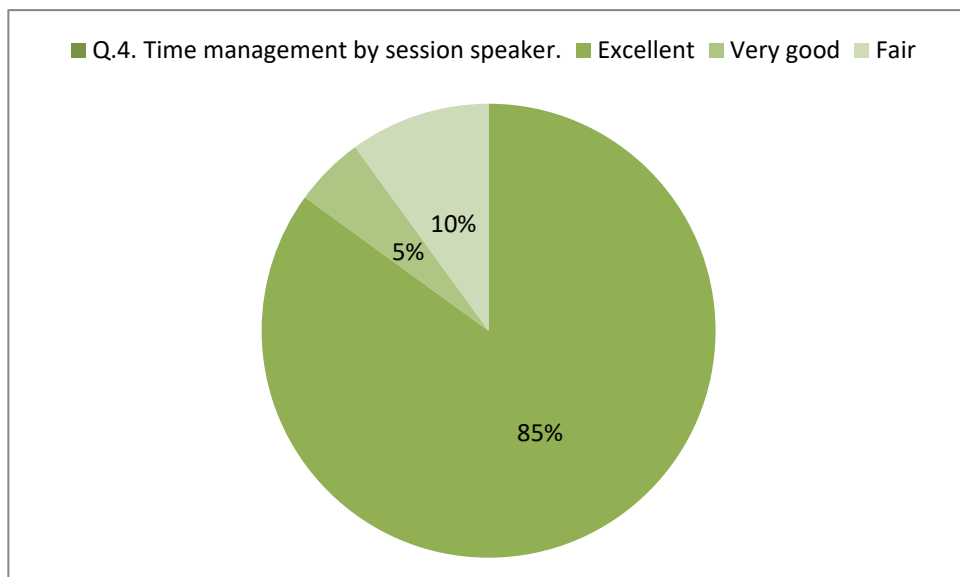
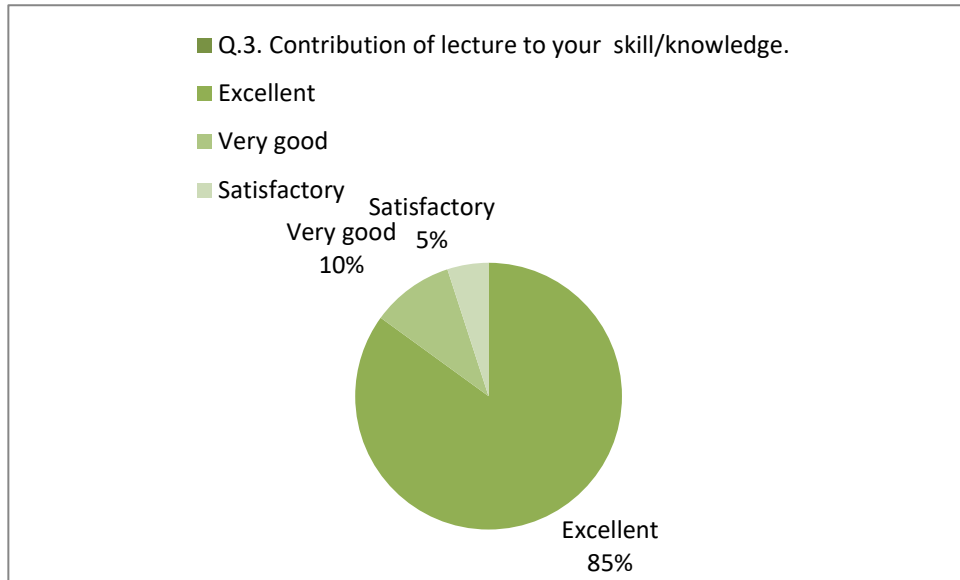


## Feedback (online)



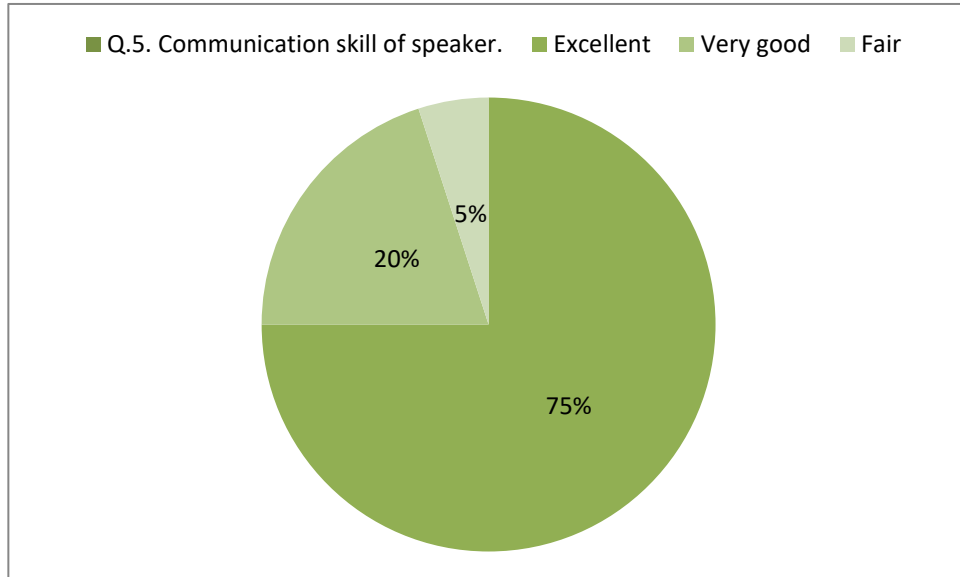
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## Criterion 1

## Certificate Programs



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**A**  
**Certificate Course**  
**On**  
**CSAT Preparation**  
**Technique**  
**Report**

**Venue: CCET, Bhilai**

**Date: 11/08/2021 to 01/09/2021**

**Name of Resource Person: Mr. C.S.Sahu**

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## **NOTICE**

Date: 03/08/2021

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 04/08/2021, Time: 3:00 p.m.  
Venue: HOD Cabin.

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 04/08/2021, Time: 03:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

15. It has been decided that a Certificate Course on **CAST Preparation Technique** will be conducted from 11/08/2021 to 01/9/2021 for 30 hours.
16. Students of BTech 4<sup>th</sup> year and MTech 2<sup>nd</sup> year studying in Mechanical Engineering are eligible to attend the course.
17. The title of the course will be **CAST Preparation Technique**.
18. Mr. C.S.Sahu, Assistant Professor, Dept. of Mech. Engg. CCET, Bhilai will be conducting the classes.
19. The course conducted will be free of cost
20. The course will be conducted for 2 hours every day after regular classes
21. Venue for the course is Computer Lab.

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## Circular

**Date: 05/08/2021**

All the students of BTech 4<sup>th</sup> year of Mechanical Engineering and MTech 2<sup>nd</sup> year of CAD-CAM Robotics are hereby informed that we are planning to conduct a certificate course on **CSAT Preparation Technique** for 2 hours per day from **11/08/2021 to 01/09/2021 for total 30 hours**. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by 11.08.2021

HOD

Department of Mechanical Engineering

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## Course Objective:

CSAT is officially the General Studies-II in the UPSC Civil Services Prelims exam. Although it is a qualifying paper, you need to have a rock-solid UPSC CSAT Prelims Strategy to ace this paper. Now, to qualify for the 200-mark CSAT Prelims paper, you need to score more than 33% or 66 marks. Hence, a thorough knowledge of the weightage of each topic and subsequent preparation tips can help you sail through it smoothly.

Let's straight get into “How to prepare for UPSC CSAT”! First and foremost, it is important to know the syllabus, exam pattern, and marking scheme. The objective of this certificate course is to spread awareness among the students about UPSC.

**Detail of Resource Person:** Mr. C.S.Sahu, Assistant Professor, Dept. of Mech. Engg., CCET, Bhilai

## Course Syllabus:

- Comprehension.
- Interpersonal skills including communication skills.
- Logical reasoning and analytical ability.
- Decision-making and problem-solving.
- General mental ability.
- Basic numeracy (numbers and their relations, orders of magnitude, etc.) (Class X level),  
Data interpretation (charts, graphs, tables, data sufficiency etc. – Class X level)

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## **Course Outcome:**

Upon successful completion of this certificate course, students will have acquired a comprehensive understanding of the UPSC Civil Services Prelims General Studies-II (CSAT) exam, enabling them to approach the paper with confidence and competence. Participants will be equipped with the necessary knowledge and strategies to score above the qualifying threshold of 33% (66 marks) in the 200-mark CSAT Prelims paper.

Specifically, the course will have the following outcomes:

- 1. Understanding of CSAT Syllabus and Exam Pattern:** Students will have a clear comprehension of the CSAT syllabus and exam pattern, including the topics covered, question formats, and time constraints. This knowledge will serve as a foundation for effective preparation.
- 2. Familiarity with Weightage of Each Topic:** Participants will be able to identify the weightage assigned to different topics in the CSAT paper. This awareness will assist them in prioritizing their study efforts and allocating time wisely to focus on high-scoring areas.
- 3. Proficiency in CSAT Preparation Techniques:** The course will equip students with various preparation tips and techniques specific to CSAT. These strategies will include time management during the exam, problem-solving approaches, and enhancing comprehension skills.
- 4. Increased Problem-Solving Speed and Accuracy:** Through rigorous practice and guidance, learners will experience improvements in their problem-solving abilities, leading to enhanced speed and accuracy in answering CSAT questions.
- 5. Development of Analytical and Logical Reasoning Skills:** Participants will cultivate their analytical and logical reasoning skills, which are essential for tackling the CSAT paper effectively. This will enable them to solve complex problems and decision-making tasks efficiently.
- 6. Enhanced Awareness of Common Mistakes and Pitfalls:** Students will be made aware of common mistakes and pitfalls that candidates often encounter during the CSAT exam. By understanding these errors, participants can avoid them and perform better.

