# MINOR/ MAJOR PROJECT GUIDELINES



BACHELOR OF COMPUTER APPLICATIONS

# For BCA (CBCS 2014 & 2018 COURSE)



BHARATI VIDYAPEETH

# (DEEMED TO BE UNIVERSITY)

INSTITUTE OF MANAGEMENT & RESEARCH, NEW DELHI

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# 2019

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## 1.MESSAGE FROM THE BCA - HOD

The Bachelor of Computer Applications (BCA) programme prepares the students to take up positions as Programmers, Systems Analysts, Systems Designers in the field related to computer science and information technology, and ITES or students may go for higher studies in this area. We had therefore imparted the comprehensive knowledge covering the skills and core areas of computer science courses with equal emphasis on the theory and practice in BCA programme.

The BCA students are encouraged to involve themselves completely on the project work during BCA programme. It is advised to students to develop their project for solving problems of software industry or any research organization. Doing this will give more exposure to handle real life problems of project development.

The courses studied by you during your BCA programme provide you the basic background to work on diverse application domains. The theoretical background of various courses provides you the necessary foundation, principles, and practices to develop effective ways to solve computing problems. The hands on experience gained from the practical courses provide you the knowledge to work with various operating systems, programming languages, and software tools.

This project work is kept in BCA program to give you opportunity to develop quality software solution. During the development of the project you should involve in all the stages of the software development life cycle (SDLC) like requirements analysis, systems design, software development/coding, testing and documentation, with an overall emphasis on the development of reliable software systems. The primary emphasis of the project work is to understand and gain the knowledge of the principles of software engineering practices, and develops good understanding of SDLC.

Students should take this project work very seriously. Project should be taken as an opportunity to develop software, which gives exposure to SDLC. Topics selected, should be complex and large enough to justify as a BCA project. The project should be genuine and original in nature and should not be copied from anywhere else. If found copied, the project report will be forwarded to the Exam Discipline Committee of the Institute/University as an Unfair means case for necessary action. Students should strictly follow and adhere to the project guidelines.

I wish you all the success.

**HOD –BCA**

**2.PERFORMA OF BCA PROJECT PROPOSAL/SYNOPSIS**

## (Project’s and Guide’s Details)

**PRN: …………….……… ERPID:---------------------------------------------**

1. **Name and Address of the student**

**………………………..…………………………………….…………………………………………………**

**………………………………………………………………………………………………………………… ……………………………………………………………………………………………………………………**

**email id ………………………………….......................mobile………………………………………………**

1. **Title of the Project .………..…………………………………………………………………………….**
2. **Name of the Guide**

…………………………………………………………………………………………………………………

**6. Software Used for this Project:**……………………………………………………………

Signature of the Student Signature of the Guide

Date: ………………… Date: …………………

## GUIDELINES FOR PROJECT FORMULATION

The project work constitutes a major component in most of the professional programmes and it is to be carried out with due care and should be executed with seriousness by the candidates.

**TYPE OF PROJECT**

As majority of the students are expected to work out a real-life project in some industry/research and development laboratories/educational institutions/software companies, it is suggested that the project is to be chosen which should have some direct relevance in day-today activities of the candidates in his/her institution. Students are encouraged to work in the areas listed at the end. However, it is not mandatory for a student to work on a real-life project. The student can formulate a project problem with the help of Guide.

**PROJECT PROPOSAL (SYNOPSIS)**

**The project proposal should be prepared in consultation with your guide**. The project proposalshould clearly state the project objectives and the environment of the proposed project

to be undertaken.

**The project work should compulsorily include the software development.** The project proposalshould contain complete details in the following form:

1. Title of the Project
2. Introduction and Objectives of the Project
3. Project Category (RDBMS/OOPS/Networking/Multimedia/Artificial Intelligence/Expert Systems etc/website/android /ios app/desktop application.)
4. Analysis (DFDs at least up to second level, ER Diagrams/ Class Diagrams/ Database Design etc. as per the project requirements).
5. A complete structure which includes:
   * Number of modules and their description to provide an estimation of the student’s effort on the project.
   * Data Structures as per the project requirements for all the modules. Process Logic of each module.
   * Testing process to be used.
   * Reports generation ( Mention tentative content of report)

1. Tools / Platform, Hardware and Software Requirement specifications
2. Are you doing this project for any Industry/Client? Mention Yes/No. If Yes, Mention the Name and Address of the Industry or Client
3. Future scope and further enhancement of the project.

## 4.PROJECT REPORT FORMULATION

**ITEMS TO BE INCLUDED IN THE PROJECT REPORT**

**The following items should be included in the Project Report:**

1. The project report must contain the following:
   * Introduction
   * Objectives
   * Tools/Environm

ent Used

* + Analysis Document (This should include SRS in proper structure based on Software Engineering concepts, E-R diagrams/Class diagrams/any related diagrams (if the former are not applicable), Data flow diagrams/other similar diagrams (if the former is not applicable), Data dictionary)
  + Design Document (Modularization details, Data integrity & constraints including database design, Procedural design, User interface design)
  + Program code (Complete code (well indented)/Detailed specification instead of code\*, Comments & Description. The program code should always be developed in such a way that it includes complete error handling, passing of parameters as

required, placement of procedure/function statements as needed.)

* + Testing (Test case designs are to be included separately for Unit testing, Integration testing, System testing; Reports of the outcome of Unit testing, Integration testing,

System testing are to be included separately. Also, details of debugging and code

improvement are to be included.)

