

# महाराणा प्रताप पी.जी. कालेज, जंगल धूसड़, गोरखपुर

| कक्षा : बी.एस-सी. भाग-तीन |           |                   | पाठ्यक्रम योजना : सत्र-२०१६-१७ |                             | विषय : इलेक्ट्रॉनिक्स                |
|---------------------------|-----------|-------------------|--------------------------------|-----------------------------|--------------------------------------|
| दिनांक                    | व्याख्यान | प्राध्यापक का नाम | प्रश्नपत्र                     | अध्याय                      | शीर्षक                               |
| 16.07.16                  | 1         | P. V. S.          | I                              | Introduction                | Syllabus & Books                     |
| 18.07.16                  | 2         | P. V. S.          | I                              | EM waves                    | Maxwell's EM field equations         |
| 19.07.16                  | 1         | P. V. S.          | II                             | Difference amp              | Differential input common mode input |
| 20.07.16                  | 1         | P. V. S.          | III                            | Number system               | Radix, decimal                       |
| 21.07.16                  | 2         | P. V. S.          | III                            | Number system               | Binary, octal & hexadecimal          |
| 22.07.16                  |           | P. V. S.          |                                | <b>Class Teaching</b>       |                                      |
| 22.07.16                  | 1         | P. V. S.          | IV                             | Introduction of up          | Functional block diagram of up       |
| 23.07.16                  | 3         | P. V. S.          | I                              | EM waves                    | Poynting theorem                     |
| 23.07.16                  | 4         | P. V. S.          | I                              | EM waves                    | EM wave in free space                |
| 25.07.16                  | 2         | P. V. S.          | II                             | Difference amp              | CMRR                                 |
| 26.07.16                  | 3         | P. V. S.          | III                            | N.S.                        | Conversion of N.S.                   |
| 27.07.16                  | 4         | P. V. S.          | III                            | N.S.                        | Conversion of N.S.                   |
| 28.07.16                  | 2         | P. V. S.          | IV                             | Introduction of up          | It's working                         |
| 29.07.16                  |           | P. V. S.          |                                | <b>Class Teaching/ Test</b> |                                      |
| 29.07.16                  | 5         | P. V. S.          | I                              | T/L                         | V-I relation                         |
| 30.07.16                  | 6         | P. V. S.          | I                              | T/L                         | V-I relation                         |
| 30.07.16                  | 3         | P. V. S.          | II                             | Difference amp              | Darlington pair                      |
| 01.08.16                  | 5         | P. V. S.          | III                            | N.S.                        | Binary arithmetic                    |
| 02.08.16                  | 6         | P. V. S.          | III                            | N.S.                        | BCD & hexadecimal codes              |
| 03.08.16                  | 3         | P. V. S.          | IV                             | Introduction of up          | ROM, RAM                             |
| 04.08.16                  | 4         | P. V. S.          | IV                             | Introduction of up          | CPU, Address bus                     |
| 05.08.16                  |           | P. V. S.          |                                | <b>Class Teaching</b>       |                                      |
| 05.08.16                  | 7         | P. V. S.          | I                              | T/L                         | T/L Constant                         |
| 08.08.16                  | 8         | P. V. S.          | I                              | T/L                         | Impedance & PF                       |
| 09.08.16                  | 4         | P. V. S.          | II                             | Difference amp              | Cas coded amp                        |
| 10.08.16                  | 7         | P. V. S.          | III                            | N.S.                        | Signed numbers                       |
| 11.08.16                  | 8         | P. V. S.          | III                            | N.S.                        | 1's & 2's complement                 |
| 12.08.16                  | 5         | P. V. S.          | IV                             | Introduction of up          | Data bus & control bus               |
| 12.08.16                  | 6         | P. V. S.          | IV                             | Introduction of up          | Architecture of up                   |
| 13.08.16                  |           | P. V. S.          |                                | <b>Class Teaching</b>       |                                      |

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| 13.08.16                  | 7         | P. V. S.          | IV                             | Introduction of up          | General registers                             |
