# I.B. (PG) COLLEGE, PANIPAT

## SESSION 2020-2021

**Weekly Lesson Plan (Even Semester)    UG    ( 2nd  Semester)**

**Name of the Paper:-ADVANCE PROG IN C        Class:  BCA I Year**

**Name of the Teachers (Section wise): DR.RANJU**

| WEEK | DATE | TOPICS |
|---|---|---|
| 1 | **April (19-20) , (22-24)** | STRINGS IN C, INTRODUCTION, DECLARATION INTITIALIZATION |
| | | STRING I/O, ARRAY OF STRINGS |
| | | STRING MANIPULATION FUNCTION |
| | | STRING MANIPULATION FUNCTION |
| | | STRING MANIPULATION FUNCTION |
| | **HOIDAY - 21.04.2021 (Ram Navami)** | |
| | **SUNDAY  & Holiday (Mahavir Jayanti)  25.04.2021** | |
| 2 | **April (26 -30)** | STRING FUNCTIONS PROGRAMMING EXAMPLE |
| | | STRUCTURE INTRODUCTION |
| | | FEATURES, DECLARATION & INTIALIZTION |
| | | STRUCTURES PROGRAMMING EXAMPLE |
| | | STRUCTURES WITHIN STRUCTURES |
| | **May (Ist)** | STRUCTURES PROGRAMMING EXAMPLE |
| | **SUNDAY - 02.05.2021** | |
| 3 | **May (03 - 08 )** | ARRAY OF STRUCTURE |
| | | STRUCTURES PROGRAMMING EXAMPLE |
| | | STRUCTURES & FUNCTIONS |
| | | STRUCTURES PROGRAMMING EXAMPLE |
| | | STRUCTURES PROGRAMMING EXAMPLE |
| | | STRUCTURES PROGRAMMING EXAMPLE |
| | **SUNDAY - 09.05.2021** | |
| 4 | **May (10-13 ) (15)** | UNION INTODUCTION, DECLARATION & INTIALIZTION |
| | | UNION OF STURUCTRES |
| | | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| | | TYPEDEF |

| HOLIDAY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti) | | |
|---|---|---|
| **SUNDAY - 16.05.2021** | | |
| **5** | **May (17-22)** | ENUMERATIONS |
| | | PROGRAMMING EXAMPLE ENUMERATIONS |
| | | STORAGE CLASSES |
| | | TYPES |
| | | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| **SUNDAY - 23.05.2021** | | |
| **6** | **May (24-29)** | POINTERS INDRO, POINTER VARIABLES |
| | | PROGRAMMING EXAMPLE |
| | | POINTER OPERTAORS |
| | | POINTER ASSINGMENT |
| | | POINTER CONVERIONS |
| | | POINTER CONVERIONS |
| **SUNDAY - 30.05.2021** | | |
| **7** | **May (31)** <br><br> **June (1 - 5)** | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| | | POINTER ARITHEMTICS, COMPARISON |
| | | POINTER & ARRAYS |
| | | PROGRAMMING EXAMPLE |
| | | POINTERS & FUNCTIONS |
| **SUNDAY - 06.06.2021** | | |
| **8** | **June (7-12)** | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| | | POINTERS & STRINGS |
| | | POINTER TO POINTER |
| | | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| **SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021** | | |

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|---|---|---|
| 9 | June (14 -19) | DMA USING POINTERS |
| | | DMA USING POINTERS |
| | | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| | | PROGRAMMING EXAMPLE |
| SUNDAY - 20.06.2021 | | |
| 10 | June (21-23) (25 - 26) | CLASS TEST |
| | | FILES INTRODUCTION |
| | | FILE TYPES |
| | | FILE OPERATIONS |
| | | PROGRAMMING EXAMPLE |
| HOLIDAY - 24.06.2021 (Sant Kabir Jayanti) | | |
| SUNDAY - 27.06.2021 | | |
| 11 | June (28-30) July (1-3) | FILE I/O |
| | | STRUTURES READ & WRITE IN A FILE |
| | | ERRORS IN FILE HANDLING |
| | | PROGRAMMING EXAMPLE |
| | | RANDOM ACCESS I/O IN FILES, ASSIGNEMNT 1 |
| | | TEST |
| SUNDAY - 04.07.2021 | | |
| 12 | July (5 - 10) | PREPROCESSOR INTRO, #DEFINE MACROS |
| | | MACROS VERSUS FUNCTIONS |
| | | #INCLUDE, PROGRAMMING EXAMPLE |
| | | CONDITIONAL COMPILATION DIRECTIVES |
| | | UNDEF A MACRO |
| | | COMMAND LINE ARGUMENTS |
| SUNDAY - 11 .07.2021 | | |
| 13 | July (12) | ASSIGNEMENT 2 |

