**Lesson Plan**

**Name of the Assistant Professor**: Palvinder Singh

**Department:** Electronics & IT

**Subject:** Information Technology (I.T.)

**Lesson Plan:** 17 Weeks (July-November 2018)

|  |  |  |  |  |  |  |  |  |  |
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| **WEEK** | **DATE** | **Class: B.Sc(Hons)-IT**  **Sem: III**  **Paper: BSIT-505**  **Subject: Microprocessor and interfacing**  **Days: : M-T-W (3 days** | | **Class: B.Sc(Hons)-IT**  **Sem: III**  **Paper: BSIT-501**  **Subject: Computer System Architecture Days: M-T-W (3 days)** | **Class: B.Sc(Hons)-IT**  **Sem: V**  **Paper: BSIT-105**  **Subject: Analog Communication**  **Days: M-T-W (3 days)** | | **Class: B.Sc(Hons)-IT**  **Sem: V**  **Paper: BSIT-106**  **Subject: Fundamental of computer**  **Days: Th-F-S (3 days)** | |  |
| I | **16-07-2018** | Introduction to 8086 microprocessor, concept of Even and Odd Memory, | | Basic Computer Organisation and Design: Instruction Codes, | **Analog Modulation:-** Communication Model, Modulation | |  | |  |
| **17-07-2018** | Semiconductor memory interfacing | | Computer registers,  Computer Instructions, | AM | |  | |  |
| **18-07-2018** | Examples of Static RAM interfacing | | Timing and Control, | Mathematical equation of AM, sideband of AM | |  | |  |
| **19-07-2018** |  | |  |  | | **Introduction to computer system:-**What is a Computer, Evaluation & Generation of computers | |  |
| **20-07-2018** |  | |  |  | | Evaluation & Generation of computers | |  |
| **21-07-2018** |  | |  |  | | Evaluation & Generation of computers | |  |
| **22-07-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| II | **23-07-2018** | Dynamic RAM interfacing | Instruction Cycle, | | | **Power Relation of AM** | | , | **-** |
| **24-07-2018** | I/O interfacing | Memory reference  instructions, | | | Numerical Problems | |  | **-** |
| **25-07-2018** | Introduction to 8255 | Input-Output and Interrupt, | | | Mathematical equation of FM, sideband of AM | |  | **-** |
| **26-07-2018** |  |  | | |  | | Applications and characteristics of computers |  |
| **27-07-2018** |  |  | | |  | | elements of Computer (Hardware, Software), |  |
| **28-07-2018** |  |  | | |  | | common input & output devices (Basic idea). |  |
| **29-07-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| III | **30-07-2018** | CWR | Design of Basic computer, | | | Mathematical equation of FM, sideband of AM | | **-** | **-** |
| **31-07-2018** | **MARTYRDOM DAY OF SHAHEED UDHAM SINGH HOLIDAY** | | | | | | | |
| **01-08-2018** | Keyboard Interfacing |  | | | Numerical Problems | | **-** | **-** |
| **02-08-2018** |  |  | | |  | | Types of Computers: Micro, Mini, Main frame, |  |
| **03-08-2018** |  |  | | |  | | super computers, Block diagram of PC architecture, |  |
| **04-08-2018** |  |  | | |  | | concept of files and directories |  |
| **05-08-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| IV | **06-08-2018** | interfacing Examples | Design of Basic computer | | | Demodulation, PM (Quantitatively & Qualitatively | |  |  |
| **07-08-2018** | I/O mapped and Memory Mapped scheme | Design of  accumulator logic | | | Relationship between FM & PM | |  |  |
| **08-08-2018** | Introduction to A/D | Revision | | |  | |  |  |
| **09-08-2018** |  |  | | |  | | Sequential and direct access devices, |  |
| **10-08-2018** |  |  | | |  | | Magnetic disk |  |
| **11-08-2018** |  |  | | |  | | Floppy Disk, |  |
| **12-08-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| V | **13-08-2018** | D/A convertor and its IC | doubt | | | Revision | | **-** | **-** |