| 16.08.16                  | 9         | P. V. S.          | I                              | T/L                         | Smith chart, DC                               |
| 17.08.16                  | 10        | P. V. S.          | I                              | T/L                         | Matching, co-axial lines                      |
| 19.08.16                  | 5         | P. V. S.          | II                             | Op-amp                      | Characteristics of p-amp                      |
| 19.08.16                  | 9         | P. V. S.          | III                            | N.S.                        | 2's & 2's complement in girthmatic, operation |
| 20.08.16                  | 10        | P. V. S.          | III                            | Boolean algebra             | Boolean function                              |
| 20.08.16                  | 8         | P.V.S.            | IV                             | Introduction of up          | Accumulator, PC, SP                           |
| 22.08.16                  | 9         | P. V. S.          | IV                             | Introduction of up          | Instruction register, decoder                 |
| 23.08.16                  |           | P. V. S.          |                                | <b>Class Teaching</b>       |                                               |
| 24.08.16                  | 11        | P. V. S.          | I                              | Wave guide                  | Rectangular wave guide                        |
| 26.08.16                  | 6         | P. V. S.          | II                             | OP-amp                      | Inverting & non inverting input               |
| 26.08.16                  | 11        | P. V. S.          | III                            | Boolean algebra             | Boolean function                              |
| 27.08.16                  | 12        | P. V. S.          | III                            | Boolean algebra             | Logic gates                                   |
| 27.08.16                  | 10        | P. V. S.          | IV                             | Introduction of up          | Address register, ALU, CU                     |
| 29.08.16                  |           | P. V. S.          |                                | <b>Class Teaching/ Test</b> |                                               |
| 30.08.16                  | 12        | P. V. S.          | I                              | W.G                         | T.E,T.M,TEM modes                             |
| 31.08.16                  | 13        | P. V. S.          | I                              | W.G                         | T.E,T.M,TEM modes                             |
| 01.09.16                  | 14        | P. V. S.          | I                              | OP-Amp                      | offset current & Voltage                      |
| 02.09.16                  | 13        | P. V. S.          | III                            | Boolean Algebra             | logic Gates                                   |
| 02.09.16                  | 14        | P. V. S.          | III                            | Boolean Algebra             | Law of boolian Algebra                        |
| 03.09.16                  | 11        | P. V. S.          | IV                             | 8085 CPU                    | Functional Description                        |
| 03.09.16                  |           | P. V. S.          |                                | <b>Class Teaching</b>       |                                               |
| 05.09.16                  | 15        | P. V. S.          | I                              | W.G                         | Impedance matching                            |
| 06.09.16                  | 16        | P. V. S.          | I                              | Free Space propagation      | Ground waves, space waves                     |
| 07.09.16                  | 7         | P. V. S.          | II                             | op-amp                      | SR & PBW                                      |
| 08.09.16                  | 15        | P. V. S.          | III                            | Boolean Algebra             | Law of Boolean Algebra                        |
| 09.09.16                  | 16        | P. V. S.          | III                            | Boolean Algebra             | Algebraic Simplification                      |
| 09.09.16                  | 12        | P. V. S.          | IV                             | 8085 CPU                    | Functional Description                        |
| 10.09.16                  | 13        | P. V. S.          | IV                             | 8085 CPU                    | Pin Description                               |
| 10.09.16                  |           | P. V. S.          |                                | <b>Class Teaching</b>       |                                               |

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| 14.09.16                  | 17        | P.V.S             | I                              | Free Space Propagation      | Space waves through Troposphere    |
| 15.09.16                  | 18        | P.V.S             | I                              | Free space propagation      | Ionosphere & sky wave Propagation  |
| 16.09.16                  | 8         | P.V.S             | II                             | OP- amp                     | Bodeplot & Frequency Response      |
| 16.09.16                  | 17        | P.V.S             | III                            | Boolean Algebra             | Universal NADA & NOR gates         |
| 20.09.16                  | 18        | P.V.S             | III                            | Combitnational CKT          | SOP, minterm, POS, maxterm         |