# I.B. (PG) COLLEGE, PANIPAT
## SESSION 2020-2021

**Weekly Lesson Plan (Even Semester)**     **UG**     **( 2nd  Semester)**

**Name of the Paper:-_Mathematics _**         **Class:  _BCA IST YEAR_**

**Name of the Teachers (Section wise): __MANISH KUMAR_____**

| WEEK | DATE | TOPICS |
|---|---|---|
| 1 | April (19-20) , (22-24) | Matrices ; Basic Definitions |
| | | Additions of matrices |
| | | Multiplications of matrices |
| | | Examples |
| | | Examples |
| HOIDAY - 21.04.2021 (Ram Navami) | | |
| SUNDAY  & Holiday (Mahavir Jayanti)  25.04.2021 | | |
| 2 | April (26 -30) | Examples based on matrices multiplication properties |
| | | Continue |
| | | Solution of matrices by principal of mathematical induction |
| | | Determinants |
| | | Minors and Co-factors |
| | May (Ist) | Sarrus diagram |
| SUNDAY - 02.05.2021 | | |
| 3 | May (03 - 08 ) | Adjoint of a matrix |
| | | Properties of determinats |
| | | Examples based on properties |
| | | Inverse of a square matrix |
| | | Examples based on inverse of a matrix |
| | | |
| SUNDAY - 09.05.2021 | | |
| 4 | May (10-13 ) (15) | Symmetric matrix ,skew symmetric matrix |
| | | Examples based on above topic |
| | | Hermitian and Skew Hermitian matrix |
| | | Examples based on above topic |
| | | Class discussion |
| HOLIDAY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti) | | |
| SUNDAY - 16.05.2021 | | |
| 5 | May (17-22) | Rank of a matrix |
| | | Rank of the product of two matrices |
| | | Elementary operations on matrices |
| | | System of linear equations |
| | | Examples based on above topic |
| | | Continue |

| | | SUNDAY - 23.05.2021 |
|---|---|---|
| 6 | **May**<br>**(24-29)** | Characterstic equations of a square matrix |
| | | Cayley hemilton theorem |
| | | Examples based on cayley theorem |
| | | Eigen value and eigen vectors |
| | | Examples |
| | | |
| | | SUNDAY - 30.05.2021 |
| 7 | **May   (31)**<br><br>**June (1 - 5)** | Eigen value and eigen vectors of symmetric matrix |
| | | Eigen value and eigen vector of skew symmetric matrix |
| | | Diagonalization of a square matrix |
| | | Examples based on above topics |
| | | Continue |
| | | Class discussion |
| | | SUNDAY - 06.06.2021 |
| 8 | **June (7-12)** | Binary operations on a non empty set |
| | | Groups |
| | | Subgroups |
| | | Normal subgroups |
| | | Cosets |
| | | Factor Group |
| | | SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021 |
| 9 | **June (14 -19)** | Ring |
| | | Sub rings |
| | | Ideals |
| | | Prime,Minimal Ideals |
| | | Field |
| | | examples based on above topics |
| | | SUNDAY - 20.06.2021 |
| 10 | **June (21-23)**<br>**(25 - 26)** | Products of groups |
| | | Isomorphism of Groups and Rings |
| | | examples |
| | | examples |
| | | Class discussion |
| | | HOLIDAY - 24.06.2021 (Sant Kabir Jayanti) |
| | | SUNDAY - 27.06.2021 |
| 11 | **June (28-30)**<br><br>**July (1-3)** | Class Test |
| | | Propositions and logical operators |
| | | Truth tabels |
| | | Propositions generated by a set |
| | | Equivalence and implications |
| | | Laws of logics |

| SUNDAY - 04.07.2021 | | |
|---|---|---|
| **12** | **July (5 - 10)** | Mathematical system |
| | | Proposition over a universe |
| | | Mathematical induction |
| | | Examples based on mathematical induction |
| | | Quantifiers |
| | | Continue |
| SUNDAY - 11 .07.2021 | | |
| **13** | **July (12)** | Class discussion |

