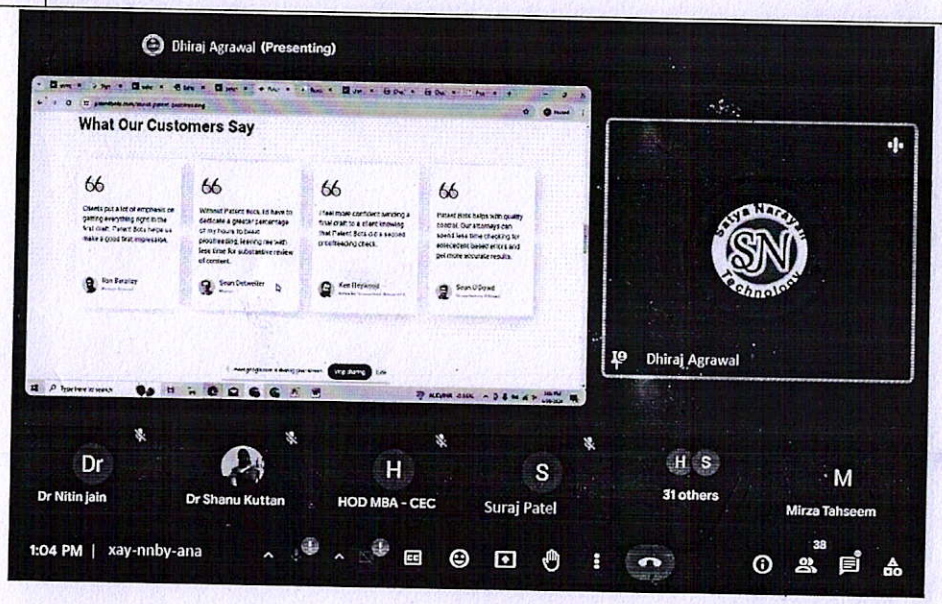
Session 2020-2021

REPORT

Title	Learn to Program: The Fundamentals (Python)
Name of the activity	Add on course
Date	22/02/2021 to 27/02/2021
Venue	Upper Auditorium Chouksey Engineering College
Organized by	Department of Computer Science and Engineering
Resource person	DhirajAgarwal Persistence Academy
Participated by	114 students
Program Objective	The course is designed to provide Basic knowledge of Python. Python programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language.
Program outcome	Problem solving and programming capability



Students during Add on courses on Learn to Program: The Fundamentals (Python) from 22/02/2021 to 27/02/2021

Course Coordinator

PRINCIPAL
CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

Head of Department

Session 2020-2021

REPORT

Title	Advanced Development using PHP
Name of the activity	Add on course
Date	28/09/2020 to 3/10/2020
Venue	Upper AuditoriumChouksey Engineering College
Organized by	Department of Computer Science and Engineering
Resource person	Shanu K RakeshChouksey Engineering College
Participated by	121 students
Program Objective	To introduce the importance of PHP in web page design. To understand the features like functions forms in PHP. To understand Files, OOPs concepts, Cookies, Sessions and Data base. To handle requests and draw images on the server with AJAX.
Program outcome	Utilizing the basic concept of statements and arrays. Implement functions and browser handling power of PHP. Imparting Database applications, File handling, Cookies in the webpage. Design and Implement Interactive Web Site using Forms, OOPS and AJAX. Create easy communication with the servers using AJAX, Drawing images on server.

