1. Online Skill Development Workshop on "Fundamentals on Web Development"

S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR.
(An Autonomous Institute, Affiliated to RTMNU, Nagpur)
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
To become a center for quality education in the field of Computer Science & Engineering and to create competent professionals.

Session 2021-22(Odd)

Planning for "Fundamentals of Web Development"

Name of Course: - Fundamental of Web Development
Course code:- ESC107P
Co-ordinator: - Mrs. Sonam Chopade
Year/Semester: - II /III

S.No.	Schedule Date(s) with Faculty name	Module No.	Topic/SubTopic	Resource Person
1.	25/10/2021 (Monday)	1	Introduction to web Development	Ms. Priya Khobragade
2.	25/10/2021 (Monday)	2	**Introduction to HTML** • Anatomy of an HTML tag • HTML personal site	Mrs. Sonam Chopade
3.	25/10/2021 (Monday)	2	• HTML boilerplate • Formatting of text • Lists	Mrs. Sonam Chopade
4.	26/10/2021 (Tuesday)	2	• Image elements • Links and anchor tags	Mrs. Sonam Chopade
5.	26/10/2021 (Tuesday)	3	**Intermediate HTML** • Tables • Tables layouts • Table solutions	Mrs. Sonam Chopade
6.	26/10/2021 (Tuesday)	3	• Forms • Website hosting	Mrs. Sonam Chopade

			Quiz Test **Assignment : Write a Code in HTML to design master timetable of CSE department**	
7.	27/10/2021 (Wednesday)	4	**Introduction to CSS** • Inline CSS • Internal CSS • External CSS • Debug CSS Code	Ms. Snehal Dongre
8.	27/10/2021 (Wednesday)	4	• Anatomy of CSS syntax • CSS selectors • Classes vs. IDs	Ms. Snehal Dongre
9.	27/10/2021 (Wednesday)	5	**Intermediate CSS** • Styling, favicons • HTML DIV and Span • Box model of styling • Display property	Ms. Snehal Dongre
10.	28/10/2021 (Thursday)	5	• Static and relative positioning • Absolute positioning • Font styling	Ms. Snehal Dongre
11.	28/10/2021 (Thursday)	5	**Typography** • CSS sizing • Float and clear • Styling text **Quiz test** **Assignment : Design a registration form using HTML and CSS.**	Ms. Snehal Dongre
12.	28/10/2021 (Thursday)	6	**Introduction to Bootstrap** • Bootstrap grid layout system • Adding grids layouts	Ms. Priya Khobragade

			to website	
13.	29/10/2021 (Friday)	6	• Bootstrap containers • Bootstrap buttons and font awesome **Intermediate Bootstrap** • Bootstrap carousel • Bootstrap cards	Ms. Priya Khobragade
14.	29/10/2021 (Friday)	7	**Intermediate Bootstrap** • Bootstrap carousel • Bootstrap cards	Ms. Priya Khobragade
15.	29/10/2021 (Friday)	7	• Advanced CSS- combining selectors • Selector priority • Completing the website **Quiz** **Assignment: Design one page template for photos and galleries by using HTML, CSS and Bootstrap.**	Ms. Priya Khobragade
16.	30/10/2021 (Saturday)	**Evaluation**		

2. Value Added Course on "User Interface (UI) Design using Figma Tool"

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SESSION 2021-22

"User Interface (UI) Design using Figma"

Semester: III **Course Duration: 30 Hrs**

I. OBJECTIVES:

SR. NO	COURSE OBJECTIVE
1	To use various design techniques thereby creating highly accessible and usable products for users.
2	Acquire the ability to adapt to the user's demand industry trends, and changing technologies.
3	To maintain consistency, usability, performance, and accessibility.

II. COURSE OUTCOME:

SR. NO	CO NO.	COURSE OUTCOME
1	CO1	Understand: Understand various types of user interfaces and describe common abstract user interface components, such as radio buttons and group boxes.
2	CO2	Apply: Identify and define key terms related to user interfaces, design and implementation
3	CO3	Analyze: Analyze a user interface context and choose an appropriate type of user interface on demand.
4	CO4	Design: Design dynamic user interface according to requirements by using Figma Tool.

III. SYLLABUS:

SR. NO.	TOPICS	NO. OF HOURS
1.	**Importance of UI/UX as per industry need.** 1. UI 2. UX	01 Hr.
2.	**Introduction** 1. Introduction to UI/UX 2. Why UI/UX? 3. Comparison of UI/UX	03 Hrs.
3.	**Overview of Figma** 1. What is Figma? 2 . Installation of Figma	03 Hrs
4.	**Different Tools of Figma** 1. Colour. 2. Shapes 3. Icons 4. Image 5. Frames	03 Hrs.
5.	**Typography**	02 Hrs.
6.	**User Journeys** 1. Mapping the user journey 2. X-hour: Figma Grayscales 3. Finding solutions & constraint card	03 Hrs.
8.	**UI Principles** 1. Color and Font 2. HW5: UI Design in 3 Sprints 3. Reading: Refactoring UI	03 Hrs.
10.	**Prototyping** 1.Mobile Interface	03 Hrs.

11.	**Style Guide** 1.UI Components • EX7: Style Guide Analysis 2. X-hour: Figma Advanced 3. Responsive Design • HW7: Style Guide for Responsive UI	**03 Hrs.**
12.	**Design of ID Cards**	**03 Hrs.**
13.	**Special Topics & Final Project(Reflect & Present)**	**03 Hrs.**

Resources:

- https://www.figma.com/ui-design-tool/
- https://www.freecodecamp.org/news/ui-design-with-figma-tutorial/
- https://youtu.be/oYCesPexpEw
- https://youtu.be/WhlNnf1711M

SYLLABUS FRAMING COMMITTEE:

SR. NO	NAME OF MEMBER	DESIGNATION	SIGNATURE
1	MS. JASPREETKAUR SAGGU	STUDENT	
2	MR. GANDHAR PATWARDHAN	Managing Director, S2PEdutech	

Ms. Snehal Dongre
Workshop Coordinator

Dr. Mrudula Nimbarte
Departmental Activity Incharge

Mr. Animesh Tayal
Head of Department

3. Skill Development Workshop on Advanced SQL/PLSQL

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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SESSION 2021-22(EVEN)

Skill Development Workshop on Advanced SQL/PLSQL

Course Duration: 30 Hrs

Semester: Fourth

TIME: EVERY WEEK (2 HRS.)

SYLLABUS:

SN.	TOPICS	DURATION
	BASIC SQL	
1	**INTRODUCTION TO SQL** What is SQL? Why SQL? SQL process. SQL Data Types, Operators Basic utility Commands, DDL, DML	2 Hrs.
2	**BASIC CLAUSE IN SQL** Select, From, Where And, Or, Not Order By, like, Between, in, Alias, Exist All, Null, Top, Distinct, Unique Any, Some, Sequence	2 Hrs.
3	**AGGREGATE FUNCTIONS** Min, Max, Count, Sum, Avg, Group By, Having **SET OPERATIONS IN SQL** Union, Union all, Intersection, Minus	2 Hrs.
4	**SQL SUBQUERY** Using Select, Insert into, Delete, Update	2 Hrs.
	INTERMEDIATE SQL	
5	**INTEGRITY CONSTRAINTS** Primary key, Foreign Key Not Null, Check, Unique key, Default	2 Hrs.
6	**JOIN OPERATIONS** SQL Join, Inner Join, left Join, Right Join, Full Join	2 Hrs.
7	**VIEWs** Create, Update, Delete	2 Hrs.
8	**MORE with SQL** Handling Null values, CASE Statement, Single row functions, DCL, TCL	2 Hrs.

9	**INTRODUCTION TO PL/SQL** Features of SQL, Data Types, Variables & Constants PL/SQL Control Structure, Sample Program	**2 Hrs.**
	ADVANCED SQL	
10	SQL Loops, Procedures, Functions	**2 Hrs.**
11	Cursors, Triggers, Packages	**2 Hrs.**
12	**SAMPLE DATABASE DESIGN** **FIREBASE CONNECTIVITY WITH HTML FORM**	**2 Hrs.**
	Project Development	**6 Hrs.**
	Total Duration	**30 Hrs.**

RESOURCE PERSONS:

SR. NO	NAME OF MEMBER
1	Dr. Nisarg Gandhewar Scrum Master, AMDOCS Pune
2	Dr Mrudula Nimbarte CSE Dept. SBJITMR Nagpur

COORDINATORS:

SR. NO	NAME OF MEMBER
1	Ms. Pranita Choudhary CSE Dept. SBJITMR Nagpur
2	Ms. Snehal Dongre CSE Dept. SBJITMR Nagpur

Approved By

1. Dr. Nisarg Gandhewar
   Scrum Master, AMDOCS Pune
2. Dr Mrudula Nimbarte
   CSE Dept. SBJITMR Nagpur

Approved By

BOS(Chairman)

4. Value added Workshop on "R-Programming for statistical Data Analysis"

S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Vision: To become a center for quality education in the field of computer science & engineering and to create competent professionals.

Course Code	Course Title	Hours / Week			Credits	Maximum Marks		
		L	T	P		Continual Evaluation	End Sem. Exam	Total
MDS401T	R Programming for Statistical Data Analysis	4	--	--	4	40	60	100

Course Objective
Familiarize the prospective engineers with fundamentals of R Programming for statistical analysis of data, in order to enhance their skills and employability.

Course Outcomes	
After successful completion of this course the student will be able to:	
CO1	**Understand:** Understand the basic concepts of R programming for data analysis.
CO2	**Apply:** Apply Data Frames, Factors & Table for organizing the data.
CO3	**Apply:** Make use of Graphs, Histograms, Density Plots and 3-D plots for Statistical analysis of data.
CO4	**Analysis:** Analyze data with the help of Probability theory, Inferential Statistics and ANOVA.

