Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Report

on

Add-on Course

"Fundamentals of SAP"

Organized By: Department of Computer Science and Engineering

(2021-2022)

Dates from: 03-01-2022 to 08-01-2022

(06 Days, 05 Hrs per day, total 30 Hrs.)

(Timing: 10:00 am to 1:00 pm & 2:30 pm to 4:30 pm)

Sr.No	Course Coordinator	Resource person
1	Prof.Vijaya Kamble Assistant Professor Department of CSE, GNIET, Nagpur	Mr.Tekhnath Bera IT Consultant, Magnify 360,Nagpur

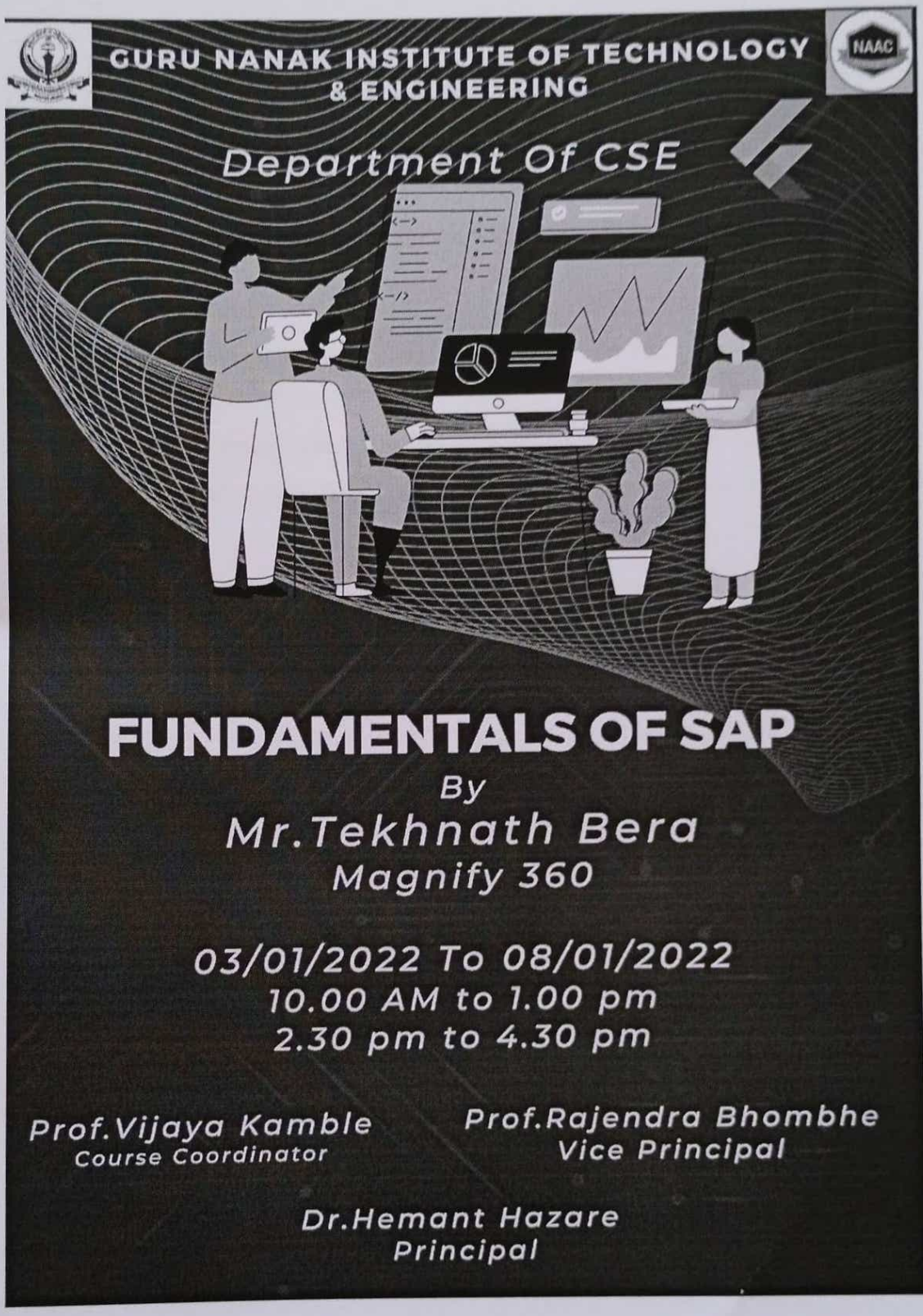
Report Prepared by:

Prof. Vijaya Kamble

Submitted to

IQAC, GNIET, NAGPUR

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501



Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

PO-12	Life-long learning	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY
Dahegaon, Kalmeshwar Road, Nagpur-441 501
(NAAC Accredited)

Department of Computer Science & Engineering

GNIET."CSE."21-22/.' Date-03/08/2021

-:Notice:-

As per the guidelines of higher authorities and IQAC cell, Department of Computer Science and Engineering is organizing 30 hrs. (One week) add on course "Fundamentals of SAP" from date 03-01-2022 to 08-01-2022. Timing for the classes and Hands on will be 10:00 inn to 1:00 pm & 2:30 pm to 4:30 pm. (05 hours per day; total hours 30 Hrs). All the students of 8th semesters having a good attendance record in current as well iis previous semester are eligible to participate. All the interested students are requested to register their names to Department Head before date of commencement of course. The Add-on course is fully free of cost

HOD, CSE
Computer Science & Engineering
GNIET, Dahegaon, Nagpur

Copy to:
1. Hon. Chairperson (For Information)
2. Principal GNIET
3. Vice-Principal GNIET
4. Notice board & Office copy.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Brief Report On

Add-on Course: Fundamentals of SAP

A Add-on course on Fundamentals of SAP, was organized by **Department of Computer Science and Engineering** for Students of B.E. 8th (CBS). The Add-on course was organized for the period of 30 hours starting from date: **03-01-2022 to 08-01-2022.** Timing for the classes and Hands on was 10:00 am to 1:00 pm & 2:30 pm to 4:30 pm. 05 hours per day (Total Course hours = 30 Hrs). The Add-on course was fully free of cost. Total 62 students have participated and completed Add-on course successfully. The resource person for the course was **Mr.Tekhnath Bera, 9403112946.**

Course Objective and Outcomes:

Course This course provides an introduction to SAP, one of the leading enterprise software solutions in the world. Students will gain a foundational understanding of SAP's architecture, modules, and functionalities, preparing them for further exploration or careers in SAP consulting, development, or administration.

- Understand the basics of SAP and its importance in modern business operations.
- Explore the various modules of SAP and their respective functionalities.
- Learn about SAP's architecture and how data flows within the system.
- Gain hands-on experience with SAP through practical exercises and simulations.
- Develop critical thinking skills to analyze business processes and identify areas where SAP can be implemented effectively.

Course Outcomes:

After completion of the course students will be able to;

CO-1 Overview of SAP: History, evolution, and market presence. Importance of SAP in modern businesses. Common SAP solutions and products.

CO-2 Overview of major SAP modules:SAP ERP (Enterprise Resource Planning)

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

SAP CRM (Customer Relationship Management),SAP SCM (Supply Chain Management)

SAP SRM (Supplier Relationship Management),SAP HCM (Human Capital Management)

SAP BI/BW (Business Intelligence/Business Warehouse),Explanation of each module's functionalities and typical use cases.

CO-3 User management: User creation, roles, and authorizations. Navigation within SAP: SAP GUI, Web-based interfaces. Basic transactions and reporting.

CO-4 Setting up a basic SAP environment (e.g., SAP IDES system). Navigating through SAP screens and menus. Performing basic transactions (e.g., creating sales orders, processing invoices).

CO-5 Emerging trends in SAP: Cloud-based solutions, SAP S/4HANA, etc. Career paths in SAP: Consultant, Developer, Administrator, etc. Certification options and further learning resources.

Course Mapping with POs and PSOs:

PO & PSO->	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	2	2	1	1	0	1	1	0	2	3	0	2	2	2
CO-2	2	3	2	3	0	1	0	0	2	2	0	2	3	2
CO-3	2	3	2	3	3	1	0	0	3	2	0	2	3	2
CO-4	2	1	3	3	0	3	3	3	2	3	3	2	2	3
CO-5	2	2	3	2	3	3	3	3	3	3	3	2	2	3
Avg POs	2	2.2	2.2	2.4	1.2	1.8	1.4	1.2	2.4	2.6	1.2	2	2.4	2.4
% PO/PSO attainment	66.7%	73.3%	73.3%	80.0%	40.0%	60.0%	46.7%	40.0%	80.0%	86.7%	40.0%	66.7%	80.0%	80.0%

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Course content:

1. Introduction to SAP

- Overview of SAP: History, evolution, and market presence.
- Importance of SAP in modern businesses.
- Common SAP solutions and products.

