# COURSE STRUCTURE

## Bachelor of Computer Application

## COMPUTER SCIENCE & ENGINEERING

## 2023-24
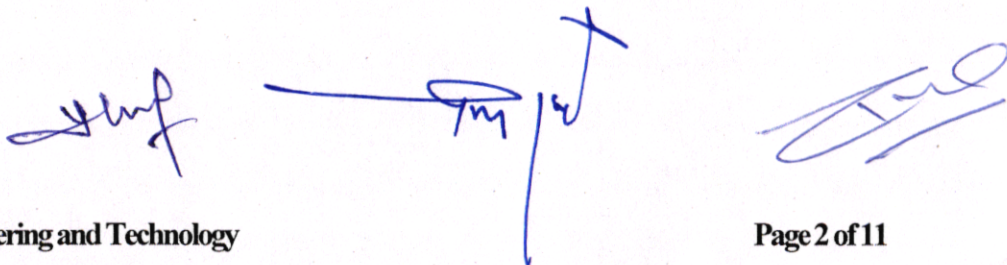
Credit distribution summary and comparison with AICTE 2018 Model Curriculum

| Year | 1st Year | | 2nd Year | | 3rd Year | |
|---|---|---|---|---|---|---|
| Semester | 1st Sem | 2nd Sem | 3rd Sem | 4th Sem | 5th Sem | 6th Sem |
| Credit* | 26 | 26 | 26 | 26 | 26 | 26 |
| Contact Hour* | 33 | 33 | 33 | 33 | 33 | 37 |

*Excluding MOOCs*

| S. No | Category | RU New |
|---|---|---|
| 1 | Humanities and Social Sciences including Management Courses | 06 |
| 2 | Engineering Science Courses including workshop, drawing, basics of electrical/ mechanical/ computer etc. | 08 |
| 3 | Professional Core Courses | 93 |
| 4 | Professional Elective Courses relevant to chosen specialization/branch | 16 |
| 5 | Open subjects – Electives from other technical and /or emerging subjects | 12 |
| 6 | Project work, seminar and internship in industry or elsewhere | 14 |
| 7 | Mandatory Courses [Environmental Sciences, Induction Program, Indian Constitution, Essence of Indian Knowledge Tradition] | 07 |
| 8 | MOOCs | 12 |
| | | 168 |

## Salient Features

### Program Elective

A set of four elective courses to enhance competency in the core area (e.g. A Computer Application students taking courses in this area).

### Open Elective

A set of four elective courses in an unrelated area to develop additional skills enhancing employment opportunities.

**MOOC Course** are run parallel to regular courses and a student have to complete 12 Credit course via MOOCs in between 3rd semester to 6th semester.

### Project

Project is offer in the last semester so as to give students ahead starts towards their BCA project.

# BCA Computer Science & Engineering
### Rama University Uttar Pradesh

## 1st Semester

| S. No | Course Code | Course Name | Category | L | T | P | Cr | CA | MTE | ETE | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BCAS-101 | Fundamentals of Mathematics | Engineering Science | 3 | 1 | 0 | 4 | 20 | 20 | 60 | 100 |
| 2 | BCAP-101 | Computer Fundamental & Office Automation | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 3 | BCAP-102 | Programming in C | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 4 | BCAP-104 | Digital Electronics & Computer Organization | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 5 | BCAH-101 | Professional Communication | AECC | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 6 |  | Open Elective-1 | Open Elective | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 7 | BCAP-151 | Office Automation Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 8 | BCAP-152 | C Programming Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 9 | BCAP-153 | Digital Electronics & Computer Organization Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 10 | BCAH-151 | Professional Communication Lab | AECC | 0 | 0 | 2 | 1 | 30 | 20 | 50 | 100 |
| **Total** | | | | 18 | 1 | 17 | 26 | 240 | 200 | 560 | 1000 |