* + Input and Output Screens
  + Implementation of Security for the Software developed (In case, you have set up a

User Name and Password for your software, you should ensure the security of User Name and Password during transmission to server)

* + Limitations Future Application of the Project
  + Bibliography

\*Students who have done their project for any organization are permitted to attach detailed algorithm/specification instead them to attach the code. Student needs to attach letter in the project report from the Project Manager of the project in the organization that they are not permitting student to attach the code. In the absence of such letter, the student needs to attach the code compulsorily.

The project report should be hard bound; should consist of a **Contents** page; all pages of report should be numbered; content should be well organized in a meaningful

manner; printouts of text

& screen layouts should be original and should not be xeroxed)

1. **Original copy of the Approved Project Proposal along with Performa for BCA Project Proposal/Synopsis.**
2. **Certificate of Originality (from External and Internal Guide).**
3. **Certificate from the Director /Certificate from the Company**
4. **The Project Report may be about 50 to 125 double spaced A-4 size typed pages (excluding program code). However, 10% variation on either side is permissible.**

**SUBMISSION OF PROJECT REPORT**

Only one copy of the project report is to be submitted to the project / class coordinator.

**TYPE OF PROJECT**

The majority of the students are expected to work on a real-life project preferably in some industry/ Research and Development Laboratories / Educational Institution / Software Company. Students are encouraged to work in the areas listed at the end (Refer page no.13, Section - 7). However, it is ***not mandatory*** for a student to work on a real-life project. The student can formulate a project problem with the help of her/his Guide and submit the project proposal of the same. If approved, the student can commence working on it and complete it.

**PROJECT EVALUATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BCA (2014 & 18 course) | Minor Projects | 100  Marks | Internal Assessment | 40% |
| External Assessment | 60% |

a.Internal Assessment

* + - 1. Attendance >=75% :10 Marks
      2. Presentation 1 (synopsis) (Class room ) : 5 Marks iii.Presentation 2 (system analysis) (Project guide ) : 5 Marks iv.Demonstration of working software )(Project guide) :10 Marks

v.Presentation 4 (1st draft of project report :10 Marks

Including plagiarism) Class room

**b.External Assessment (Viva+ project presentation)**

i.Software project presentation

* + - * 1. Software is running ( no bugs) :10 Marks
        2. Meeting all functional requirements

(specified in SRS) :10 Marks

* + - * 1. Producing all relevant reports required by various stakeholders : 10 Marks

ii.Project Viva :30 Marks

**Unfair cases of copied versions of the project synopsis and project reports will be sent to the Exam Discipline Committee of the Institute/University as an Unfair means case for necessary action.**

**RESUBMISSION OF THE BCA PROJECT IN CASE OF FAILED STUDENTS**

If the student is unsuccessful in the project, s/he should “re-do‟ the whole cycle, right from the submission of the project synopsis. Students are advised to select a new topic for the project and should prepare and submit the project synopsis to the class coordinator as per the project guidelines. There are no separate slots for the submission of the project synopsis / project reports for the failed students. Respective submissions of the project synopsis and the project reports should be done strictly as per the “calendar for the BCA project” given in the project guidelines.

**5.IMPORTANT POINTS WHILE PREPARING THE PROJECT REPORT**

1. The Project Report should be submitted according to following instructions:

**General Instructions:**

1. **Total No. of Copies need to be Submitted** : Two (one original and one Photostat)
2. **C.D.:** One iii. **Paper Quality :** 75gsm iv. **The size of the paper :** A 4

## TYPING INSTRUCTIONS

1. **Border Indents**
   1. Top  **:** 1.0Inch
   2. Bottom  **:**  1.0 Inch
   3. Left  **:**  1.5Inch.
   4. Right  **:**  1.0 Inch.
2. **Page Numbering :**  Bottom centered
3. **Font**
   1. **Type :** Times New Roman/ Century Gothic only
   2. **Color:** Black Only
   3. **Sizes :**Uniform & Consistent throughout the report
   4. Normal Text—12, Chapter Heading—16, Titles 14.
4. **Line Spacing :**  1.5 ix. **Graphical Presentation :** Color/ Black & White

x. **Printing :** Single Sided **xi. Paragraph format :**

1. Vertical space between paragraphs should be of about 2.0 line spacing.
2. A single lined of a paragraph should not be left at the top or bottom of a page
3. **Chapter and Section format** 
   1. Each chapter should begin on a fresh page. Chapter number and title of the Chapter, sub-heading of the chapter should be printed at the center of the Page.
4. **Sections and Sub-sections**

A chapter can be divided into Sections, Sub-sections and Sub-Sub-sections so as to present different concepts separately. Sections and sub-sections can be numbered using decimal points, e.g., 2.2 for the second Section in Chapter 2 and 2.3.4 for the fourth Sub-section in third section of Chapter 2. Chapters, Sections and Sub-Sections should be included in the *Contents* with page numbers flushed to the right. Further subsections need not be numbered or included in the contents.