SYLLABUS
Unit 1: Introduction to R Programming
Introduction: Installation and Loading of R Packages, Basic Syntax, Data Types and Objects, Variables, Constants, Comments, Debugging in R
Data Definitions and Categorization: Overview of Data, Sources of Data, Big Data, Data Categorization, Data Cube, Operator, Control statement & Functions
Unit 2: Vectors, Matrix & List in R
Vectors: Overview of Vectors, Creating a Vector, Accessing the Elements of a Vector, Vector Manipulation and Vector Arithmetic, Deleting a Vector, Vector Element Sorting
Matrix: Creating a Matrix. Coercion of Matrix Elements, Matrix Subsetting, Matrix Operations, Combining Matrices, Special Matrices, Eigenvectors and Eigenvalues, Arrays
List: Creating a List , General List Operations, Accessing the Elements of a List, Manipulating the Elements of a List, Merging Lists, Applying Functions to a List, Recursive List, Sorting and Searching
Unit 3: Data Frames, Factors & Table in R
Data Frames: Introduction to Data Frames, Creating a Data Frame, General Operations on Data Frames, Expanding a Data Frame, Applying Functions to Data Frames.
Factors & Tables: Introduction to Factors, Creating a Factor, Factor Levels, Summarizing a Factor, Ordered Factors, Converting Factors, Common Functions Used with Factors, Introduction to Tables and Creating Tables, Table-related Functions, Cross-tabulation.
Unit 4: Descriptive Statistics & Graphs in R
Creating Graphs, Histograms and Density Plots, Saving Graphs to a File, Creating Three-Dimensional Plots,

Descriptive Statistics: Introduction to Statistical Analysis in R, Measures of Central Tendency or Location, Measures of Dispersion, Measures of Shape.

Unit 5: Basic Probability Theory

Probability: Probability and Statistics, Random Variables, Probability Distribution

Sampling Distribution: Introduction to Sampling Distributions, Central Limit Theorem, Plotting Normal Distribution, Binomial distribution using R Function

Unit 6: Inferential Statistics

Correlation and Regression Analysis: Introduction to Correlation and Regression Analysis, Correlation Analysis, Regression Analysis

Statistical Inference: Introduction to Statistical Inference, Hypothesis Testing

Analysis of Variance : Introduction to Analysis of Variance, Implementing Analysis of Variance, Variants of ANOVA, ANOVA in R

Text Books:

1. R Programming for Beginners, Sandhya Arora & Latesh Malik, 2020, Universities Press
2. Introduction to Statistics and Data Analysis With Exercises, Solutions and Applications in R, Christian Heumann, Michael Schomaker Shalabh, Springer, 2016

Reference Books:

1. Easy R Programming for Beginners, Felix Alvaro, 2016, Create Space Independent Publishing Platform
2. R in Action: Data Analysis & Graphics in R, Dr. Rob Kabacoff, 2015, Manning, 2nd edition

5. Value added workshop on Machine Learning using Python

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Name and Course Code : Value added Workshop on Machine Learning using Python
Type of Activity: Co-Curricular

Question Number	Questions	PO Mapping of Questions	No. of students who answered correctly	% Attainment	Attainment level (on scale of 3)
Q1	Machine Learning is a field of AI consisting of learning algorithms that	PO6	104	88.89	3
Q2	Who is the father of Machine Learning?	PO6	107	91.45	3
Q3	In Machine learning the module that must solve the given performance task is known as	PO6	5	4.27	1
Q4	If machine learning model output involves target variable then that model is called as predictive model.	PO6	85	72.65	2
Q5	The Bayes rule can be used in	PO6	105	89.74	3
Q6	What are successful applications of Machine Learning?	PO6	97	82.91	3
Q7	What is the output of training process in machine learning?	PO6	103	88.03	3
Q8	What is the most common issue when using Machine Learning?	PO6	78	66.67	2
Q9	The action STACK(A, B) of a robot arm specify to	PO6	90	76.92	3
Q10	To check the linear relationship of dependent and independent continuous variables, which of the following plots are best suited?	PO6	90	76.92	3
Q11	Which of the following of the coefficients is added as the penalty term to the loss function in Lasso regression?	PO6	77	65.81	2
Q12	Ridge Regression uses which norm?	PO6	86	73.50	2
Q13	The scikit-learn Python machine learning library provides an implementation of the Ridge Regression algorithm via the Ridge class.Confusingly, the lambda term can be configured via the â€œ_____â€ argument when defining the class.	PO6	74	63.25	2
Q14	Ridge regression takes _____ value of variables.	PO6	74	63.25	2
Q15	The effect of alpha value on both ridge and lasso regression is same in terms of value increase and decrease.	PO6	85	72.65	2
Q16	To do Ridge and Lasso Regression in R we will use which library _____.	PO6	93	79.49	3
Q17	When compared with Lasso regression, the Ridge regression works well in cases where we	PO6	103	88.03	3
Q18	Ridge regression takes _____ value of variables.	PO6	45	38.46	1
Q19	KNN is _____ algorithm .	PO6	61	52.14	2
Q20	Which of the following option is true about k-NN algorithm?	PO6	73	62.39	2

Question Number	Questions	PO Mapping of Questions	No. of students who answered correctly	% Attainment	Attainment level (on scale of 3)
Q21	Which of the following value of k in k-NN would minimize the leave one out cross validation accuracy?	PO6	89	76.07	3
Q22	Which of the following will be true about k in k-NN in terms of variance?	PO6	81	69.23	2
Q23	Which of the following statements is true for k-NN classifiers?	PO6	79	67.52	2
Q24	True-False: It is possible to construct a 2-NN classifier by using the 1-NN classifier?	PO6	107	91.45	3
Q25	In k-NN what will happen when you increase/decrease the value of k?	PO6	92	78.63	3
Q26	In a naive Bayes algorithm, when an attribute value in the testing record has no example in the training set, then the entire posterior probability will be zero.	PO6	68	58.12	2
Q27	How many terms are required for building a bayes model?	PO6	93	79.49	3
Q28	Which condition is used to influence a variable directly by all the others?	PO6	62	52.99	2
Q29	To which does the local structure is associated?	PO6	95	81.20	3
Q30	Where does the baye's rule can be used?	PO6	89	76.07	3
Q31	Which of the following are the pros of Decision Trees?	PO6	93	79.49	3
Q32	Decision Tree is a display of an algorithm.	PO6	110	94.02	3
Q33	How to represent Chance Nodes?	PO6	95	81.20	3
Q34	Which of the following is a Decision Tree?	PO6	5	4.27	1
Q35	Which of the following nodes are Decision Tree nodes?	PO6	9	7.69	1
Q36	In the Naive Bayes algorithm, suppose that prior for class w1 is greater than class w2, would the decision boundary shift towards the region R1(region for deciding w1) or towards region R2(region for deciding w2)?	PO6	91	77.78	3
Q37	Which of the following algorithm is not an example of an ensemble method?	PO6	89	76.07	3
Q38	Which of the following option is / are correct regarding benefits of ensemble model?	PO6	81	69.23	2
Q39	Ensembles will yield bad results when there is significant diversity among the models.	PO6	80	68.38	2
Q40	If you use an ensemble of different base models, is it necessary to tune the hyper parameters of all base models to improve the ensemble performance?	PO6	83	70.94	2
Q41	Which of the following ensemble method works similar to above-discussed election procedure?	PO6	65	55.56	2
Q42	Which of the following is true about bagging?	PO6	91	77.78	3
Q43	Which of the following parameters can be tuned for finding good ensemble model in bagging based algorithms?	PO6	91	77.78	3
Q44	Suppose there are 25 base classifiers. Each classifier has error rates of e = 0.35.You are using averaging as ensemble technique. What will be the probabilities that ensemble of above 25 classifiers will make a wrong prediction?	PO6	92	78.63	3

Question Number	Questions	PO Mapping of Questions	No. of students who answered correctly	% Attainment	Attainment level (on scale of 3)
Q45	Which of the following algorithm is not an example of an ensemble method?	PO6	85	72.65	2
Q46	Which of the following is an example of sequential ensemble model?	PO6	77	65.81	2
Q47	Which of the following is/are true about ensemble methods?	PO6	66	56.41	2
Q48	Random Forest concepts are used to overcome ____	PO6	90	76.92	3
Q49	What is Random forest algorithm?	PO6	82	70.09	2
Q50	In the K-Means algorithm, we have to specify the number of clusters.	PO6	95	81.20	3
Q51	What metric can be used to find an optimal number of clusters ?	PO6	38	32.48	1
Q52	In Python, what is the recommended init parameter to input?	PO6	57	48.72	1
Q53	We can choose any random initial centroids at the beginning of K-Means.	PO6	36	30.77	1
Q54	In R, what is a good function to plot clusters ?	PO6	53	45.30	1
Q55	Which statement is true about the K-Means algorithm?	PO6	63	53.85	2
Q56	What is K-mean's?	PO6	78	66.67	2
Q57	What type of clustering is K means?	PO6	76	64.96	2
Q58	What are the applications of K-means clustering?	PO6	80	68.38	2
Q59	For two runs of K-Mean clustering is it expected to get same clustering results?	PO6	62	52.99	2
Q60	Which of the following can act as possible termination conditions in K-Means?1.For a fixed number of iterations. 2.Assignment of observations to clusters does not change between iterations. Except for cases with a bad local minimum. 3.Centroids do not change between successive iterations. 4.Terminate when RSS falls below a threshold.	PO6	84	71.79	2
Q61	Can decision trees be used for performing clustering?	PO6	109	93.16	3
Q62	What is the minimum no. of variables/ features required to perform clustering?	PO6	88	75.21	3
Q63	What is true about single linkage hierarchical clustering?	PO6	49	41.88	1
Q64	Which of the following is finally produced by Hierarchical Clustering?	PO6	69	58.97	2
Q65	Which of the following clustering requires merging approach?	PO6	81	69.23	2
Q66	The minimum time complexity for training an SVM is O(n2). According to this fact, what sizes of datasets are not best suited for SVMâ€™s?	PO6	83	70.94	2
Q67	Support vectors are the data points that lie closest to the decision surface.	PO6	89	76.07	3
Q68	The cost parameter in the SVM means:	PO6	86	73.50	2