# I.B. (PG) COLLEGE, PANIPAT
## SESSION 2020-2021

**Weekly Lesson Plan (Even Semester)**      UG      **( 2nd Semester)**

**Name of the Paper:-Logical Organization of Computers-II**          Class:   BCA-I

**Name of the Teachers (Section wise): Ashwani Gupta**

| WEEK | DATE | TOPICS |
|------|------|--------|
| 1 | **April (19-20) , (22-24)** | Memory Parameters, Semiconductor RAM, ROM |
| **HOIDAY - 21.04.2021 (Ram Navami)** | |
| **SUNDAY  & Holiday (Mahavir Jayanti)  25.04.2021** | |
| 2 | **April (26 -30)** <br><br> **May (Ist)** | Magnetic and Optical <br> Storage devices, Flash memory |
| **SUNDAY - 02.05.2021** | |
| 3 | **May (03 - 08 )** | I/O Devices and their controllers. |
| **SUNDAY - 09.05.2021** | |
| 4 | **May (10-13 ) (15)** | Sequential Logic: Characteristics, Flip-Flops, Clocked RS, |
| **HOLIDAY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti)** | |
| **SUNDAY - 16.05.2021** | |
| 5 | **May (17-22)** | D type, JK, T type and Master-Slave flipflops. |

| | | SUNDAY - 23.05.2021 | |
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| 6 | **May**<br>**(24-29)** | State table, state diagram and state equations. | |
| | | Flip-flop excitation tables | |
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| | | SUNDAY - 30.05.2021 | |
|---|---|---|---|
| | **May (31)** | | |
| 7 | **June (1 - 5)** | Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input Parallel | |
| | | Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO) and | |
| | | shift registers | |
| | | **First & Second Assignment** | |
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| | | SUNDAY - 06.06.2021 | |
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| 8 | **June (7-12)** | Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N | |
| | | Counters and Up-Down Counters | |
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| | | SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021 | |
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| 9 | **June (14 -19)** | Machine instruction, Instruction set selection, | |
| | | Instruction cycle | |
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| | | SUNDAY - 20.06.2021 | |
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| 10 | **June (21-23)**<br>**(25 - 26)** | Instruction Format and Addressing Modes. I/O Interface, Interrupt structure | |
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| | | HOLIDAY - 24.06.2021 (Sant Kabir Jayanti) | |
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| | | SUNDAY - 27.06.2021 | |
|---|---|---|---|
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| | **June (28-30)** | | |
| 11 | | Programcontrolled, | |
| | **July (1-3)** | Interrupt-controlled & DMA transfer, I/O Channels, IOP. | |
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| SUNDAY - 04.07.2021 | | |
|---|---|---|
| 12 | July (5 - 10) | |
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| | | Revision and Test |
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| SUNDAY - 11 .07.2021 | | |
| 13 | July (12) | |