2. SAP Modules

Overview of major SAP modules:

- SAP ERP (Enterprise Resource Planning)
- SAP CRM (Customer Relationship Management)
- SAP SCM (Supply Chain Management)
- SAP SRM (Supplier Relationship Management)
- SAP HCM (Human Capital Management)
- SAP BI/BW (Business Intelligence/Business Warehouse)
- Explanation of each module's functionalities and typical use cases.

3. SAP Architecture

- Client/Server architecture of SAP.
- Three-tier architecture: Presentation, Application, and Database layers.
- Communication protocols and data flow within SAP.

4. Basic SAP Operations

- User management: User creation, roles, and authorizations.
- Navigation within SAP: SAP GUI, Web-based interfaces.
- Basic transactions and reporting.

5. Hands-on Exercises

- Setting up a basic SAP environment (e.g., SAP IDES system).
- Navigating through SAP screens and menus.
- Performing basic transactions (e.g., creating sales orders, processing invoices).

6. Integration and Customization

- Integration of SAP with other systems and applications.
- Basics of SAP customization: Configuration vs. customization.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

- Introduction to SAP development: ABAP (Advanced Business Application Programming).

7. Case Studies and Real-world Applications

- Analysis of real-world business scenarios where SAP implementation has been successful.
- Discussion of challenges and best practices in SAP implementation projects.

8. Future Trends and Career Opportunities

- Emerging trends in SAP: Cloud-based solutions, SAP S/4HANA, etc.
- Career paths in SAP: Consultant, Developer, Administrator, etc.
- Certification options and further learning resources.

Daily Schedule:

From Date: 03-01-2022 to 08-01-2021

Day-1: 1. Introduction to SAP 2. SAP Modules

Day-2 SAP Architecture ,Basic SAP Operations

Day-3: : Hands-on Exercises

Day-4: Integration and Customization

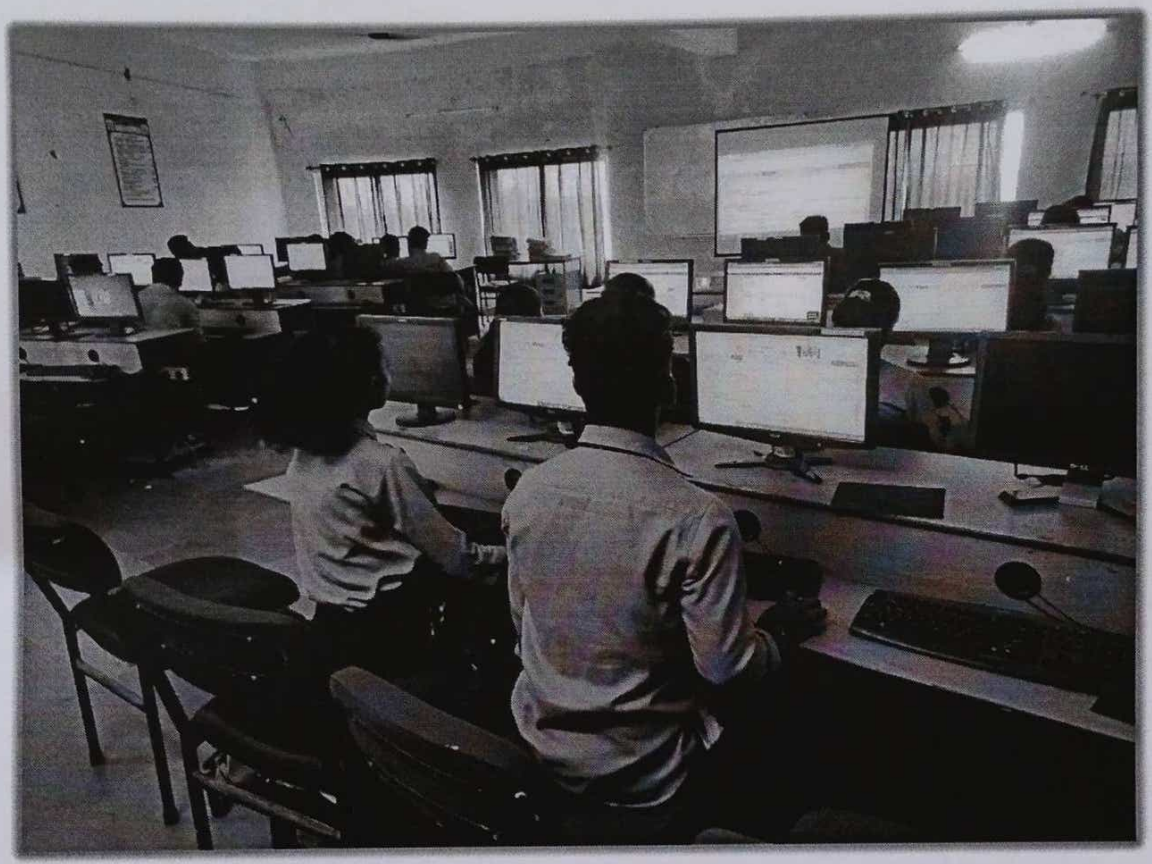
Day-5: Case Studies and Real-world Applications

Day-6: Future Trends and Career Opportunities

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Glimpses:

Add-on Course: Fundamentals of SAP- 03/01/2022



Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Students Feed Back:

From the overall responses received from the students at the end of the course, it has been observed that a majority of students are satisfied and have recommended for similar type of Add-on Courses to be arranged in future as it was very useful to them. Course material of Add-on course has been distributed to all participants.

Feedback on:
Add-on Course: Use of Artificial Intelligence

Google Feedback form Sample:

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Feedback on Certificate course

Dear participants,

We shall very much appreciate you if you fill up this feedback form. It will help us to improve the Institute further and give better engineers in future for the growth of the nation. Tick the number that best describes your level of satisfaction at each question: 1 - Poor , 2 - average , 3 - Good, 4 - Very Good, 5 - Excellent .

* Required

1. **What is your Branch? ***
Mark only one oval.
- ◯ CSE
- ◯ Other

2. **Name of Certificate Course ***

_____

3. **Has the teacher covered full Syllabus prescribed in Certificate Course? ***
Mark only one oval.
- ◯ YES
- ◯ No

4. **Are you satisfied with the content? ***
Mark only one oval.
- ◯ YES
- ◯ No

5. **How do you rate technical Content in syllabus?(5-Excellent, 4-Very Good, 3-Good, 2- Average, 1-Bellow Average): ***
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

6. **How do you rate technical knowledge of Teacher? ***
Mark only one oval.

1 2 3 4 5

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

NAAC ACCREDITED

CS
20

Report

on

Add-on Course

"Use of Artificial Intelligence"

Organized By: Department of Computer Science and Engineering

(2021-2022)

Dates from: 09-08-2021 to 14-08-2021

(06 Days, 05 Hrs per day, total 30 Hrs.)