Students during Add on courses on Advanced Development using PHP from 28/09/2020 to 3/10/2020

Course Coordinator

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CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

Head of Department

Session 2020-21

Report

Title	"Study On Engineering Design Optimization"
Name of the Activity	Add on Course
Date	08/09/2020 to 12/09/2020
vanue	MF-9 ,EMEC Building, CEC Bilaspur (CG)
Organized by	Department of Mechanical Engineering
Resourse Person	Dr. G. K. Agrawal ,Associate Professor, Gec Bilaspur
Participated by	90
Program Objective	• The objective of the study on "Engineering Design Optimization" is to explore and apply advanced techniques and methodologies in optimizing engineering designs. • The program aims to equip participants with theoretical knowledge and practical skills necessary to enhance the efficiency, performance, and sustainability of engineering products, systems, and processes through systematic optimization approaches.
Program Outcome	By the end of this study, participants will be able to: 1. **Understand Fundamentals of Engineering Design Optimization:** o Define the concept of engineering design optimization and its significance in improving product performance and efficiency. o Identify different types of optimization problems encountered in engineering design. 2. **Apply Optimization Techniques:** o Utilize mathematical modeling and simulation tools to formulate and solve engineering optimization problems. o Implement optimization algorithms such as linear programming, genetic algorithms, simulated annealing, or particle swarm optimization.

Participants during Add on Course on "Study On Engineering Design Optimization" from 08/09/2020 to 12/09/2020

Course Coordinator

PRINCIPAL
CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

Head of Department

• Approved By : All India Council for Technical Education, New Delhi
• Recognised By : Directorate of Technical Education, Raipur (C.G.)
• Affiliated To : Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.)

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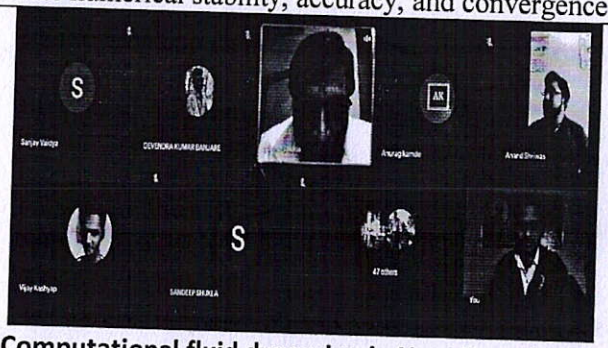
Session 2020-21

Report

Title	**"Study of Computational fluid dynamics in Heat Transfer modes"**
Name of the Activity	**Add on Course**
Date	**04/04/2021 to 09/04/2021**
venue	**MF-10 ,EMEC Building, CEC Bilaspur (CG)**
Organized by	**Department of Mechanical Engineering**
Resourse Person	**Dr. Mukesh Singh MNNIT Allahabad**
Participated by	**88**
Program Objective	• The objective of the study on "Computational Fluid Dynamics in Heat Transfer Modes" is to explore the application of Computational Fluid Dynamics (CFD) techniques in analyzing and optimizing heat transfer processes. • The program aims to provide participants with theoretical insights and practical skills necessary to simulate and predict heat transfer phenomena using advanced CFD methods, fostering innovation and efficiency in thermal management and engineering applications.
Program Outcome	By the end of this study, participants will be able to: 1.**Understand Fundamentals of Computational Fluid Dynamics (CFD):** Explain the role of CFD in simulating and analyzing heat transfer modes such as conduction, convection, and radiation. **2 Model Heat Transfer Phenomena:** Develop CFD models to simulate heat transfer processes in various engineering systems and components. **3 Apply Numerical Methods in CFD:** Implement numerical methods (finite difference, finite volume, finite element) to discretize governing equations for CFD simulations. Evaluate numerical stability, accuracy, and convergence of CFD simulations.