Question Number	Questions	PO Mapping of Questions	No. of students who answered correctly	% Attainment	Attainment level (on scale of 3)
Q69	Which of the following are real world applications of the SVM?	PO6	67	57.26	2
Q70	We usually use feature normalization before using the Gaussian kernel in SVM. What is true about feature normalization? 1. We do feature normalization so that new feature will dominate other 2. Some times, feature normalization is not feasible in case of categorical variables 3. Feature normalization always helps when we use Gaussian kernel in SVM	PO6	83	70.94	2
Q71	Which of the following option would you more likely to consider iterating SVM next time?	PO6	88	75.21	3
Q72	NumPY stands for?	PO6	96	82.05	3
Q73	What will be output for the following code?import numpy as npa = np.array([1,2,3])print a	PO6	47	40.17	1
Q74	Numpy developed by?	PO6	84	71.79	2
Q75	Which of the following Numpy operation are correct?	PO6	79	67.52	2
Q76	Which of the following function stacks 1D arrays as columns into a 2D array?	PO6	87	74.36	2
Q77	Which of the following set the floating-point error callback function or log object?	PO6	59	50.43	2
Q78	What is the correct code to install numpy in the linux system containing python3?	PO6	57	48.72	1
Q79	import numpy as npnp.array(list)Is it true to import numpy module like this?	PO6	57	48.72	1
Q80	What is the range of uint32 data type?	PO6	69	58.97	2
Q81	Which of the following does not visualize data?	PO6	88	75.21	3
Q82	Which of the following type of chart is not supported by pyplot?	PO6	86	73.50	2
Q83	Which of the following is not the parameter of pyplotâ€™s plot() method?	PO6	65	55.56	2
Q84	Matplotlib is _____ plotting library	PO6	83	70.94	2
Q85	The command to install Matplotlib library in python is	PO6	74	63.25	2
Q86	Which Python package is used for 2D graphics?	PO6	79	67.52	2
Q87	Which of the following commands is used to install matplotlib for coding?	PO6	74	63.25	2
Q88	Which of the following is not a valid plotting function of pyplot ?	PO6	89	76.07	3
Q89	For 2D plotting using a Python library, which library interface is often used ?	PO6	16	13.68	1
Q90	Which of the following is/are true about boosting trees?1.In boosting trees, individual weak learners are independent of each other.2.It is the method for improving the performance by aggregating the results of weak learners	PO6	39	33.33	1

Question Number	Questions	PO Mapping of Questions	No. of students who answered correctly	% Attainment	Attainment level (on scale of 3)
Q91	ML is a field of AI consisting of learning algorithms that?	PO6	84	71.79	2
Q92	Among the following option identify the one which is not a type of learning	PO6	79	67.52	2
Q93	What is the disadvantage of decision trees?	PO6	65	55.56	2
Q94	Machine learning algorithms build a model based on sample data, known as	PO6	86	73.50	2
Q95	All keywords in Python are in	PO6	75	64.10	2
Q96	XGBoost is an optimized distributed gradient boosting library designed to be highly	PO6	78	66.67	2
Q97	What is the first step of DBscan?	PO6	61	52.14	2
Q98	An ensemble is a machine learning model that combines the predictions from..... models	PO6	80	68.38	2
Q99	SVM is termed as _____ classifier	PO6	27	23.08	1
Q100	In Python, what is the class used to fit hierarchical clustering to a dataset ?	PO6	51	43.59	1

Attainment	Final Attainment %	Final Attainment level
PO6	64.90	2.00
PSO1	64.90	2.00
PSO2	64.90	2.00

Mr. Ratnesh K. Choudhary

Name & Signature of Activity Co-ordinator

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DEPARTMENT OF ELECTRICAL ENGINEERING

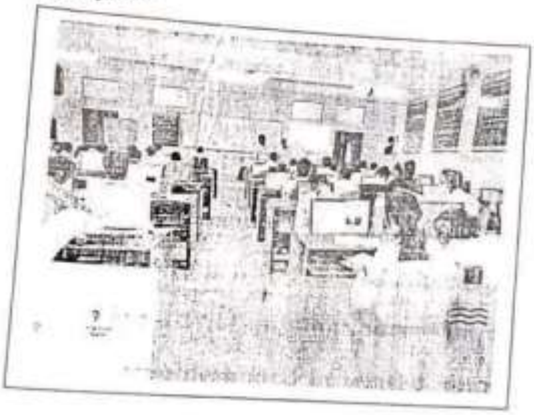
Activity Report

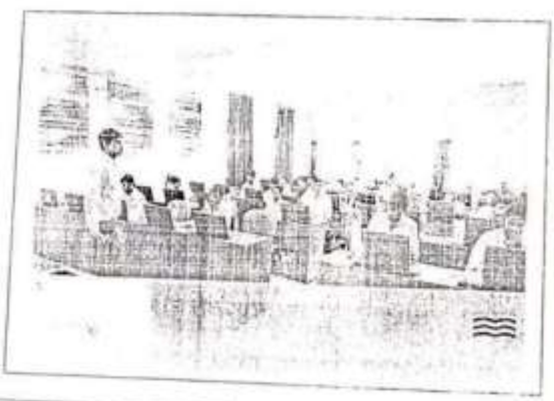
(Session 2021-22)

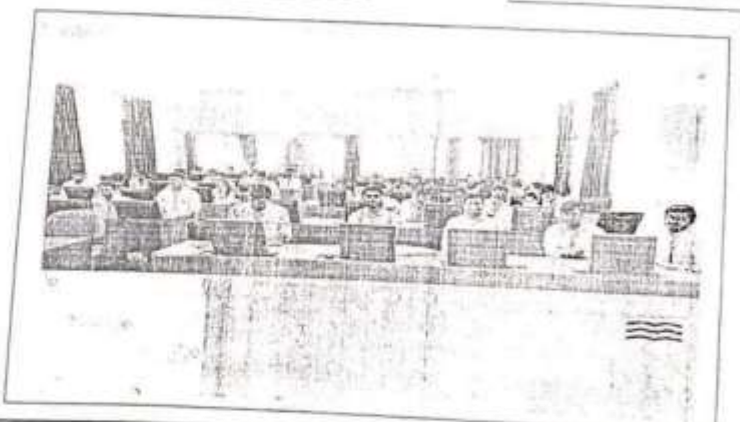
Name of the Course:-	Value Added Course / Certification Course on "Industrial Automation with PLC (Programmable Logic Controller)"
Date & Course Duration:-	11/07/2022 to 15/07/2022 for 30 hours
Faculty Co-coordinator:-	Mr. A A Khan

The **Electrical Engineering Department** had organized a Value Added Course/Certification Course on "Industrial Automation with PLC (Programmable Logic Controller)" for the students of 4th Semester. Electrical Engineering from was scheduled from 11/07/2022 to 15/07/2022. This course familiarizes the students with **Industrial automation** and **imparts** them **technical skill-sets to configure, design, develop, program and troubleshoot PLC based automation systems** so as to make them competent professionals as required for the workplace. Students were assessed through attendance and online MCQ test.

Photographs:-







Details of data recorded:-

Sr. No.	Details of Document	Record Present	Remark
1	Circular /Notices Made	Yes	Circular/ Notice is present.
2	Photographs	Yes	All related photographs are collected.
4	Attendance	Yes	All attendance record is maintained.

Dr. Chandrakant Rathore
Department Co-ordinator

Dr. Pankaj B. Thote
HOD, EE

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DEPARTMENT OF ELECTRICAL ENGINEERING

Vision: Transform knowledge seekers to globally competent professionals in Electrical Engineering

Report Activity
(Session 2021-22)

Name of the Course:-	Value Added Course / Certification Course on "PLC BASED INDUSTRIAL AUTOMATION"
Date & Course Duration:-	26/04/2022 to 30/04/2022 for 30 hours
Industry Experts:-	Mr.Dinesh Nimbalkar
Faculty Co-coordinator:-	Ms.Nighar Rafik Sheikh
Participation:-	50

Course Details:

The **Electrical Engineering Department** had organized a Value Added Course/Certification Course on "**PLC BASED INDUSTRIAL AUTOMATION**" for students of 6th Semester, Electrical Engineering which was scheduled from 26/04/2022 to 30/04/2022. This course aimed to enhance **field level instrumentation** and **core knowledge of industrial automation** the students of Electrical Engineering so as to make them competent professionals as required for the workplace. The contents of the course offered by **Maximum Solution** and are relevant to current requirements. Students were assessed through continuous evaluation with hand on Practice and at last expert was conducting Assessment.

Photographs:-

...workshop on	Notice/Circular,		

Details of data recorded:-

Sr. No.	Details of Document	Record Present	Remark
1	Circular /Notices Made	Yes	Circular is present.
2	Photographs	Yes	All related photographs are collected.
3	Communication Letter	Yes	Communication letter present.
4	Attendance	Yes	All attendance record is maintained.

Rathore

Dr. Chandrakant Rathore
Department Coordinator

for Thote

Dr. Pankaj B. Thote
HOD, EE

S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR
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Course Type	Course Title	Course Duration (Hrs.)
Value Added Course	Web Development	30

Course Objectives
The objectives of this course is to provide students with:
1. In-depth knowledge about the web development competency with HTML, CSS and Bootstrap.
2. Skills to design static website using HTML, CSS and Bootstrap.

Course Outcomes	
After successful completion of this course, the students will be able to:	
CO1	**Understand:** Interpret the basic concept of internet and web development languages used in website designing.
CO2	**Apply:** Apply the concepts of internet programming, HTML, CSS and Bootstrap in the development of web applications.
CO3	**Analyze:** Analyze appropriate techniques suitable for web designing solutions to given problems.
CO4	**Create:** Design websites for public and societal requirements using appropriate techniques.

Modules	SYLLABUS
I	**Introduction to Web Development:** Concept of WWW and Internet, HTTP Protocol (request and response), Web Browser, Web Server, Concept of effective web designing.
II	**Introduction to HTML:** HTML Introduction, HTML Editors, HTML Basic, HTML Elements, HTML Attributes, HTML Headings, HTML Paragraphs, HTML Styles, HTML Formatting, HTML Quotations, HTML Comments, HTML Colors, HTML CSS, HTML Links, HTML Images.
III	**Intermediate HTML:**HTML Tables, HTML Lists, HTML Block & Inline, HTML Classes, HTML Id, HTML Forms, HTML Form Attributes, HTML Form Elements, HTML Input Types, HTML Input Attributes, HTML Input Form Attributes
IV	**Introduction to CSS:** CSS Introduction, CSS Syntax, CSS Selectors, CSS How To, CSS Comments, CSS Colors, CSS Backgrounds, CSS Borders, CSS Margins, CSS Padding, CSS Height/Width, CSS Box Model, CSS Outline, CSS Text, CSS Fonts, CSS Icons, CSS Links, CSS Lists
V	**Intermediate CSS:** CSS Tables, CSS Display, CSS Max-width, CSS Position, CSS Website Layout, CSS Align, CSS Forms
VI	**Overview Bootstrap:** Bootstrap Grids, layout system, adding grid layout to website, Bootstrap containers, Bootstrap buttons and font awesome, Bootstrap carousel, Bootstrap Cards, advanced CSS, combing selectors, selector priority, completing website.

