DEPARTMENT OF MATHEMATICS AND SCIENCE
ORISSA SCHOOL OF MINING ENGENEERING, KEONJHAR

LESSON PLAN		
Discipline: **Mechanical Engineering**	Semester: **1st semester**	Name of the Teaching Faculty : **Akash Kumar Sahoo**
Subject: **Introduction to IT System-I(B)** Sub code: **Th-1(B)**	No of days /week class allotted:**03/week**	Semester from Date:**16/08/2024 to 24/12/2024** No of weeks:**20**

Month	Week	No of periods available	Theory topics to be covered
August	1st	01P	Basic Internet skills (About Networks(LAN, MAN, WAN, PAN), About Internet)
	2nd	03P	Application of Internet, Internet Basics(WWW, Domain name, URL, HTTP, HTTPs, FTP, Hyperlink, Browser, Webpage, Website, Search Engine, ISP, Download, Upload, DNS, TCP/IP, Modem, Cloud computing)
	3rd	03P	Understanding A Browser (Working, Types of Browser(GOOGLE CHROME, MOZILA FIREFOX, MICROSOFT-EDGE, APPLE SAFARI, UC BROWSER, OPERAMINI etc), Element of Chrome Browser.
September.	4th	03p	Features of Web browser, Search Engine (Working, Types (Google, Microsoft-bing, Yahoo, Duck-duck go, Yandex, Baidu etc), Bydefault Search Engine of Each Browser.
			Types of Web Searches(Navigational, Informational, Transactional), how Search Engine works(Crawling, Indexing, retrieving & Ranking.
			Google Search Symbols, Operator, Command.
	5th	03P	Digital India Program(Awareness about digital India program, Pillars of Digital India
			Digital India Portals (Infrastructure, Service Based, Empowerment), State portals, College Portals..
			Block Diagram of computer (Input unit, MU, CU, ALU, Output unit).
	6th	03p	Measurement Unit of Digital data, Types of computer Memory.
			Display and its Types.
			Input and Output devices (Working, Examples), HDD & SSD and its Comparison.
	7th	03p	Discussion about OPERATING SYSTEM(like desktop os and mobile os), Need of OS, Types of Os.
			Monthly Test-01 and Discussion
			Installation of LINUX and WINDOWS OS.
October	8th	03P	About Unix OS, Architecture of Unix OS(Hardware, Kernel, Shell, Application software, User).
			Features of Shell, Shell types etc,Vi editor(Working & its Features) .
			Basic command of Unix OS, Practice question related to Operating System.
	9th	03P	HTML(Introduction, about Website and webpages).
			Structure of an HTML Document, Basic HTML Tags.
			1st Internal Assessment.
	10th	03P	Listing tags, adding Graphics to the HTML.
			About CSS and Way to apply CSS in HTML documents.
	11th	02P	HTML Forms with input Tags. Create a web Form for Annual day Participation
			Monthly Test-02 and Discussion

November	12th	01P	Introduction to open office software and installation process of open office, advantage of open office over ms-office.
	13th	03P	Open-office writer, parts of writer interface(title bar, Menu bar, Standard tool bar, formatting tool bar, side tool bar, status bar, Ruler).
			Cut, Copy, paste, insert image, insert Special Character, font color, back ground color, font(style, Size, alignment(Left, Right, Center, justify)).
			Finding and replacing of text, spelling and grammar checking, with one practice question is Student create their own Resume with open office writer.
	14th	02P	About Open-office CALC, Advantage of Calc over Writer,.
			parts of CALC interface(Title bar, menu bar, standard tool bar, Formatting Tool Bar, side bar, Status bar), Formula bar, creating charts, Creating Formula.
	15th	03P	One practice question- Student Create a Bill of a shop and Create their own mark sheet to calculate sum, percentage, grade, and pass or Fail.
	16th	03P	Second practice question- Create their own mark sheet to calculate sum, percentage, grade, and pass or Fail.
			Monthly Test-03 and Discussion
December	17th	03P	About open-Office impress, Creating new presentation, Parts of impress Interface, Applying animation effect, insert images, Printing Presentation.
			One practice question- Create printer Presentation using impress.
			2nd Internal Assessment.
	18th	03P	Introduction to information security, common information security attacks and vulnerabilities (Malware, Worm, Spyware, Adware, Keyloggers, Virus, Sweepers, Backdoor)
			Social Engineering Attacks (Phishing, Vishing, Smishing, Baiting, Quid Pro quo scam),Network Threat. General Internet Browsing
			Social networking.
	19th	03P	Practice question related to Information Security.
			Practice question related to Unit-1(Basic Internet skill).
			Practice question related to Unit-2(operating system)
	20th	03P	Practice question related to Unit-3(HTML &CSS) & unit-4 (Open-office)
			Revision &Previous year question & Answer discussion.
			. VERY SIMILAR TEST/MOCK TEST