(Timing: 10:00 am to 1:00 pm & 2:30 pm to 4:30 pm)

Sr.No	Course Coordinator	Resource person
1	Prof.Kalpana Malpe Assistant Professor Department of CSE, GNIET, Nagpur	Mr.Avinash Dewade IT consultant, Prevoyance Technology, Nagpur

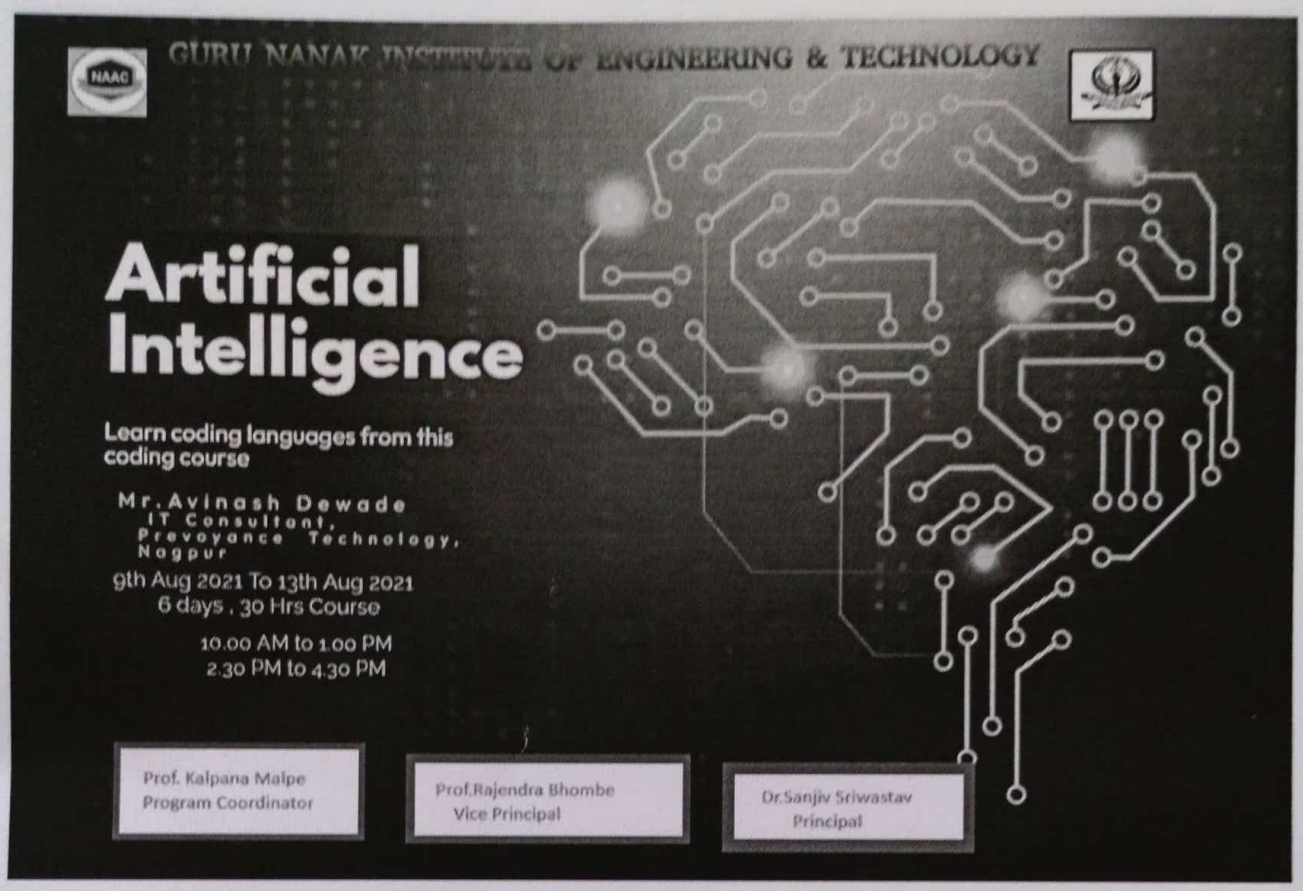
Report Prepared by:

Prof. Kalpana Malpe

Submitted to

IQAC, GNIET, NAGPUR

Principal
Guru Nanak Institute of Engineering & Technology Nagpur:- 441501



Principal
Guru Nanak Institute of Engineering &
Technology Nagpur- 441501

		effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO-11	**Project management and finance**	Demonstrateknowledgeandunderstandingoftheengineeringandmanagement principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO-12	**Life-long learning**	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY
Dahegaon, Kalmeshwar Road, Nagpur-441 501
(NAAC Accredited)

Department of Computer Science & Engineering

GNIET/CSE/21-22/

Date-02/08/2021

-:Notice:-

As per the guidelines of higher authorities and IQAC cell, Department of Computer Science and Engineering is organizing 30 hrs. (One week) add on course " Use of Artificial Intelligence" from date 09-08-2022 to 14-08-2022. Timing for the classes and Hands on will be 10:00 inn to 1:00 pm & 2:30 pm to 4:30 pm. (05 hours per day; total hours 30 Hrs). All the students of 3rd and 5th semesters having a good attendance record in current as well iis previous semester are eligible to participate. All the interested students are requested to register their names to Department Head before date of commencement of course. The Add-on course is fully free of cost

HOD, CSE
Computer Science & Engineering
GNIET Dahegaon, Nagpur

Copy to:

Principal
Guru Nanak Institute of Engineering & Technology Nagpur- 441501

Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Brief Report On

Add-on Course: Use of Artificial Intelligence

A Add-on course on **Use of Artificial Intelligence,** was organized by **Department of Computer Science and Engineering** for Students of B. Tech. 3rd (CBCS). The Add-on course was organized for the period of 30 hours starting from date: **09-08-2021 to 14-08-2021.** Timing for the classes and Hands on was 10:00 am to 1:00 pm & 2:30 pm to 4:30 pm. 05 hours per day (Total Course hours = 30 Hrs). The Add-on course was fully free of cost. Total **134** students have participated and completed Add-on course successfully. The resource person for the course was **Mr.Avinash Dewade, dew.avi@gmail.com , 9372762600.**

Course Objective and Outcomes:

Course Objectives Introduction: In an era defined by technological innovation, understanding Artificial Intelligence (AI) is no longer optional—it's imperative. Our latest course on the "Use of Artificial Intelligence" is designed to equip individuals with the knowledge and skills needed to thrive in an AI-driven world.

Course Highlights:

Duration: Flexible scheduling to accommodate busy lifestyles.

Format: Engaging online modules enriched with interactive exercises and real-world examples.

Audience: Professionals seeking to enhance their skill set, students eager to explore emerging technologies, and anyone curious about the potential of AI.

Curriculum:

- Introduction to AI fundamentals.
- Practical applications of Machine Learning and Deep Learning.
- Hands-on experience with cutting-edge tools and techniques.
- Ethical considerations and responsible AI deployment.
- Industry-specific case studies showcasing AI's impact across diverse sectors.

Principal
Guru Nanak Institute of Engineering & Technology Nagpur- 441501

Course Outcomes:

After completion of the course students will be able to;

CO-1 Comprehensive Understanding of AI Fundamentals-Gain a solid grasp of the fundamental principles, theories, and terminologies related to Artificial Intelligence.

CO-2 Proficiency in AI Techniques and Algorithms: Explore advanced AI concepts including reinforcement learning, generative adversarial networks (GANs), and transfer learning.

CO-3 Hands-On Experience with AI Tools and Technologies: Gain practical experience with industry-standard AI tools and frameworks such as TensorFlow, PyTorch, scikit-learn, and OpenCV.

CO-4 Design or create the solution that will be useful for the society with taking care of environmental and ethical issues.

CO-5 Ethical Considerations and Responsible AI Deployment: Understand the ethical implications of AI technologies and learn best practices for ensuring fairness, transparency, and accountability in AI systems.

Course Mapping with POs and PSOs:

PO & PSO->	PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO -1	PSO -2
CO-1	2	2	1	1	0	1	1	0	2	3	0	2	2	2
CO-2	2	3	2	3	0	1	0	0	2	2	0	2	3	2
CO-3	2	3	2	3	3	1	0	0	3	2	0	2	3	2
CO-4	2	1	3	3	0	3	3	3	2	3	3	2	2	3
CO-5	2	2	3	2	3	3	3	3	3	3	3	2	2	3

Principal
Guru Nanak Institute of Engineering & Technology Nagpur- 441501

1. Hon. Chairperson (For Information)
2. Principal GNIET
3. Vice-Principal GNIET
4. Notice board & Office copy.

Course content:

Module 1: Introduction to Artificial Intelligence
- Understanding Artificial Intelligence: History, Definition, and Evolution
- Theoretical Foundations of AI: Symbolic AI vs. Connectionist AI
- Applications and Impact of AI Across Various Industries

Module 2: Fundamentals of Machine Learning
- Introduction to Machine Learning: Supervised, Unsupervised, and Reinforcement Learning
- Data Preprocessing and Feature Engineering
- Common Machine Learning Algorithms: Linear Regression, Logistic Regression, Decision Trees, k-Nearest Neighbors (k-NN), Support Vector Machines (SVM), etc.
- Model Evaluation and Performance Metrics

Module 3: Deep Learning and Neural Networks
- Introduction to Deep Learning: Neural Networks Architecture and Components
- Feedforward Neural Networks and Backpropagation Algorithm
- Convolutional Neural Networks (CNNs) for Computer Vision Tasks
- Recurrent Neural Networks (RNNs) and Long Short-Term Memory (LSTM) Networks for Sequence Modeling