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Reference Books Recommended
1. "HTML & CSS: Design and Build Web Sites", Jon Duckett, 1st Edition, Wiley Publication.
2. "HTML Black Book", Steven Holzner, Dreamtech Press.
3. "Internet and World Wide Web How to Program", P. J. Deitel, H. M. Deitel, 5th edition, Pearson Publication, 2008.
4. "Bootstrap 4 – Responsive Web Design", Benjamin Jakobus, Matt Lambert, and Silvio Moreto, 2nd Edition, Packet publication, 2017

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Name of Event	**Value Added Course on "Web Development"**
Name of Experts	**Dr. Trupti Nagrare, Prof. Pravin Pradhi, Prof. Sheetal Mungale,Prof. Nitin Chakole, Prof. Ashwini Ajinkar, Prof. Prof. Ashish Labade, Prof. Hitesh Gehani.**
Name of Organization	**Electronics & Telecommunication Engineering Department ,SBJITMR**
Date	**25th Jan to 1st Feb 2022**
Objective of Event	**To train and educate students in global technological trends for an overarching vision.**
PO Mapped	**PO3,PO5,PO6,PO8,PO9,PO11,PO12,PSO1**

Department of Electronics and Telecommunication Engineering has organized Value Add on Course on "Web Development" from 25th Jan to 1st Feb 2022 for III year Students. The main objective of the course to understand the principles of creating an effective web page, including an in-depth consideration of information architecture.The course duration is 30Hrs,for third year students considering the need of industries & imparting the life skills to make students competent for placements. The Value Added Course was conducted at Google Meet.

On First Day course was started with Introduction to Web Development by Prof. Nitin Chakole. He have well explained need to study the web technology to build website using HTML, CSS, Bootstrap also the Internet, WWW. The course was progressed with the lecture by Prof. Hitesh Gehani, he have illustrated with the hand on practice Introduction to HTML, HTML Editors, HTML Basic, Elements, Attributes, Headings, Paragraphs and hands on practice taken by Prof. Sheetal Mungale and Dr. Trupti Nagrare this was the end of the first day .

On Day second The programme was advanced with the Course by Prof. Ashwini Anjikar and Prof. Pravin Pardhi with the Introduction to HTML were they explained with practical session HTML Styles, Formatting, Quotations, Comments, Colors, CSS, Links, Images.

Third Day was started with Intermediate HTML by Prof. Ashwini Anjikar and Dr. Truti Nagrare she well explained the HTML Tables, Lists, Block & Inline, Classes, Id. The program was continued by Prof. Sheetal Mungale Form Attributes, Form Elements, Input Types, Input Attributes, HTML Input Form Attributes. This was the end of third day. Here we complete the first module on HTML .

Fourth day Prof. Pravin Pradhi and Prof. Nitin Chakole started with new module, Introduction to CSS. They explained CSS used for the beautification on implemented web pages design using HTML they effectively stated and explained CSS Introduction, Syntax, Selectors, Comments, Colors, Backgrounds, Borders, Margins, Padding, Height/Width, Box Model, Outline, Text, Fonts, Icons, Links, Lists.

Day Fifth started By Prof. Hitesh Gehani and Prof. Ashwini Anjikar both have explained with practical session on CSS Tables, Display, Max-width, Position, Website Layout, Align, Forms. Course was processed by Prof. Ashish Labade, Assistant Professor, Computer science and Engineering was expert speaker for Bootstrap, he marvellously presented open-source tool for creating responsive websites and web applications and also well explained how Web pages are implemented in server Domain. This was the end of Course .

On basis of every day contents the activities were assigned to all students, also they were evaluated using Quiz of 50 Marks . On the last day Project assignment given to students to evaluate the understanding of total course.

Dr. Waseem Khanooni
Value Added Course Incharge

Dr. Abhay R. Kasetwar
Head of Department

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Course Type	Course Title	Course Duration (Hrs.)
Value Added Course	Web Development	30

Course Objectives
The objectives of this course is to provide students with:
1. In-depth knowledge about the web development competency with HTML, CSS and Bootstrap.
2. Skills to design static website using HTML, CSS and Bootstrap.

Course Outcomes	
After successful completion of this course, the students will be able to:	
CO1	**Understand:** Interpret the basic concept of internet and web development languages used in website designing.
CO2	**Apply:** Apply the concepts of internet programming, HTML, CSS and Bootstrap in the development of web applications.
CO3	**Analyze:** Analyze appropriate techniques suitable for web designing solutions togiven problems.
CO4	**Create:** Design websites for public and societal requirements using appropriate techniques.

Modules	SYLLABUS
I	**Introduction to Web Development:** Concept of WWW and Internet, HTTP Protocol (request and response), Web Browser, Web Server, Concept of effective web designing.
II	**Introduction to HTML:** HTML Introduction, HTML Editors, HTML Basic, HTML Elements, HTML Attributes, HTML Headings, HTML Paragraphs, HTML Styles, HTML Formatting, HTML Quotations, HTML Comments, HTML Colors, HTML CSS, HTML Links, HTML Images.
III	**IntermediateHTML:**HTMLTables,HTMLLists,HTMLBlock&Inline,HTMLClasses, HTML Id, HTML Forms, HTML Form Attributes, HTML Form Elements, HTML Input Types, HTML Input Attributes, HTML Input FormAttributes
IV	**Introduction to CSS:** CSS Introduction, CSS Syntax, CSS Selectors, CSS How To, CSS Comments,CSSColors,CSSBackgrounds,CSSBorders,CSSMargins,CSSPadding,CSS Height/Width,CSSBoxModel,CSSOutline,CSSText,CSSFonts,CSSIcons,CSSLinks, CSSLists
V	**IntermediateCSS:**CSSTables,CSSDisplay,CSSMax-width,CSSPosition,CSSWebsite Layout, CSS Align, CSSForms
VI	**Overview Bootstrap:** Bootstrap Grids, layout system, adding grid layout to website, Bootstrap containers, Bootstrap buttons and font awesome, Bootstrap carousel, Bootstrap Cards, advanced CSS, combing selectors, selector priority, completing website.

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Reference Books Recommended
1. "HTML & CSS: Design and Build Web Sites", Jon Duckett, 1st Edition, Wiley Publication.
2. "HTML Black Book", Steven Holzner, Dreamtech Press.
3. "Internet and World Wide Web How to Program", P. J. Deitel, H. M. Deitel, 5th edition, 2008, Pearson Publication.
4. "Bootstrap 4 – Responsive Web Design", Benjamin Jakobus, Matt Lambert, and Silvio Moreto, 2nd Edition, 2017, Packet publication.

Course In-charge

Dr. Abhay Kasetwar
Head of Department

Ankit Kshirsagar

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Name of Event	**Value Added Course on "Web Development"**
Name of Experts	**Dr. Trupti Nagrare, Prof. Pravin Pradhi, Prof. Sheetal Mungale,Prof. Nitin Chakole, Prof. Ashwini Ajinkar,Prof. Ashish Labade,**
Benificiaries	**Third Semester Students of Electronics & Telecommunication Engineering ,SBJITMR**
Duration	**01st Feb to 05th Feb 2022**
Objective of Event	**To train and educate students in global technological trends for an overarching vision.**
PO Mapped	**PO3,PO5,PO6,PO8,PO9,PO11,PO12**

Department of Electronics and Telecommunication Engineering has organized Value Added Course on "Web Development" from 01st Feb to 05th Feb 2022 for II year Students. The main objective of the course to understand the principles of creating an effective web page, including an in-depth consideration of information architecture. The Value Added Course was conducted online on Google Meet.

On First Day course was started with Introduction to Web Development by Prof. Hitesh Gehani. He has well explained about the need to study the web technology to build website using HTML, CSS, Bootstrap also the Internet and WWW. The course was progressed with the lecture by Prof. Sheetal Mungale, she has illustrated with the hands on practice Introduction to HTML, HTML Editors, HTML Basic, Elements, Attributes, Headings, Paragraphs. This was the end of the first day .

On Day second the programme was advanced with the course by Dr. Trupti Nagrare and Prof. Ashwini Anjinkar with the Introduction to HTML. They explained with practical session on HTML Styles, Formatting, Quotations, Comments, Colors, CSS, Links, Images etc.

Third Day was started with Intermediate HTML by Prof. Pravin Pradhi and Dr. Truti Nagrare, they well explained the HTML Tables, Lists, Block & Inline, Classes, Id. The next session was continued by Prof. Hitesh Gehani, he explained about Form Attributes, Form Elements, Input Types, Input Attributes, HTML Input Form Attributes. This was the end of third day. Here we completed the first module on HTML .

On fourth day, Prof. Pravin Pradhi and Prof. Nitin Chakole started with new module. Introduction to CSS. They explained CSS used for the beautification on implemented web pages design using HTML. They effectively stated and explained CSS Introduction, Syntax, Selectors, Comments, Colors, Backgrounds, Borders, Margins, Padding, Height/Width, Box Model, Outline, Text, Fonts, Icons, Links, Lists,etc.

Day Fifth wasstarted by Prof. Hitesh Gehani and Prof. AshwiniAnjikar, both have explained with practical session on CSS Tables, Display, Max-width, Position, Website Layout, Align, Forms,etc. Course was proceed by Prof. AshishLabade, Assistant Professor, Computer science and Engineering was expert speaker for Bootstrap, he marvellously presentedopen-source tool for creating responsive websites and web applicationsand also well explained how Web pages are implemented in server Domain. Total 124 students were registered in workshop and 54 students were completed successfully.The evaluation of workshop was done on the basis of attendance,daywise evaluation (Quiz of 10 Marks) andfinal test of 50 marks.

Dr. Waseem Khanooni
Value Added Course Incharge

Dr. Abhay R. Kasetwar
Head of Department

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Course Type	Course Title	Course Duration (Hrs.)
Value Added Course	Machine Learning using Python	30

Course Objectives
The course is intended to provide students different kinds of machine learning algorithms to discover patterns in big data that lead to actionable insights.

Course Outcomes	
After successful completion of this course, the students will be able to:	
CO1	**Apply:** Utilize the concepts of machine learning in creating modules for the analysis of data.
CO2	**Evaluate:** Select the appropriate techniques for the classification of data.
CO3	**Create:** Design and develop Applications using Python to fulfill the given requirement.