1. **Table/Figure Format** 
   1. Table and figures should be numbered chapter wise. For example, the fourth figure in Chapter 5 should bear the number Figure 5.4 or *Fig.5.4*. ( name of figure )
   2. Table number and title should be placed above the table. Reference for Table and Figures reproduced from elsewhere should be cited in the last and separate line in the table and figure caption.
2. **Binding: soft bound**
3. **List of Figures and Tables:** Two separate lists of Figure caption and Table titles along with their numbers and corresponding page numbers against them shall follow the Contents.
4. Ensure that it contains the following:
   1. Project Proposal Performa. All the items should be filled. The signatures of both student and Guide should be present.
   2. Certificate of Originality (From Internal and External Guide)
   3. Certificate from the Director and Certificate from the Company
   4. All signatures should be accompanied by the date of signature.
   5. It should include all items mentioned in Section 5.
5. If any project report is received in the absence of the items listed above, it will be rejected and returned to students for compliance. Also, violation of Project Guidelines may lead to rejection of the Project.

Only One hard bound original copy of the project report is to be submitted to the Institute. One copy of the same Project Report is to be retained with the student and the student is supposed to carry his copy while appearing for viva voce. Spiral binding of Project Report is not permitted.

1. Xerox copy of the project report is not acceptable.
2. Not more than two student is permitted to work on a Project.
3. If the title of the Project differs from the title mentioned in the Project Proposal, the Project Report will be rejected and will be returned back to the student.
4. In case, students require any letter from the University for doing a project in any organization, they may request for same to corporate resource Centre(CRC) for the same

**6.LIST OF BROAD AREAS OF APPLICATION AND RELATED TOOLS**

**FRONT END / GUI Tools** **:** Visual Basic, oracle suit, Dot Net

**RDBMS/BACK END** **:** Oracle, MY SQL, SQL Server.

**LANGUAGES** **:** C, C++, Java, C#

**SCRIPTING LANGUAGES &**

**INTERNET TECHNOLOGIES** **:** PHP,DHTML, Java script, VB Script, Perl & CGI script,

|  |  |
| --- | --- |
|  | HTML, Java, Active X, RMI, CORBA, SWING, JSP, |
|  | ASP, XML, EJB, Java Beans, Java Servlets, Visual |
|  | Age for JAVA, UML, VRML, WML, iPlanet, ATG, |
|  | BigTalk, CSS, XSL, Oracle ASP server, VB.Net, |
| **NETWORKING** | AWT, J2EE, LDAP, ColdFusion |
| **TECHNOLOGIES** | **:** ATM, Frame Relay, TCP/IP, SNMP, GSM, VoIP, PPP, |
|  | IP-PSTN, SONET/SDH,LAN/WAN |
| **OPERATING SYSTEMS** | **:** WINDOWS XP/7/8.0/10, WINDOWS NT, UNIX, |
|  | LINUX/MAC |
|  |  |
| **APPLICATIONS** | **:** Financial/ Manufacturing/ Multimedia/ Computer |
|  | Graphics/ Instructional Design/ Database Management |
|  | System/ Internet/ Intranet/ Computer Networking- |
|  | Communication Software/E-Commerce/ ERP |

## FRONT COVER FORMAT

**“Title of project “**

*A Minor / Major Project Report*

*Submitted in partial fulfillment of the requirements for the Award of degree of Bachelor of Computer Applications*

# 2017-2020 /2018-2021

**Submitted by**  **Guided by**

**Mayank Agarwal Dr. Daljeet Singh Bawa**

**161BCA022**





BHARATI VIDYAPEETH

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**2020**

### 7.CONTENT (Chapter Scheme)

Before proceeding to Chapter – I following should get mentioned in the report:

* **Student Undertaking**
* **Certificate from Internal Guide**
* **Certificate from the Director ( Page numbers should appear in Roman)**
* **Preface**
* **Acknowledgement**
* **Index**

**CHAPTER 1 INTRODUCTION** page no. ( Decimal)

* 1. Introduction about Project
  2. Need of Computerization of System/ Problem in existing system
  3. Proposed Software (What would S/W accomplish?)
  4. Importance of the Work/project

CHAPTER 2 SYSTEM ANALYSIS

* 1. Analysis Methodology /requirement gathering techniques
  2. Feasibility Study
  3. Choice of Platforms
     1. Software used
     2. Hardware used

CHAPTER 3 SYSTEM DESIGN

* 1. Process Model used
  2. Database Design (ERD/Data Dictionary/ Table Design)
  3. Functional Design (DFD)
  4. Interface Design (Screen shots of forms)
  5. Output Design (Screen Shots of Report)

CHAPTER 4 TESTING AND IMPLEMENTATION (OPTIONAL FOR BCA-II SEM)

* 1. Testing Methodology (Types)
  2. Testing Methodology applied (Why)
  3. Test Cases
  4. Test Data
  5. Gap Analysis (Planned Vs Achieved)
  6. Rework/ Retest
  7. Hardware & Software Requirement
     1. Hardware Requirement
     2. Software Requirement

**CHAPTER 5 CONCLUSION AND REFERENCES**

* 1. Conclusion
  2. Limitation of System
  3. Future Scope for Modification
  4. References/ Bibliography

ANNEXURES

* 1. Menu Flow Diagram
  2. Sample Input
  3. Sample Output
  4. Program Code
  5. Mentor Feedback Report
  6. Plagiarism certificate

### STUDENT UNDERTAKING

This is to certify that the project titled **<title of the project>**submitted to **Bharati Vidyapeeth (Deemed to be University), Pune** in partial fulfillment of the requirement for the award of the degree of **Bachelor of Computer Applications** is an original work carried out under the guidance of **<name of internal Guide>**. The matter embodied in this project is a genuine work done by me and has been submitted neither to this University nor to any other University for the fulfillment of the requirement of the course of study.

