

Skill Enhancement Program (SEP)-2022

Name of Department	Department of IT
Module Name	Google Services
Module Coordinators	1)Prof. Vikas Sejwar 2)Prof. Abhilash Sonkar 3)Prof. Neha Bhardwaj
Module Objective	Google offers various services that makes daily tasks friendly. It is just like an assistant. Most of the things depend on data, Google help to manage and share data with their various applications.
Module Content	Google drive, calendar, Google classroom and Google cloud services
Module Methodology	The workshop will start with theoretical concept of Google services. Then various hands on session will be conducted on various Google services..
Module Outcome/ Impact	<ul style="list-style-type: none"> • Understand the need of Google services. • Understand how to use these services to make life easy.
Duration	4 Weeks

	Day	Module Contents to be covered/Interactive Session/Assignment/Quiz/Exercises/Daily practice sheets (DPP)/Tutorial/Project etc (3:00 PM onward, 2-3 Hrs/ Day)	Faculty
Week 1	Mon to Fri	Introduction to Google Drive, Data uploading, downloading, Sharing & Synchronization. Website development & management using Google sites. Google Class Room & Assessment using Google class room services Discussion, Hands-on session, Weekly Quiz & Assignment	Prof. Vikas Sejwar Prof. Abhilash Sonkar Prof. Neha Bhardwaj
Week 2	Mon to Fri	Basics of Google forms, Google forms Creating, Sharing, collaborating online forms. Video management using YouTube, Creating	Prof. Vikas Sejwar Prof. Abhilash Sonkar Prof. Neha Bhardwaj

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		and managing YouTube channels. Work Smarter using docs.	
Week 3	Mon to Fri	Work Smarter using Spread Sheets, Work Smarter using slides, Organize stuff using Photos, Contacts, Calendar & Keep, Stay in touch using Gmail, Google Allo. Google Duo. Discussion, Hands-on session, Weekly Quiz & Assignment	Prof. Vikas Sejwar Prof. Abhilash Sonkar Prof. Neha Bhardwaj
Week 4	Mon to Fri	Google plus Grow your business using AdWords, AdSense, Analytics & Google My Business, Google Search, Google Map, Google Translate, chrome, Google cloud print, Google Group, Google Blogger & Google Survey, Google Trends, Google Earth. GFS. Discussion, Hands-on session, Weekly Quiz & Assignment	Prof. Vikas Sejwar Prof. Abhilash Sonkar Prof. Neha Bhardwaj

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 3) Prof. Neha Bhardwaj: nehabhardwaj@mitsgwalior.in

Finishing School Program (Internship)-2022

Name of Department	Department of Information Technology
Module Name	Deep Learning – Basics to Advance
Module Coordinators	Prof.Punit Kumar Johari
Module Objective	Deep Learning is a subfield of machine learning concerned with algorithms inspired by the structure and function of the brain called artificial neural networks. A function imitates the workings of the human brain in processing data and creating patterns for use in decision-making. Learn Deep Learning, Transfer Learning and Neural Networks using the latest frameworks.
Module Content	<ul style="list-style-type: none"> • An Introduction to Deep Learning, Perceptron: Perceptron implementation using python, Python scripting & modular coding for Perceptron, Python logging basics and docstrings, Python packaging, Github actions, and PyPI. Multilayer Perceptron • Forward propagation • Why we need Activation function? • ANN implementation using tf.keras, ANN with Callbacks Tensorboard Early Stopping Model Checkpointing • Vector • Differentiation • Partial differentiation • Maxima and minima concept • Gradient descent basics • In-depth understanding of Gradient descent • Chain rule • Back propagation • General problems in training Neural Networks • Vanishing and Exploding gradients • Activation function basics • Weight initialization • Activation functions • Transfer learning • Batch normalization • Deep Learning Advance topics
Module Methodology	The module will start with theoretical concept of Neural Network,

Finishing School Program (Internship)-2022

	Perceptron, Deep Learning concepts, Further, Various hands-on session is scheduled on various freeware software used in Deep Learning such as: Python, keras, anaconda, Numpy, Tensorboard etc.
Module Outcome/ Impact	<ul style="list-style-type: none">• Understand the basic concepts of ANN, Deep Learning.• Identify the deep learning algorithms which are more appropriate for various types of learning tasks in various domains.• Implement deep learning algorithms and solve real-world problems.
Duration	4 Weeks

Eligibility and Important Instructions:-

1. The Finishing School Program (Training/Internship) is designed only for Pre-final & Final Year students of all Departments.
2. The students may apply online.
3. The Finishing School Program/ Summer Internship Program is free for the participants of Pre-final & Final year students of MITS, Gwalior.
4. The participants outside the Institute may also join the Program on payment basis.
5. This module will be conducted under the Finishing School Program, which will be considered equivalent to Internship of Pre-final year students who could not get any Internship during this situation.
6. Duration of this program will be of four weeks which is equivalent to summer Internship period as per AICTE and our Institute policy. Daily no. of hours of online training may be flexible.
7. Certificates will be issued to candidates who have attendance 75% or more and also score more than 60% in the test.