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## Enrolment List

S.No.	Roll No.	Name	Semester
1	1	Abhay Kumar Yadav	7 <sup>th</sup>
2	2	Abhay Sen	7 <sup>th</sup>
3	3	Ajay Kumar Navrang	7 <sup>th</sup>
4	4	Brahmanand Jha	7 <sup>th</sup>
5	5	Deepesh Johnson Tirkey	7 <sup>th</sup>
6	6	Dilip Kumar	7 <sup>th</sup>
7	7	Gaurav Kumar Verma	7 <sup>th</sup>
8	8	Kajal Maurya	7 <sup>th</sup>
9	9	Krishna Kumar Jhariya	7 <sup>th</sup>
10	10	Kundan Singh Barman	7 <sup>th</sup>
11	11	Nelson Kujur	7 <sup>th</sup>
12	12	Nikhil Dewangan	7 <sup>th</sup>
13	13	Pawan Kumar Sahu	7 <sup>th</sup>
14	14	Preetam Tirkey	7 <sup>th</sup>
15	15	Rahul Soni	7 <sup>th</sup>
16	16	Rishikesh Yadav	7 <sup>th</sup>
17	17	Siddharth Sahu	7 <sup>th</sup>
18	18	Tamendra Singh Parmar	7 <sup>th</sup>
19	01	Jay Shankar Prasad	M.Tech 3 <sup>rd</sup>
20	02	Sandeep Gupta	M.Tech 3 <sup>rd</sup>

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## Attendance List

 Christian College of Engineering and Technology, Bhilai

**Attendance List**

S.No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Signature
1	Abhay Kumar Yadav	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	<i>Abhay</i>
2	Abhay Sen	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	<i>Abhay</i>
3	Ajay Kumar Navrang	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Ajay</i>
4	Brahmanand Jha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Brahmanand</i>
5	Deepesh Johnson Turkey	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	<i>Deepesh</i>
6	Dilip Kumar	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	<i>Dilip</i>
7	Gaurav Kumar Verma	A	P	P	A	P	P	P	P	P	P	P	P	P	A	P	<i>Gaurav</i>
8	Kajal Maurya	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	<i>Kajal</i>
9	Krishna Kumar Jhariya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Krishna</i>
10	Kundan Singh Barman	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Kundan</i>
11	Nelson Kujur	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	<i>Nelson</i>
12	Nikhil	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	<i>Nikhil</i>
13	Pawan Kumar Sahu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Pawan</i>
14	Preetam Turkey	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	<i>Preetam</i>
15	Rahul Soni	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Rahul</i>
16	Rishikesh Yadav	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	<i>Rishikesh</i>
17	Siddharth Sahu	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	<i>Siddharth</i>
18	Tamendra Singh Parmar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>Tamendra</i>
19	Jay Shankar Prasad	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	<i>Jay Shankar</i>
20	Sandeep Gupta	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	<i>Sandeep</i>

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## **Report On a Certificate Course on “CSAT Preparation Technique for Engineering Students”**

A Certificate Course on “CSAT Preparation Technique” for **30 hours** was arranged for the students of BTech 4<sup>th</sup> year of Mechanical Engineering and MTech 1<sup>st</sup>& 2<sup>nd</sup> year of CAD-CAM Robotics from **11/08/2021 to 01/09/2021** at room no B-103. A total of 20 students enrolled themselves for the course and participated in the program. The sessions were conducted by Mr. C.S.Sahu, Assistant Professor, CCET Bhilai. The main objective of the course was to provide a clear understanding of the basics of CSAT which will enable the participants to communicate their ideas effectively during UPSC preparation by using the techniques discussed in the course.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques suggested to prepare the CSAT.

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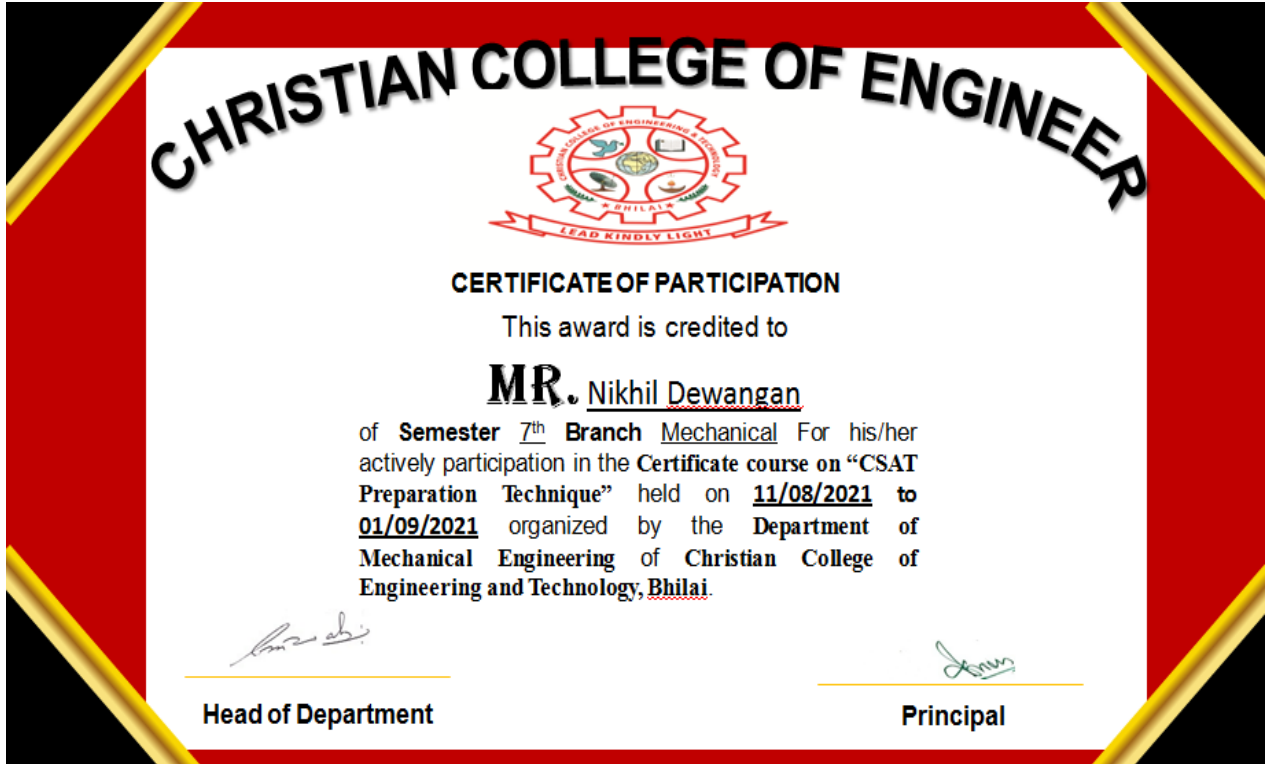
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## Sample of Certificate for Feedback Session

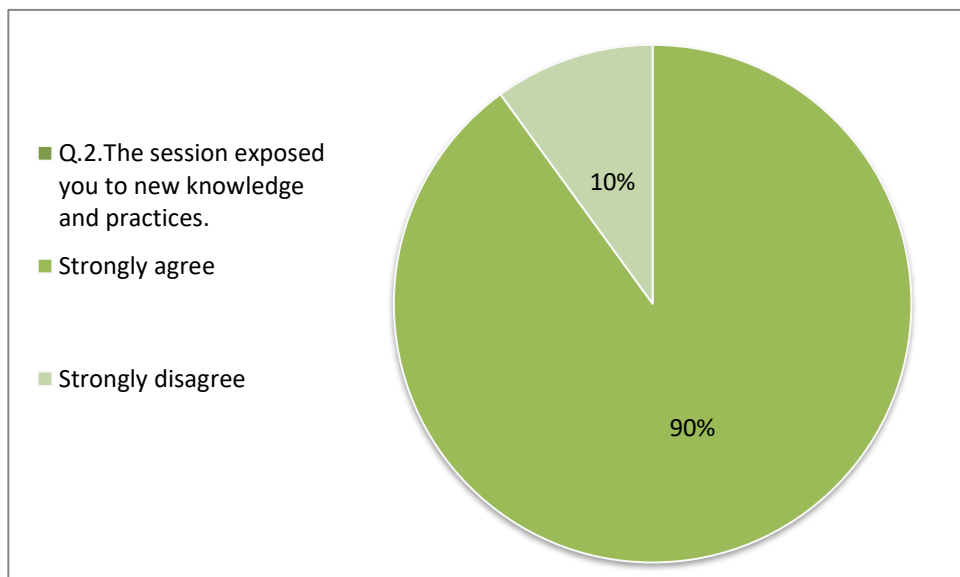
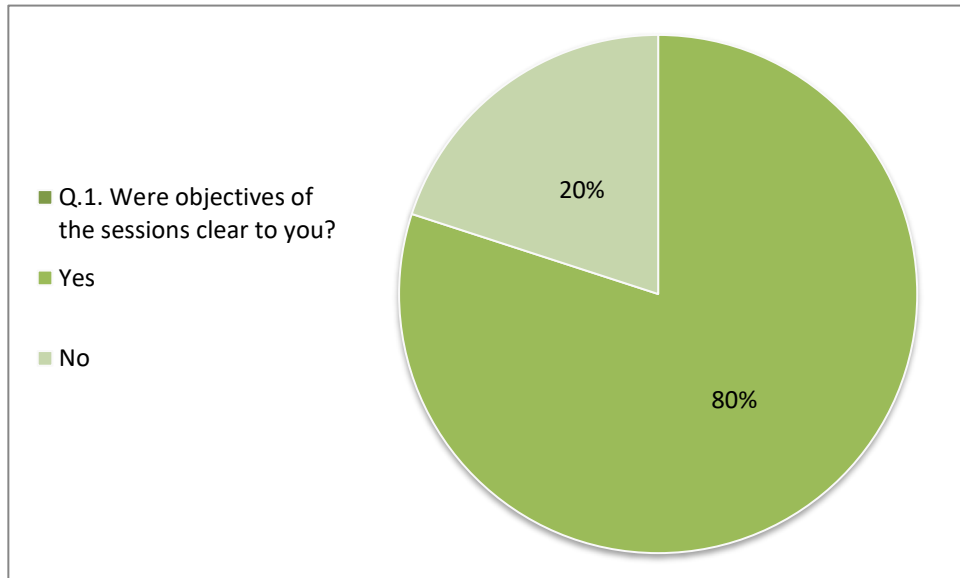