| **14-08-2018** | Interfacing A/D data converters, | Register Transfer and Microoperations: Register Transfer Language (RTL), | | | **Class Test** | | **-** | **-** |
| **15-08-2018** | **INDEPENDENCE DAY** | | | | | | | |
| **16-08-2018** |  |  | | |  | | Winchester Disk, Mass Storage, |  |
| **17-08-2018** |  |  | | |  | | Optical Disk, |  |
| **18-08-2018** |  |  | | |  | | Magnetic Bubble Memory |  |
| **19-08-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| VI | **20-08-2018** | interfacing D/A converters , various Example , Interconnection topologies, | register  transfer, Bus and Memory Transfers, | | | **Doubt session** | | **-** | **-** |
| **21-08-2018** | Interconnection topologies | Arithmetic Microoperations, Logic  Microoperations, | | | Analog to digital conversion: Pulse Modulation system | | **-** | **-** |
| **22-08-2018** | **IDUL JUHA** | | | | | | | |
| **23-08-2018** |  |  | | |  | | Charged Coupled Device |  |
| **24-08-2018** |  |  | | |  | | Cache Memory |  |
| **25-08-2018** |  |  | | |  | | Storage hierarchy. |  |
| **26-08-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| VII | **27-08-2018** | software aspects of multimicroprocessor systems, | Shift Microoperations, Arithmetic Logic Shift Unit | | | , the sampling theorem for low pass | | **-** | **-** |
| **28-08-2018** | Numeric Processor 8087 | **Revision** | | | Band pass signals, | | **-** | **-** |
| **29-08-2018** | Numeric Processor 8087 | **Class Test** | | | PAM, channel Bandwidth for PAM, sampling rate, natural sampling | | **-** | **-** |
| **30-08-2018** |  |  | | |  | | Revision |  |
| **31-08-2018** |  |  | | |  | | Revision |  |
| **01-09-2018** |  |  | | |  | | Class Test |  |
| **02-09-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| VIII | **03-09-2018** | JANMASHTAMI | | | | | | | |
| **04-09-2018** | **Revision** | Central Processing Unit: General registers Organization | | | quantization of signals, | |  |  |
| **05-09-2018** | **Revision** | Stack Organization, | | | quantization errors | |  |  |
| **06-09-2018** |  |  | | |  | | **Problems Related to Test** |  |
| **07-09-2018** |  |  | | |  | | What is Software, Relationship between Software and Hardware,. |  |
| **08-09-2018** |  |  | | |  | | Types of softwares: System Software (Meaning and its type), |  |
| **09-09-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| IX | **10-09-2018** | Doubt Session | Instruction  formats | | | Revision | |  |  |
| **11-09-2018** | Doubt Session | Addressing Modes | | | **Class Test** | |  |  |
| **12-09-2018** | **TEEJ** | | | | | | | |
| **13-09-2018** |  |  | | |  | | Application software, |  |
| **14-09-2018** |  |  | | |  | | Acquiring Software, |  |
| **15-09-2018** |  |  | | |  | | Software Development Steps, |  |
| **16-09-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| X | **17-09-2018** | **Class test** |  | | |  | |  |  |
| **18-09-2018** | Introduction to stack, stack structure of 8086,  . | Data Transfer and Manipulation, | | | The PCM System | |  |  |
| **19-09-2018** | interrupts and interrupts service routines, | Program Control | | | Bandwidth requirements of PCM, | |  |  |
| **20-09-2018** | [MUHARRAM](https://www.bankbazaar.com/indian-holiday/muharram-holiday.html) | | | | | | | |
| **21-09-2018** |  |  | | |  | | Firmware, Middleware |  |
| **22-09-2018** |  |  | | |  | | **Revision** |  |
| **23-09-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| XI | **24-09-2018** | interrupt cycle of 8086, non maskable interrupt, maskable interrupt | Program interrupt | | | Noise in PCM System,. | |  |  |
| **25-09-2018** | interrupt  programming, passing parameters to procedures, | Reduced Instruction Set Computer (RISC), CISC characteristics | | | Companding | |  |  |