**Signature**

**Name of the student**

**ERPID:**

**PRN No:**

### CERTIFICATE FROM INTERNAL GUIDE

This is to certify that the Project titled **<Title of the project>**is an academic work done by **<Name of the student>** submitted in the partial fulfillment of the requirement for the award of the Degree of **Bachelor of Computer Applications** from **Bharati Vidyapeeth (Deemed to be University), Pune** under my guidance.

Necessary Plagiarism check have been conducted, has been found below 30% and report of the same have been attached as annexure

To the best of my knowledge and belief the data & information presented by him/her in the project has not been submitted earlier whether to this University or to any other University / Institute for the fulfillment of the requirement of any course of study.

Signature

Name Internal Guide **CERTIFICATE FROM THE DIRECTOR**

This is to certify that the Project titled “**title of the project**” is an academic work done by **<name of the student>** submitted in partial fulfillment of the requirement for the award of the Degree of Bachelor of Computer Applications from **Bharati Vidyapeeth (Deemed to be University), Pune.**

The authenticity of the project work will be examined by the viva examiner which includes data verification, checking duplicity of information etc. and it may be rejected due to non-fulfillment of quality standards set by the institute.

**Dr. Vikas Nath**

**Director-Incharge**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Progress of Project work** Name of Guide: | | | | | |
|  | Lecture No | Evaluation Parameter | Attendance | | Signature of guide with date |
| 1 | Identification of Problem  Domain and Detailed  Analysis | Yes | NO |  |
| 2 | Study of the existing system and feasibility of project proposal | Yes | NO |  |
| 3 | System Analysis -1  Analysis Methodology /requirement gathering techniques | Yes | NO |  |
| 4 | **Presentation -1**  System Analysis -2  Feasibility Study  Choice of Platforms  Software used  Hardware used | Yes | NO |  |
| 5 | Process Model used  Database Design (ERD/Data  Dictionary/ Table Design) | Yes | NO |  |
| 6 | Functional Design (DFD) | Yes | NO |  |
| 7 | Interface Design (Screen shots of forms) | Yes | NO |  |
| 8 | Output Design (Screen Shots of  Report) | Yes | NO |  |
| 9 | Testing Methodology (Types) | Yes | NO |  |
| 18 | | | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
|  | 10 | Testing Methodology applied  (Why) | Yes | NO |  |
| 11 | Test Cases  Test Data | Yes | NO |  |
| 12 | Gap Analysis (Planned Vs Achieved) | Yes | NO |  |
| 13 | Rework/ Retest | Yes | NO |  |
| 14 | Hardware & Software Requirement | Yes | NO |  |
| 15 | Conclusion | Yes | NO |  |
| 16 | **Demonstration of working software )** | Yes | NO |  |
| 17 | Future Scope for Modification | Yes | NO |  |
| 18 | References/ Bibliography | Yes | NO |  |
| 19 | Menu Flow Diagram | Yes | NO |  |
| 20 | Sample Input | Yes | NO |  |
| 21 | Program Code | Yes | NO |  |
| 22 | Plagiarism certificate | Yes | NO |  |
|  |  | 19 |  | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BCA-IV SEM MORNING SHIFT | | | | |
| LIST OF STUDENT WITH THEIR PROJECT GUIDES | | | | |
| SR.  NO | ERP ID | Name | Group NO | Name of Internal Guide |
| 1 | 0181BCA020 | Muskan Gupta | 1 | Dr.Daljeet Singh Bawa |
| 2 | 0181BCA052 | Poojyata Trehan | 1 | Dr.Daljeet Singh Bawa |
| 3 | 0181BCA017 | Niharika Khera | 2 | Dr.Daljeet Singh Bawa |