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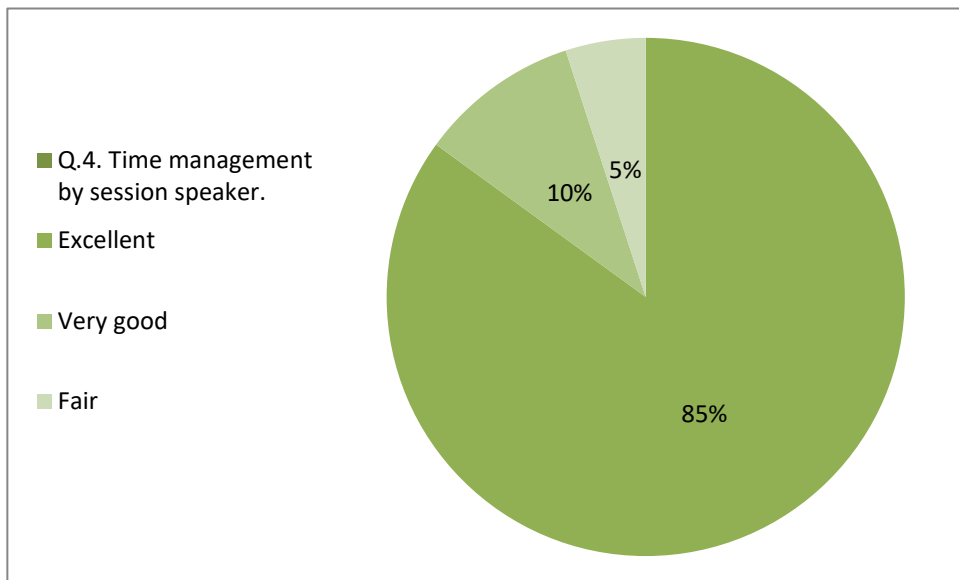
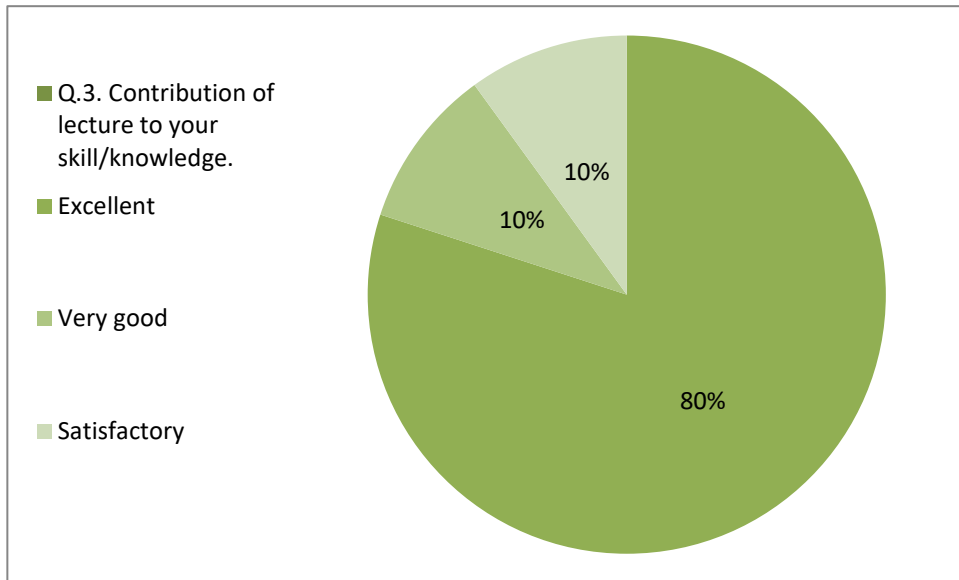


## Feedback (Online)



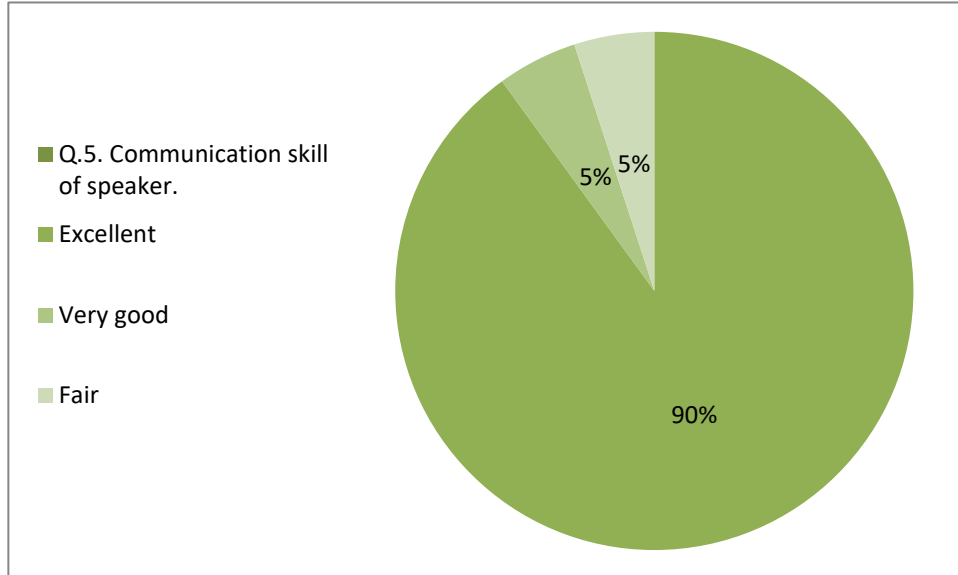
**Criterion 1**

**Certificate Programs**



## Criterion 1

## Certificate Programs



## Criterion 1

## Certificate Programs



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**A**  
**Certificate Course**  
**On**  
**Soft Skill Development**

**Report**

**Venue: CCET Bhilai**

**Date: 07/02/2022 to 28/02/2022**

**Name of resource person: Mr. Praveen Chandrakar**

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## **NOTICE**

Date: 03/02/2022

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 04/02/2022, Time: 2:00 p.m.  
Venue: HOD Cabin.

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 04/02/2022, Time: 02:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. It has been decided that a Certificate Course on **Soft Skill Development** will be conducted from 07/02/2022 to 28/02/2022 for 32 hours.
2. Students of **2<sup>nd</sup> and 3<sup>rd</sup> year** studying in Mechanical Engineering are eligible to attend the course.
3. The title of the course will be **Soft Skill Development**.
4. Mr. Praveen Chandrakar, Assistant Professor of Electrical Engineering Department will be conducting the classes.
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day after regular classes
7. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. **Principal**
2. **All Faculty members**
3. **IQAC Coordinator**

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## Circular

**Date: 05/02/2022**

All the students of **2<sup>nd</sup> and 3<sup>rd</sup> year** of Mechanical Branch are hereby informed that we are planning to conduct a certificate course on **Soft Skill Development** for 2 hours from **07/02/2022 to 28/02/2022 for 32 hours**. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 07.02.2022.

**HOD**

Department of Mechanical Engineering

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## Course Objective:

A certificate course on Soft Skill Development is organized for students of Mechanical Engineering department. From the feedback received from Employers, it has been analyzed that knowledge of Aptitude is required for Career building processes.

## Course Syllabus:

Sr. No.	Contents	No of hours
1	Permutations & Combinations	6 hours
2	Probability	4 hours
3	Time and Work	4 hours
4	Pipes and Cisterns	4 hours
5	Trains	4 hours
6	Time Speed Distance	4 hours
7	Profit, Loss & Discount	6 hours
	<b>Total</b>	<b>32 hours</b>

## Course Outcome:

- Enhancing Soft Skills:** The primary objective of the course is to enhance students' soft skills, including but not limited to communication, teamwork, problem-solving, time management, and adaptability. These skills are vital for fostering effective workplace relationships, promoting efficient collaboration, and addressing real-world challenges encountered in the professional realm.
- Understanding the Importance of Aptitude:** The course aims to instil an understanding of the significance of aptitude in various stages of career development. Students will be made aware that aptitude is not just limited to

# Criterion 1

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- academic performance but encompasses critical thinking, logical reasoning, and problem-solving abilities that are indispensable in the professional world.
- 3. Strengthening Logical and Analytical Thinking:** By focusing on aptitude, the course seeks to enhance students' logical and analytical thinking skills. Through various exercises and assessments, learners will develop the ability to approach problems systematically and derive effective solutions.
  - 4. Boosting Employability:** The course is strategically designed to make students more employable in the competitive job market. Graduates equipped with both technical knowledge and strong soft skills, including aptitude, are highly sought after by employers seeking well-rounded professionals who can adapt and contribute effectively to the workplace.

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### Enrolment List

S.No	ROLL NO.	NAME	SEM
1	1	Alakh Niranjan	4 <sup>th</sup>
2	2	Aman Uikey	4 <sup>th</sup>
3	3	Amit Sahu	4 <sup>th</sup>
4	4	Ankush Kumar	4 <sup>th</sup>
5	5	Atul Hirwani	4 <sup>th</sup>
6	6	Bhupendra Kumar Sen	4 <sup>th</sup>
7	7	Dheeraj Kumar Sori	4 <sup>th</sup>
8	8	Dinesh Kumar Yadav	4 <sup>th</sup>
9	9	Poonam	4 <sup>th</sup>
10	10	Prashant Yadav	4 <sup>th</sup>
11	11	Shreyansh Ekka	4 <sup>th</sup>
12	12	Sneha Motwani	4 <sup>th</sup>
13	13	Shivam	4 <sup>th</sup>
14	1	Ashish Prasad	6 <sup>th</sup>
15	2	Bablu Kumar	6 <sup>th</sup>
16	3	D John Victor	6 <sup>th</sup>
17	4	Daulat	6 <sup>th</sup>
18	5	G Ramu	6 <sup>th</sup>
19	6	Harsad	6 <sup>th</sup>
20	7	Himanshu Sahu	6 <sup>th</sup>
21	8	Mayur Yadav	6 <sup>th</sup>
22	9	Rajesh Kumar Shrivastava	6 <sup>th</sup>
23	10	Robin Roy	6 <sup>th</sup>
24	11	Rohan Sinha	6 <sup>th</sup>
25	12	Shivam Prasad	6 <sup>th</sup>

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## Attendance List



Christian College of Engineering &  
Technology Bhilai

### Attendance List

S. No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Day16	Signature
1	Alakh Niranjana	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Alakh
2	Aman Uikay	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Aman
3	Amit Sahu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amit
4	Ankush Kumar	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Ankush
5	Atul Hirwani	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Atul
6	Bhupendra Kumar Sen	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Bhupendra
7	Dheeraj Kumar Sori	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Dheeraj
8	Dinesh Kumar Yadav	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Dinesh
9	Poonam	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Poonam
10	Prashant Yadav	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Prashant
11	Shreyansh Ekka	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shreyansh
12	Sneha Motwani	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sneha
13	Shivam	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shivam
14	Ashish Prasad	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Ashish
15	Bablu Kumar	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Bablu
16	D John Victor	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	D John Victor
17	Daulat	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Daulat
18	G Ramu	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	G Ramu
19	Harsad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Harsad
20	Himanshu Sahu	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Himanshu
21	Mayur Yadav	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Mayur
22	Rajesh Kumar Shrivastava	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Rajesh
23	Robin Roy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Robin
24	Rohan Sinha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Rohan
25	Shivam Prasad	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Shivam

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## **Report On “A Certificate Course on Soft Skill Development”**

“A Certificate Course on Soft Skill Development” for 31 hours was arranged for the students of 2<sup>nd</sup> and 3<sup>rd</sup> year of Mechanical Students from 07/02/2022 to 28/02/2022 for 32 hours at B-109/A. A total of **25 students enrolled** themselves for the course and participated in the program. The sessions were conducted by **Mr Praveen Chandrakar, Assistant Professor, CCET, Bhilai**. The main objective of the course was to introduce the students about Soft skill development.