Students during **"Study of Computational fluid dynamics in Heat Transfer modes" from 04/04/2021 to 09/04/2021**

Course Coordinator

Website: www.cecbsp.in

PRINCIPAL
CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

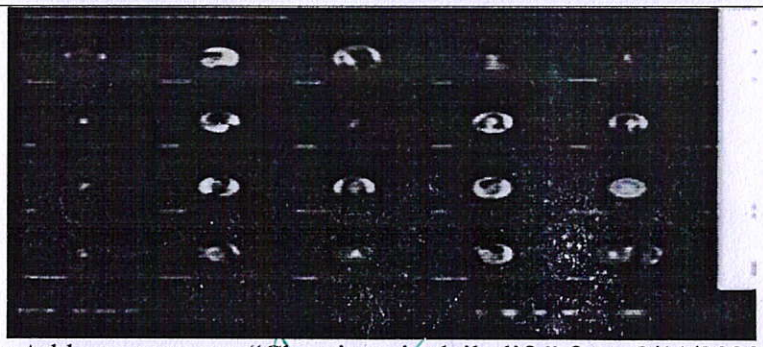
Head of Department

Lal Khadan, Mastori Road, NH-49, Bilaspur, Chhattisgarh

Session 2020-21

REPORT

Title	Chemistry in daily life
Name of the activity	Add on course
Date	9/11/2020 to 19/11/2020
Venue	AUDITORIUM MAIN BUILDING, Chouksey Engineering College
Organized by	Department of Chemistry
Resource person	Prof(Dr.) Reena Nashine Professor, Chouksey Engineering College
Participated by	57 students
Program Objective	• Students will have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Analytical, Inorganic, Organic and Physical Chemistries. Majors to be certified by the American Chemical Society will have extensive laboratory work and knowledge of Biological Chemistry. • Students will be able to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments.
Program outcome	• Students will appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicine.



Students during Add on course on "Chemistry in daily life" from 9/11/2020 to 19/11/2020

Course Coordinator

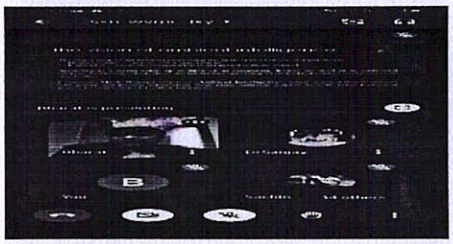
CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

Head of Department

Session 2020-21

REPORT

Title	Add on course on IOT
Name of the activity	Add on course
Date	21/10/2020 to 31/10/2020
Venue	Online Mode: Google Meet
Organized by	Department of Electronics & Telecommunication Engineering
Resource person	Prof Amit Kumar Pandey Assistant Professor, Chouksey Engineering College
Participated by	38 students
Program Objective	1)Students will be explored to the interconnection & integration of the physical world & cyber space 2) Students will also able to develop & design IOT devices.
Program outcome	1)Able to understand the application areas of IOT. 2) Able to understand building blocks of IOT



Students during Add on course on IOT from 21/10/2020 to 31/10/2020

Course Coordinator

Head of Department

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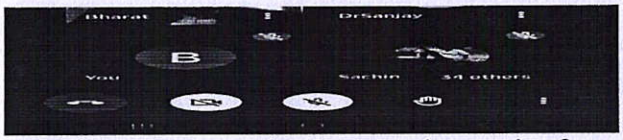
CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

Session 2020-21

REPORT

Title	Add on course on Cryptography & network security
Name of the activity	Add on course
Date	4/02/2021 to 15/02/2021
Venue	Online Mode: Google Meet
Organized by	Department of Electronics & Telecommunication Engineering
Resource person	Prof Sachin Meshram Assistant Professor, Chouksey Engineering College
Participated by	38 students
Program Objective	1) To make the student learn different encryption techniques 2)Give knowledge of hash functions, MAC, digital signatures and their use in various protocols
Program outcome	1) Understand cryptography basics, algorithms and mathematical background for cryptography 2) Analyze the important cryptographic algorithms.