Modules	SYLLABUS
I	**Classification Algorithms can be further divided into the following types:** Logistic Regression K-Nearest Neighbours.
II	**Classification Algorithms can be further divided into the following types:** Support Vector Machines Kernel SVM
III	**Classification Algorithms can be further divided into the following types:** Naïve Bayes Decision Tree Classification Random Forest Classification
IV	**Types of Regression Algorithm:** Simple Linear Regression Multiple Linear Regression
V	**Types of Regression Algorithm:** Polynomial Regression Support Vector Regression
VI	**Types of Regression Algorithm:** Decision Tree Regression Random Forest Regression

Dr. M. W. Khanooni
Course Coordinator

Dr. A. R. Rasetwar
Head of **Department**

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Name of Event	**Value added course on "Machine Learning using Python"**
Name of Experts	**Dr. M. W. Khanooni, SBJITMR, Nagpur**
Name of Organization	**S.B.J.I.T.M.R, Nagpur**
Year/Section	**IV/ Both**
Date:	**21/04/2022 to 26/04/2022**
Objective of Event	**Exposure to students considering the need of industries and imparting the life skills to make students competent for placements.**
Course Coordinator	**Dr. Mohammad Waseem Khanooni**
Number of Students Registered for the Course	**88**
Number of Students Completed the Course	**79**

Department of Electronics & Telecommunication Engineering have conducted value added course on "**Machine Learning using Python**", for final year students from **21/04/2022 to 26/04/2022.** The course was conducted by **Dr. M. W. Khanooni, SBJITMR, Nagpur**. At the start of session the expert have briefed the students about basics of Python and Data Science and in following session students were taught to build an application to process the big data and extract the desired information. The Objective of the course is to provide exposure to students considering the need of industries and imparting the life skills to make students competent for placements.

Dr. M. W. Khanooni
Course Coordinator

Dr. A. R. Rasetwar
Head of Department

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Course Type	Course Title	Course Duration (Hrs.)
Value Added Course	Insight of Django	30

Course Objectives
The course familiarizes the prospective engineers with fundamentals of Django Web Framework, its built-in components and services in order to enhance their skills, employability and explore entrepreneurship ideas.

Course Outcomes	
After successful completion of this course, the students will be able to:	
CO1	**Apply:** Utilize the concepts of Django in creating web modules.
CO2	**Evaluate:** Select the appropriate components of Django Web Framework in creating web applications.
CO3	**Create:** Design and develop Web Applications using Django Web Framework to fulfil the given requirement.

Modules	SYLLABUS
I	Introduction to web development, & Django, Front End, Front Backend, Features of Django framework, How to install Django, Django project vs Application, Creation of first project and App. **Assignment:** Create a new project, Create a new app and manage, request and response to send the Student information like name, gender, mobile no, email.
II	Commands, Request flow in Django application, Url pattern at Project level and Application level, Django templates and static files, How to include static files in templates. **Assignment :** Creating a new project and new app, and download any free templates and integrate in project and convert all files into Django template language.
III	Working with models and databases, Database configuration, Sqlite database, What is model class, Converting model class into sqlite, Database sql code, Command for creating a table in sqlite. **Assignment:** Job (posting date, location, offered salary, qualification), Book (number, title, author, published date).
IV	Creating a super user for admin login, Displaying admin at browser, MVT Architecture, CSRF Token, ORM object relational mapping, CRUD Operations **Assignment :** How to select only some columns in the query set , How to Add Multiple Records at a Time: How to Create, Update, Delete Records; How to Order query set in Sorting Order, How to Update Field of a Particular Record:, How to Delete Multiple Records:
V	Project, candidate Login, Candidate Registration, Adding courses in master, Creating a super admin, Creating a feedback from, Using free templates. **Assignment :** Project Continue.

Dr. M. V. Nimbhorkar
Course Coordinator

Dr. A. R. Kasetwar
Head of Department

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Name of Event	**Value added course on "Insight of Djnago"**
Name of Experts	**Mr. Prashant Jha, Co-Founder, APS Microsoft Pvt. Ltd., Nagpur.**
Name of Organization	**S.B.J.I.T.M.R, Nagpur**
Year/Section	**IV/ Both**
Date:	**11th July to 15th July 2022.**
Objective of Event	**Exposure to students considering the need of industries and imparting the life skills to make students competent for placements.**
Course Coordinator	**Dr. Mohammad Waseem Khanooni**
Number of Students Registered for the Course	**137**
Number of Students Completed the Course	**96**

Department of Electronics & Telecommunication Engineering have conducted value added course on **"Insight of Django"**, for second year students **from 11th July to 15th July 2022.** The course was conducted by **Mr. Prashant Jha, Co-Founder, APS Microsoft Pvt. Ltd., Nagpur.** At the start of session the expert have briefed the students about basics of **Python and Django frame work** and in following session students were taught to design web application using Django. The Objective of the course is to provide exposure to students considering the need of industries and imparting the life skills to make students competent for placements.

Dr. M. W. Khanooni
Course Coordinator

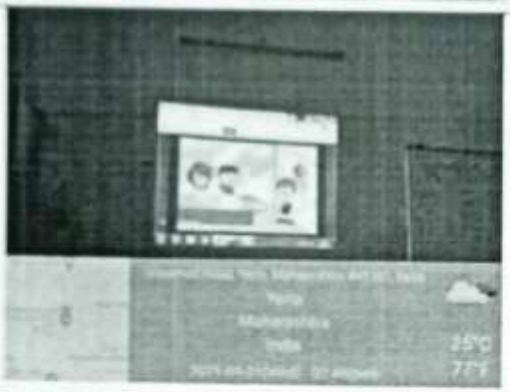
Dr. A. R. Kasetwar
Head of Department

Activity Report

Session: 2021-22 (ODD)

Report Summary	
Name of Activity	Value Added Course on "Lean Production System"
Date of Activity	31/08/2021 – 06/09/2021 (02.00 PM -07.00 PM)
Name of faculty members	Mr. Amit Tajne, Mr. Ajay Joshi, Mr. Pankaj Jaiswal, Mr. Sarvesh Biyani and Dr. Vinit Gupta, Department of Mechanical Engineering, SBJITMR, Nagpur.
Name of Internal Coordinator	Mr. Ajay Joshi.
Place of Activity	Mechanical Department (ONLINE – Google Meet)
Purpose of Activity	The purpose of this course was to introduce about Lean Production System, tools and techniques and its implementation strategies. With this course student will be able to apply the knowledge of Lean production system at any workplace. Student will be able to improve the workplace / productivity.
No. of students participated	83 (Third Year)
Summary of Activity	Department of Mechanical Engineering, S.B. Jain Institute of Technology Management and Research, has organized a Value Added Course on "Lean Production System" for third year students from 31/08/2021 – 06/09/2021. The session started with the course introduction, Course Objectives, Course Outcomes and Course Contents. The course was divided into SIX Modules (Total course duration 30 Hour) namely – Introduction to Lean Production System, Understanding Flow, Continuous Flow, Improving Flow, Maintaining Flow, Quality and Continuous Improvement *Day 1:* Mr. Amit Tajne has taken first module on Introduction to Lean Production System. He explained about 7 wastes, types of productions and also he shared some case studies with the students. *Day 2:* Mr. Ajay Joshi has taken lecture on Understanding Flow and discussed various tools and techniques used to understand the flow. He discussed the process analysis, cycle time, Takt time, lead time, and resource utilization methodology. *Day 3:* In this module Mr. Ajay Joshi covered the topic Continuous Flow. He explained about inventory control, setup time, Single Minute Exchange of Die (SMED), One Touch Exchange of Die (OTED), Total Productive Maintenance and Overall Equipment Efficiency. *Day 4:* Mr. Sarvesh Biyani has taken the lecture on Improving Flow. He explained Workplace Visualization & Organization using 5S, different tools and techniques and its implementation strategies. *Day 5:* Mr. Pankaj Jaiswal has taken lecture on Maintaining Flow. He discussed the Just-In-Time (JIT) and the significance that JIT for Lean Production in reducing waste and meeting customer demand. *Day 6:* Dr. Vinit Gupta taken lecture on the Quality and Continuous Improvement. He discussed the Poka-Yoke, Kaizen Blitzto, The Toyota Way 2001, and Jeffrey Liker's 14 Management Principles.

Photographs



Details of data recorded

Sr. No.	Details of Document	Record present	Remark
1	Notice Made	Yes	SBJITMR/ME/2021-22/ODD/N-13
2	Circular Made	Yes	SBJITMR/ME/2021-22/ODD/C-13
3	Photographs	Yes	Attached
4	Attendance	NA	Google Meet
5	Course completion Test (Google form)	Yes	https://forms.gle/yQd5JydFnVmDkhr6A

HOD, ME

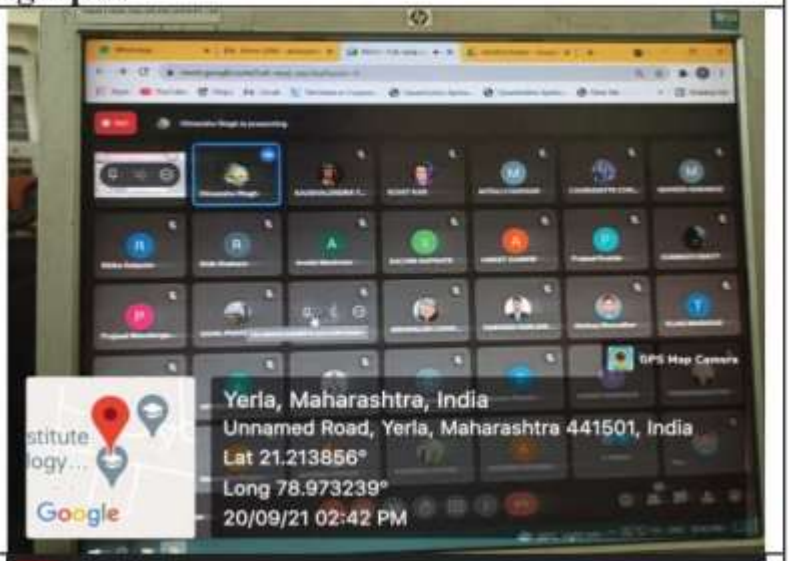
Activity Report

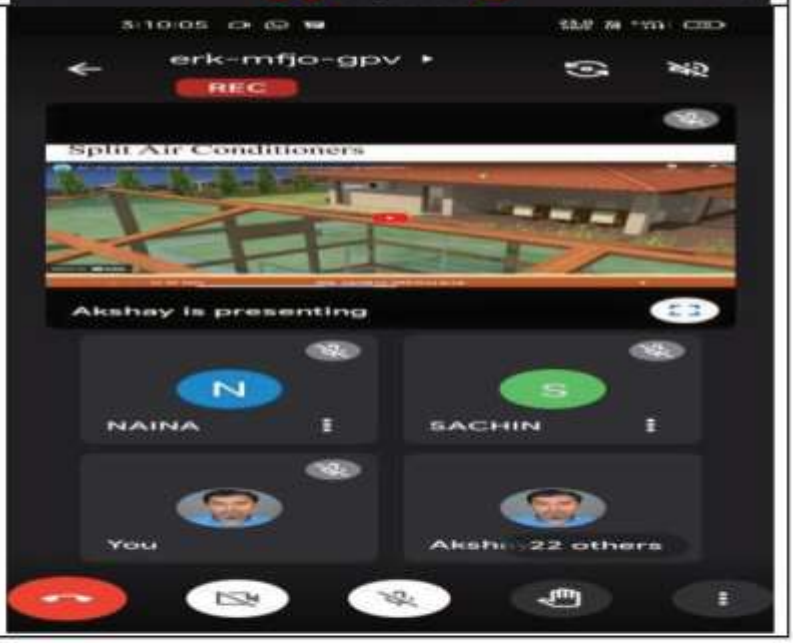
Session: 2021-22 (ODD)