### **Photographs**



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**Certificate Programs**



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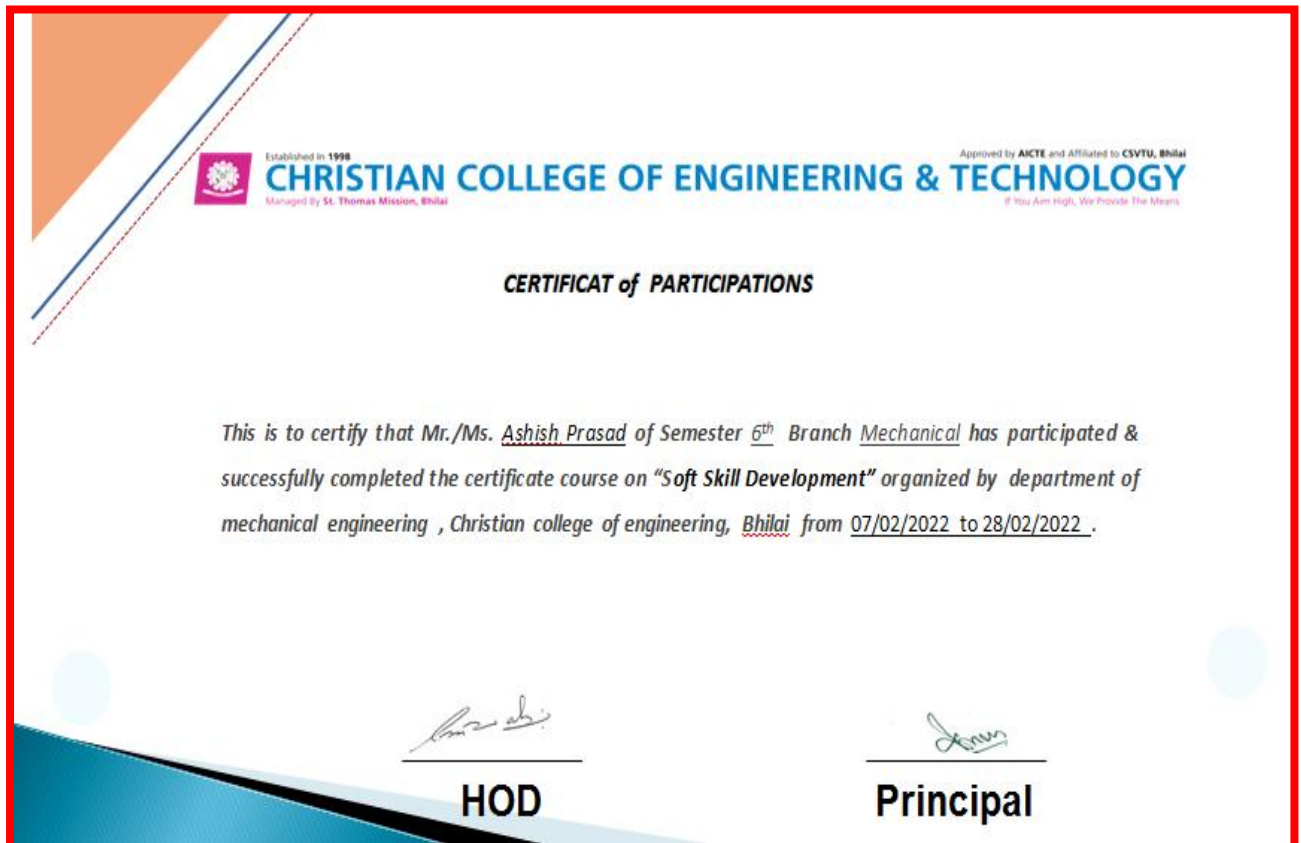
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## Sample of Certificate for Feedback Session

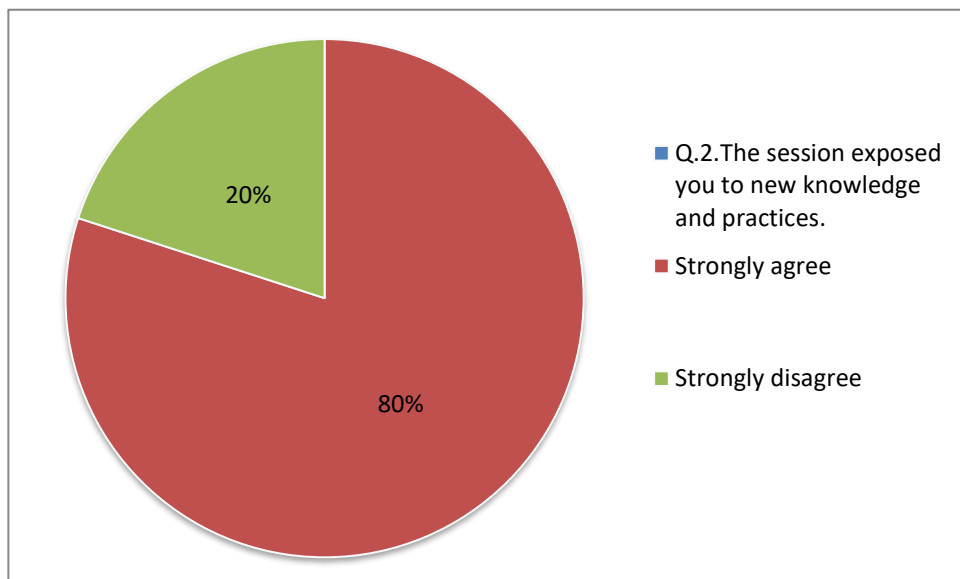
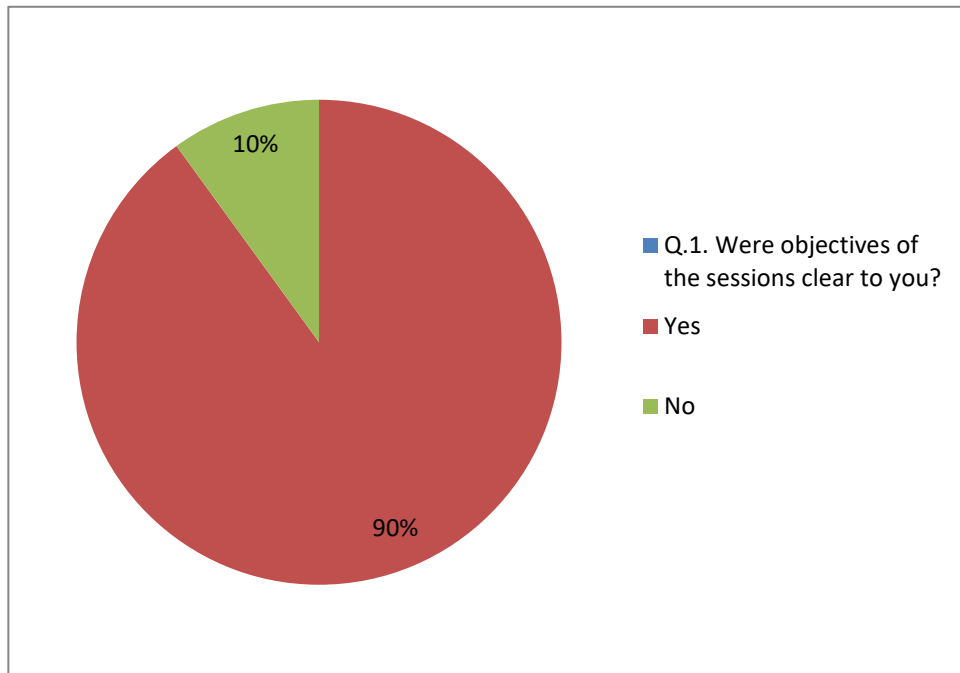


## Criterion 1

### Certificate Programs



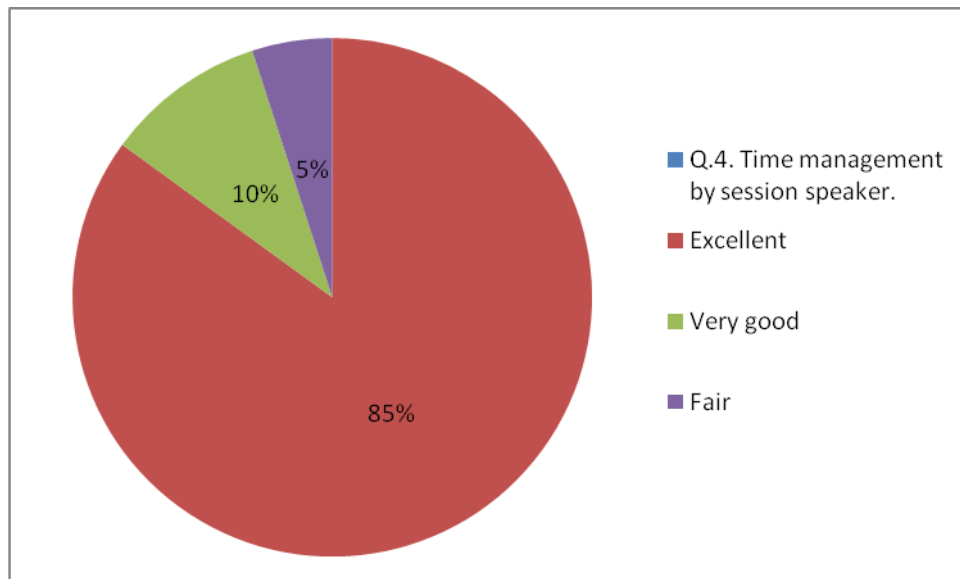
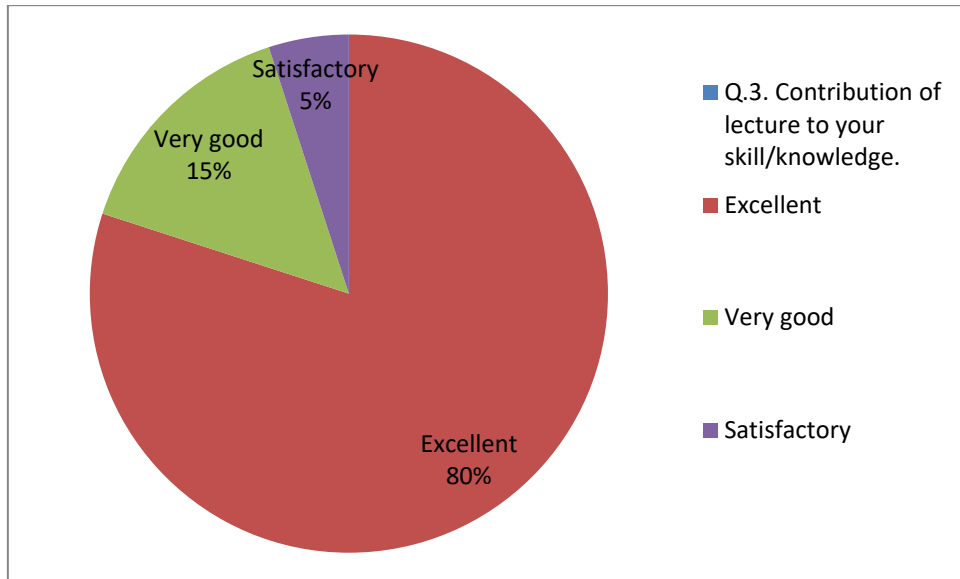
## FEEDBACK:



**Criterion 1**

**Certificate Programs**





## Criterion 1

## Certificate Programs

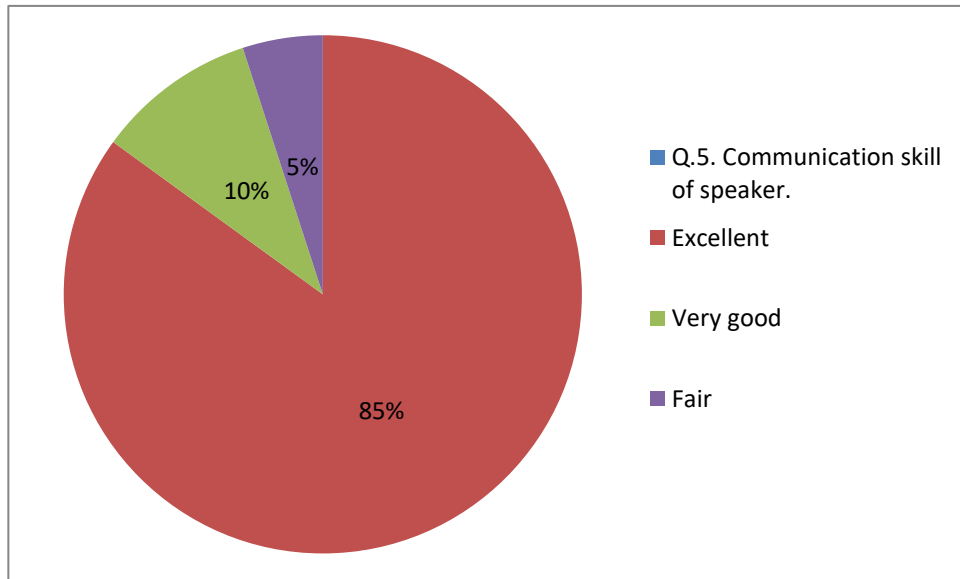


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## Certificate Programs



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**A**  
**Certificate Course**  
**On**  
**Fundamental design and**  
**analysis of machine elements**  
**by Solidworks**

**Report**

**Venue : CCET Bhilai**

**Date: to 01/08/2022 to 24/08/2022**

**Name of resource person: Mr. Sumit Kumar Shrivastava**

**Criterion 1**

**Certificate Programs**



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## **NOTICE**

Date: 25/07/2022

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 26/07/2022, Time: 1:00 p.m. Venue: HOD Cabin.

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**  
**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

**Criterion 1**

**Certificate Programs**



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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 26/07/2022, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

1. It has been decided that a Certificate Course on **Fundamental design and analysis of machine elements by Solidworks** will be conducted from **01/08/2022 to 24/08/2022** for 30 hours.
2. Students of 3rd & 4th **year** studying in Mechanical Engineering are eligible to attend the course.
3. The title of the course will be **Fundamental design and analysis of machine elements by Solidworks**.
4. Mr. Sumit Kumar Shrivastava, Assistant Professor, CCET Bhilai will be conducting the classes.
5. The course conducted will be free of cost
6. The course will be conducted for 2 hours every day after regular classes
7. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. **Principal**
2. **All Faculty members**
3. **IQAC Coordinator**

**Criterion 1**

**Certificate Programs**



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## Circular

**Date: 27/07/2022**

All the students of B.Tech 4<sup>th</sup> year and M.Tech 2<sup>nd</sup> year of Mechanical Branch are hereby informed that we are planning to conduct a certificate course **Fundamental design and analysis of machine elements by Solid works** for 2 hours from **01/08/2022 to 24/08/2022** for 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class Incharges earliest by 01.08.2022.

HOD

Department of Mechanical Engineering

**Criterion 1**

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## **Course Objective:**

To create understanding of computer aided design software. To understand the fundamental design of machine elements and its analysis.

## **Detail of Resource Person:**

**Mr. Sumit Kumar Shrivastava, Assistant Professor, CCET Bhilai**

## **Course Syllabus :**

Module	Topic	Period
1	Introduction to CAD feature of Solid works ,various products available in Solid works for product design and assembly modeling	6 hrs
2	Rectangle , slots , polygon , Ellipse , Spline , points , text ,Construction geometry , Fillet , Chamfer , Offset , Convert entities , Trim , Extend , Mirror ,Move , Copy , Rotate , Scale , Sketch , Sketch Pattern	6 hrs
3	Creating extrude features – Direction 1 , Direction 2 , Thin features , Applying draft , Selecting contours , Swept feature , loft feature , Guide curves	6 hrs
4	Creating Rib pattern – Linear pattern , Circular pattern , Sketch driven pattern , Fill pattern , mirror	6 hrs
5	Inserting planer surface , Offset surface , Radiate surface , extending surface , Trimming surface , Replace face , delete face ,	6 hrs

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## **Course Outcome:**

- Understand the various CAD/CAM and CNC processes.
- Generate and verify the tool path and NC programs for milling and drilling manufacturing processes.
  - Recognize various types of Curves, surface and Solid and their application as used in geometric modelling.
- Appreciate the concept of parametric modelling which is the mainstay of most of the 3D modelling system.
- Write and prove sample part programs for CNC machining centres in planar milling operations using the word address format.
- Understand the needs of master production schedule and methods to develop it.
- Plan and execute the production activity control, which actually deals with operations in the shop floor.
- Skilfully use modern engineering tools and techniques for mechanical engineering design, analysis and application.

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### Enrolment List

S.No	ROLL NO.	NAME	Sem
1	1	Akhil Anu Abraham	7 <sup>th</sup>
2	2	Deepak Kumar	7 <sup>th</sup>
3	3	Himanshu Tamrakar	7 <sup>th</sup>
4	4	Rahul Kumar Bramhankar	7 <sup>th</sup>
5	5	Robins Jacob John	7 <sup>th</sup>
6	6	Roshan Roy	7 <sup>th</sup>
7	7	Sahil Hussain	7 <sup>th</sup>
8	8	Seeyon Kumar	7 <sup>th</sup>
9	9	Sharon Suryavanshi	7 <sup>th</sup>
10	10	Shivnath Gota	7 <sup>th</sup>
11	11	Shreyansh Lal	7 <sup>th</sup>
12	1	Bhupesh Sonkar	MTech 3 <sup>rd</sup>
13	2	Justin Chacko Pulicktharayil	MTech 3 <sup>rd</sup>
14	3	Rishabh Tamrakar	MTech 3 <sup>rd</sup>
15	4	Robin Babu	MTech 3 <sup>rd</sup>
16	5	Rupesh Kumar Singh	MTech 3 <sup>rd</sup>

**Criterion 1****Certificate Programs**



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## Attendance List

Christian College of Engineering &  
Technology Bhilai

### Attendance List

S.No	NAME	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Signature
1	Akhil Anu Abraham	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Akhil
2	Deepak Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepak
3	Himanshu Tamrakar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Himanshu
4	Rahul Kumar Bramhankar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Rahul
5	Robins Jacob John	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	John
6	Roshan Roy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Roshan
7	Sahil Hussain	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	Sahil
8	Seeyon Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Seeyon
9	Sharon Suryavanshi	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	Sharon
10	Shivnath Gota	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shivnath
11	Shreyansh Lal	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Shreyansh
12	Bhupesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bhupesh
13	Justin Chacko Pulicktharayil	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	Justin
14	Rishabh Tamrakar	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Rishabh
15	Robin Babu	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Robin
16	Rupesh Kumar Singh	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Rupesh

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## **Report On “A Certificate Course on Fundamental design and analysis of machine elements by Solidworks”**

“A Certificate Course on DSP using MATLAB” for 45 hours was arranged for the students of B.Tech 4th year & M.Tech 2<sup>nd</sup> of Mechanical Students from **01/08/2022 to 24/08/2022** at CAD Lab. A total of 22 students enrolled themselves for the course and participated in the program. The sessions were conducted by **Mr. Sumit Kumar Shrivastava**, Assistant Professor, CCET Bhilai. The main objective of the course was to introduce the students about Signal Processing Toolbox.

From the overall responses received from the students regarding the course, It has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. Students are satisfied with the techniques used to impart knowledge in the field of solidworks.

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**Certificate Programs**



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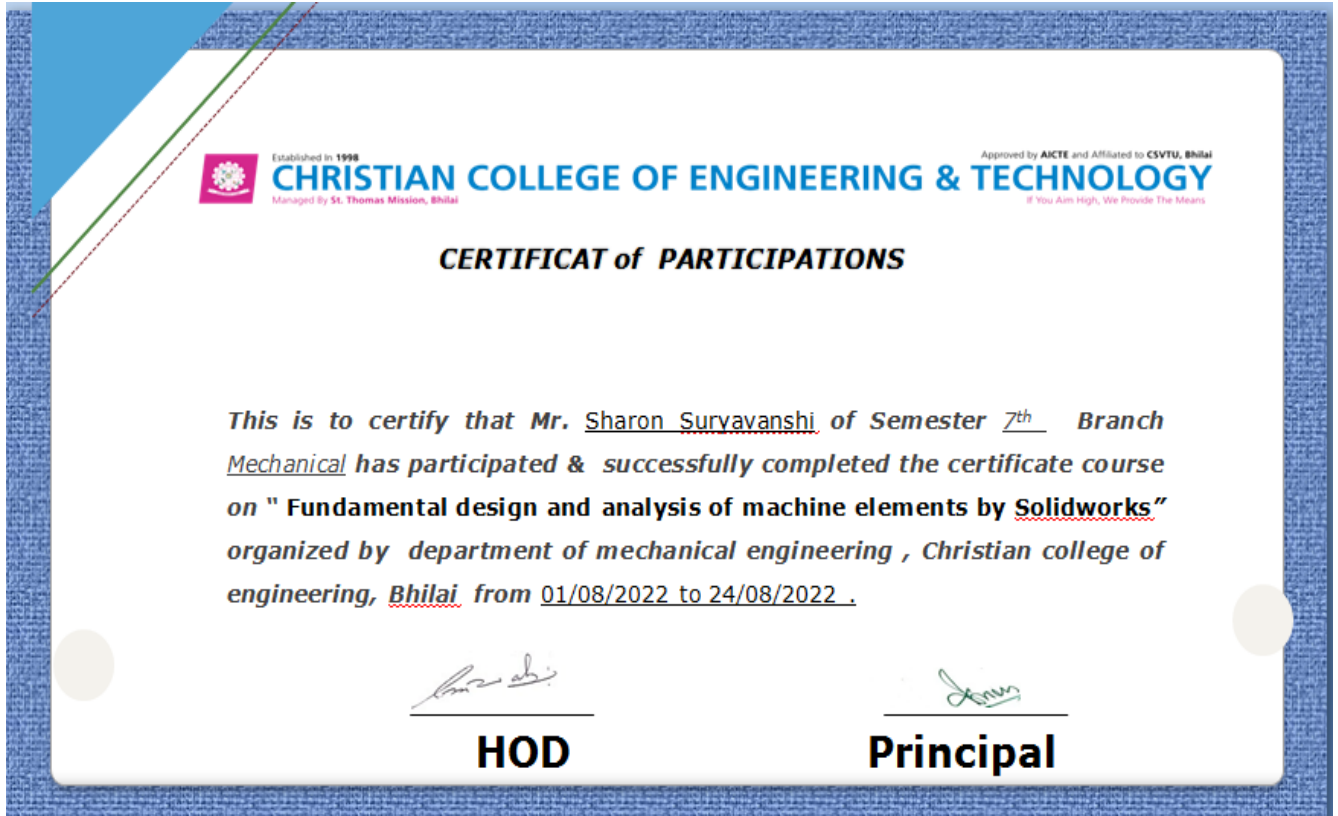
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## Sample of Certificate for Feedback Session