Module 4: Natural Language Processing (NLP)
- Introduction to Natural Language Processing: Challenges and Applications
- Text Preprocessing Techniques: Tokenization, Stopword Removal, Stemming, Lemmatization, etc.
- Sentiment Analysis, Named Entity Recognition (NER), and Text Classification
- Word Embeddings: Word2Vec, GloVe, and FastText

Module 5: Computer Vision
- Introduction to Computer Vision: Image Representation and Processing
- Image Classification, Object Detection, and Image Segmentation
- Deep Learning Models for Computer Vision: CNN Architectures (e.g., VGG, ResNet, Inception, etc.)
- Applications of Computer Vision in Autonomous Vehicles, Healthcare, Retail, and Security

Principal
Guru Nanak Institute of Engineering & Technology Nagpur- 441501

Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Daily Schedule:

From Date: 09-08-2021 to 14-08-2021

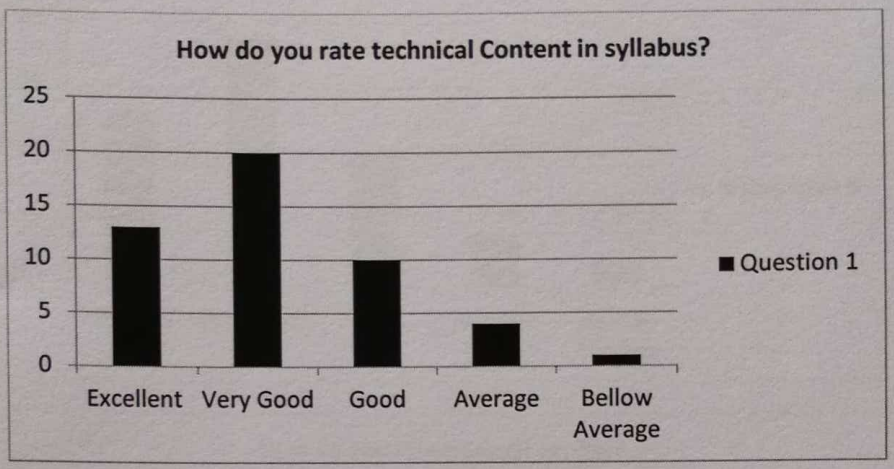
Day-1: Module 1: Introduction to Artificial Intelligence
Day-2 Module 2: Fundamentals of Machine Learning
Day-3: : Module 3: Deep Learning and Neural Networks
Day-4: Module 4: Natural Language Processing (NLP), Module 5: Computer Vision
Day-5: Module 6: Ethics and Responsible AI, Module 6: Ethics and Responsible AI
Day-6: Module 7: Industry Applications of AI, Module 8: Capstone Project

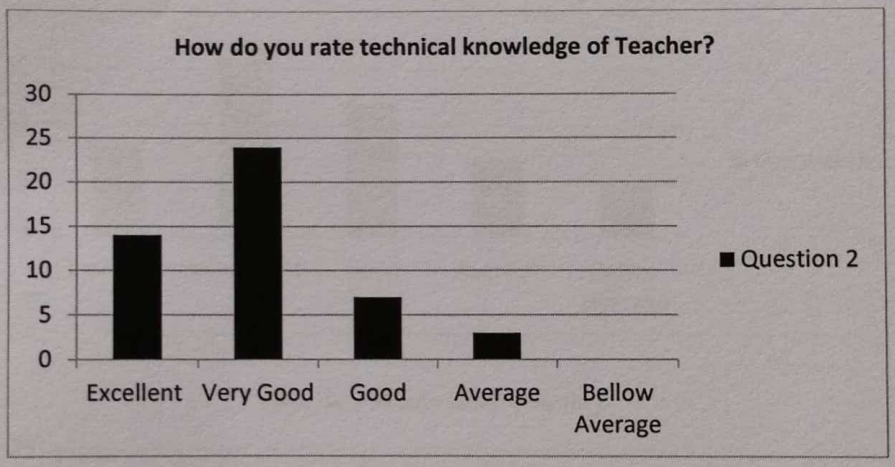
Glimpses:

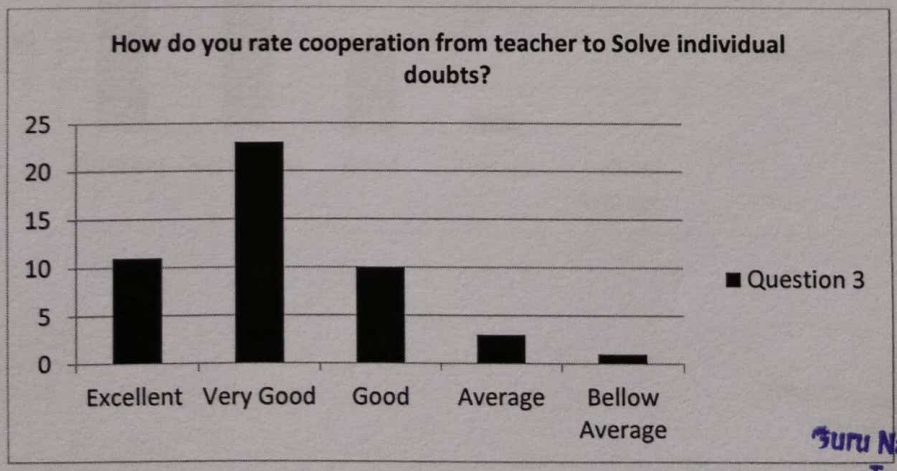
Add on course "Use of Artificial Intelligence" Date-09/08/2021

Principal
Guru Nanak Institute of Engineering & Technology Nagpur-441501

Feedback taken using Google form and analysis done on rating given







Principal
Guru Nanak Institute of Engineering & Technology Nagpur- 441501

Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

NAAC ACCREDITED

MCQ TEST ON
"USE OF ARTIFICIAL INTELLIGENCE"
Question Paper

Note: Attempt all 30 Questions. Each Question carry 01 Mark (MAX 30 Marks). Max Time – 01 Hr. Tick the correct answer. No negative marking.

GNIET: Department of CSE

Ad-On course on Use of Artificial Intelligence

Not shared

1.What is the primary goal of artificial intelligence (AI)?

To replicate human intelligence entirely

b) To create intelligent systems that can perform tasks autonomously

c) To simulate emotions and consciousness in machines

d) To develop robots with human-like physical appearance

2.Which of the following is NOT a type of machine learning?

a) Supervised learning

b) Unsupervised learning

c) Reinforcement learning

d) Structured learning

Principal
Guru Nanak Institute of Engineering & Technology Nagpur

3.Which library is commonly used for deep learning tasks in Python?

a) NumPy

b) Pandas

c) TensorFlow

d) Matplotlib

4.What is the process of preparing raw data for analysis called?

a) Data analysis

b) Data mining

c) Data preprocessing

d) Data visualization

5.In which domain can AI be applied for medical image analysis?

a) Finance

b) Healthcare

c) Marketing

d) Education

6.What is an example of a natural language processing (NLP) task?

a) Image recognition

b) Sentiment analysis

c) Fraud detection

d) Predictive analytics

7.What is an essential consideration when deploying AI systems?

a) Maximizing bias in algorithms

b) Prioritizing accuracy over fairness

c) Ensuring privacy and data protection

d) Ignoring ethical implications

Principal
Guru Nanak Institute of Engineering & Technology Nagpur- 441501

8.Which AI technique is used for making sequential decisions in dynamic environments?

Guru Nanak Educational Society's

GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY

APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp. IOC Petrol Pump, Kalmeshwar Road, Nagpur – 441501 Ph. 07118-661400
Website: www.gniet.ac.in Email: gnietnagpur@gmail.com

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING
SESSION 21-22

Date: 21/12/2021

NOTICE

All the Students of VII semester B.E. of Electronics & Telecommunication Engineering are hereby informed that department is organizing a short term course on **"VLSI Design Using Cadence Tools"** from 04/01/2022 to 9/01/2022. The schedule along with all other details of this course is given in the brochure. All the interested students must register for the same from 26th to 30th Dec, 2021. For registrations contact to the course coordinator PROF. DEEPAK DESHPANDE, Electronics & Telecommunication Department.