| Contact Hr | 33 | | |
|---|---|---|---|
| Theory | 6 | Lab | 4 |

# Course Curriculum (w.e.f. Session2023-24)
## BCA Computer Science & Engineering
### Rama University Uttar Pradesh

## 2nd Semester

| S. No | Course Code | Course Name | Category | L | T | P | Cr | CA | MTE | ETE | Total |
|-------|-------------|-------------|----------|---|---|---|----|----|-----|-----|-------|
| 1 | BCAP-202 | Data Structures and Algorithm | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 2 | BCAP-203 | JAVA Programming | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 3 | BCAP-204 | Operating System and Fundamentals | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 4 | BCAP-205 | Web Technology | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 5 | BCAS-201 | Computer Aided Numerical Methods | Engineering Science | 3 | 1 | 0 | 4 | 20 | 20 | 60 | 100 |
| 6 | BCAH-201 | Environment Studies | AECC | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 7 | BCAP-252 | Data Structures and Algorithm Lab | Program Core | 0 | 0 | 2 | 1 | 30 | 20 | 50 | 100 |
| 8 | BCAP-253 | JAVA Programming Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 9 | BCAP-254 | Operating System and Fundamentals Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 10 | BCAP-255 | Web Technology Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| | | **Total** | | 18 | 1 | 14 | 26 | 240 | 200 | 560 | 1000 |

| Contact Hr | | 33 | | |
|------------|---|----|---|---|
| Theory | 6 | Lab | 4 | |

# 3rd Semester

| S. No | Course Code | Course Name | Category | L | T | P | Cr | CA | MTE | ETE | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BCAP-303 | Database Management System | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 2 | BCAP-304 | Discrete Structure | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 3 | BCAP-305 | Software Engineering | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 4 | BCAP-306 | Data Analytics Using Python | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 5 | BCAE-311 - 314 | Program Elective-I | Program Elective | 3 | 1 | 0 | 4 | 20 | 20 | 60 | 100 |
| 6 | BCAH-301 | Verbal Ability | Humanities and Social Sciences | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 7 | BCAP-353 | Database Management System Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 8 | BSEC-351 | Web Technology Programming | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 9 | BCAP-355 | Software Engineering Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 10 | BCAP-356 | Python Lab | Program Core | 0 | 0 | 2 | 1 | 30 | 20 | 50 | 100 |
| **Total** | | | | 18 | 1 | 14 | 26 | 240 | 200 | 560 | 1000 |

| Contact Hr | | 33 | | |
|---|---|---|---|---|
| Theory | 6 | Lab | 4 | |

*MOOC Course– I

Credit 3

# Course Curriculum (w.e.f. Session2023-24)
## BCA Computer Science & Engineering
### Rama University Uttar Pradesh

## 4th Semester

| S. No | Course Code | Course Name | Category | L | T | P | Cr | CA | MTE | ETE | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BCAP-401 | PHP & Perl Programming | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 2 | BCAP-402 | Computer Networks | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 3 | BCAP-404 | Computer Graphics | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 4 | BCAP-405 | Foundation of AI & ML | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 5 | BCAE- 411-414 | Program Elective-II | Program Elective | 3 | 1 | 0 | 4 | 20 | 20 | 60 | 100 |
| 6 | | Open Elective-II | Open Elective | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 7 | BCAP-451 | PHP Programming Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 8 | BCAP-452 | Computer Networks Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 9 | BCAP-453 | AI & ML Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 10 | BSEC-452 | R Programming Lab | SEC | 0 | 0 | 2 | 1 | 30 | 20 | 50 | 100 |
| | | **Total** | | 18 | 1 | 14 | 26 | 240 | 200 | 560 | 1000 |

| Contact Hr | | 33 | | |
|---|---|---|---|---|
| Theory | 6 | Lab | 4 | |

*MOOC Course-II

Credit 3

# 5th Semester

| S. No | Course Code | Course Name | Category | L | T | P | Cr | CA | MTE | ETE | Total |
|-------|-------------|-------------|----------|---|---|---|----|----|-----|-----|-------|
| 1 | BCAP-501 | Asp.net | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 2 | BCAP-502 | Professional Android Application Development | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 3 | BCAP-503 | Cryptography and Network Security | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 4 | | Open Elective-III | Open Elective | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 5 | BCAE-511-514 | Program Elective-III | Program Elective | 3 | 1 | 0 | 4 | 20 | 20 | 60 | 100 |
| 6 | BCAH-501 | Analytical Skills | Humanities and Social Sciences | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 7 | BCAP-551 | Asp.net Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 8 | BCAP-552 | Android Application Development Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 9 | BCAP-553 | Industrial Training | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 10 | BSEC-551 | .Net frame work with C# | SEC | 0 | 0 | 2 | 1 | 30 | 20 | 50 | 100 |
| | | **Total** | | **18** | **1** | **14** | **26** | **240** | **200** | **560** | **1000** |

| Contact Hr | | 33 | |
|------------|---|-----|---|
| **Theory** | 6 | Lab | 4 |