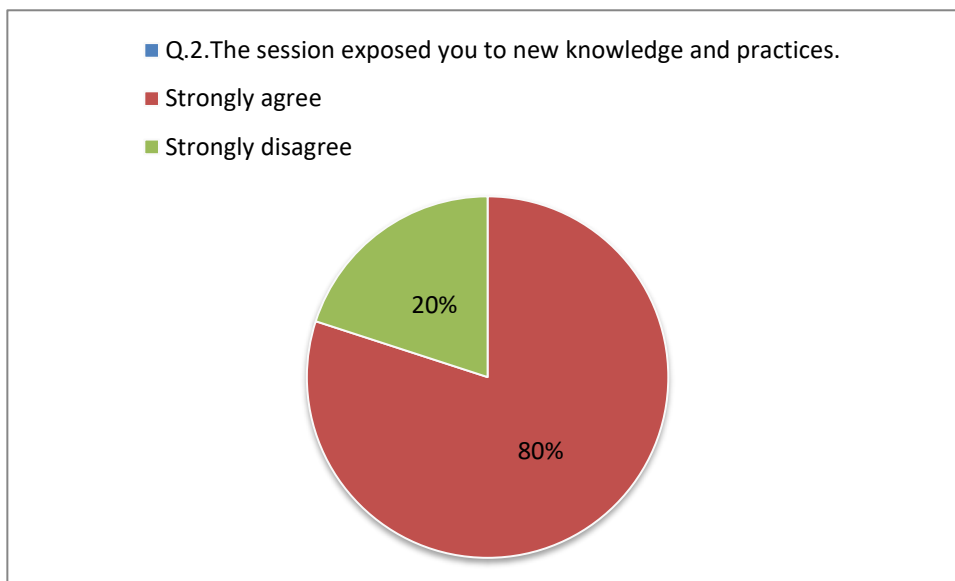
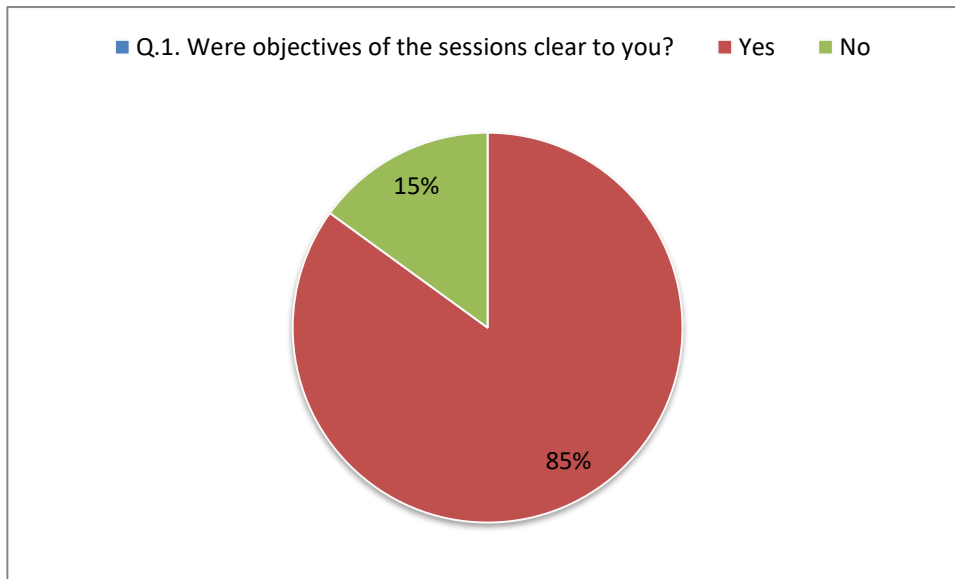


**Criterion 1**

**Certificate Programs**

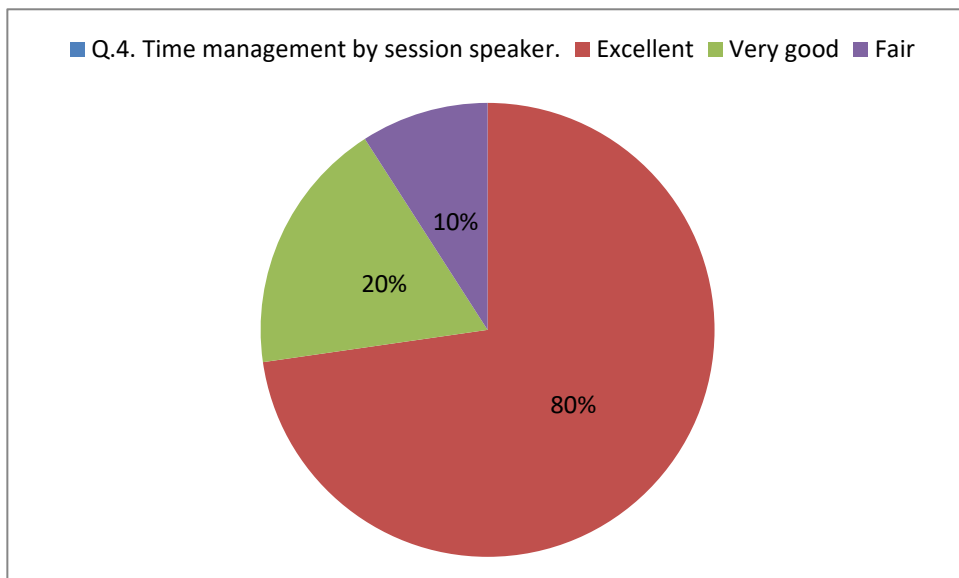
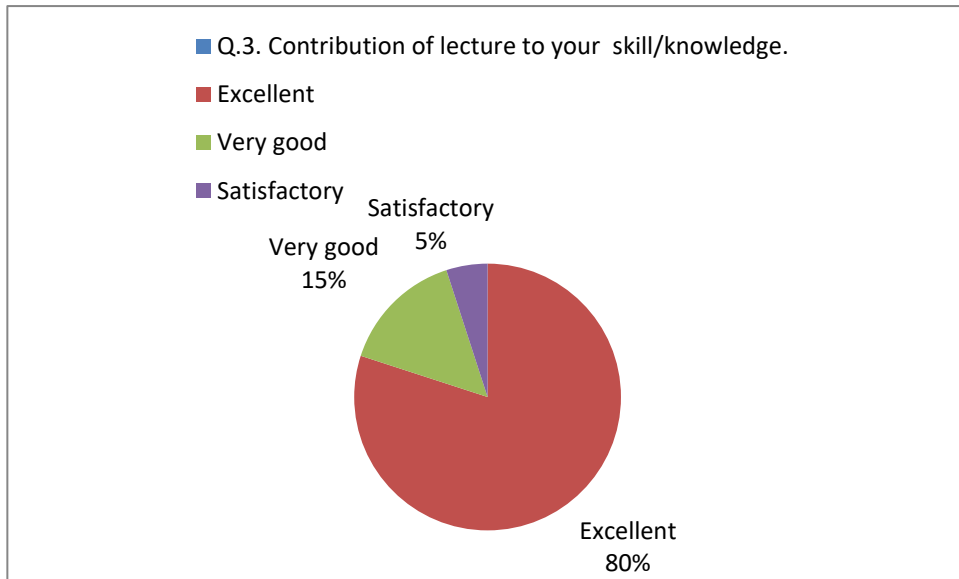


## Feedback (Online)



**Criterion 1**

**Certificate Programs**



## Criterion 1

## Certificate Programs

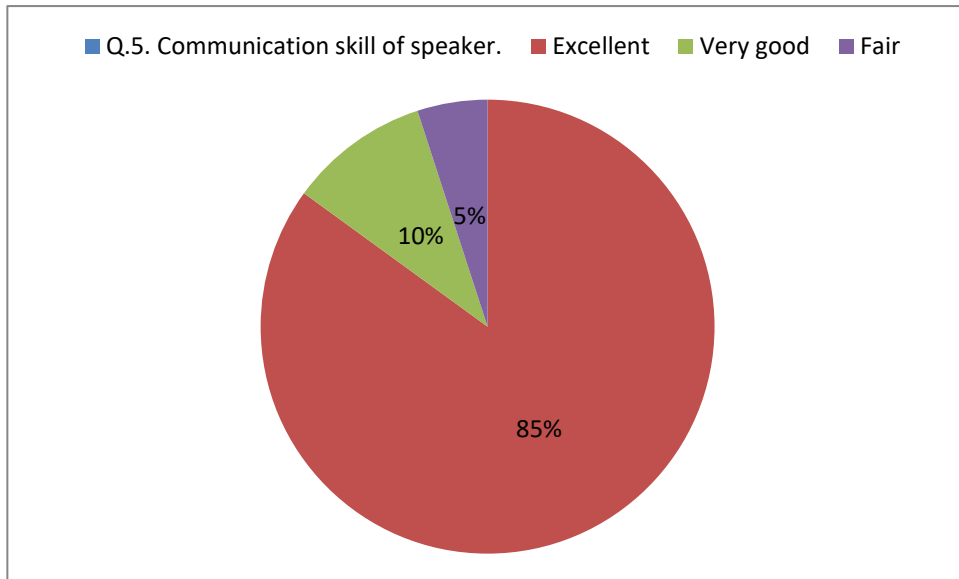


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**A**  
**Certificate Course**  
**On**  
**An Introduction to**  
**Intellectual Property Rights**  
**for Engineers in India**  
**Report**

**Venue: CCET, Bhilai**

**Date: 01/02/2023 to 21/02/2023**

**Name of Resource Person:**

**Dr. Radheshyam H. Gajghat**

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## **NOTICE**

Date: 27/01/2023

All the faculty members and non teaching staff of the department are requested to attend departmental meeting on date: 30/01/2023, Time: 1:00 p.m.  
Venue: HOD Cabin.

### **AGENDA OF THE MEETING:**

1. Finalization of Certificate Course.
2. In-house (in case of availability of expert) / external guest faculty or Agency, Number of hours/days, Venue and Eligibility of Participants.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## MINUTES OF MEETING

A departmental meeting of teaching and non teaching staff with HOD was held on date: 30/01/2023, Time: 01:00 p.m. Venue: HOD Cabin. Discussion on following points has been done.

22. It has been decided that a Certificate Course on **An Introduction to Intellectual Property Rights for Engineers in India** will be conducted from **01/02/2023 to 21/02/2023** for 30 hours.
23. Students of BTech **2<sup>nd</sup> and 4<sup>rd</sup> year** studying in Mechanical Engineering are eligible to attend the course.
24. The title of the course will be **An Introduction to Intellectual Property Rights for Engineers in India**
25. Dr. Radheshyam H. Gajghat, Professor, Dept. of Mech. Engg., CCET, Bhilai will be conducting the classes.
26. The course conducted will be free of cost
27. The course will be conducted for 2 hours every day after regular classes
28. Venue for the course is Computer Lab.