Prof. Neha Chourasiya
HOD ETC
Head of Department
Electronics & Telecommunication Eng
Gniet Dahegaon Nagpur

Copy to:

1. Display on Notice Board
2. Circulation Among the Students Whatsaap group
3. Head T&P
4. Principal for Information

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Six Day Workshop on

"VLSI Design Using Cadence Tools"

REGISTRATION FORM

Name

Branch:

Roll No. :

Contact No. :

Email Id:

Amount (Rs): _____

Signature of Applicant:

Date & Place:

Signature of Co-Orinator

Signature& Seal of HoD ETC

PATRONS

1. Sardar Navneet SinghTuli,CMD, GNI, Nagpur

2. Mrs.Tanpreet Kaur Tuli, MD, GNI, Nagpur

ADVISORY COMMITTEE

3. Dr. Hemant Hazare, Principal, GNIET, Nagpur

4. Mr. R .M. Bhombe, Vice Principal GNIET, Nagpur

CO-ORDINATOR

Mr. Deepak Deshpande, Asst. Prof. ETC
Email Id:-deepaksir@gmail.com

ORGANIZING COMMITTEE

Ms. Deepak Deshpande, Asst.Prof. ETC Email Id: deeepaksir@gmail.com
Ms.Neha Chourasia HOD, Asst. Prof. ETC
EmailId:gnietetc@gmail.com

ADDRESS FOR CORRESPONDENCE:

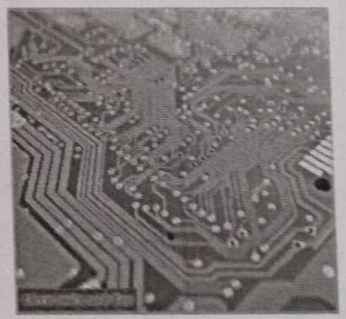
Department of Electronics and Telecommunication Engineering Guru Nanak Institute of Engg. & Tech. Kalmeshwar Road,Near Radha Swami Satsang,Dahegaon, Nagpur, Maharashtra 441501

GURU NANAK INSTITUE OF ENGINEERING & TECHNOLOGY, NAGPUR

One Week Course on

"VLSI Design Using Cadence Tools"

04/01/2022 TO 9/01/2022



Organized by DEPARTMENT OF ELECTRONICS and TELECOMMUNICATION ENGINEERING, GNIET, NAGPUR

Principal
Guru Nanak Institute of
Engineering & Tech...
Nagpur - 441501

REGISTRATION:

Registration can be made in advance by remitting the registration fee as indicated below along with the registration form. For registration contact to Mr. Deepak Deshpande, Asst.Prof. ETC.

REGISTRATION FEE:

Registration fees for students of GNIET is 500/-.

IMPORTANT DATES:

Registration starts : 26/12/2021
Last Date of Registration : 30/12/2021

SCHEDULE:

Duration of course is 48 hrs, which will be covered in one week from 04/01/2022 to 09/01/2022. The schedule during the course is divided into Three sessions per day as follow:
Session 1 : 9:00 am To 1:30 am
Lunch Break :1:30 pm To 2:00 pm
Session 2 :2:00 pm To 4:00 pm

Mode :

Seminar HALL

ELIGIBILITY

Students of **VIII** Semester/ IV Yr. are eligible to attend the training.

ABOUT THE COURSE

It is an add on course which helps the students to understand the concepts through hands-on lab sessions, examples and assignments on CADENCE Tool.

OBJECTIVE

The objectives of course are:

1. To make students familiar with Cadence Tool
2. To teach students Digital VLSI Design and Verification
3. The course will also teach the students about the Analog CMOS VLSI Design

OUR TRAINER

Mr. Deepak Deshpande
Email Id: deepaksir@gmail.com

TOPIC COVERAGE

1. Digital VLSI Design and Verification(12hrs)

2. Analog CMOS VLSI Design(6hrs)

3. Mixed Signal VLSI Design (6 Hours)

IMPORTANT NOTE

✔All interested students should register before the last date of registration.

✔Students should join the Google meet before time link will be provided on whasaap group.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

Department of Electronics & Telecommunication Engineering

Session (2021-22)

COURSE ON VLSI DESIGN USING CADENCE

COURSE OBJECTIVES

The objectives of workshop are:

1. Identification of challenges in VLSI design and simulation of digital and analog circuits.
2. Development of trained resources in VLSI design.
3. To acquire insights about technological details of VLSI system Design flow from industry experts
4. To motivate teachers to develop and curriculum and pedagogy for VLSI Design.
5. To provide information about tools used in VLSI Industry

SYLLABUS

DURATION: 30 HOURS

1. Digital VLSI Design and Verification (12hrs)

- ASIC design flow,
- Modelling using Verilog
- Function simulation to Synthesis
- Simulation and analysis using Cadence incisive simulator Circuit simulation
- layout capture and LVS verification
- Physical Design and Verification Overview
- Basics of CMOS digital design
- Case studies and research challenges

2. Analog CMOS VLSI Design (12Hours)

- Characterization of Analog Model Parameters
- Single Stage Amplifier Circuit Topologies
- Diff-Amp and Op-Amp Design
- Exposure to Cadence Virtuoso
- Analog Design Environment

3. Mixed Signal VLSI Design (6 Hours)

- Fundamentals of Mixed Signal Design with Examples
- Case studies
- Exposure to simulation toolset for mixed signal design

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441 501

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

Department of Electronics & Telecommunication Engineering

Session (2021-22)

COURSE OUTCOME

After completing this course,

1. Manpower development in the area of design of Front End and back end VLSI Design
2. Interaction among peers in the field of Physical Design and Verification.
3. Course material related to VLSI Design on concepts taught during course
4. Development of laboratory exercises related to digital, analog & mixed signal CMOS VLSI design
5. Sharing of knowledge among participants about advanced VLSI design concepts
6. Exposure to industry standard toolsets for digital, analog and mixed Signal design

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

Department of Electronics & Telecommunication Engineering

Session(2021-22)

CERTIFICATE COURSE ON VLSI DESIGN USING CADENCE TOOLS

Time Table

Date:-02-01-2022

Duration of Course: 30 Hours

Date	Time	Course Contents
04/01/2022	9:30 -10:00	Memory Design: An Industry Perspective
04/01/2022	10:00-11:30	Mixed Signal Circuits and Systems: Emerging Applications
04/01/2022	11:45-1:15	Switch Capacitor Circuits
04/01/2022	2:00-4:00	Device, Circuit and Architectures for enhancing Hardware Security
05/01/2022	10:00-11:30	Full Custom and Semi-Custom IC Design Flow Overview -Tool perspective
05/01/2022	11:45-1:15	Synthesis and Pre-Layout STA
05/01/2022	2:00-4:00	Physical Design & Verification flow -Industry perspective Demo : Logic Synthesis and Pre-Layout STA using Cadence Genus
06/01/2022	10:00-11:30	Floor plan and Power plan & APR, Clock Tree synthesis, Physical Verification Demo : Getting Started with Physical Design using Cadence Innovus
06/01/2022	11:45-1:15	Floor plan and Power plan & APR, Clock Tree synthesis, Physical Verification
06/01/2022	2:00-4:00	Demo :Placement & Routing of an SoC using Cadence Innovus Demo: Power, Timing Analysis signoffs using Cadence Voltus and Tempus
07/01/2022	10:00-11:30	Secure Memory System Optimizations
07/01/2022	11:45-1:15	Data Converters: ADC and DAC
07/01/2022	2:00-4:00	Dynamic Offset Cancellation Techniques
08/01/2022	10:00-11:30	Low Power Architectures for Signal Processing and Communications
08/01/2022	11:45-1:15	Low Power Architectures for Signal Processing and Communications
08/01/2022	2:00-4:00	Implementation of DSP Algorithms in VLSI
09/01/2022	2:00-4:00	Mind Power

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

Department of Electronics & Telecommunication Engineering

Session(2021-22)

Schedule

- Session I- 9.00 am to 11:45 p.m
- Tea Break – 11:00 am to 11:45 am
- Session II-11:45 am to 1:15 p.m
- Lunch Break-1:15 p.m. to 2:00 p.m.
- Session III-2:00 p.m to 4:00 p.m