# I.B. (PG) COLLEGE, PANIPAT
## SESSION 2020-2021

**Weekly Lesson Plan (Even Semester)**　　　UG　　　**( 2nd  Semester)**

**Name of the Paper:-_Office Automation Tool**　　　　**Class:  BCA  I**

**Name of the Teachers (Section wise): __GEETIKA NARANG_____**

| WEEK | DATE | TOPICS |
|---|---|---|
| 1 | April  (19-20) , (22-24) | Word Proc.: Intro. to Office Auto., Creating & Editing Document |
| | | Formatting Document |
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| **HOIDAY - 21.04.2021 (Ram Navami)** | | |
| **SUNDAY  & Holiday (Mahavir Jayanti)  25.04.2021** | | |
| 2 | April (26 -30)　　　　　May (Ist) | Auto-text, Autocorrect |
| | | Spelling and Grammar Tool, Document Dictionary |
| | | Page Formatting, Bookmark |
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| **SUNDAY - 02.05.2021** | | |
| 3 | May (03 - 08 ) | Advance Features of Word-Mail Merge |
| | | Macros, Tables |
| | | File Management, Printing, Styles, linking and embedding object |
| | | |
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| **SUNDAY - 09.05.2021** | | |
| 4 | May (10-13 ) (15) | Presentation using PowerPoint: Presentations, Creating, Manipulating |
| | | Enhancing Slides,Class Test |
| | | Organizational Charts, Excel Charts |
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| **HOLIDAY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti)** | | |
| **SUNDAY - 16.05.2021** | | |
| 5 | May (17-22) | Word Art, Layering art Objects,Assignment 1 |
| | | Animations and Sounds, Inserting Animated Pictures |
| | | Accessing through Object |
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| | | SUNDAY - 23.05.2021 |
|---|---|---|
| 6 | May (24-29) | Inserting Recorded Sound Effect or In-Built Sound Effect. |
| | | Conditional Test |
| | | Desktop Publishing: Concept, Need and Applications |
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| | | SUNDAY - 30.05.2021 |
|---|---|---|
| 7 | May (31) June (1 - 5) | Hardware and Software requirements for DTP |
| | | An Overview and comparison between DTP packages Common features of DTP. Introduction to Page Maker |
| | | |
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| | | SUNDAY - 06.06.2021 |
|---|---|---|
| 8 | June (7-12) | Features,Assignment 2 |
| | | System Requirements, Components of Page Maker Window Introduction to Menu and Toolbars |
| | | |
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| | | SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021 |
|---|---|---|
| 9 | June (14 -19) | PageMaker Preferences |
| | | Creating of Publications: Starting PageMaker, Setting Page size Placing the text Formatting the text |
| | | |
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| | | SUNDAY - 20.06.2021 |
|---|---|---|
| 10 | June (21-23) (25 - 26) | Character Specification Paragraph setting: Paragraph Specification Paragraph Rules, Spacing, Indents/Tabs Define Styles, Hyphenation |
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| | | HOLIDAY - 24.06.2021 (Sant Kabir Jayanti) |
|---|---|---|
| | | SUNDAY - 27.06.2021 |

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|---|---|---|
| 11 | June (28-30) July (1-3) | Header & Footer, Page Numbering Saving and Closing publication Editing Publication: Open a publication |
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| SUNDAY - 04.07.2021 | | |
|---|---|---|
| 12 | July (5 - 10) | Story editor, Find and change the text, Change character |
| | | Paragraph attributesspell checking ,Selecting text |
| | | Cut, Copy, Paste, Paste multiple, Working with columns |
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| SUNDAY - 11 .07.2021 | | |
| 13 | July (12) | Revision |

# I.B. (PG) COLLEGE, PANIPAT
## SESSION 2020-2021

**Weekly Lesson Plan (Even Semester)**     **UG**       **( 2nd  Semester)**

**Name of the Paper:-Structured System Analysis and Design**         Class:  **B.C.A.  I**

**Name of the Teachers (Section wise): DEEPTY JUNEJA**

| WEEK | DATE | TOPICS |
|---|---|---|
| 1 | April         (19-20) ,  (22-24) | |
| | | |
| | | System Concept: Definition, Characteristics, Elements of system, |
| | | Physical and abstract system, open and closed system, |
| | | man-made information systems. |
| **HOIDAY - 21.04.2021 (Ram Navami)** | | |
| **SUNDAY  & Holiday (Mahavir Jayanti)  25.04.2021** | | |
| 2 | April (26 -30)    May (Ist) | |
| | | |
| | | |
| | | System Development Life Cycle: Various phases of system development, |
| | | Considerations for system planning and control for system success. |
| | | Role of system analyst. |
| **SUNDAY - 02.05.2021** | | |
| 3 | May (03 - 08 ) | |
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| | | |
| | | System Planning: Bases for planning in system analysis: Dimensions of Planning |
| | | Initial Investigation: Determining user's requirements and analysis |
| | | Fact finding techniques |
| **SUNDAY - 09.05.2021** | | |
| 4 | May (10-13 ) (15) | |
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| | | |
| | | Tools of structured Analysis: Data Flow diagram |
| | | data dictionary |
| **HOLIDAY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti)** | | |
| **SUNDAY - 16.05.2021** | | |

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|---|---|---|
| **5** | **May (17-22)** | |
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| | | IPO and HIPO charts |
| | | Gantt charts, pseudo codes |
| | | Flow charts, decision tree, decision tables. |
| **SUNDAY - 23.05.2021** | | |
| **6** | **May (24-29)** | |
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| | | Feasibility study: Technical, Operational & Economic Feasibilities |
| | | Assignment i |
| | | Cost/Benefit Analysis |
| **SUNDAY - 30.05.2021** | | |
| **7** | **May (31)** **June (1 - 5)** | |
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| | | |
| | | Cost/Benefit Analysis |
| | | Cost/Benefit Analysis |
| | | Input/ Output and Form Design |
| **SUNDAY - 06.06.2021** | | |
| **8** | **June (7-12)** | |
| | | |
| | | |
| | | Input/ Output and Form Design |
| | | Input/ Output and Form Design |
| | | conditional test |
| **SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021** | | |
| **9** | **June (14 -19)** | |
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| | | |
| | | File Organization and database design: Introduction to file and database |
| | | File structures and organization, objectives of database design |
| | | Logical and Physical view of data |