*MOOC Course-III

Credit 3

# 6th Semester

| S. No | Course Code | Course Name | Category | L | T | P | Cr | CA | MTE | ETE | Total |
|-------|-------------|-------------|----------|---|---|---|----|----|-----|-----|-------|
| 1 | BCAP-601 | Shell Programming | Program Core | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 2 | BCAP-602 | Server-Side Scripting Languages | Program Core | 3 | 1 | 0 | 4 | 20 | 20 | 60 | 100 |
| 3 | BCAE-611-614 | Program Elective-IV | Program Elective | 3 | 1 | 0 | 4 | 20 | 20 | 60 | 100 |
| 4 | BCAH-602 | Open Elective-IV | Open Elective | 3 | 0 | 0 | 3 | 20 | 20 | 60 | 100 |
| 5 | BCAP-651 | Shell Programming Lab | Program Core | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 100 |
| 6 | BCAP-652 | Capstone Project | Program Core | 0 | 0 | 20 | 10 | 50 | 150 | 300 | 500 |
| | | **Total** | | 12 | 1 | 24 | 12 | 2 | 24 | 26 | 160 |

| Contact Hr | | 38 | | |
|------------|---|-----|-----|---|
| Theory | 4 | Lab | 2 | |

*MOOC Course-IV*         *Credit 3*

## Summary of Program Elective Courses

| Program Elective-1 | | Program Elective-2 | |
|---|---|---|---|
| BCAE-311 | Interactive Web Application | BCAE-411 | MySQL |
| BCAE-312 | Microprocessor and Peripherals | BCAE-412 | SQL Server Studio |
| BCAE-313 | Management Concept and Organization Behaviors | BCAE-413 | Big Data Analysis |
| BCAE-314 | Distributed Operating System | BCAE-414 | Cloud Computing |
| **Program Elective-3** | | **Program Elective-4** | |
| BCAE-511 | Advance Java Programming | BCAE-611 | E-Commerce and It's Application |
| BCAE-512 | Data Warehousing & Data Mining | BCAE-612 | System Analysis and Design |
| BCAE-513 | Multimedia and Animation | BCAE-613 | Enterprise Resource Planning |
| BCAE-514 | Computer Ethics and Cyber Laws | BCAE-614 | Management Information System |

**Open Elective to Other Department (A student will opt any 1 from below):**

- ➤ CSOE-001: Basics of Artificial Intelligence
- ➤ CSOE-002: Computational Thinking & Programming
- ➤ CSOE-003: Web Development
- ➤ CSOE-004: Introduction to Object Oriented Programming.
- ➤ CSOE-005: Cyber Security
- ➤ CSOE-006: E-Commerce Technology

**Chairperson**

Signature: ........................

Name:      Prof. (Dr.) Hari Om Sharan

Date:

**Internal Members**

Signature:      1........................      2........................

Name:      Prof. (Dr.) C. S. Raghuvanshi      Mr. Somendra Tripathi

Date:

**External Members**

Signature:      ........................

Name:      Prof. (Dr.) Rajeev Kumar

Date:

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of MASTER OF COMPUTER APPLICATION First Year (I Semester) (Batch 2022-23) Main Examination Session, 2022-23

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
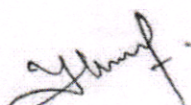
| S. No. | Paper Code | Name of the Paper | | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|---|
| | | | | Appeared | Pass | Fail | |
| 1 | MCA-101 | DATA STRUCTURE & ALGORITHM | | 18 | 13 | 5 | 72 |
| 2 | MCA-102 | OPERATING SYSTEM | | 18 | 18 | 0 | 100 |
| 3 | MCA-103 | COMPUTER ORGANIZATION & ARCHITECTURE | | 18 | 18 | 0 | 100 |
| 4 | MCA-104 | OOPS WITH C++ | | 18 | 12 | 6 | 67 |
| 5 | MCA-105 | IT AND ITS EVOLUTION | | 18 | 18 | 0 | 100 |
| 6 | MCA-106 | OPERATION RESEARCH | | 18 | 17 | 1 | 94 |
| 7 | MCA-151 | DATA STRUCTURE LAB | | 18 | 18 | 0 | 100 |
| 8 | MCA-152 | OPERATING SYSTEM LAB | | 18 | 18 | 0 | 100 |
| 9 | MCA-153 | COMPUTER ORGANIZATION & ARCHITECTURE LAB | | 18 | 18 | 0 | 100 |
| 10 | MCA-154 | OOPS WITH C++ LAB | | 18 | 18 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 18 |
| 2 | No. of Students Passed | 9 |
| | General/Overall Pass % | 50.00 |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor Computer Applications** First Year **(I Semester)** (Batch 2022-23) Main Examination **Session, 2022-23**