Prof. Deepak Deshpande

Principal
Guru Nanak Institute of
Engineering & Tec
Nagpur - 44

MCQ ON VLSI Design using CADENCE Tools

Name of Student: _____

1) The utilization of CAD tools for drawing timing waveform diagram and transforming it into a network of logic gates is known as _____.
a. Waveform Editor
b. Waveform Estimator
c. Waveform Simulator
d. Waveform Evaluator
Ans: Waveform Editor

2) Which among the following is a process of transforming design entry information of the circuit into a set of logic equations?
a. Simulation
b. Optimization
c. Synthesis
d. Verification
Ans: Synthesis

3) _____ is the fundamental architecture block or element of a target PLD.
a. System partitioning
b. Pre-layout Simulation
c. Logic cell
d. Post-layout Simulation
ANSWER: Logic cell

4) In VLSI design, which process deals with the determination of resistance & capacitance of interconnections?
a. Floor planning
b. Placement & Routing
c. Testing
d. Extraction
Ans Extraction

5) In Net-list language, the net-list is generated _____synthesizing VHDL code.
a. Before
b. At the time of (during)
c. After
d. None of the above
ANSWER: After

6) Which data type in VHDL is non synthesizable & allows the designer to model the objects of dynamic nature?
a. Scalar
b. Access
c. Composite
d. File
ANSWER: Access

Principal
Guru Nanak Institute of Engineering & Technology Nagpur- 441501

7) Which type of simulation mode is used to check the timing performance of a design?
a. Behavioral
b. Switch-level
c. Transistor-level
d. Gate-level
ANSWER: Gate-level

8) Which among the following is not a characteristic of 'Event-driven Simulator'?
a. Identification of timing violations
b. Storage of state values & time information
c. Time delay calculation
d. No event scheduling
ANSWER: No event scheduling

9) Which among the following is an output generated by synthesis process?
a. Attributes & Library
b. RTL VHDL description
c. Circuit constraints
d. Gate-level net list
ANSWER: Gate-level net list

10) Register transfer level description specifies all of the registers in a design & _____ logic between them.
a. Sequential
b. Combinational
c. Both a and b
d. None of the above
ANSWER: Combinational

Answers: 1:a, 2:c, 3:c, 4:d, 5:c, 6:b, 7:d, 8:d, 9:d, 10:b

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY
Dahegaon, Kalmeshwar Road, Nagpur-441 501.
Department of Electronics & Telecommunication Engineering
Session (2021-22)

FEEDBACK FORM: "VLSI Design Using Cadence Tools"

Add on Course evaluation Form

Please submit feedback regarding the Add on course you have just completed, including feedback on course structure, content, and instructor.

Sign in to Google to save your progress. Learn more

* Indicates required question

Student Name *

Your answer

Contact Number *

Email Id

Your answer

Level of effort you put into the course *

- Poor
- Fair
- Satisfactory
- Very Good

Contribution of the course to your skill and knowledge *

- Poor
- Fair
- Satisfactory
- Very Good

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Skill and responsiveness of the instructor *

- ○ Poor
- ○ Fair
- ○ Satisfactory
- ○ Very Good

Course content was organized and well planned *

- ○ Poor
- ○ Fair
- ○ Satisfactory
- ○ Very Good

What aspects of this course were most useful or valuable? *

Your answer

Any other comments or suggestions? Please share them below

Your answer

Submit

Clear form

Never submit passwords through Google Forms.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

Department of Electronics & Telecommunication Engineering

Session (2021-22)

REPORT ON COURSE ON "VLSI DESIGN USING CADENCE TOOLS"

1	Course Title	VLSI DESIGN USING CADENCE TOOLS
2	Course Schedule	04/01/2022 to 9/01/2022
3	Course Venue	Seminar room and Department of ETC
4	Name of Coordinator	Prof. Deepak Deshpande
5	No. Of students Participated	20
6	Course Objective	Identification of challenges in VLSI design and simulation of digital and analog circuits. Development of trained resources in VLSI design. To acquire insights about technological details of VLSI system Design flow from industryexperts To motivate teachers to develop and curriculum and pedagogy for VLSI Design. To provide information about tools used in VLSI Industry
7	Course Outcome	Manpower development in the area of design of Front End and back end VLSI Design Interaction among peers in the field of Physical Design and Verification. Course material related to VLSI Design on concepts taught during course Development of laboratory exercises related to digital, analog & mixed signal CMOS VLSI design Sharing of knowledge among participants about advanced VLSI design concepts Exposure to industry standard toolsets for digital, analog and mixed Signal design

Students Attended Add on Course on VLSI Design using CADENCE Tools from 04/01/22 to 09/01/22

Prof. Neha Chourasiya
HOD ETC

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Head of Department
Electronics & Telecommunication Engg
Gniet Dahegaon Nagpur

Guru Nanak Educational Society's
GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

EE-21-22

DEPARTMENT OF ELECTRICAL ENGINEERING

SESSION 2021-2022

Date: 21/12/2021

NOTICE

All the Students of VII semester B.E. of Electrical Engineering are hereby informed that department is organizing a short term course on **"Applications of MATLAB in Electrical Engineering"** from 28/12/2021 to 02/01/2022. The schedule along with all other details of this course is given in the brochure. All the interested students must register for the same from 22th to 26th dec, 2021. For registration contact to the course coordinator Mr. Yogesh Likhar, Assistant Professor, Electrical Engineering Department.

Mr. R. M. Bhombe
HOD EE

Copy to:

1) Display on Notice Board
2) Circulation Among the Students Whatsaap group
3) Head T&P
4) Principal for Information

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

One Week Online Course on

"APPLICATIONS OF MATLAB IN ELECT RICAL ENGINEERING "

REGISTRATION FORM

Name:

Branch:

Roll No. :

Contact No. :

Email Id:

Amount (Rs): _____

Signature of Applicant:

Date & Place:

Signature of Co-Orinator

Signature& Seal of HoD EE

PATRONS

Sardar Navneet SinghTuli,CMD, GNI, Nagpur

Mrs. Tanpreet Kaur Tuli, MD, GNI, Nagpur

ADVISORY COMMITTEE

Dr. Hemant Hajare, Principal,GNIET, Nagpur

Mr. R .M. Bhombe, HOD Electrical GNIET, Nagpur

CO-ORDINATOR

Ms. A. Pillewan, Asst. Prof. EE Email Id: akshu1712@gmail.com

ORGANIZING COMMITTEE

Ms. Diksha Khare, Asst. Prof. EE
Email Id:dipavali_786@yahoo.co.in

ADDRESS FOR CORRESPONDENCE:

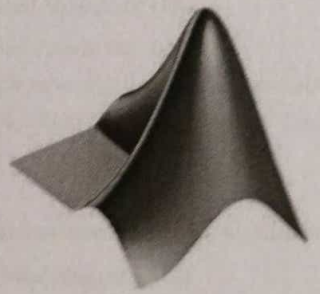
Department of Electrical EngineeringGuru Nanak Institute of Engg. & Tech. Kalmeshwar Road,Near Radha Swami Satsang,Dahegaon, Nagpur, Maharashtra 441501

GURU NANAK INSTITUE OF ENGINEERING & TECHNO LOGY, NAGPUR

One Week Course on

"APPLICATION S OF MATLAB IN ELECT RICAL ENGINEERING "

28/ 12/ 2021 TO 02/ 01 / 2022



Organized by

DEPARTMENT OF ELECTRICAL ENGINEERING, GNIET , NAGPUR

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

REGISTRATION:
Registration can be made in advance by remitting the registration fee as indicated below along with the registration form. For registration contact to Mr. Yogesh Likhar, Asst. Prof. EE.

REGISTRATION FEE:
Registration fees for students of GNIET is 500/-.

IMPORTANT DATES:
Registration starts : 22/12/2021
Last Date of Registration : 26/12/2021

SCHEDULE:
Duration of course is 38 hrs, which will be covered in one week from 28/12/2021 to 02/01/2022. The schedule during the course is divided into two sessions per day as follow:
Session 1 : 9:00 am To 12:30 pm
Lunch Break : 12:30 pm To 1:30 pm
Session 2 : 1:30 pm To 4:30 pm

Mode :
Goggle Meet

ELIGIBILITY
Students of **VIII** Semester/ IV Yr. are eligible to attend the training.

IMPORTANT NOTE
✔All interested students should register before the last date of registration .
✔Students should join the google meet before time link will be provided on whasaap group.