| 21.09.16                  | 14        | P.V.S             | IV                             | 8085 CPU                    | Pindescription                     |
| 22.09.16                  | 15        | P.V.S             | IV                             | 8085 CPU                    | Timing Process                     |
| 23.09.16                  |           | P.V.S             |                                | <b>Class Teaching/ Test</b> |                                    |
| 23.09.16                  | 19        | P.V.S             | I                              | Free space Propagation      | Ionosphere & skywave propagation   |
| 24.09.16                  | 20        | P.V.S             | I                              | Free space Propagation      | SD, MUF                            |
| 24.09.16                  | 9         | P.V.S             | II                             | OP- amp                     | Voltage Follower, Current follower |
| 26.09.16                  | 19        | P.V.S             | III                            | Combitionnal Ckt            | Design of logic ckt                |
| 27.09.16                  | 20        | P.V.S             | III                            | Combitionnal Ckt            | K-Map                              |
| 28.09.16                  | 16        | P.V.S             | IV                             | 8085 CPU                    | OP Code fetch machine cycle        |
| 29.09.16                  | 17        | P.V.S             | IV                             | 8085 CPU                    | Read & Write Cycle                 |
| 03.10.16                  |           | P.V.S             |                                | <b>Class Teaching</b>       |                                    |
| 04.10.16                  | 21        | P.V.S             | I                              | Free space Propagation      | effect of earth magnetic Field     |
| 05.10.16                  | 22        | P.V.S             | I                              | Free space Propagation      | Satellie Communication             |
| 06.10.16                  | 10        | P.V.S             | II                             | OP- Amp                     | Integrating & Differentiating CKT  |
| 07.10.16                  | 21        | P.V.S             | III                            | Combinational Ckt           | K-MAP                              |
| 07.10.16                  | 22        | P.V.S             | III                            | Combinational               | HA & FA                            |
| 08.10.16                  | 18        | P.V.S             | IV                             | 8085 CPU                    | Interrupt acknowledge Cycle        |
| 08.10.16                  | 19        | P.V.S             | IV                             | 8085 CPU                    | Bus Idle, Half State               |
| 14.10.16                  |           | P.V.S             |                                | <b>Class Teaching</b>       |                                    |
| 14.10.16                  | 23        | P.V.S             | I                              | Free Space Propagation      | Satellite Communication            |
| 15.10.16                  | 24        | P.V.S             | I                              | Antenna                     | V-I distribution                   |
| 15.10.16                  | 11        | P.V.S             | II                             | OP- Amp                     | Audio amp                          |
| 17.10.16                  | 23        | P.V.S             | III                            | Combinational CKT           | Encoder                            |
| 18.10.16                  | 24        | P.V.S             | III                            | Combinational CKT           | Decoder                            |
| 19.10.16                  | 20        | P.V.S             | IV                             | 8085 CPU                    | HOLD, HLDA, SID, SOD               |

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| 20.10.16                  | 21        | P.V.S             | IV                             | 8085 IS                     | Data transfer group          |
| 21.10.16                  |           | P.V.S             |                                | <b>Class Teaching/ Test</b> |                              |
| 21.10.16                  | 25        | P.V.S             | I                              | Antenna                     | V-I distribution             |
| 22.10.16                  | 26        | P.V.S             | I                              | Antenna                     | Short electric dipole        |
| 22.10.16                  | 12        | P.V.S             | II                             | OP- amp                     | logarithmic amp              |
| 24.10.16                  | 25        | P.V.S             | III                            | Combinational Ckt           | BCD to Seven Segment decoder |
| 25.10.16                  | 26        | P.V.S             | III                            | Combinational Ckt           | BCD to Seven Segment decoder |
| 26.10.16                  | 22        | P.V.S             | IV                             | 8085 IS                     | Data transfer group          |
| 02.11.16                  | 23        | P.V.S             | IV                             | 8085 IS                     | Arithmetic Group             |
| 03.11.16                  |           | P.V.S             |                                | <b>Class Teaching</b>       |                              |