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-

| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|--------|-----------|-------------------|----------|------|------|----------|
| | | | Appeared | Pass | Fail | |
| 1 | BCAP-101 | COMPUTER FUNDAMENTAL & OFFICE AUTOMATION | 55 | 54 | 1 | 98 |
| 2 | BCAS-101 | FUNDAMENTALS OF MATHEMATICS | 55 | 38 | 17 | 69 |
| 3 | BCAH-101 | PROFESSIONAL COMMUNICATION | 55 | 46 | 9 | 84 |
| 4 | BCAP-102 | PROGRAMMING IN C | 55 | 41 | 14 | 75 |
| 5 | BCAH-102 | PRINCIPLE OF MANAGEMENT | 55 | 50 | 5 | 91 |
| 6 | BCAP-151 | OFFICE AUTOMATION LAB | 55 | 54 | 1 | 98 |
| 7 | BCAH-151 | PROFESSIONAL COMMUNICATION LAB | 55 | 54 | 1 | 98 |
| 8 | BCAP-152 | C PROGRAMMING LAB | 55 | 54 | 1 | 98 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 55 |
| 2 | No. of Students Passed | 33 |
| | **General/Overall Pass %** | **60.00** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

**Controller of Examinations**          **HoD/Dean**          **Registrar**          **Vice-chancellor**

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor Computer Applications** 3rd Year **(VIth Semester)** (Batch 2019-20) Main Examination **Session, 2021-22**

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-

| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | BCA-601 | USER INTERFACE DESIGN | 25 | 24 | 1 | 96 |
| 2 | BCA-602 | SERVER-SIDE SCRIPTING LANGUAGES | 25 | 25 | 0 | 100 |
| 3 | BCA-603 | DISTRIBUTED AND CROSS-PLATFORM DATABASES | 25 | 25 | 0 | 100 |
| 4 | EVS-001 | ENVIRONMENTAL STUDIES | 14 | 14 | 0 | 100 |
| 5 | BCA-651 | MAJOR PROJECT | 25 | 25 | 0 | 100 |
| 6 | BCA-652 | COLLOQUIUM | 25 | 25 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 25 |
| 2 | No. of Students Passed | 24 |
| | **General/Overall Pass %** | **96.00** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering)** First Year **(IInd Semester)** (Batch 2021-22) Main Examination Session, 2021-22

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-

| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | ESC-204 | BASIC ELECTRONICS ENGINEERING | 30 | 29 | 1 | 97 |
| 2 | HSC-201 | COMMUNICATION SKILLS-II | 30 | 30 | 0 | 100 |
| 3 | BSC-201 | ENGINEERING CHEMISTRY | 30 | 30 | 0 | 100 |
| 4 | BSC-202 | ENGINEERING MATHEMATICS-II | 30 | 29 | 1. | 97 |
| 5 | ESC-201 | INTRODUCTION TO MECHANICAL ENGINEERING | 30 | 28 | 2 | 93 |
| 6 | PCS-201 | OBJECT ORIENTED PROGRAMMING | 30 | 29 | 1 | 97 |
| 7 | HSC-202 | UNIVERSAL HUMAN VALUES & PROFESSIONAL | 30 | 30 | 0 | 100 |
| 8 | ESC-251 | BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB | 30 | 30 | 0 | 100 |
| 9 | BSC-251 | ENGINEERING CHEMISTRY LAB | 30 | 30 | 0 | 100 |
| 10 | ESC-253 | ENGINEERING DRAWING LAB | 30 | 30 | 0 | 100 |
| 11 | PCS-251 | JAVA PROGRAMMING LAB | 30 | 30 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 30 |
| 2 | No. of Students Passed | 28 |
| | **General/Overall Pass %** | **93.33** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-Chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering) 2nd Year (IVth Semester) (Batch 2020-21) Main Examination Session, 2021-22**