Report Summary	
Name of Activity	Add-on Course on "Refrigeration and Air Conditioning-Basics, Modern Applications and Environmental Concern"
Date of Activity	16/09/2021 – 23/09/2021 (02.30 PM -07.30PM)
Name of faculty members	Dr. Harish Bhatkulkar, Mr. Hasan Akhtar, Mr. Himanshu Wagh, Mr. Akshay Shewalkar and Mr. Yogesh Joshi, Department of Mechanical Engineering, SBJITMR, Nagpur.
Name of Internal Coordinator	Dr. Harish Bhatkulkar and Mr. Akshay Shewalkar
Place of Activity	Mechanical Department (ONLINE – Google Meet)
Purpose of Activity	The purpose of this course was to introduce about Refrigeration and Air Conditioning, its basics, applications and environmental concern. . With this course student will be able to apply the knowledge of Refrigeration and Air Conditioning at academic and professional level.
No. of students participated	71 (Final Year)
Summary of Activity	Department of Mechanical Engineering, S.B. Jain Institute of Technology Management and Research, has organized an Add-on Course on "Refrigeration and Air Conditioning-Basics, Modern Applications and Environmental Concern" for final year students from 16/09/2021 – 23/09/2021. The session started with the course introduction, Course Objectives, Course Outcomes and Course Contents. The course was divided into Seven sessions (Total course duration 30 Hour) namely – Basics of refrigeration, Application of VCR system and refrigerants, Cryogenics and use of Nano fluids in refrigeration, Vapor Adsorption Refrigeration System, Basics of Air Conditioning, Applications of Air Conditioning and Automotive Refrigeration System *Day 1:* Dr. Harish Bhatkulkar has delivered first session on Basics of refrigeration. He explained about Reversed Carnot cycle, Unit of refrigeration, COP, Vapor compression refrigeration system and its components . *Day 2:* Mr. Hasan Akhtar has delivered second session on Application of VCR system and refrigerants. He explained about the-h and T-S diagram of VCR cycle to calculate its cooling capacity, different properties of refrigerants, classification of refrigerants and their environmental impacts and alternative refrigerants. *Day 3:*Mr. Yogesh Joshi has delivered the third session on cryogenics and application of Nano fluid and magnetic field in refrigeration. He explained about the concept of cryogenics in refrigeration, Characterization of Nano fluid, Ways to import Nano fluid in VCRS system and Different way to apply magnetism in refrigeration system. *Day 4:* Mr. Himanshu Wagh has delivered the fourth session on Vapor Adsorption Refrigeration System. He explained the phenomena of adsorption, types of adsorbents, Adsorption Working Pairs, Basic Adsorption Refrigeration

	Cycles and Clapeyron Diagram *Day 5:* Dr. Harish Bhatkulkar has delivered fifth session on Basics of Air Conditioning. He discussed the Difference between Refrigeration and air conditioning, properties of air, different psychrometric properties, Psychrometric processes and its representation on charts. *Day 6:* Mr. Akshay Shewalkar has delivered sixth session on the Applications of Air Conditioning. He discussed the factors to be controlled in air conditioning, different air conditioning systems, defrosting methods in refrigeration and tools used in refrigeration. *Day 7:* Mr. Yogesh Joshi has delivered seventh session on Automotive air conditioning system. He discussed the various air conditioning components, electrical and electronic controls used in it.

Photographs





Details of data recorded			
Sr. No.	**Details of Document**	**Record present**	**Remark**
1	Notice Made	Yes	SBJITMR/ME/2021-22/ODD/N-23A and N-24
2	Circular Made	Yes	SBJITMR/ME/2021-22/ODD/C-23A and C-24
3	Photographs	Yes	Attached
4	Attendance	NA	Google Meet
5	Course completion Test (Google form)	Yes	https://forms.gle/Jcr1JmyWhV3vfKru9

Course Coordinator

HOD (ME)

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DEPARTMENT OF MECHANICAL ENGINEERING

Vision: Emerge as an excellent centre for Mechanical Engineering education

Activity Report

Session: 2021-22 (ODD)

Report Summary	
Name of Activity	Auto CAD (Certification/Value Added) Course, 2021-22 (ODD)
Date of Activity	31/01/2022 – 05/02/2022 (10:30 AM to 1:30 PM; 2:30 PM to 5:30 PM)
Name of Expert faculty	Mr. Archis Dhawale Department of Mechanical Engineering, SBJITMR, Nagpur.
Name of Internal Coordinator	Mr. Archis Dhawale
Place of Activity	Mechanical Department (ONLINE – Google Meet)
Purpose of Activity	By doing this course Students will be able to gain the knowledge regarding basic operations of AutoCAD software and use various commands, and apply the knowledge of AutoCAD to draw problems on orthographic and isometric views of machine components.
No. of students participated	73 (Second Year)
Summary of Activity	Department of Mechanical Engineering, S.B. Jain Institute of Technology Management and Research, has organized Auto CAD (Certification/Value Added) Course for second and third year students from 31st Jan 2022 to 05th Feb 2022. The session started with the course introduction, Course Objectives, Course Outcomes, Course Content and software required for the successful completion of the course. The course was divided into Five Modules (Total course duration 30 Hour). *Day 1:* Module -I: Basics of AutoCAD (04 Hrs) *Day 2:* Module -II: Modify tool and status bar (06 Hrs) *Day 3:* Module -III: Text, Leader and Viewports (06 Hrs) *Day 4:* Module - IV: Blocks and Drawing Utilities (06 Hrs) *Day 5:* Module -V: 3D Modeling and Page setup (08 Hrs) *Day 6:* Test and Assignment.

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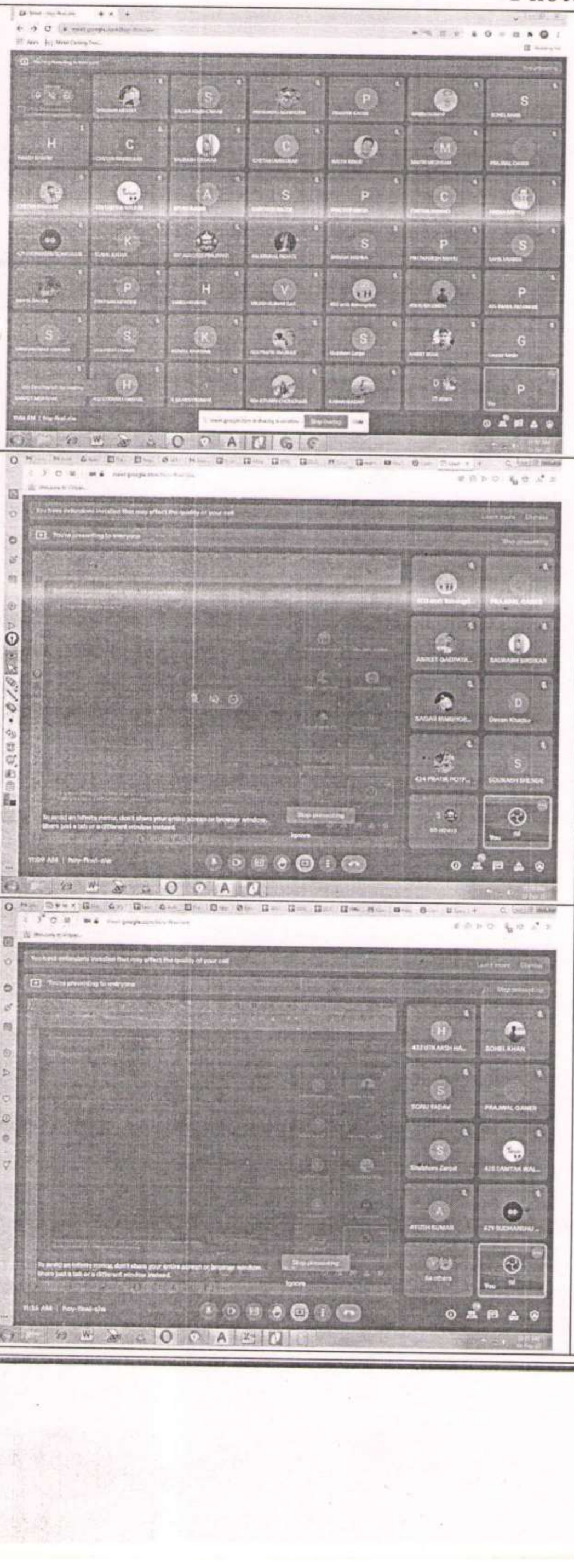
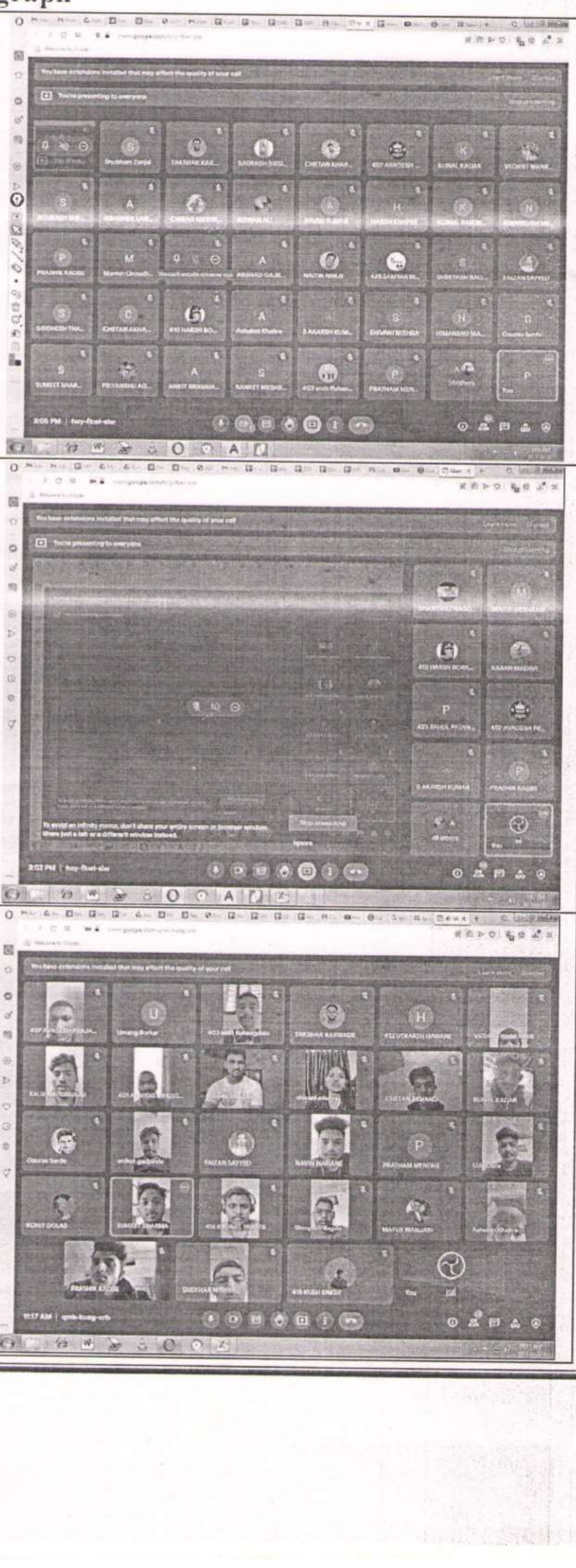
Photograph