| 04.11.16                  | 27        | P.V.S             | I                              | Antenna                     | Short Electric Dipole        |
| 05.11.16                  | 28        | P.V.S             | I                              | Antenna                     | Half wave antenna            |
| 05.11.16                  | 13        | P.V.S             | II                             | OP-Amp                      | Active filter                |
| 05.11.16                  | 27        | P.V.S             | III                            | Combinational Ckt           | Multiplexer                  |
| 08.11.16                  | 28        | P.V.S             | III                            | Combinational Ckt           | Demultiplexer                |
| 09.11.16                  | 24        | P.V.S             | IV                             | 8085 IS                     | Arithmetic Group             |
| 09.11.16                  | 25        | P.V.S             | IV                             | 8085 IS                     | Branch control group         |
| 11.11.16                  | 26        | P.V.S             | IV                             | 8085 IS                     | Stack Operation              |
| 11.11.16                  |           | P.V.S             |                                | <b>Class Teaching</b>       |                              |
| 12.11.16                  | 29        | P.V.S             | I                              | Antenna                     | Full wave antenna            |
| 12.11.16                  | 30        | P.V.S             | I                              | Antenna                     | RR, EL, ER, n                |
| 15.11.16                  | 14        | P.V.S             | II                             | OP- Amp                     | Active Filter                |
| 17.11.16                  | 29        | P.V.S             | III                            | Sequential Ckt              | Basic Sequential Ckt         |
| 18.11.16                  | 30        | P.V.S             | III                            | Sequential Ckt              | Types of sequential Ckt      |
| 18.11.16                  | 27        | P.V.S             | IV                             | 8085 IS                     | Stack operation              |
| 19.11.16                  | 28        | P.V.S             | IV                             | 8085 IS                     | Stack operation              |
| 19.11.16                  |           | P.V.S             |                                | <b>Class Teaching</b>       |                              |
| 21.11.16                  | 31        | P.V.S             | I                              | Antenna                     | Grounded Antenna             |
| 22.11.16                  | 32        | P.V.S             | I                              | Antenna                     | Folded dipole                |
| 23.11.16                  | 15        | P.V.S             | II                             | OP-Amp                      | PLL                          |

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| 25.11.16                  | 31        | P.V.S.            | III                            | Sequential Ckt              | Synchronous, Asynchronous |
| 25.11.16                  | 32        | P.V.S.            | III                            | Sequential Ckt              | FF                        |
| 26.11.16                  | 29        | P.V.S.            | IV                             | 8085 IS                     | I/O Operation             |
| 26.11.16                  | 30        | P.V.S.            | IV                             | 8085 IS                     | Machine Control           |
| 28.11.16                  |           | P.V.S.            |                                | <b>Class Teaching/ Test</b> |                           |
| 29.11.16                  | 33        | P.V.S.            | I                              | Antenna                     | Antenna Arrays            |
| 30.11.16                  | 34        | P.V.S.            | I                              | Antenna                     | Antenna Arrays            |
| 01.12.16                  | 16        | P.V.S.            | II                             | OP-Amp                      | PLL                       |
| 02.12.16                  | 33        | P.V.S.            | III                            | Sequential Ckt              | FF                        |
| 02.12.16                  | 34        | P.V.S.            | III                            | Sequential Ckt              | FF                        |
| 03.12.16                  | 31        | P.V.S.            | IV                             | 8085 IS                     | ALP                       |
| 03.12.16                  | 32        | P.V.S.            | IV                             | 8085 IS                     | ALP                       |
| 06.12.16                  |           | P.V.S.            |                                | <b>Class Teaching</b>       |                           |
| 07.12.16                  | 35        | P.V.S.            | I                              | Antenna                     | Television Antenna        |
| 08.12.16                  | 17        | P.V.S.            | II                             | OP- Amp                     | VCO                       |
| 09.12.16                  | 35        | P.V.S.            | III                            | Sequential Ckt              | Counters                  |
| 09.12.16                  | 36        | P.V.S.            | III                            | Sequential Ckt              | Counters                  |