| **26-09-2018** | handling programs of size more than 64K , MACROS | **Revision** | | | DPCM, | |  |  |
| **27-09-2018** |  |  | | |  | | Class Test |  |
| **28-09-2018** |  |  | | |  | | Class Test related Problems |  |
| **29-09-2018** |  |  | | |  | | Windows as an interface, |  |
| **30-09-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| XII | **01-10-2018** | timings and delays | Class Test | | | Delta Modulation System , | |  |  |
| **02-10-2018** | MAHATMA GANDHI JAYANTI | | | | | | | |
| **03-10-2018** | timings and delays | Microprogrammed Control: Control memory; | | | Noise in Delta Modulation System, | |  |  |
| **04-10-2018** |  |  | | |  | | Introduction to desktop, accessories, |  |
| **05-10-2018** |  |  | | |  | | internet: definition, basic services |  |
| **06-10-2018** |  |  | | |  | | Internet uses |  |
| **07-10-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| XIII | **08-10-2018** | Salient features 80286 | Microprogrammed Control: Control memory; | | | Comparison of PCM & DM System | | **-** |  |
| **09-10-2018** | Salient features 80386 | address sequencing | | | **Class Test** | | **-** |  |
| **10-10-2018** | **MAHARAJA AGRASEN JAYANTI** | | | | | | | |
| **11-10-2018** |  |  | | |  | | multimedia: meaning, multimedia |  |
| **12-10-2018** |  |  | | |  | | multimedia components, |  |
| **13-10-2018** |  |  | | |  | | multimedia applications |  |
| **14-10-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| XIV | **15-10-2018** | Salient features 80586 | address sequencing | | | Elements of digital communication | |  |  |
| **16-10-2018** | Salient features , Pentium 4 | microprogram  sequencer | | | Analysis & design of communication system, | |  |  |
| **17-10-2018** | **Revision** |  | | |  | |  |  |
| **18-10-2018** |  |  | | |  | | Word: Introduction of Word, |  |
| **19-10-2018** | [**DUSSHERA**](https://www.bankbazaar.com/indian-holiday/dussehra-holiday.html) | | | | | | | |
| **20-10-2018** |  |  | | |  | | creating, editing a document |  |
| **21-10-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| XV | **22-10-2018** | **Revision** |  | | |  | | **-** | **-** |
| **23-10-2018** | Sessional Test | microprogram  sequencer | | | bit rate, baud rate | | **-** | **-** |
| **24-10-2018** | **MAHARSHI VALMIKI BIRTHDAY** | | | | | | | |
| **25-10-2018** |  |  | | |  | | modifying and formatting a document, |  |
| **26-10-2018** |  |  | | |  | | speller in word, |  |
| **27-10-2018** |  |  | | |  | | Creating and using macros. |  |
| **28-10-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| XVI | **29-10-2018** | Doubt Session regarding sessional test | Design of Control Unit | | | transmission rate, echo canceller, Characteristics of digital Communication | | **-** | **-** |
| **30-10-2018** | Introduction RISC processor, Design Issue | Sessional Test | | | Bandwidth requirement, transmission errors, echo suppressor, | | **-** | **-** |
| **31-10-2018** | Feature of RISC processor | **Doubt of sessional test** | | | Sessional Test | | **-** | **-** |
| **01-11-2018** | **HARYANA DAY** | | | | | | | |
| **02-11-2018** |  |  | | |  | | **Sessional Test** |  |
| **03-11-2018** |  |  | | |  | | Problems related to sessional Test |  |
| **04-11-2018** | **SUNDAY SUNDAY SUNDAY** | | | | | | | |
| XVII | **05-11-2018** | Last question Paper Discussion | Last question Paper Discussion | | | Last question Paper Discussion | | Last question Paper Discussion |  |
| **06-11-2018** | **DIWALI BREAK (VACATION-1)** | | | | | | | |
| **07-11-2018** |
| **08-11-2018** |
| **09-11-2018** |
| **10-11-2018** |
| **11-11-2018** |
| XVIII | **12-11-2018** |
| **13-11-2018** |