| 4 | 0181BCA057 | Shagun Yadav | 2 | Dr.Daljeet Singh Bawa |
| 5 | 0181BCA041 | Simar Makkar | 3 | Dr.Daljeet Singh Bawa |
| 6 | 0181BCA049 | Yash Garg | 3 | Dr.Daljeet Singh Bawa |
| 7 | 0181BCA018 | Mihir Soni | 4 | Dr.Daljeet Singh Bawa |
| 8 | 0181BCA035 | Sahil Malhotra | 4 | Dr.Daljeet Singh Bawa |
| 9 | 0181BCA022 | Navya Jain | 5 | Ms. Nisha Malhotra |
| 10 | 0181BCA056 | Mayank Gulati | 5 | Ms. Nisha Malhotra |
| 11 | 0181BCA016 | Kartik Choudhary | 6 | Ms. Nisha Malhotra |
| 12 | 0181BCA024 | Nabhay Rattan | 6 | Ms. Nisha Malhotra |
| 13 | 0181BCA025 | Nitik Goyal | 7 | Ms. Nisha Malhotra |
| 14 | 0181BCA059 | Vaibhav Gupta | 7 | Ms. Nisha Malhotra |
| 15 | 0181BCA028 | Vinay | 8 | Ms. Nisha Malhotra |
| 16 | 0181BCA031 | Prince Goyal | 8 | Ms. Nisha Malhotra |
| 17 | 0181BCA027 | Parth Tibrewal | 9 | Ms. Nisha Malhotra |
| 18 | 0181BCA055 | Satvik Chaturvedi | 9 | Ms. Nisha Malhotra |
| 19 | 0181BCA021 | Naman Bhateja | 10 | Ms. Nisha Malhotra |
| 20 | 0181BCA040 | Shubham Garg | 10 | Ms. Nisha Malhotra |
| 21 | 0181BCA032 | Pulkit Kumar Sharma | 11 | Ms. Nisha Malhotra |
| 22 | 0181BCA058 | Shubham Goel | 11 | Ms. Nisha Malhotra |
| 23 | 0181BCA005 | Arjun Ahlawat | 12 | Ms. Nisha Malhotra |
| 24 | 0181BCA048 | Vaibhav Vijayran | 12 | Ms. Nisha Malhotra |
| 25 | 0181BCA001 | Aayush Bhardwaj | 13 | Mr. Mahesh kumar Chaubey |
| 26 | 0181BCA050 | Manmeet Walia | 13 | Mr. Mahesh kumar Chaubey |
| 27 | 0181BCA009 | Dev Garg | 14 | Mr. Mahesh kumar Chaubey |
| 37 | 0181BCA029 | Prateek Bhatia | 14 | Mr. Mahesh kumar Chaubey |
| 28 | 0181BCA036 | Saipriya Bhatia | 15 | Mr. Mahesh kumar Chaubey |
| 29 | 0181BCA054 | Abhinav Tyagi | 15 | Mr. Mahesh kumar Chaubey |
| 30 | 0181BCA051 | Sadhna Vats | 16 | Mr. Mahesh kumar Chaubey |
| 31 | 0181BCA128 | Aman Chopra | 16 | Mr. Mahesh kumar Chaubey |
| 32 | 0181BCA007 | Bhavesh Batra | 17 | Mr. Mahesh kumar Chaubey |
| 33 | 0181BCA010 | Dheeraj | 17 | Mr. Mahesh kumar Chaubey |
| 34 | 0181BCA030 | Prerna | 18 | Mr. Mahesh kumar Chaubey |
| 35 | 0181BCA042 | Sona Vats | 18 | Mr. Mahesh kumar Chaubey |
| 36 | 0181BCA006 | Aryan Kahol | 19 | Mr. Ajay Kumar |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 38 | 0181BCA046 | Tanish Sharma | 19 | Mr. Ajay Kumar |
| 39 | 0181BCA014 | Jevesh Sahani | 20 | Mr. Ajay Kumar |
| 40 | 0181BCA045 | Sumit Rana | 20 | Mr. Ajay Kumar |
| 41 | 0181BCA011 | Dhruv Bhatia | 21 | Mr. Ajay Kumar |
| 42 | 0181BCA053 | Harshit Kashyap | 21 | Mr. Ajay Kumar |
|  | 0181BCA061 | Vaibhav Jain | 22 | Ms. Ankita Gulati |
| 44 | 0181BCA060 | Yash Goyal | 23 | Ms. Ankita Gulati |
| 45 | 0181BCA033 | Raghav Kapoor | 24 | Ms. Ankita Gulati |
| R | 0181BCA043 | Soumil Dawar | 24 | Ms. Ankita Gulati |
| 47 | 0181BCA002 | Akanksha Talwar | 25 | Ms. Ankita Gulati |
| 48 | 0181BCA015 | Karan Luniyal | 25 | Ms. Ankita Gulati |
| 49 | 0181BCA023 | Neel Batra | 26 | Ms. Ankita Gulati |
| 50 | 0181BCA013 | Japneet Singh Sachdeva | 27 | Ms. Ankita Gulati |
| 51 | 0181BCA038 | Sanyog Sethi | 27 | Ms. Ankita Gulati |
| 52 | 0181BCA003 | Isha Choudhary | 28 | Ms. Ankita Gulati |
| 53 | 0181BCA019 | Mitali Jain | 28 | Ms. Ankita Gulati |
| 54 | 0181BCA008 | Deepanshu Sharma | 29 | Ms. Ankita Gulati |
| 11 | 0181BCA012 | Ishita Chauhan | 30 | Ms. Ankita Gulati |
| 25 | 0181BCA026 | Noor Aisha | 31 | Ms. Ankita Gulati |
| 43 | 0181BCA047 | Usabh Jain | 32 | Ms. Ankita Gulati |
| 33 | 0181BCA034 | Rishab Jain | 33 | Ms. Ankita Gulati |