| 12.12.16                  | 37        | P.V.S.            | III                            | Sequential Ckt              | Counters                  |
| 14.12.16                  | 33        | P.V.S.            | IV                             | M/IO Addressing             | Organisation of Memories  |
| 15.12.16                  | 34        | P.V.S.            | IV                             | M/IO Addressing             | RAM, ROM selection        |
| 16.12.16                  |           | P.V.S.            |                                | <b>Class Teaching</b>       |                           |
| 16.12.16                  | 18        | P.V.S.            | II                             | OP-Amp                      | Wave shaping Ckt          |
| 17.12.16                  | 19        | P.V.S.            | II                             | OP-Amp                      | Wave shaping Ckt          |
| 17.12.16                  | 38        | P.V.S.            | III                            | Sequential Ckt              | Shif registers            |
| 19.12.16                  | 39        | P.V.S.            | III                            | Sequential Ckt              | Shif registers            |
| 20.12.16                  | 40        | P.V.S.            | III                            | Sequential Ckt              | Parity genlrator          |
| 21.12.16                  | 35        | P.V.S.            | IV                             | M/IO Addressing             | I/O mode                  |
| 22.12.16                  | 36        | P.V.S.            | IV                             | M/IO Addressing             | Memory mode               |
| 24.12.16                  |           | P.V.S.            |                                | <b>Class Teaching</b>       |                           |
| 24.12.16                  | 20        | P.V.S.            | II                             | Analog Ckt                  | Summing amp               |

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| 26.12.16                  | 41        | P.V.S             | III                            | Sequential Ckt              | Parity checker            |
| 27.12.16                  | 42        | P.V.S.            | III                            | Conuerter                   | A/D                       |
| 28.12.16                  | 43        | P.V.S.            | III                            | Conuerter                   | A/D                       |
| 29.12.16                  | 37        | P.V.S.            | IV                             | M/IO Addressing             | Interfacing               |
| 30.12.16                  | 38        | P.V.S.            | IV                             | Comparision of up           | 8085 A, Z80, 6800         |
| 30.12.16                  | 44        | P.V.S.            | III                            | Conuerter                   | D/A                       |
| 31.12.16                  |           | P.V.S.            |                                | <b>Class Teaching/ Test</b> |                           |
| 03.01.17                  | 21        | P.V.S.            | II                             | Analog Ckt                  | Simultaneous equation     |
| 03.01.17                  | 22        | P.V.S.            | II                             | Analog Ckt                  | Simultaneous equation     |
| 04.01.17                  | 45        | P.V.S.            | III                            | Conuerter                   | D/A                       |
| 06.01.17                  | 46        | P.V.S.            | III                            | Logic Families              | RL, DL, RTL               |
| 06.01.17                  | 47        | P.V.S.            | III                            | Logic Families              | DTL, ECL                  |
| 07.01.17                  | 48        | P.V.S.            | III                            | Logic Families              | TTL                       |
| 07.01.17                  |           | P.V.S.            |                                | <b>Class Teaching</b>       |                           |
| 09.01.17                  | 23        | P.V.S.            | II                             | Analog Ckt                  | [Time & Amplitude scaling |
| 10.01.17                  | 49        | P.V.S.            | III                            | Logic Families              | TTL                       |
| 11.01.17                  | 50        | P.V.S.            | III                            | Logic Families              | CMOS                      |
| 12.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 13.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 13.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 16.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 17.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 18.01.17                  |           | P.V.S.            |                                | <b>Class Teaching</b>       |                           |
| 19.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 20.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 20.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 21.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 21.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 23.01.17                  |           | P.V.S.            |                                | Revision                    | Problems                  |
| 24.01.17                  |           | P.V.S.            |                                | <b>Class Teaching/ Test</b> |                           |

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