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Details of data recorded

Sr. No.	Details of Document	Record present	Remark
1	Notice Made	Yes	SBJITMR/ME/2021-22/ODD/N-173
2	Circular Made	Yes	SBJITMR/ME/2021-22/ODD/C-173
2	Photographs	Yes	
3	Attendance	Yes	
4	Assignments	Yes	
5	Course completion Test (Google form)	Yes	

HOD, ME

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AutoCAD (Certificate Course / Value Added Course)

Teaching Scheme
Practical: 06 Hours/ Day

Examination Scheme
College Assessment: 60 Marks + Assignment

Course Objective and Expected Outcomes:

Student should be able to draft engineering drawing, able to create Two-dimensional/ Three-dimensional models using AutoCAD software.

Course Outcome: Students will be able to –
CO1: gain the knowledge regarding basic operations of AutoCAD software and use various commands.
CO2: Apply the knowledge of AutoCAD to draw problems on orthographic and isometric views of machine components.

SN	Syllabus	Hours
1	**Introduction** Starting a New File and Opening an Existing One User Interface In AutoCAD Setting Up Drawing Units Setting Up Drawing Limits Using Various Zoom Options Example - Units, Limits, and Zoom tools Saving Drawing Files as an AutoCAD Template	1
2	**Using Drawing Tools 1** Understanding Coordinate system and Line tool Example - Using Line tool Example - Using Absolute Coordinate System Example - Using Relative Rectangular Coordinate System Example - Using Relative Polar Coordinate System	1
3	**Using Drawing Tools 2** Drawing Polylines and Splines Drawing Circles Example - Using Circle tool Drawing Arcs Example - Using Arc tool	1
4	**Using Drawing Tools 3** Drawing Rectangles Example - Using Rectangle tool Drawing Polygons Example - Using Polygon tool Drawing Ellipses	1

	Example - Using Ellipse tool Drawing Construction Lines, Rays, Points, and Multiple Points Applying Hatches and Gradient Hatches Creating Revision Clouds	
5	**Using Modify Tools 1** Making Selection Sets Copying and Moving Objects Example - Using Copy tool Example - Using Move tool	1
6	**Using Modify Tools 2** Stretching, Scaling, and Offsetting Entities Example - Using Stretch tool Example - Using Scale tool Example - Using Offset tool Rotating and Mirroring Entities Example- Using Rotate tool Example - Using Mirror tool Trimming and Extending Entities Example - Using Trim tool Example - Using Extend tool	1
7	**Using Modify Tools 3** Creating Fillets Creating Chamfers Creating Blend Curves Using Erase tool Using Explode tool Using Align tool Example - Using Align tool	1
8	**Using Modify Tools 4** Using Break and Break at Point tools Example - Using Break tool Example - Using Break at Point tool Using Join tool Example - Using Draw and Modify tools Using Overkill command	1
9	**Using Modify Tools 5** Using Array tool Example - Using Rectangular Array tool Example - Using Path Array tool Example - Using Polar Array tool Using Divide, Measure, and Wipeout tools Example - Using Divide tool Example - Using Measure tool Using Region and Boundary tools Example - Using Region tool	1
10	**Using Status Bar** Using Various Status Bar Toggles Using Object Snaps and Object Snap Tracking Using From Snap and Other Snaps Using Selection Cycling option	1

	Switching Workspaces	
11	**Writing Standard and Annotative Texts** Writing Single Line and Multiline Texts Example - Writing Single Line Text Example - Writing Multiline Text Creating Text Styles	1
12	**Adding Standard and Annotative Dimensions** Using Dimensioning tools - Dimensions Drop-Down Managing Dimension Styles using Dimension Style Manager Creating a New Dimension Style Importing Dimension Styles from a drawing into the other Drawing Using Quick tool Using Continue and Baseline tools Using Break and Inspect tools Using Adjust Space and Update tools Using Breakline and Dimjogline tools Associating and Disassociating Dimensions Using Centermark and Centerline tools	1
13	**Adding Leaders and Tables** Using Leader tool Using Multileader tool Using Multileader Style Manager Creating a New Multileader Style Using Multileader Align tool Using Multileader Collect tool Adding and Removing Leaders to an Existing Leader Creating and Inserting Tables	1
14	**Adding and Managing Constraints 1** Concept of Constraints Using Constraint Settings Dialog Box Using Autoconstrain tool Using Coincident, Parallel, and Tangent constraint tools Using Collinear, Perpendicular, and Smooth constraint tools Using Concentric, Horizontal, and Symmetric constraint tools	1
15	**Adding and Managing Constraints 2** Using Fix, Vertical , and Equal constraint tools Using Show Hide, Show All, and Hide All tools Using Linear, Horizontal, and Vertical Dimensional constraint Tools Using Aligned Dimensional constraint tool Using Radius, Angular, Diameter, and Convert Dimensional constraint tools Adding Equations to Dimensional constraints Deleting constraints Using Parameters Manager	1
16	**Working with Views and Viewports** Controlling UCS Icon, Viewcube, and Navigation Bar Display Creating Custom Views (New View tool) Using View Manager Understanding the concept of Model Space and Paper Space	1

	Creating Model Space Viewports Creating Named Viewports (VPORTS command) Combining Viewports (Join tool) Creating Custom Viewports (MVIEW command)	
17	**Working with Blocks** Concept of Blocks Creating Blocks Example - Creating Blocks Inserting Blocks into the Drawing Creating Annotative Blocks Example - Creating Annotative Blocks Using Write Block tool Example - Using Write Block tool Creating Dynamic Blocks Example - Creating Dynamic Blocks	1
18	**Adding and Managing Attributes** Concept of Attributes Defining Attributes Example - Defining Attributes Editing Attributes Managing Attributes	1
19	**Drawing Utilities 1** Using Drawing Utility tools Assigning Drawing Properties to an Object Using List tool Using ID Point tool Using Quick Select tool Using Select All tool Using Copyclip, Cutclip, and Pasteclip tools	1
20	**Drawing Utilities 1** Using PDFIMPORT and PDFATTACH tools Using Attach tool Using Tool Palettes in AutoCAD Creating Custom Tool Palettes	1
21	**Creating and Managing Groups** Creating Groups Editing Groups Ungrouping Entities Managing Groups	1
22	**Creating an Isometric Drawing** Example - Creating an Isometric Drawing	1
23	**Practice Session**	1
24	**3D Modeling 1** Using Primitive tools Using Extrude tool Using Loft tool	1
25	**3D Modeling 2** Using Revolve tool Using Sweep tool	1

	Using Presspull tool	
26	**3D Modeling 3** Using SOLIDUNION and SOLIDSUBTRACT tools Using SOLIDINTERSECT and INTERFERE tools Using Slice and Thicken tools	
27	**3D Modeling 4** Using 3D Move and 3D Rotate tools Using 3D Scale tool Using 3D Mirror tool Using 3D Align tool	1
28	**3D Modeling 4** Generating Orthographic Views	1
29	**Understanding Page Setup** Working with Pagesetups Creating a New Pagesetup Importing Pagesetups	1
30	**Layout, Plotting, and Plot style** Plotting Drawings Adding Plotters Creating Plot Styles Creating Color Dependent Plot Styles Creating Named Plot Styles Example - Creating Named Plot Style	1
31	**Adding Title Block** Creating a Title Block Adding Fields to the Title Block and using it in a Drawing	1
32	**Practice Session**	1

Add-on Course: AutoCAD Basics

Teaching Scheme: 06 Hour/day.
Examination Scheme: College Assessment: 60 Marks exam + Assignment
Total Course Duration: 32 Hours.
Teaching Faculty: (In-House) Archis Sukhadeo Dhawale

Course Coordinator

HOD, MECHANICAL

Pls give more emphasis on hands on Practise instead of theoretical approach.
Contents of the course are found to be OK.

Unitech Reclamation Services

30.01.22

Proprietor

Sanatkumar Manjre

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DEPARTMENT OF MECHANICAL ENGINEERING

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Ref No.: SBJITMR/ME/2021-22/ODD/N-173 **Date:** -28/01/2022

Notice

All the students of 2nd year department of Mechanical Engineering are hereby informed that the department is organizing a course on **"AutoCAD (Certificate Course / Value Added Course)".** The course will starts from 31st of Jan. 2022. (Online mode - Google Meet).

All students of 2nd year should attend the course compulsorily. The detailed schedule of the course is given below -

Sr. No.	Module/ Topic Name	Date	Time
1	Introduction, Using Drawing Tools, Using Modify Tools	31-01-2022	10:30 AM to 1:30 PM 2:30 PM to 5:30 PM
2	Using Modify Tools, Using Status Bar, Writing Standard and Annotative Texts, Adding Standard and Annotative Dimensions	01-02-2022	
3	Adding Leaders and Tables, Adding and Managing Constraints, Working with Views and Viewports, Working with Blocks, Adding and Managing Attributes,	02-02-2022	
4	Drawing Utilities, Creating and Managing Groups, Creating an Isometric Drawing, 3D Modeling	03-02-2022	
5	3D Modeling, Layout, Plotting, and Plot style, Adding Title Block	04-02-2022	
6	Test of 60 marks (90 minutes) + Assignment of 40 marks	05-02-2022	11:30 AM to 1:00 PM

Students will be eligible for incentive marks, based on the above course, as per the incentive scheme given in academic rules and regulations.