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|  |  | BCA-IV SEM AFTERNOON SHIFT | | |
|  | LI | ST OF STUDENT WITH THEIR PROJECT GUIDES | | |
| SR.  NO | ERP ID | Name | Group NO | Name of Internal Guide |
| 1 | 0181BCA062 | Aakash Aggarwal | 1 | Mr. Shekhar Kundra |
| 2 | 0181BCA120 | Taranpreet singh | 1 | Mr. Shekhar Kundra |
| 3 | 0181BCA063 | Aakash Kumar | 2 | Mr. Shekhar Kundra |
| 4 | 0181BCA129 | Shaurya Malhotra | 2 | Mr. Shekhar Kundra |
| 5 | 0181BCA064 | Aneesh Kumar | 3 | Mr. Shekhar Kundra |
| 6 | 0181BCA090 | Muskan Gambhir | 3 | Mr. Shekhar Kundra |
| 7 | 0181BCA065 | Aniket Tiwari | 4 | Mr. Shekhar Kundra |
| 8 | 0181BCA098 | Rohan Shokeen | 4 | Mr. Shekhar Kundra |
| 9 | 0181BCA066 | Anjali Gupta | 5 | Mr. Shekhar Kundra |
| 10 | 0181BCA107 | Sourabh | 5 | Mr. Shekhar Kundra |
| 11 | 0181BCA067 | Ankit Bajaj | 6 | Mr. Shekhar Kundra |
| 12 | 0181BCA124 | Brijender Singh | 6 | Mr. Shekhar Kundra |
| 13 | 0181BCA069 | Atharav Rajput | 7 | Mr. Shekhar Kundra |
| 14 | 0181BCA104 | Shivam Behl | 7 | Mr. Shekhar Kundra |
| 15 | 0181BCA070 | Ayush Bansal | 8 | Mr. Shekhar Kundra |
| 16 | 0181BCA092 | Muskan Chaudhary | 8 | Mr. Shekhar Kundra |
| 17 | 0181BCA072 | Barkha Gupta | 9 | Mr. Ajay Kumar |
| 18 | 0181BCA097 | Ramit | 9 | Mr. Ajay Kumar |
| 19 | 0181BCA073 | Bhoomika Rattan | 10 | Mr. Ajay Kumar |
| 20 | 0181BCA084 | Jai Chadha | 10 | Mr. Ajay Kumar |
| 21 | 0181BCA076 | Divyansha Garg | 11 | Mr. Ajay Kumar |
| 22 | 0181BCA095 | Raghav Kapur | 11 | Mr. Ajay Kumar |
| 23 | 0181BCA077 | Divyanshi Kalra | 12 | Mr. Ajay Kumar |
| 24 | 0181BCA088 | Mohit Jain | 12 | Mr. Ajay Kumar |
| 25 | 0181BCA078 | Gaurav Anand | 13 | Mr. Ajay Kumar |
| 26 | 0181BCA086 | Lakshay Jain | 13 | Mr. Ajay Kumar |
| 27 | 0181BCA079 | Gayatri Sahajoo | 14 | Mr. Ajay Kumar |
| 28 | 0181BCA087 | Mohit Dabas | 14 | Mr. Ajay Kumar |
| 29 | 0181BCA081 | Gurmehar Singh | 15 | Mr. Ajay Kumar |
| 30 | 0181BCA082 | Hargun Singh | 15 | Mr. Ajay Kumar |
| 31 | 0181BCA91 | Muskan  Mandhyani | 16 | Mr. Ajay Kumar |
| 32 | 0181BCA123 | Mihil Kumar | 16 | Mr. Ajay Kumar |
| 33 | 0181BCA94 | Nischal Gupta | 17 | Ms. Preeti Taneja |
| 34 | 0181BCA100 | Sanath Tuli | 17 | Ms. Preeti Taneja |
| 35 | 0181BCA096 | Rajat Adhikari | 18 | Ms. Preeti Taneja |
| 36 | 0181BCA115 | Aman Mishra | 18 | Ms. Preeti Taneja |
| 37 | 0181BCA099 | Sakshi Singhal | 19 | Ms. Preeti Taneja |
| 38 | 0181BCA122 | Nakul Dhall | 19 | Ms. Preeti Taneja |
| 39 | 0181BCA103 | Shivam Chugh | 20 | Ms. Preeti Taneja |
| 40 | 0181BCA119 | Tanishq Girotra | 20 | Ms. Preeti Taneja |
| 41 | 0181BCA105 | Shivam Soni | 21 | Ms. Preeti Taneja |
| 42 | 0181BCA109 | Udit Bharadwaj | 21 | Ms. Preeti Taneja |
| 43 | 0181BCA110 | Vaibhav Chandak | 22 | Ms. Preeti Taneja |
| 44 | 0181BCA113 | Vishal Gupta | 22 | Ms. Preeti Taneja |
| 45 | 0181BCA111 | Varun Mishra | 23 | Ms. Preeti Taneja |
| 46 | 0181BCA125 | Ankit Maurya | 23 | Ms. Preeti Taneja |
| 47 | 0181BCA116 | Harshit Goyal | 24 | Ms. Preeti Taneja |
| 48 | 0181BCA121 | Shruti Jindal | 24 | Ms. Preeti Taneja |
| 49 | 0181BCA118 | Abhinav Kohli | 25 | Dr.Aparna Marwah |
| 50 | 0181BCA127 | Gaurav Falwaria | 25 | Dr.Aparna Marwah |
| 51 | 0181BCA126 | Arjun Singh | 26 | Dr.Aparna Marwah |
| 52 | 0181BCA131 | Aryan Anand | 26 | Dr.Aparna Marwah |
| 53 | 0181BCA102 | Shaurya Nagpal | 27 | Dr.Aparna Marwah |
| 54 | 0181BCA108 | Surabhi Jain | 27 | Dr.Aparna Marwah |