Students during add on course on cryptography & network security from 4/2/2021 to 15/02/2021

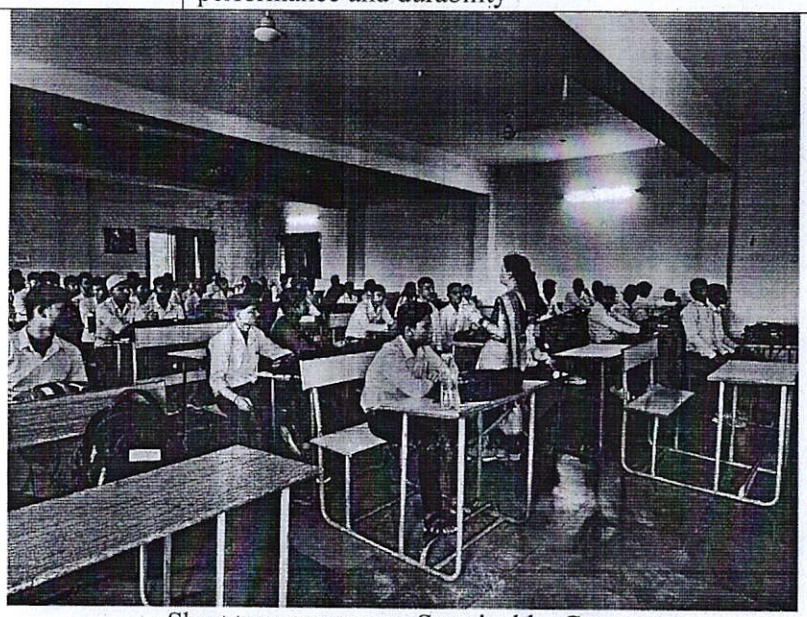
Course Coordinator

Head of Department

PRINCIPAL
CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

Session 2020-21
REPORT

Title	Sustainable Concrete Construction
Nameoftheactivity	Short term course
Date	15/03/2021to20/03/2021
Venue	MF-10,EMEC,Building
Organizedby	Department of Civil Engineering
Resourceperson	Dr.Shubhlakshmi Tiwari
Participatedby	105students
ProgramObjective	Comprehensive understanding of sustainable concrete construction practices, technologies, and their applications in real-world projects..
Programoutcome	They will be equipped to contribute to the construction industry by advocating for and implementing sustainable concrete solutions that minimize environmental impact while enhancing performance and durability



Short term course on Sustainable Concrete Construction from 15/03/2021 to 20/03/2021

Course Coordinator

Head of Department

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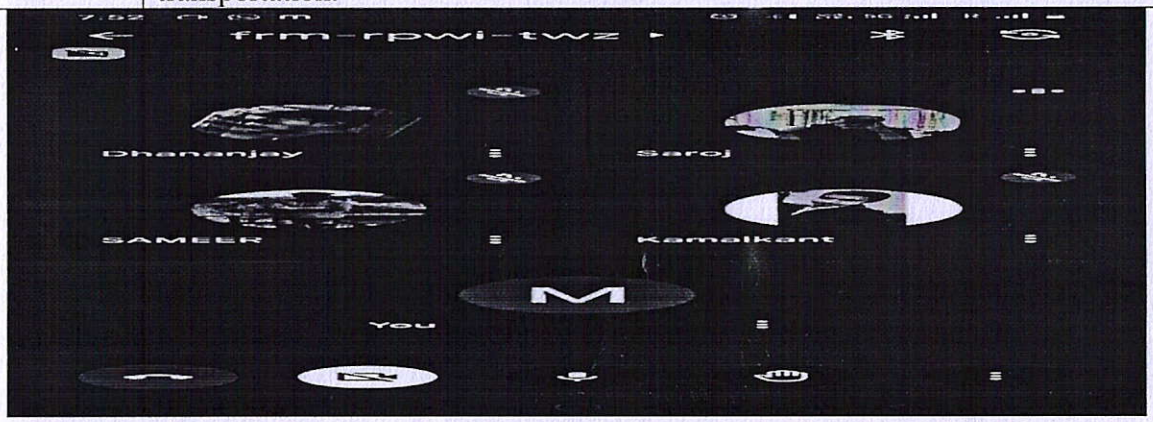
CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)