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
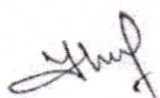
| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | CSPE-203 | ADVANCED JAVA PROGRAMMING | 34 | 34 | 0 | 100 |
| 2 | CSPE-301 | E-COMMERCE TECHNOLOGY | 34 | 34 | 0 | 100 |
| 3 | CSPS-104 | DATABASE MANAGEMENT SYSTEM | 34 | 32 | 2 | 94 |
| 4 | CSPS-110 | SOFTWARE ENGINEERING | 34 | 34 | 0 | 100 |
| 5 | CSPS-112 | THEORY OF AUTOMATA & FORMAL LANGUAGES | 34 | 33 | 1 | 97 |
| 6 | MOOC-001 | ENHANCING SOFT SKILL AND PERSONALITY/MOOC'S | 1 | 1 | 0 | 100 |
| 7 | MOOC-002 | PROGRAMMING IN JAVA/MOOC'S | 6 | 6 | 0 | 100 |
| 8 | MOOC-003 | DATA ANALYTICS WITH PYTHON/MOOC'S | 1 | 1 | 0 | 100 |
| 9 | MOOC-004 | THE JOY OF COMPUTING USING PYTHON/MOOC'S | 2 | 2 | 0 | 100 |
| 10 | CSPE-223 | ADVANCED JAVA PROGRAMMING LAB | 34 | 34 | 0 | 100 |
| 11 | CSPJ-601 | MINI PROJECT-I | 34 | 34 | 0 | 100 |
| 12 | CSPS-124 | DATABASE MANAGEMENT SYSTEM LAB | 34 | 34 | 0 | 100 |
| 13 | CSSE-102 | PYTHON PROGRAMMING | 34 | 34 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 34 |
| 2 | No. of Students Passed | 31 |
| | **General/Overall Pass %** | **91.18** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

**Controller of Examinations**

**HoD/Dean**

**Registrar**

**Vice-chancellor**

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor Computer Applications** Second Year **(III Semester)** (Batch 2021-22) Main Examination **Session, 2022-23**
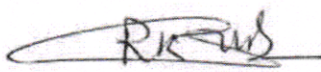
The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
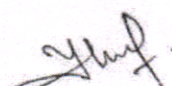
| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | BCAE-311 | INTERACTIVE WEB APPLICATION | 21 | 20 | 1 | 95 |
| 2 | BCAH-301 | VERBAL ABILITY-I | 21 | 20 | 1 | 95 |
| 3 | BCAP-301 | PROGRAMMING IN JAVA | 21 | 19 | 2 | 90 |
| 4 | BCAP-302 | OPERATING SYSTEM | 21 | 19 | 2 | 90 |
| 5 | BCAP-303 | DATABASE MANAGEMENT SYSTEM | 21 | 20 | 1 | 95 |
| 6 | BCAP-304 | DISCRETE STRUCTURE | 21 | 20 | 1 | 95 |
| 7 | BCAP-351 | PROGRAMMING IN JAVA LAB | 21 | 21 | 0 | 100 |
| 8 | BCAP-352 | OPERATING SYSTEM LAB | 21 | 21 | 0 | 100 |
| 9 | BCAP-353 | DATABASE MANAGEMENT SYSTEM LAB | 21 | 21 | 0 | 100 |
| 10 | BSEC-351 | WEB TECHNOLOGY PROGRAMMING LAB | 21 | 21 | 0 | 100 |
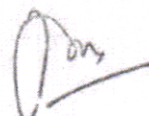
Main Result:-
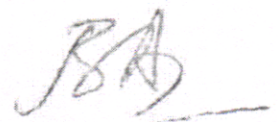
| | | |
|---|---|---|
| 1 | No. of Students Appeared | 21 |
| 2 | No. of Students Passed | 18 |
| | **General/Overall Pass %** | **85.71** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