ABOUT THE COURSE

It is an add on course which helps the students to know the application of MATAB in the area of electrical engineering. The course mainly focuses on the student eager to learn about Matrix Laboratory which is a high-level language and interactive environment for numerical computation, visualization, programming and simulation of electrical circuits. Using MATLAB, A student can analyze data, develop algorithms, and simulate electrical circuits.

OBJECTIVE
The objectives of course are:

1. To make students familiar with MATLAB software
2. To teach students basic MATLAB programming.
3. The course will also teach the students about the simulink modelling.

OUR TRAINER
Ms. A. Pillewan, Asst. Prof. EE Email Id: akshu1712@gmail.com

TOPIC COVERAGE

1. Introduction (8hrs)

- MATLAB Basics for the Budding Engineer
- Basic commands
- Script & function file
- Basic mathematical and logical calculations
- Use of for loop
- Drawing plot

2. Experimentation and Modelling in MATLAB (6hrs)

- Design and Implementation
- Project Based Learning
- Accessing, exploring, analysing and visualising data in MATLAB

3. Electrical engineering concepts Using MATLAB and Simulink (7hrs)

- Introduction to Simulink
- Applications of Simulink in System modelling
- Modelling Basic electrical Circuit in Simulink and obtaining characteristic plots

4. Electrical engineering using Simscape (Physical Modeling)(8hrs)

- Electrical engineering using Sim Power systems
- Control system design and analysis
- Power Electronics Based drive analysis

5. MATLAB Scope in R & D (9hrs)

- Different models of wind and solar system
- Industrial power system Design
- Diffrent industrial models

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY
Dahegaon, Kalmeshwar Road, Nagpur-441 501.
Department of Electrical Engineering

COURSE ON APPLICATIONS OF MATLAB IN ELECTRICAL

COURSE OBJECTIVES

The objectives of this course are:

1. To make students familiar with MATLAB software
2. To teach students basic MATLAB programming.

SYLLABUS

DURATION : 38 HOURS

1. Introduction (8hrs)

- MATLAB Basics for the Budding Engineer
- Basic commands,
- Script & function file
- Basic mathematical and logical calculations
- Use of for loop
- Drawing plot

2. Experimentation and Modelling in MATLAB (6hrs)

- Design and Implementation
- Project Based Learning
- Accessing, exploring, analysing and visualizing data in MATLAB

3. Electrical engineering concepts Using MATLAB and Simulink (7hrs)

- Introduction to Simulink
- Applications of Simulink in System modelling
- Modelling Basic electrical Circuit in Simulink and obtaining characteristic plots

4. Electrical engineering using Simscape (Physical Modeling)(8hrs)

- Electrical engineering using SimPowersystems
- Control system design and analysis
- Power Electronics Based drive analysis

5. MATLAB Scope in R & D (9hrs)

- Different models of wind and solar system
- Industrial power system Design
- Diffrent industrial models

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

References: 1. https://www.mathworks.com
2. Getting Started With Matlab Rudra Pratap Oxford University Press

COURSE OUTCOME

After completing this course, students will be able to,

1. Understand basic programming in MATLAB
2. Understand the fundamental features of Simulation.
3. Able to design simulink models of different electrical circuits.
4. Understand the importance of MATLAB in R & D.

Add on Course on Application of Matlab on 02/01/22

Prof. Akshay Pillewan
Coordinator

Prof. Rajendra Bhombe
H.O.D (EE)

Dr. Hemant Hajare
Principal

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY
Dahegaon, Kalmeshwar Road, Nagpur-441 501
DEPARTMENT ELECTRICAL ENGINEERING

Session 2021-2022

Date:27/08/2021

APPLICATIONS OF MATLAB IN ELECTRICAL

MCQ

Name of Student:-.....

1. To add comments in MATLAB, use _____
   a) //
   b) %/
   c) /%
   d) %

2. To display comments of M-file, we use _____
   a) echo on
   b) comment on
   c) show %
   d) Cannot be displayed

3. Where do we need to store a function to call it in other programs?
   a) The bin folder
   b) Anywhere
   c) The MATLAB folder
   d) Desktop

4. What are the difference between the 'help' and the 'look for' command?
   a) No difference
   b) Syntactical difference
   c) Help returns the entire set while look for returns specific commands
   d) Help returns all the toolbox while look for returns a single toolbox

5. What will the following set of commands do when they are present in a script file?

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

```
stem[y1,y2];
title('p');
print -deps p
```

a) Plot the discrete graph of y1 and y2
b) There is no stem command in MATLAB
c) Store the graph as a separate file
d) Cannot be determined

6. The function to close the windows containing graphs generated from MATLAB is _____

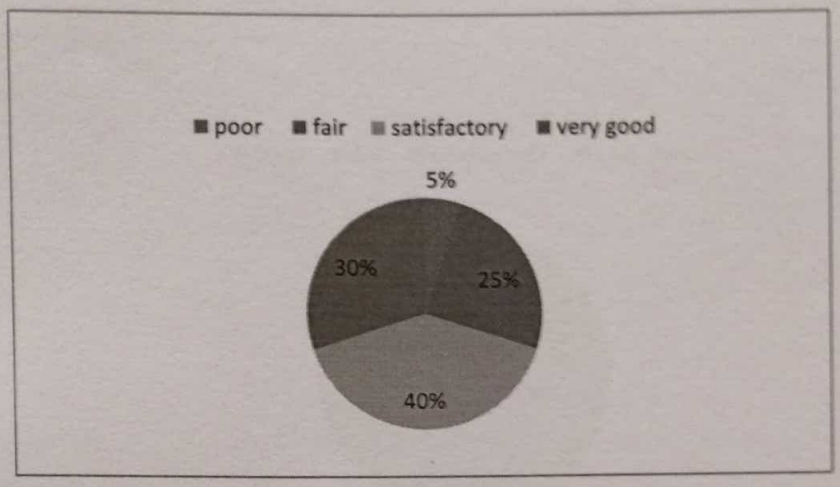
a) close all
b) close graphs
c) delete graphs
d) end all

7. What is not displayed by the Workspace?
   a) Time of variable generation
   b) Standard deviation of the variable values
   c) Class of the variables
   d) Nature of the variables
8. MATLAB allows modelling of different control systems using _____
   a) Simulink
   b) Control System Toolbox
   c) Not available in MATLAB as of yet
   d) ezplot

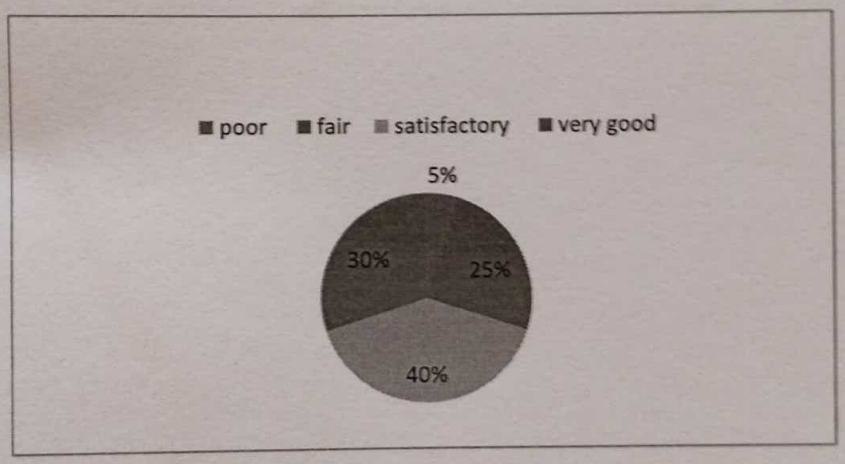
9. How to stop the execution of a chain of commands?
   a) Press Ctrl +c
   b) Cannot be stopped
   c) Only usage of debugging mode is possible in MATLAB
   d) Quit

10. What are MEX files in MATLAB?
    a) No such thing as MEX files
    b) Helps to analyse commands in MATLAB
    c) Allows the user to combine C source files with Matlab files
    d) Same as MAT files

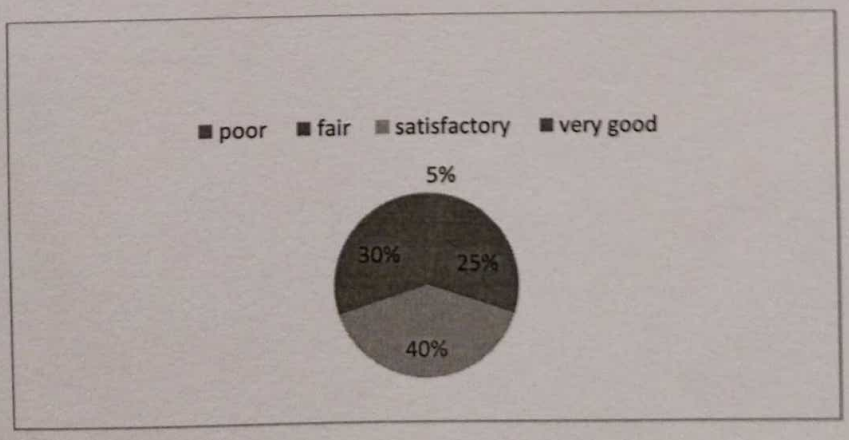
1. **Level of effort you put into the course**



2. Contribution of the course to your skill and knowledge



3. Skill and responsiveness of the instructor



Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

GURUNANAKINSTITUTEOFENGINEERING&TECHNOLOGY

Dahegaon,KalmeshwarRoad,Nagpur-441 501.