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| BCA-VI SEM AFTERNOON SHIFT | | | | |
| LIST OF STUDENT WITH THEIR PROJECT GUIDES | | | | |
| Sr NO | ERP ID | Name | Group NO | Name of Internal Guide |
| 1 | 0171BCA067 | Abhay Sethi | 1 | Dr. Daljeet Singh Bawa |
| 2 | 0171BCA129 | Aman Sharma | 1 | Dr. Daljeet Singh Bawa |
| 3 | 0171BCA069 | Aditya  Aggarwal | 2 | Dr. Daljeet Singh Bawa |
| 4 | 0171BCA090 | Khushi Kataria | 2 | Dr. Daljeet Singh Bawa |
| 5 | 0171BCA071 | Anjali Arora | 3 | Dr. Daljeet Singh Bawa |
| 6 | 0171BCA083 | Hitesh Chauhan | 3 | Dr. Daljeet Singh Bawa |
| 7 | 0171BCA072 | Ansh Jindal | 4 | Dr. Daljeet Singh Bawa |
| 8 | 0171BCA080 | Gaurang Gupta | 4 | Dr. Daljeet Singh Bawa |
| 9 | 0171BCA074 | Ayushi | 5 | Dr. Daljeet Singh Bawa |
| 10 | 0171BCA117 | Sumukhi Mittal | 5 | Dr. Daljeet Singh Bawa |
| 11 | 0171BCA075 | Ayushi  Wadhwani | 6 | Dr. Daljeet Singh Bawa |
| 12 | 0171BCA104 | Rajat Yadav | 6 | Dr. Daljeet Singh Bawa |
| 13 | 0171BCA076 | Bhavya Gambhir | 7 | Dr. Daljeet Singh Bawa |
| 14 | 0171BCA119 | Tusharika Sharma | 7 | Dr. Daljeet Singh Bawa |
| 15 | 0171BCA078 | Dhruv Chhabra | 8 | Dr. Daljeet Singh Bawa |
| 16 | 0171BCA111 | Shivam Ajmani | 8 | Dr. Daljeet Singh Bawa |
| 17 | 0171BCA081 | Gaurav Goel | 9 | Dr. Daljeet Singh Bawa |
| 18 | 0171BCA088 | Jatinder Garg | 9 | Dr. Daljeet Singh Bawa |
| 19 | 0171BCA082 | Harsh Kaushal | 10 | Dr. Daljeet Singh Bawa |
| 20 | 0171BCA112 | Shivam Singla | 10 | Dr. Daljeet Singh Bawa |
| 21 | 0171BCA084 | Hrithik Malhotra | 11 | Mr. Mahesh Kumar Chaubey |
| 22 | 0171BCA120 | Vineet Chauhan | 11 | Mr. Mahesh Kumar Chaubey |
| 23 | 0171BCA089 | Kaveri Setia | 12 | Mr. Mahesh Kumar Chaubey |
| 24 | 0171BCA128 | Jahanvi Sharma | 12 | Mr. Mahesh Kumar Chaubey |
| 25 | 0171BCA092 | Kirti Sharma | 13 | Mr. Mahesh Kumar Chaubey |
| 26 | 0171BCA093 | Kriti Dhyani | 14 | Mr. Mahesh Kumar Chaubey |
| 27 | 0171BCA110 | Shankar | 14 | Mr. Mahesh Kumar Chaubey |
| 28 | 0171BCA095 | Lovy Singh Bhatia | 15 | Mr. Mahesh Kumar Chaubey |
| 29 | 0171BCA102 | Radhika Khurana | 15 | Mr. Mahesh Kumar Chaubey |
| 30 | 0171BCA096 | Mansi Bisht | 16 | Mr. Mahesh Kumar Chaubey |
| 31 | 0171BCA109 | Sakshi Rawat | 16 | Mr. Mahesh Kumar Chaubey |
| 32 | 0171BCA097 | Mayank Sharma | 17 | Mr. Mahesh Kumar Chaubey |
| 33 | 0171BCA130 | Sahil Kumar | 17 | Mr. Mahesh Kumar Chaubey |
| 34 | 0171BCA098 | Muskan Sharma | 18 | Mr. Mahesh Kumar Chaubey |
| 35 | 0171BCA124 | Mukul Chadha | 18 | Mr. Mahesh Kumar Chaubey |
| 36 | 0171BCA103 | Rahul Kakkar | 19 | Mr. Mahesh Kumar Chaubey |
| 37 | 0171BCA106 | Rohit Yadav | 20 | Mr. Mahesh Kumar Chaubey |
| 38 | 0171BCA114 | Shruti Chauhan | 20 | Mr. Mahesh Kumar Chaubey |
| 39 | 0171BCA107 | Sachi Arora | 21 | Mr. Ajay kumar |
| 40 | 0171BCA116 | Shuchi Jain | 21 | Mr. Ajay kumar |
| 41 | 0171BCA108 | Sakshi Chopra | 22 | Mr. Ajay kumar |
| 42 | 0171BCA113 | Shivam Swami | 23 | Mr. Ajay kumar |
| 43 | 0171BCA121 | Vishal Chawla | 24 | Mr. Ajay kumar |
| 44 | 0171BCA132 | Neha Bakshi | 24 | Mr. Ajay kumar |
| 45 | 0171BCA122 | Yukta Mohanka | 25 | Mr. Ajay kumar |
| 46 | 0171BCA123 | Dheeraj Bakshi | 25 | Mr. Ajay kumar |

