National Institute of Business Management
School of Computing and Engineering
Course work | Assessment Announcement Sheet

NIBM | POWERING GREAT MINDS

Course Name	HDSE		
Module Name	INTERNET OF THINGS		
Batch	23.2/23.3		
Learning Outcomes Covered (Mention according to the Module Descriptor)	1.Explain the concept of IoT with their building blocks of IOT. 2. Apply communication protocols and edge computing. 3. Ability to work with lead IOT platforms.		
**Assessment	CW No**	CW1		

Assessment Mode	**Group**	**Group (if it is group mode only)**	
		Group Size	**Grouping Criteria**
		3	

Assessment Type	**Take home assignment**
	If other specify
**Hand in Date	Time**	24/12/2024
**Hand out Date	Time**	31/12/2024
Submission Details (Format and Location)	Report Submission to LMS + Presentation and VIVA
Plagiarism Criteria	Zero marks AI content should be less than 5% / similarity should be less than 10%

Introduction

Internet of things or IoT is a system of connected devices through the internet. It involves mechanical devices, sensors, home appliances, vehicles, etc., apart from desktop, mobile, and laptop. These devices are designed in such a way that they can share data with other devices over the internet. IoT basically provides a platform for devices to interact and collaborate with each other.

Scenario

In this course work you are assigned to do a research project to create an IOT application which is useful in our day today life using Nodemcu, Raspberry pi, sensors and so on.

Task 01–Prototype

Create a working **prototype** for the proposed system using real time components on a breadboard or other convenient medium.

You may use any sensors, Gates and other electronic components as you wish.

You may use **firebase** as an online database and develop mobile app using any convenient platform.

Task 02 –Report

Write a report based on your project

Report should have,

- Abstract
- Acknowledgment
- Table of Content
- Table of Figures
- Introduction
- Methodology
- Discussion
- Future Implementations
- References
- Gantt Chart

Final Report of the project should be uploaded to the LMS on or before 31/12/2024

Task 03 – Presentation and VIVA

Viva date: 10/01/2025

Presentation

Each group have to do a presentation addressing followings.
- Introduction about your project
- Sensors and actuators used
- Arduino Program
- Demonstration of working IOT System including mobile app.

Each Student of the group should present.

VIVA
During the VIVA Session each student is going to be evaluated individually.

General Guidelines:

Students can do this project as a Group Project of Maximum 4 Members in each team.

Task	Tasks	Marks
01	Prototype/ Report / Presentation and VIVA	100 Marks
	Total Marks	**100 Marks**