Department of Management Studies

Session 2021-22

MMBA 21-22

To,

The Principal,

GNIET,Nagpur

Subject:-Regarding the permission of 10daysprogrammeon"CertificateCoursein Financial accounting".

RespectedSir,

Department of Management Studies, GNIET, is planning to organize a ten days online program on "**Certificate Course in Financial in accounting**" on from 19/02/2022to28/02/2022 at 2pmin T & P Auditorium .

Kindly allow us to conduct the course program on above mentioned dates.

HOD,DMS, GNIET

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

CertificateCourseinFinancial Accounting

Certificate Course in Financial Accounting :Course Highlights

Courselevel	Certificate
Duration	OneMonth(60Hours)
ExaminationType	MultipleChoiceQuestions(MCQ's)
Eligibility	Passingbachelor'sdegree inanyoftherelevant discipline(B.Com./BBA/ BCCA)with 50% marks and above froma recognized university.
Admissionprocess	Merit Based
CourseFee	INR 5,000+18% GST
Averagesalary	INR2to 6Lakhsperannum
CourseSpeaker	ExpertsFromIndustries
TopRecruiting Companies	Accounting,Auditing,RealEstateFinancing,BudgetAnalysis,etc.
JobPositions	AssistantManager,Accountant,FinancialAnalyst,AssistantManager,etc.

CertificateCourseinFinancialAccounting:Whatisitabout?

Certificate Course in Financial Accounting comprises the study of the sector in the niche. The course renders candidates a platform for instilling in them the required skills and understanding ofthe subject indepth. Candidates are givena prominent intricateoverview of the subject wherein they gain knowledge of the current scenario of the economy of our country.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

The program empowers students in gaining an overview of the Indian Accounting regime, fundamentals and principles of accounting, Accounting system, Finalization of Accounts and assorted techniques of analysis of financial statements. They are supposed to have good calculationskills and a basic understanding of commerce which can help them instilin them the advanced principles of the subject.

Certificate Course in Financial Accounting is covered in the form of modules. With an increase in the number oftaxes and the dearth ofexperts in the field who can take forward the regime and understand its applicability in different areas, this course deems in setting forth a platform for students who are inclined to pursue their career in Accounting.

The overall course structure is thus designed with the aim of letting students gain the utmost knowledge ofthe field, and applyit in their career. Whenpursued after graduation, Certificate Course in Financial Accounting builds an added advantage for students whocan select their niche areas in financial sectors, taxation, international and national accounting,Indian economy and much more.

CertificateCourseinFinancialAccounting:Eligibility

The minimum eligibility criterion for admission to Certificate Course in Financial Accounting is mentioned below:

- Candidates who have passed their bachelor's degree in the stream of B.Com./BBA/BCCA with 50% and above aggregate are eligible for admission.
- Thosewhoaregivingtheir finalyear graduation examinB.Com. / BBA/ BCCAandarewaiting for results are also eligible for admission.

CertificateCourseinFinancialAccounting:AdmissionProcess

Applicants seeking admission are supposed to fulfil the prescribed criteria set by the college. The minimum eligibility is passing graduation degree in B.Com. / BBA/ BCCA with an aggregate of 50% and more from a recognized university. There is no entrance examination conducted for the program. Admissions are done solely on the basis of merit secured in the qualifying examination.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Applicants can apply for Certificate Course in Financial accounting either offline or by visiting the official website of the college. All the important information pertaining to the date for admission, entrance test and other such will be notified through email or listed on the official website.

CertificateCourseinFinancialAccounting:Syllabus

The certificate program in Financial Accounting is designed with a view ofimbibing in candidates the detailed understanding of the subject. The module is divided in a manner to render students a complete overview of every aspect related to it.

Belowmentioned isthesyllabusfollowedbymostoftheuniversitiesandcolleges:

SubjectsofStudy

Module I –Introduction to Accounting: Introduction of financial accounting, Importance, Objectives and Principles of Accounting, Concepts and conventions, and The Generally Accepted Accounting Principles (GAAP). **(8 Hours)**

Module II – Introduction of Accounting Process- Journal and ledger, Trial Balance, Classificationofcapitalandrevenueexpenses, preparationofsubsidiarybooksandcashbook. Reconciliation between bank pass book and cash book. **(12 Hours)**

Module III –Final Accounts of Joint Stock Companies –Preparation of Trading and Manufacturing, Profit and Loss Account, Profit and Loss Appropriation Account and Balance sheetwith adjustmentsasperSchedule IIIoftheCompaniesAct,2013,ProvisionsforStatutory Audit. **(15Hours)**

ModuleIV–AnalysisoffinancialStatement–I: TechniquesofFinancialstatementAnalysis - Commonsize statement, Trend Analysis, Inter FirmComparison, Intra FirmComparison, Du-Pont Analysis. **(10Hours)**

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Module V – Analysis of financial Statement – II: Introduction, Assessment of Business Performancethrough Ratio Analysis: Concept of Ratio, significance of ratio analysis, Interpretation of financial Performance using ratio. Profitability Ratio, Liquidity Ratio, Solvency Ratio, Activity Ratio & Efficiency Ratio. **(15 Hours)**

CertificateCourseinFinancialAccounting:CareerProspects

Certificate Course in Financial Accounting paves way for graduates and students gain a deeper perspective on the course at the same time train them in the sector. They can go on to build their career in areas surrounding International Accounting, Auditing, Budget Analysis, Management Accounting, and other such. They can choose to become Revenue Agent, Assistant Manager, Accountant, Tax Policy Analyst, Assistant Manager, Marketing Manager, Personal Finance Consultant, Corporation Taxation and other such.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

GURUNANAKINSTITUTEOFENGINEERING&TECHNOLOGY

Dahegaon,KalmeshwarRoad,Nagpur-441 501.

Department of Management Studies

Session 2021-22

Date:03/03/2022

ReportonCertificatecourseinAccounting

The Department of Management Studies had organized ten days programme on Certificatecourse in Financial Accounting from 19/02/2022to28/02/2022.

Theobjectivesofthecourseweresuccessfullymet:

- Know & understand Accounting system,Finalization of Accounts and assorted techniques of analysis of financial statements
- Provideon-jobexperienceofpracticalaspectsofAccounting
- Developdisciplinedattituderequiredtobecomean Accountant.
- ToaccessAccounting,Auditing,RealEstateFinancing,Budget Analysis,etc.

This included Process of Accounting, Basic Accounting Formulas, Accounting Terminologies, Capitaland Revenue transactions- capitaland revenue expenditures, capitalMeasurement and Bank Reconciliation Statement.

Courseoutcomeafter attendingthiscourseprogram,studentswerebeableto:

1. UnderstandFinalizationofAccountsandassortedtechniquesofanalysisoffinancial statements
2. Havetheabilitytowritebasicaccountingformulasandaccounting terminologies.
3. Usethemeasurement,valuationandAuditing,RealEstateFinancing,BudgetAnalysis.
4. Haveawarenessabouttheimportantenvironmentsunderwhichtheorganizationswork.
5. Developdisciplinedattituderequiredtobecomean accountant.

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

Total15studentshave participated inthisprogramme.

All the students really appreciated the contents that were discussed, they realized that interactionslike these can help them improve their learning.

Studentshaveexpressedtheirkeeninterestinattendingmoresuchonlinecourseslikethisin future.

HOD,DMS, GNIET

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501