**HOD**

**Department of Mechanical Engineering**

### **COPY TO:**

1. Principal
2. All Faculty members
3. IQAC Coordinator

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## Circular

**Date: 31/01/2023**

All the students of B.E. 2<sup>nd</sup> & 3<sup>rd</sup> year are hereby informed that we are planning to conduct a certificate course on **An Introduction to Intellectual Property Rights for Engineers in India** for 2 hours per day from **01/02/2023 to 21/02/2023** for total 30 hours. No fee will be charged for the same. Students willing to participate register your names to respective Class In-charges earliest by 01/02/2023.

**HOD**

**Department of Mechanical Engineering**

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## Course Objective:

The primary objective of the course "An Introduction to Intellectual Property Rights for Engineers in India" is to provide participants with a comprehensive understanding of the different types of intellectual property rights and their importance in protecting innovation and creativity. The course will cover the basics of patents, trademarks, copyrights, and trade secrets, and provide participants with the knowledge to identify and protect their own intellectual property. The course will also cover the licensing and enforcement of intellectual property rights, including dispute resolution mechanisms. Through a combination of lectures, case studies, and group discussions, participants will gain a deeper understanding of the intellectual property landscape in India and learn how to navigate the legal and regulatory requirements for protecting their intellectual property.

The course is specifically designed for engineers and other technical professionals who want to enhance their knowledge of intellectual property rights and their implications for innovation and creativity. By the end of the course, participants will have a clear understanding of the different types of intellectual property rights, the process of applying for patents, the importance of trademarks and copyrights, and the basics of IP licensing and enforcement in India. They will also gain practical knowledge through case studies and group discussions, which will enable them to apply the concepts learned in the course to real-world scenarios. This course will not only provide participants with a competitive advantage in the job market but will also equip them with the knowledge and tools to protect their intellectual property and contribute to the growth and development of the engineering sector in India.

**Detail of Resource Person:** Dr. Radheshyam H. Gajghat, Professor, Dept. of Mech. Engg., CCET, Bhilai

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## **Target Audience:**

- Engineering Students of 2<sup>nd</sup> & 4<sup>th</sup>, year (Mech Branch)

## **Course Syllabus:**

An Introduction to Intellectual Property Rights for Engineers in India

Module 1: Introduction to Intellectual Property Rights

- Definition and Importance of Intellectual Property Rights
- Different Types of Intellectual Property Rights
- Intellectual Property Rights in India

Module 2: Patents

- Definition and Types of Patents
- Patentable Subject Matter
- Patent Filing Process in India

Module 3: Trademarks

- Definition and Importance of Trademarks
- Types of Trademarks
- Trademark Filing Process in India

Module 4: Copyrights

- Definition and Importance of Copyrights
- Types of Copyrightable Works
- Copyright Filing Process in India

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#### Module 5: Trade Secrets

- Definition and Importance of Trade Secrets
- Trade Secret Protection in India

#### Module 6: Licensing and Enforcement

- Licensing of Intellectual Property
- Enforcement of Intellectual Property Rights
- Dispute Resolution Mechanisms

#### Module 7: Case Studies

- Case Studies on Intellectual Property Rights in India

#### Module 8: Conclusion

- Summary of the Course
- Importance of Intellectual Property Rights for Engineers

### **Course Outcomes:**

Identify different types of Intellectual Properties (IPs), the right of ownership, scope of protection as well as the ways to create and to extract value from IP. Recognize the crucial role of IP in organizations of different industrial sectors for the purposes of product and technology development.

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## Enrolment List

S. No.	Roll No.	Name	Semester
1	1	DINESH KUMAR YADAV	4 <sup>th</sup>
2	2	SHREYANSH EKKA	4 <sup>th</sup>
3	3	ATUL HIRWANI	4 <sup>th</sup>
4	4	BHUPENDRA KUMAR SEN	4 <sup>th</sup>
5	5	PRASHANT YADAV	4 <sup>th</sup>
6	6	AMAN UIKEY	4 <sup>th</sup>
7	7	ALAKH NIRANJAN	4 <sup>th</sup>
8	8	ANKUSH KUMAR	4 <sup>th</sup>
9	9	AMIT SAHU	4 <sup>th</sup>
10	10	POONAM	4 <sup>th</sup>
11	11	SNEHA MOTWANI	4 <sup>th</sup>
12	12	DHEERAJ KUMAR SORI	4 <sup>th</sup>
13	13	MOHAMMAD SHAHNAWAZ	4 <sup>th</sup>
14	14	HOMESH KUMAR SAO	4 <sup>th</sup>
15	15	HIMANSHU KURWE	4 <sup>th</sup>
16	16	MANISH KUMAR	4 <sup>th</sup>
17	17	ALTAF HUSSAIN	4 <sup>th</sup>
18	18	YUVRAJ KUMAR	4 <sup>th</sup>
19	1	VIKKY KUMAR	6 <sup>th</sup>
20	2	BUBULU KUMAR	6 <sup>th</sup>
21	3	SHIVAM PRASAD	6 <sup>th</sup>

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<b>S. No.</b>	<b>Roll No.</b>	<b>Name</b>	<b>Semester</b>
22	4	MAYUR YADAV	6 <sup>th</sup>
23	5	ROBIN ROY	6 <sup>th</sup>
24	6	ROHAN SINHA	6 <sup>th</sup>
25	7	MANOHAR KUMAR	6 <sup>th</sup>
26	8	D JOHN VICTOR	6 <sup>th</sup>
27	9	RAJESH KUMAR SHRIVASTAVA	6 <sup>th</sup>
28	10	ASHISH PRASAD ARYA	6 <sup>th</sup>
29	11	HIMANSHU SAHU	6 <sup>th</sup>
30	12	HARSHAD	6 <sup>th</sup>
31	13	G RAMU	6 <sup>th</sup>

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## Attendance List



Christian College of Engineering and  
Technology, Bhilai

### Attendance List

S. No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Signature
1	DINESH KUMAR YADAV	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Dinesh
2	SHREYANSH EKKA	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Shreyansh
3	ATUL HIRWANI	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	Atul
4	BHUPENDRA KUMAR SEN	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	Bhupendra Sen
5	PRASHANT YADAV	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P. Yadav
6	AMAN UIKEY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Aman
7	ALAKH NIRANJAN	P	P	A	A	P	P	P	P	A	P	P	P	P	P	P	Alakh
8	ANKUSH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Ankush
9	AMIT SAHU	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	Amit
10	POONAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Poonam
11	SNEHA MOTWANI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sneha
12	DHEERAJ KUMAR SORI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Dheeraj
13	MOHAMMAD SHAHNAWAZ	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Mohammad
14	HOMESH KUMAR SAO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Homesh
15	HIMANSHU KURWE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Himanshu
16	MANISH KUMAR	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Manish
17	ALTAF HUSSAIN	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	Altaf
18	YUVRAJ KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Yuvraj

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## Christian College of Engineering and Technology, Bhilai

B. No	Name	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11	Day12	Day13	Day14	Day15	Signature
19	VIKKY KUMAR	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Vicky Kumar
20	BUBULU KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	Bubulu
21	SHIVAM PRASAD	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	Shivam
22	MAYUR YADAV	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Mayur
23	ROBIN ROY	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	Robin
24	ROHAN SINHA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Rohan
25	MANOHAR KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Manohar
26	D JOHN VICTOR	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	D John
27	RAJESH KUMAR SHRIVASTAVA	P	P	A	P	P	P	P	A	P	P	P	P	P	A	P	Rajesh
28	ASHISH PRASAD ARYA	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	Ashish
29	HIMANSHU SAHU	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	Himanshu
30	HARSHAD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Harshad
31	G RAMU	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	G Ramu

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## **Report On a Certificate Course on “An Introduction to Intellectual Property Rights for Engineers in India”**

A Certificate Course on “An Introduction to Intellectual Property Rights for Engineers in India” for 30 hours was arranged for the students of B.E. 2<sup>nd</sup> & 4<sup>th</sup> year from **01/02/2023 to 21/01/2023** at Room no B-103 total of 31 students enrolled themselves for the course and participated in the program. The sessions were conducted by Dr. Radheshyam H. Gajghat, **Professor, CCET Bhilai**. The main objective of the course was aimed to provide participants with a comprehensive understanding of intellectual property rights and their importance in protecting innovation and creativity. The course covered the basics of patents, trademarks, copyrights, and trade secrets, and provided participants with the knowledge to identify and protect their intellectual property. The course was specifically designed for engineers and other technical professionals who wanted to enhance their knowledge of intellectual property rights and their implications for innovation and creativity.

From the overall responses received from the students regarding the course, it has been analysed that a majority of students have recommended for similar type of Certificate Courses to be arranged as it was very useful to them. The participants showed a keen interest in the topic, and their active participation in group discussions and case study analysis demonstrated their understanding of the course content. The final assessment included a group presentation, and the participants performed well. They demonstrated a clear understanding of the different types of intellectual property rights, their importance, and the legal and regulatory requirements for protecting them in India.

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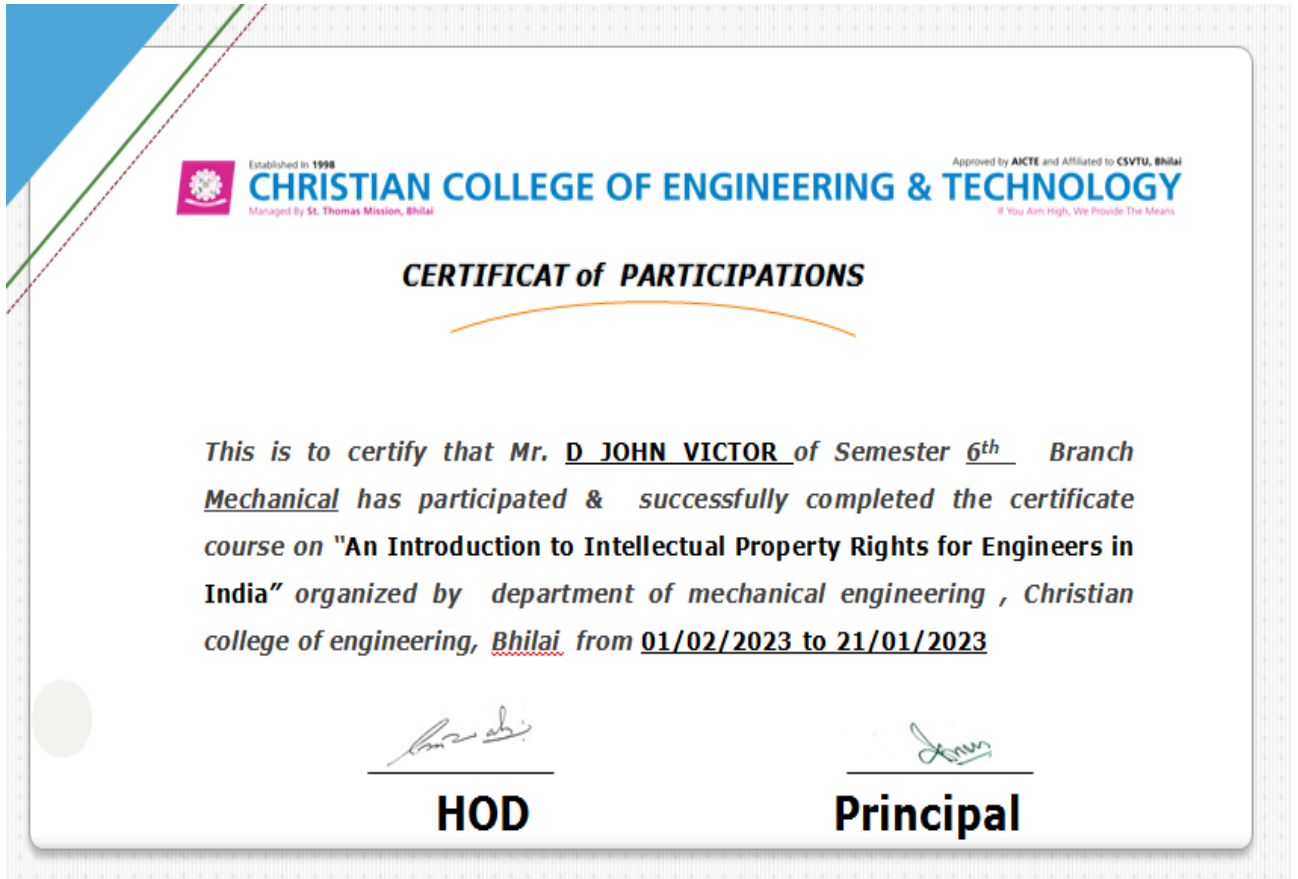
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## Sample of Certificate for Feedback Session

