LESSON PLAN

Name	:	Er. Kawaljeet Singh
Discipline	:	ECE
Semester	:	6th
Subject	:	Wireless and Mobile Communication
Lesson Plan duration	:	13 weeks (Jan. 2018 to April 2018)

Week	Theory		Practical	
	Lecture Day	Topic	Practical Day	
1st	1	Wireless communication Basics Advantages of wireless communication	1st	Study the features, specification and working of cellular mobile
	2	Application of wireless communication		
	3	Electromagnetic waves & uses		
	4	Frequency Spectrum used		
2nd	5	Paging system & working	2nd	Signal strength measurement of various points from a transmitting antenna/cordless phone
	6	Cordless Telephone System		
	7	Cellular Telephone System		
	8	Comparison of above wireless communication systems		
3rd	9	Revise Unit 1 Topic	3rd	Observing call processing of GSM trainer Kit
	10	Cellular telephone system Introduction		
	11	First Generation & Second Generation		
	12	Third Generation Introduction		
4th	13	4th Generation of cellular telephone system	4th	Visit of a Mobile Switching Centre(MSC)
	14	Test unit 1 topic		
	15	Cell area (Cellular Concept)		
	16	Capacity of cell		
5th	17	Frequency Response	5th	Demonstration of Base Trans Receiver(BTS) with nearby cellular tower
	18	Co-channel Interference		
	19	Adjacent channel Interference		
	20	Power Control for reducing Interference		
6th	21	Cell Splitting	6th	Observing call processing of
	22	Cell Sectoring		

	23	Repeater for Range Extension		CDMA trainer Kit
	24	Assignment -1		
7th	25	Multiple Access Techniques for Wireless Communication	7th	Pairing of two devices using Bluetooth
	26	FDMA & ITS FEATURES		
	27	Time Division Multiple Access		
	28	Code Division Multiple Access		
8th	29	Spread Spectrum Multiple Access	8th	Data transfer using WI-FI Instructional
	30	Frequency Hopping spread Spectrum		
	31	Comparison of FDMA/TDMA/CDMA		
	32	Frequency Division Multiple Access		
9th	33	Time Division Multiple Access		
	34	Test of Unit 3 Topic		
	35	Introduction of GSM		
	36	Architecture of GSM		
10th	37	GSM Operation		
	38	GSM –User Services		
	39	CDMA System		
	40	Comparison of GSM & CDMA		
11th	41	GPRS		
	42	GPRS Classes		
	43	GPS System		
	44	Blue tooth & Operation		
12th	45	Introduction to WI-FI		
	46	Assignment-2		
	47	Test Of GSM & CDMA		
	48	Basic Block Diagram of Digital and Data Communication System.		
13th	49	Analog & Digital Signal		
	50	Analog System		

LESSON PLAN

Name : Er. Navneet Singh

Discipline : ECE

Semester : 6th

Subject : Medical Electronics

Lesson Plan duration : 13 weeks (Jan. 2018 to April 2018)

Week	Theory		Practical	
	Lecture Day	Topic	Practical Day	
1st	1	Anatomy and physiology	1st	To operate and feminization with: a) B.P. Apparatus b) ECG Machine
	2	Elementary ideas of cell structure		
	3	Heart and circulatory system.		
	4	Central nervous system		
2nd	5	Muscle action	2nd	To measure the concentration of blood sugar with Glucometer (fasting, P.P., Random)
	6	Respiratory system		
	7	Body temperature and reproduction system		
	8	Medical Electronics Equipments classification		
3rd	9	application and specifications of diagnostic	3rd	To measure the a) Respiration rate b) Pulse rate
	10	therapeutic and clinical laboratory equipment		
	11	Method of operation Medical Electronics Equipments		
	12	Revision of unit -1		
4th	13	Electrodes	4th	Installation of small medical equipment in laboratories of Hospital precautions to be taken
	14	Test/Assignment-1		
	15	Electrode tissue interface,		
	16	Bioelectric signals, Bio electrodes, Electrode,		
5th	17	Types of Electrodes	5th	Study of large medical equipment in Hospital / Nursing home
	18	Electrodes used for ECG , EEG		
	19	Transducers & operation		
	20	Typical signals from physiological parameters,		
6th	21	Pressure transducer	6th	Operation and use of Electro-physiotherapy
	22	Flow transducer		
	23	Temperature transducer		
	24	Pulse sensor		
7th	25	Respiration sensor	7th	Maintenance schedule for different equipment and their records in
	26	Block diagram of ECG Machine		
	27	Continued...		
	28	Application of ECG Machine		

				a hospital
8th	29	Block diagram of EEG Machine		
	30	Continued…		
	31	Application of EEG Machine		
	32	Block Diagram of EMG Machine		
9th	33	Continued…		
	34	Application of EMG Machine		
	35	Test/Assignment-2		
	36	Heart Rate Measurement		
10th	37	Continued…		
	38	Pulse Rate Measurement		
	39	Continued…		
	40	Respiration Rate Measurement		
11th	41	Continued…		
	42	Blood Pressure Measurement		
	43	Continued…		
	44	Principle of defibrillator and pace mark		
12th	45	Use of Microprocessor in patent monitoring		
	46	Test/Assignment-3		
	47	Gross Current Shock		
	48	Micro Current Shock		
13th	49	Special design from safety consideration		
	50	Safety Standards		

LESSON PLAN

Name : Er. Sandeep kumar

Discipline : ECE

Semester : 6th

Subject : MOCS

Lesson Plan duration : 12 weeks (Jan. 2018 to April 2018)