Session 2020-21

REPORT

Title	**Electric Drive: Navigating the World of EVs**
Name of the activity	Value Added course
Date	23/11/2020 to 3/12/2020
Venue	MS-6, EMEC Building, Chouksey Engineering College
Organized by	Department of Electrical & Electronics Engineering
Resource person	Dr Ankita Dwivedi, Assistant Professor, Chouksey Engineering College
Participated by	67 students
Program Objective	To equip participants with comprehensive knowledge and practical skills necessary to understand, operate, maintain, and advance in the field of electric vehicles (EVs). This program aims to delve into the foundational principles of EV technology, including electric drive trains, battery systems, charging infrastructure, and regulatory frameworks.
Program outcome	By the end of the course, participants will gain a deep understanding of the environmental benefits, economic considerations, and technological advancements driving the adoption of EVs globally. They will be prepared to navigate the complexities of EVs confidently, whether as consumers, technicians, engineers, or policymakers in the evolving landscape of sustainable transportation."



Attendees during "Electric Drive: Navigating the World of EVs" from 23/11/2020 to 3/12/2020

Course Coordinator

Head of Department

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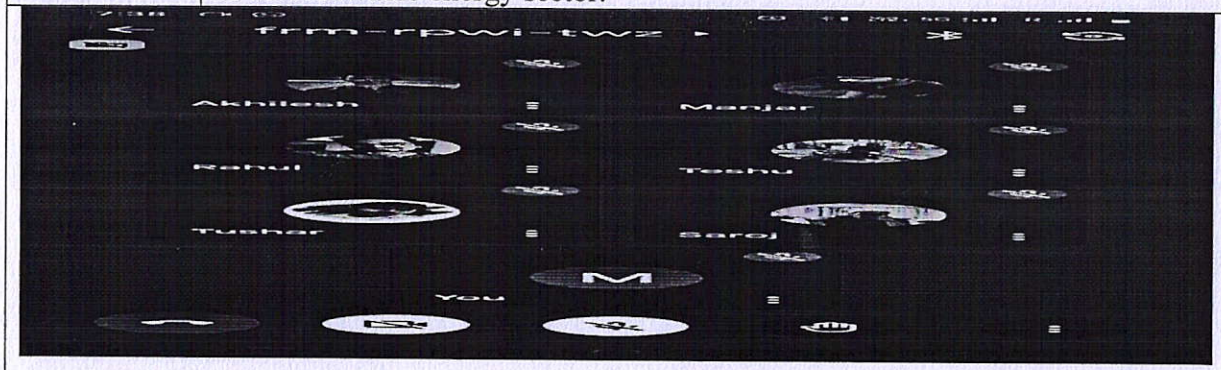
Session 2020-21

REPORT

Title	**AI-Driven Renewable Energy Integration**
Name of the activity	Add on course
Date	5/04/2021 to 15/04/2021
Venue	MS-10,EMEC Building, Chouksey Engineering College
Organized by	Department of Electrical & Electronics Engineering
Resource person	Prof Mohini Moitra, Assistant Professor, Chouksey Engineering College
Participated by	45 students
Program Objective	To equip students with advanced AI techniques to optimize the integration and management of renewable energy sources, enhance energy efficiency, and ensure grid stability and reliability. Graduates will be prepared to address industry challenges, apply ethical practices, and contribute to sustainable energy transitions globally.
Program outcome	Upon completing the AI-Driven Renewable Energy Integration program, students will be proficient in applying AI techniques to optimize renewable energy integration, enhance energy efficiency, and ensure grid stability. They will demonstrate the ability to employ AI-driven forecasting and analytics, contributing to sustainable energy solutions and addressing complex challenges in the renewable energy sector.



Students during "AI-Driven Renewable Energy Integration" from 5/04/2021 to 15/04/2021

Mohini Moitra
Course Coordinator

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Ankita
Head of Department