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| **SUNDAY - 20.06.2021** | | |
| **10** | **June (21-23) (25 - 26)** | |
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| | | |
| | | System testing: Introduction, objectives of testing, test planning |
| | | Assignment ii |
| **HOLIDAY - 24.06.2021 (Sant Kabir Jayanti)** | | |
| **SUNDAY - 27.06.2021** | | |
| **11** | **June (28-30)** **July (1-3)** | |
| | | |
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| | | |
| | | testing techniques. |
| | | Quality assurance: Goal of quality assurance |
| | | levels of quality assurance |
| **SUNDAY - 04.07.2021** | | |
| **12** | **July (5 - 10)** | |
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| | | System implementation and software maintenance: primary activities in maintenance |
| | | System implementation and software maintenance: primary activities in maintenance |
| | | reducing maintenance costs. |
| **SUNDAY - 11 .07.2021** | | |
| **13** | **July (12)** | query session |

# I.B. (PG) COLLEGE, PANIPAT
## SESSION 2020-2021

**Weekly Lesson Plan (Even Semester)**     **UG**       **( 2nd  Semester)**

**Name of the Paper:-Communicative English**          **Class:**  **BCA 2nd sem_**

**Name of the Teachers (Section wise): __Rekha Sharma_____**

| WEEK | DATE | TOPICS |
|---|---|---|
| 1 | **April (19-20) , (22-24)** | introduction |
| | | a brief introduction to the personality and self concept |
| | | continue |
| | | continue |
| | | element of personality |
| **HOIDAY - 21.04.2021 (Ram Navami)** | | |
| **SUNDAY  & Holiday (Mahavir Jayanti)  25.04.2021** | | |
| 2 | **April (26 -30)** | continue |
| | | continue |
| | | determinents of personality |
| | | continue |
| | | continue |
| | **May (Ist)** | causes of deranged personality |
| **SUNDAY - 02.05.2021** | | |
| 3 | **May (03 - 08 )** | continue |
| | | personality analysis |
| | | continue |
| | | grooming |
| | | personal hygiene |
| | | social business and dining ettiquetts |
| **SUNDAY - 09.05.2021** | | |
| 4 | **May (10-13 ) (15)** | body language use and misuse |
| | | art of good conversation |
| | | art of intelligent listening |
| | | unit 2 use of interpersonal skill and role playing |
| | | continue |
| **HOLIDAY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti)** | | |
| **SUNDAY - 16.05.2021** | | |
| 5 | **May (17-22)** | continue |
| | | continue |
| | | test |
| | | revision |
| | | feedback |
| | | test |

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| **SUNDAY - 23.05.2021** | | |
| 6 | **May (24-29)** | unit 3 group discussion and presentation skill |
| | | continue |
| | | continue |
| | | continue |
| | | test |
| | | test |
| **SUNDAY - 30.05.2021** | | |
| 7 | **May (31)** **June (1 - 5)** | revision |
| | | revision |
| | | feedback |
| | | unit 4interviews preparation skill |
| | | continue |
| | | types of interviews |
| **SUNDAY - 06.06.2021** | | |
| 8 | **June (7-12)** | selection procedure |
| | | dress code |
| | | professional knoeledge reviews |
| | | frequently asked question and their appropriate answers |
| | | continue |
| | | self introduction |
| **SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021** | | |
| 9 | **June (14 -19)** | mentsl frame |
| | | work during interviews |
| | | continue |
| | | continue |
| | | continue |
| | | continue |
| **SUNDAY - 20.06.2021** | | |
| 10 | **June (21-23) (25 - 26)** | revision |
| | | test |
| | | test |
| | | revision |
| | | revision |
| **HOLIDAY - 24.06.2021 (Sant Kabir Jayanti)** | | |
| **SUNDAY - 27.06.2021** | | |
| 11 | **June (28-30)** **July (1-3)** | revision |
| | | test |
| | | revision |
| | | feedback |
| | | revision |
| | | revision |

| SUNDAY - 04.07.2021 | | |
|---|---|---|
| **12** | **July (5 - 10)** | revision |
| | | revision |
| | | test |
| | | feedback |
| | | revision |
| | | test |
| SUNDAY - 11 .07.2021 | | |
| **13** | **July (12)** | revision |