Coordinators

Head of the Department

S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR.

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DEPARTMENT OF MECHANICAL ENGINEERING

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Ref. No:. SBJITMR/ME/2021-22/EVEN/C-173 Date: 28/01/2022

To
The Principal,
SBJITMR, Nagpur.

Subject: Value-added course on "**AutoCAD**" for 2nd year B. Tech Mechanical Engineering students for your kind approval

Respected Sir,

The department of Mechanical Engineering is organizing a Value-Added Course on **"AutoCAD"** (30 hours) from **31st January 2022** and **05th February 2022** for 2nd year B. Tech Mechanical Engineering students. The evaluation scheme is as follows:

Sr. No.	Particulars	Total Marks	Weightage	Passing Marks
1	Attendance (Above 80%)	10M	10%	10M
2	Final Assignment (02 – 20 Marks/ each)	40M	90%	45M
3	Final Exam (90 Minutes – 50 Marks)	50M		
	Total Marks	**100M**	**100%**	**55M**

Criteria for Passing:

1. Attendance - 80%
2. Assignment and Exam - 45 Marks

Note:

- Incentive Marks will be given to the student who passed in value added course.

I request you to kindly, approve the same.

Course Coordinator

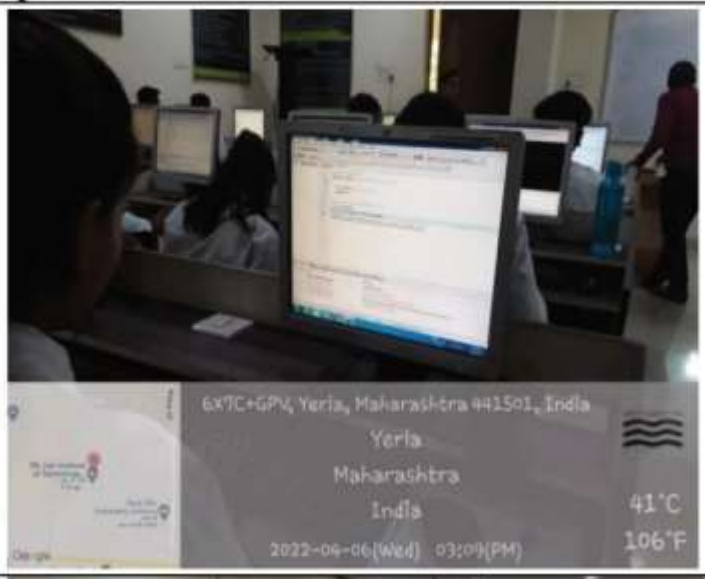
Head of Department

Activity Report

Session: 2021-22 (EVEN)

Report Summary	
Name of Activity	Value Added Course on "C and Data Structures"
Date of Activity	04/04/2022 – 09/04/2022 (10.30 AM -05.30 PM)
Name of faculty members	Prof. Roshani Talmale and Prof. Yogesh Katre, Assistant Professor, Department of Computer Science and Engineering, SBJITMR, Nagpur
Name of Internal Coordinator	Mr. Ajay Joshi.
Place of Activity	F106, Computer Centre, First Year Engineering, SBJITMR, Nagpur
Purpose of Activity	The purpose of this course was to introduce C programming and data structures and also to develop analytical, logical, Problem-Solving and programming skills that will enhance their employability.
No. of students participated	107 (Second Year)
Summary of Activity	Department of Mechanical Engineering, S.B. Jain Institute of Technology Management and Research, in association with the Department of Computer Science and Engineering, SBJITMR, Nagpur has organized a Value Added Course on "C and Data Structures" for second-year students from 4th April 2022 to 9th April 2022. The session started with the course introduction, Course Objectives, Course Outcomes and Course Contents. The course was divided into SIX Modules (Total course duration 36 Hour). This course was conducted in the computer lab, so that students were also able to do perform the task simultaneously. **Day 1**: Prof. Roshani Talmale explained about the Introduction of C, Identifiers, Data Types, Variables, Constants, Input / Output and Operators (Arithmetic, Relational, and Logical). **Day 2:** Prof. Roshani Talmale explained about the Statements, Selection Statements (Decisions Making), if and switch statements, Repetition statements (Loops)-while, for and do-while statements. **Day 3**: Prof. Roshani Talmale explained the concept of Arrays, one-dimensional arrays and two – dimensional arrays. Prof. Yogesh Katre explained the Basic Concepts of Pointers and the Concept of Structures. **Day 4**: Prof. Roshani Talmal and Prof. Yogesh Katre explained about the Functions, Introduction to Structured Programming, and user defined functions. **Day 5**: Prof. Roshani Talmale explained about the Data Structures, Type-linear data structure & nonlinear data structure, advantages, Concept of Stack, applications, Stack declaration using array, operations on stack and program implementation using stack **Day 6**: Prof. Roshani Talmale explained about the Concept of Queue, applications, types of Queue, declaration using array, operations on Queue, program implementation Queue, Linked List concept. On each day there was an MCQ test and homework for the students. Students enjoyed the value-added course and asks various doubts.

Photographs



HOD, ME

Details of data recorded			
Sr. No.	**Details of Document**	**Record present**	**Remark**
1	Approval note	Yes	Attached
2	Syllabus	Yes	Attached
3	Notice Made	Yes	SBJITMR/ME/2021-22/EVEN/N-249
4	Circular Made	Yes	SBJITMR/ME/2021-22/ EVEN /C-249
5	Attendance	Yes	Attached
6	Feedback Analysis	Yes	Attached
7	Impact Analysis	Yes	Attached
8	Course Completion Test	Yes	Attached
9	Sample Certificate	Yes	Attached

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1. Approval note

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APPROVAL NOTE

Date: 28/03/2022

1. To enhance transferable and life skills to the students and enhance programming skills of students, the value added course/ certification course on "C and Data Structures" is proposed to be undertaken.

COURSE NAME: C AND DATA STRUCTURES

COURSE TYPE: VALUE ADDED COURSE/ CERTIFICATION COURSE

COURSE DURATION: 36 HOURS

COURSE ELIGIBILITY FOR INCENTIVE MARKS: YES

2. This course shall help students to develop analytical, logical, Problem-Solving and programming skills which will enhance their employability. The content of the course are taken from NPTEL & Coursera platforms and are relevant to the current industry requirement.

3. Hence, the course is put up for approval.

Enclosure: Course structure along with course syllabus

28/03/22

Chairman, BoS (ME) **Dean Academics** **Principal**

Subject Expert-I **Subject Expert-II**

2. Syllabus

S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR.

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DEPARTMENT OF MECHANICAL ENGINEERING

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YEAR/ SEMESTER: II/ IV

Course Type	Course Title	Course Duration (Hr.)
Value Added Course	C & Data Structure	36

COURSE OBJECTIVES

The objective of this course is -

Students should be able to understand the fundamental concept of C & Data Structures and to emphasize the importance in developing programs.

COURSE OUTCOMES

Students will be able to -

[1] CO1: Acquire the knowledge of C & apply the concepts to solve the problem.

[2] CO2: Understand basic data structures such as arrays, linked lists, stacks and queues.

SYLLABUS

Module I: Introduction: Identifiers, Data Types, Variables, Constants, Input / Output, Operators (Arithmetic, Relational, Logical)

Module II: Statements: Selection Statements (Decisions Making) – if and switch statements, Repetition statements (Loops)-while, for, do-while statements

Module III: Arrays: Basic concepts, one-dimensional arrays, two – dimensional arrays, Pointers – Introduction (Basic Concepts),Concept of Structure

Module IV: Functions: Introduction to Structured Programming, Functions- basics, user defined functions.

Module V: Data Structure : Type-linear data structure & nonlinear data structure, advantages

Stack: Concept of Stack, applications, Stack declaration using array, operations on stack, program implementation using stack

Module VI: Queue: Concept of Queue, applications, types of Queue, declaration using array, operations on Queue, program implementation Queue, Linked List concept

Total Hours: 36

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Value Added Course on Campus Recruitment Training

S. B. Jain Institute of Technology, Research and Management Nagpur, Department of Business Administration has successfully organized online soft skill training sessions of 30 hours from 17th to 27th January, 2022 under value added courses in association with Rubicon, Pune. This Session was a great experience and learning for students as they have gone through the various topics that will help students in building up their skills.

The speaker Mrs. Kripa Trivedi is a professional corporate and educational trainer. She has a professional experience as a professional freelancer trainer for soft skills. With reference to professional experience she is working on all area currently across Nation.

Mrs. Kripa on day one elucidated on expectation setting, further guided with the topics such as Ice breaking, Organizational Structure, SWOT Analysis, Corporate Jargons, Public Speaking, Presentation Skills, Email Etiquettes, CV building, Grooming.

The session were quite interactive and fruitful for the students with ample of practical knowledge of self building.

Dr. Mahesh Chopde

(Value Added Courses – Incharge)

Dr. Himanshu Tiwari

(Head of Department)

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Curriculum - CRT

Sr. No.	Topic	Learning Objectives	Duration in Hours
1	Expectation setting	To learn Industry expectations from freshers	3
2	Ice breaking	To know more about the trainer & candidates	3
3	Organizational Structure	To learn Organizational structure	2
4	SWOT Analysis	To identify their Strength/Weakness/Opportunities/ Threat	2
5	Corporate Jargons	To learn most commonly used words in corporates	2
6	Public Speaking	To eliminate stage fear	2
7	Presentation Skills	To articulate your thoughts through Power point presentation	2
8	E-mail Etiquette	To learn E-mail writing skills	2
9	Grooming	Dress to impress/ Proximity/ Personal hygiene/	2
10	Body language	To learn positive body language	2
11	Telephone Etiquette	To handle telephonic round of interview/ To learn call mechani	2
12	Group Discussion	To access candidates' public speaking skills	2
13	Personal Interview	To perform well during interviews	4
			Total - 30 Hours

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Soft Skill Training (CRT) Schedule - 2022
MBA Batch 2002-22

Sr. No.	Date	Day	Time
1	17.01.2022	Monday	7 am to 10 am
2	18.01.2022	Tuesday	7 am to 10 am
3	19.01.2022	Wednesday	7 am to 10 am
4	20.01.2022	Thursday	7 am to 10 am
5	21.01.2022	Friday	7 am to 10 am
6	22.01.2022	Saturday	7 am to 10 am
7	23.01.2022	Sunday	7 am to 10 am
8	24.01.2022	Monday	7 am to 10 am
9	25.01.2022	Tuesday	7 am to 10 am
10	27.01.2022	Thursday	7 am to 10 am

HOD MBA
Dr. Himanshu Tiwari