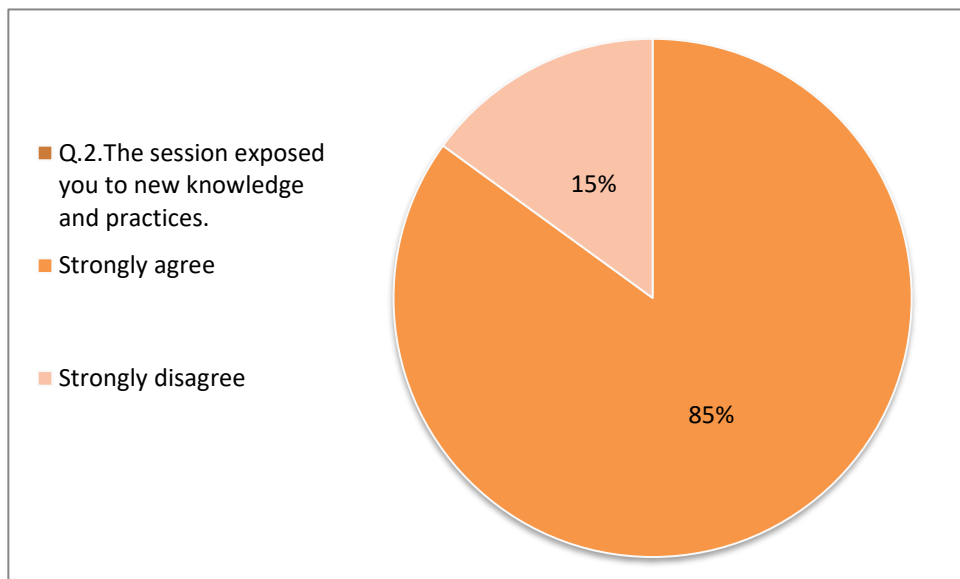
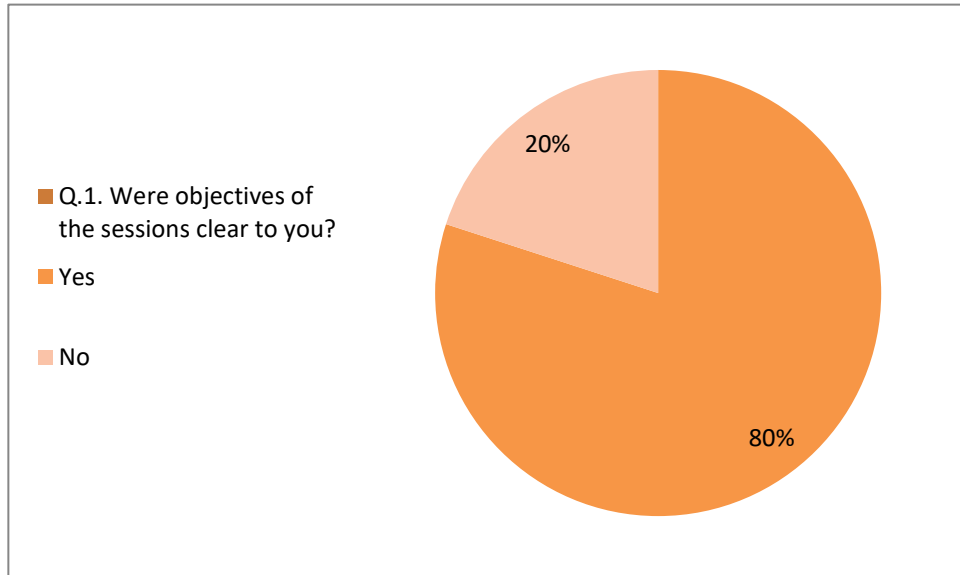


**Criterion 1**

**Certificate Programs**

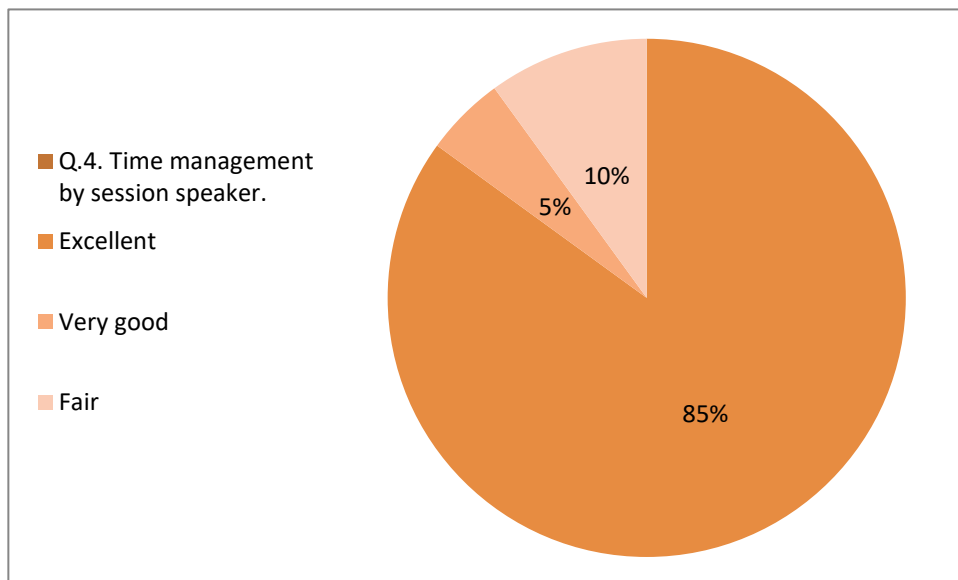
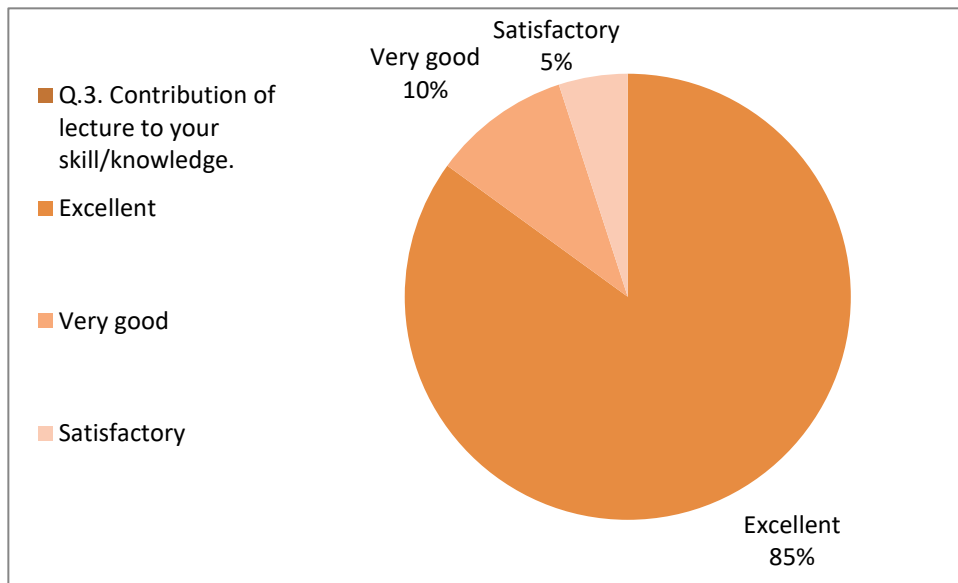


## Feedback (Online)



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**Certificate Programs**



## Criterion 1

## Certificate Programs

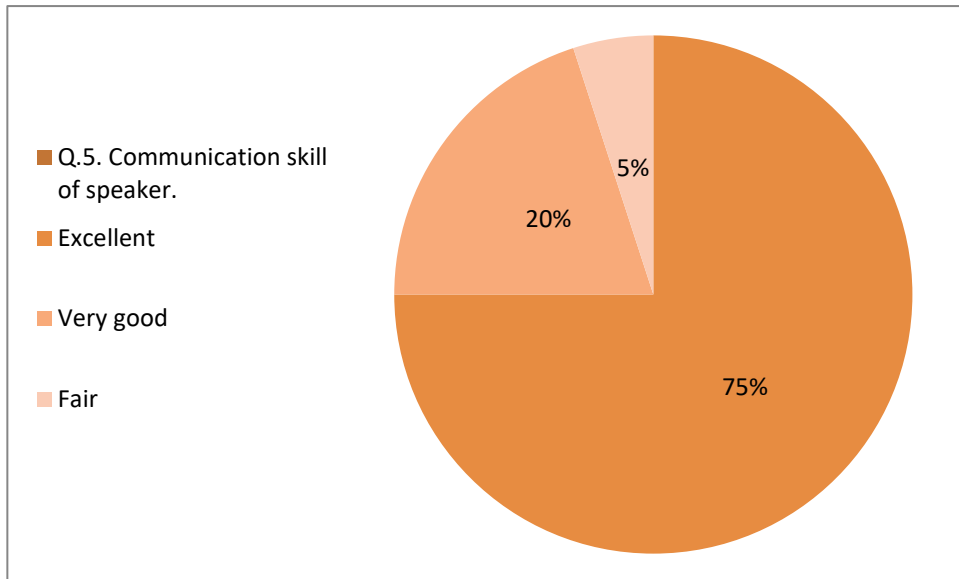


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