Week	Theory		Practical	
	Lecture Day	Topic	Practical Day	
1st	1	Mother Board Introduction to different type of mother boards	1st	Operation, Maintenance, Installation and Testing Monitors (LCD and LED)
	2	Single Board Based System,		
	3	Block diagram of motherboard		
	4	Installation of Computer System		
2nd	5	Buses and Ports Introduction	2nd	Operation, Maintenance, Installation and Testing HDD, Partitioning and Formatting
	6	Different type of Buses PCI,		
	7	SCSI and Serial and Parallel ports		
	8	LPTI, USB. RS 232 C		
3rd	9	use of computer for instrumentation	3rd	Operation, Maintenance, Installation and Testing DOT Matrix Printer
	10	Assignment 1		
	11	Test 1		
	12	Memory, Principle of Hard Disk Drive		
4th	13	Construction of Hard Disk Drive .	4th	Operation, Maintenance, Installation and Testing Laser Printer
	14	Floppy Disk Controller		
	15	Hard Disk Controller		
	16	Pen Drives revision of HDD		
5th	17	common faults with hard disk drive	5th	Installation of Mother board based on latest microprocessor and chipset CMOS Set up
	18	Common faults with floppy disk drive RAM Module.		
	19	Block Diagram of keyboard Controller		
	20	keyboard switches, keyboard		
6th	21	Mouse and its types	6th	Operation, Maintenance, Installation and Testing DVD-ROM/DVD Writer
	22	common faults with mouse and optical mouse		
	23	Introduction to scanner, digitizer		
	24	Test 2/Assignment 2		
7th	25	CRT Block Diagram	7th	Identification of Connectors and Cables
	26	Principle of operation of Computer Monitor		
	27	Difference between TV and		

		Computer Monitor, introduction to solid state displays		
	28	Video display Adaptors (monochrome and Colour)		
8th	29	Printing Mechanism, Construction Dot Matrix Printer	8th	Operation of MODEM /ROUTER/SWITCH
	30	working principles of Dot Matrix Printer		
	31	Inkjet Printer		
	32	Laser Printer		
9th	33	Printer Controller	9th	Installation of any operating system
	34	Centronics Interface, Signals from PC to Printer and Printer to PC.		
	35	Introduction Networking Devices		
	36	Idea about LAN, WAN		
10th	37	Idea about Wi-Fi, WLAN	10th	Establish LAN,WLAN, using Networking Devices
	38	ROUTER,		
	39	SWITCH		
	40	HUB		
11th	41	Need and functions of modems	11th	Study of LAPTOP, IPAD, Smart Phone
	42	Modems: Need of modems		
	43	functions of modems		
	44	Laptop: Their need,		
12th	45	Test/assignment 3		
	46	function and applications of laptop		
	47	Revision of unit 6th		
	48	Revision of unit 4th		

Lesson Plan

Name of the Faculty : Mr. .Sanjeev Kumar

Discipline : Electronics and communication Engineering

Semester : 6th

Subject : **ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT**

Lesson Plan duration : 15 weeks (from January, 2018 to April, 2018)

Work load per week : Lecture – 03

Week	Theory	
	Lecture Day	Topic (Including assessment/test)
1st	1st	Introduction: Concept /Meaning and need of entrepreneurship
	2nd	Qualities and functions of entrepreneur and barriers in entrepreneurship
	3rd	Sole proprietorship and partnership forms of business organization
2nd	4th	Schemes of assistance by entrepreneurial support agencies at National level organization
	5th	Schemes of assistance by entrepreneurial support agencies at State level organization
	6th	Schemes of assistance by entrepreneurial support agencies at District level organization
3rd	7th	NSIC, NRDC, DC

	8th	MSME, SIDBI
	9th	Commercial Banks, SFC's TCO
4th	10th	KVIB, DIC
	11th	Technology Business Incubators (TBI) Science and Technology
		Entrepreneur Parks
	12th	Market Survey and Opportunity Identification: Scanning of the business environment
5th	13th	Salient features of National and State industrial policies and resultant business opportunities
	14th	Supply in potential areas of growth,
	15th	Types and conduct of market survey & Assessment of demand
6th	16th	Identifying business opportunity, Considerations in product selection
	17th	1st sessional test (Tentative)
	18th	Assessment
7th	19th	Project report Preparation
	20th	Preliminary project report

	21st	Detailed project report including technical, economic
8th	22nd	Detailed project report including market feasibility
	23rd	Common errors in project report preparations
	24th	Exercises on preparation of project report
9th	25th	Introduction to Management: Definitions and importance of management, Functions of management
	26th	Importance and process of planning, organizing, staffing, directing and controlling, Principles of management (Henri Fayol, F.W. Taylor)
	27th	Concept and structure of an organization & Line organization, Line and staff organization & Functional Organisation
10th	28th	2nd sessional test (Tentative)
	29th	Assessment
	30st	Leadership: Definition and Need, Qualities and functions of a leader, Manager Vs leader, Types of leadership
11th	31nd	Motivation: Definitions and characteristics, Factors affecting motivation
	32rd	Theories of motivation (Maslow, Herzberg, Douglas, McGregor)
	33th	Human Resource Management: Introduction and objective, Introduction to Man power planning, recruitment and selection
12th	34th	Introduction to performance appraisal methods
	35th	Material and Store Management: Introduction functions, and objectives of ABC Analysis and EOQ
	36th	Marketing and sales : Introduction, importance, and its functions, Physical distribution,

13th	37th	Financial Management: Introductions, importance and its functions
	38th	Elementary knowledge of income tax, sales tax, excise duty, custom duty and VAT,
	39th	Customer Relation Management (CRM): Definition and need, Types of CRM
14th	40st	process control, Total employees Involvement
	41nd	Just in time (JIT)
	42rd	Intellectual Property Right (IPR): Introductions, definition and its importance, Infringement related to patents, copy right, trade mark
15th	43th	3rd sessional test (Tentative)
	44th	Assessment
	45th	Revision