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|  | BCA-VI SEM MORNING SHIFT | | | |
|  | LIST OF STUDENT WITH THEIR PROJECT GUIDES | | | |
| SR. NO | ERP ID | Name | Group NO | Name of Internal Guide |
| 1 | 0161BCA067 | Vibhor Jain | 1 | MS. Gargi Mukherjee |
| 2 | 0171BCA001 | Aakash Dabas | 2 | MS. Gargi Mukherjee |
| 3 | 0171BCA020 | Jaskaran Singh | 2 | MS. Gargi Mukherjee |
| 4 | 0171BCA002 | Ashish Kohli | 3 | MS. Gargi Mukherjee |
| 5 | 0171BCA038 | Poorvi | 3 | MS. Gargi Mukherjee |
| 6 | 0171BCA004 | Abhishek Sharma | 4 | MS. Gargi Mukherjee |
| 7 | 0171BCA053 | Vaibhav Pahwa | 4 | MS. Gargi Mukherjee |
| 8 | 0171BCA005 | Abhinav Goyal | 5 | MS. Gargi Mukherjee |
| 9 | 0171BCA055 | Varun Kataria | 5 | MS. Gargi Mukherjee |
| 10 | 0171BCA006 | Aman Malik | 6 | MS. Gargi Mukherjee |
| 11 | 0171BCA036 | Pavneet Kaur | 6 | MS. Gargi Mukherjee |
| 12 | 0171BCA007 | Aniket Bhatnagar | 7 | MS. Gargi Mukherjee |
| 13 | 0171BCA046 | Sarthak  Mohendru | 7 | MS. Gargi Mukherjee |
| 14 | 0171BCA008 | Ashutosh Mittal | 8 | MS. Gargi Mukherjee |
| 15 | 0171BCA029 | Manmeet Singh | 8 | MS. Gargi Mukherjee |
| 16 | 0171BCA009 | Chandan | 9 | Ms. Tripti Tiwari |
| 17 | 0171BCA018 | Harshit Gupta | 9 | Ms. Tripti Tiwari |
| 18 | 0171BCA010 | Devanshu Singh | 10 | Ms. Tripti Tiwari |
| 19 | 0171BCA031 | Naman Aggarwal | 10 | Ms. Tripti Tiwari |
| 20 | 0171BCA011 | Dhruv Gupta | 11 | Ms. Tripti Tiwari |
| 21 | 0171BCA125 | Namash Aggarwal | 11 | Ms. Tripti Tiwari |
| 22 | 0171BCA012 | Drishti Aggarwal | 12 | Ms. Tripti Tiwari |
| 23 | 0171BCA052 | Tanvi Aggarwal | 12 | Ms. Tripti Tiwari |
| 24 | 0171BCA014 | Gautam Kathuria | 13 | Ms. Tripti Tiwari |
| 25 | 0171BCA051 | Sudhanshu  Tiwari | 13 | Ms. Tripti Tiwari |
| 26 | 0171BCA015 | Gunjan  Ahluwalia | 14 | Ms. Tripti Tiwari |
| 27 | 0171BCA041 | Rahul Gupta | 14 | Ms. Tripti Tiwari |
| 28 | 0171BCA017 | Harshit Negi | 15 | Ms. Tripti Tiwari |
| 29 | 0171BCA021 | Jatin Sharma | 15 | Ms. Tripti Tiwari |
| 30 | 0171BCA019 | Himanshi Sharma | 16 | Ms. Tripti Tiwari |
| 31 | 0171BCA056 | Vertika Dhingra | 16 | Ms. Tripti Tiwari |
| 32 | 0171BCA024 | Khushboo Sharma | 17 | DR. A. K . Srivastav |
| 33 | 0171BCA026 | Kunal Singhal | 17 | DR. A. K . Srivastav |
| 34 | 0171BCA025 | Kunal Jain | 18 | DR. A. K . Srivastav |
| 35 | 0171BCA050 | Simran Verma | 18 | DR. A. K . Srivastav |
| 36 | 0171BCA030 | Muskan Kalra | 19 | DR. A. K . Srivastav |
| 37 | 0171BCA037 | Poornima Sharma | 19 | DR. A. K . Srivastav |
| 38 | 0171BCA034 | Neetant Saini | 20 | DR. A. K . Srivastav |
| 39 | 0171BCA039 | Prachi Bhardwaj | 20 | DR. A. K . Srivastav |
| 40 | 0171BCA035 | Nikhil Thadani | 21 | DR. A. K . Srivastav |
| 41 | 0171BCA057 | Yathansh Gaba | 21 | DR. A. K . Srivastav |
| 42 | 0171BCA042 | Ramandeep  Singh | 22 | DR. Aparna Marwah |
| 43 | 0171BCA058 | Vanshika Sharma | 22 | DR. Aparna Marwah |
| 44 | 0171BCA043 | Sagar Gumber | 23 | DR. Aparna Marwah |
| 45 | 0171BCA126 | Anchal Halder | 23 | DR. Aparna Marwah |
| 46 | 0171BCA044 | Saksham Rana | 24 | DR. Aparna Marwah |
| 47 | 0171BCA045 | Sandesh Sapra | 24 | DR. Aparna Marwah |
| 48 | 0171BCA048 | Shivam Bathla | 25 | DR. Aparna Marwah |
| 49 | 0171BCA054 | Vaishali Bhalla | 25 | DR. Aparna Marwah |
| 50 | 0171BCA049 | Shivam Batra | 26 | DR. Aparna Marwah |
| 51 | 0171BCA099 | Nishant Sharma | 27 | DR. Aparna Marwah |
| 52 | 0171BCA127 | Chirag Bansal | 27 | DR. Aparna Marwah |