**Controller of Examinations**

**HoD/Dean**

**Registrar**

**Vice-chancellor**

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor Computer Applications** Third Year **(V Semester)** (Batch 2020-21) Main Examination **Session, 2022-23**
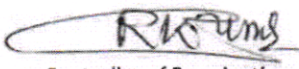
The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
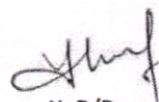
| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | BCAE-512 | DATA WAREHOUSING & DATA MINING | 15 | 14 | 1 | 93 |
| 2 | BCAH-501 | ANALYTICAL SKILLS | 15 | 11 | 4 | 73 |
| 3 | BCAH-502 | INDUSTRIAL MANAGEMENT | 15 | 14 | 1 | 93 |
| 4 | BCAP-501 | ASP. NET | 15 | 14 | 1 | 93 |
| 5 | BCAP-502 | PROFESSIONAL ANDROID APPLICATION DEVELOPMENT | 15 | 14 | 1 | 93 |
| 6 | BCAP-503 | CRYPTOGRAPHY AND NETWORK SECURITY | 15 | 14 | 1 | 93 |
| 7 | BCAP-551 | ASP. NET LAB | 15 | 15 | 0 | 100 |
| 8 | BCAP-552 | ANDROID APPLICATION DEVELOPMENT LAB | 15 | 15 | 0 | 100 |
| 9 | BCAP-553 | INDUSTRIAL TRAINING | 15 | 15 | 0 | 100 |
| 10 | BSEC-551 | .NET FRAMEWORK WITH C# | 15 | 15 | 0 | 100 |
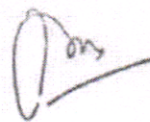
Main Result:-
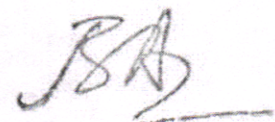
| | | |
|---|---|---|
| 1 | No. of Students Appeared | 15 |
| 2 | No. of Students Passed | 11 |
| | **General/Overall Pass %** | 73.33 |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor Computer Applications** First Year **(IInd Semester)** (Batch 2021-22) Main Examination **Session, 2021-22**
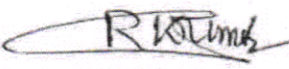
The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-

| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | BCAS-201 | COMPUTER AIDED NUMERICAL METHODS | 25 | 22 | 3 | 88 |
| 2 | BCAP-202 | DATA STRUCTURES AND ALGORITHM | 25 | 24 | 1 | 96 |
| 3 | BCAP-203 | DIGITAL ELECTRONICS & COMPUTER ORGANIZATION | 25 | 25 | 0 | 100 |
| 4 | BCAH-201 | ENVIRONMENT STUDIES | 25 | 18 | 7 | 72 |
| 5 | BCAP-201 | OOPS WITH C++ | 25 | 25 | 0 | 100 |
| 6 | BCAP-252 | DATA STRUCTURES AND ALGORITHM LAB | 25 | 25 | 0 | 100 |
| 7 | BCAP-253 | DIGITAL ELECTRONICS & COMPUTER ORGANIZATION LAB | 25 | 25 | 0 | 100 |
| 8 | BCAP-251 | OOPS WITH C++ LAB | 25 | 25 | 0 | 100 |

Main Result:-

| 1 | No. of Students Appeared | 25 |
|---|---|---|
| 2 | No. of Students Passed | 16 |
| | **General/Overall Pass %** | **64.00** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations          HoD/Dean          Registrar          Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor Computer Applications** 2nd Year **(IVth Semester)** (Batch 2020-21) Main Examination **Session, 2021-22**

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-

| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | BCAE-414 | CLOUD COMPUTING | 16 | 11 | 5 | 69 |
| 2 | BCAH-402 | HUMAN RESOURCE MANAGEMENT | 16 | 16 | 0 | 100 |
| 3 | BCAP-401 | PHP & PERL PROGRAMMING | 16 | 14 | 2 | 88 |
| 4 | BCAP-402 | COMPUTER NETWORKS | 16 | 15 | 1 | 94 |
| 5 | BCAP-403 | SOFTWARE ENGINEERING | 16 | 15 | 1 | 94 |
| 6 | BCAP-404 | COMPUTER GRAPHICS | 16 | 15 | 1 | 94 |
| 7 | BCAP-451 | PHP PROGRAMMING LAB | 16 | 16 | 0 | 100 |
| 8 | BCAP-452 | COMPUTER NETWORKS LAB | 16 | 16 | 0 | 100 |
| 9 | BCAP-453 | SOFTWARE ENGINEERING LAB | 16 | 16 | 0 | 100 |
| 10 | BSEC-451 | PYTHON PROGRAMMING | 16 | 16 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 16 |
| 2 | No. of Students Passed | 11 |
| | **General/Overall Pass %** | **68.75** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering)** 3rd Year **(VIth Semester)** (Batch 2019-20) Main Examination Session, 2021-22
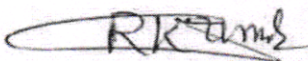
The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-

| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | CSPE-504 | CRYPTOGRAPHY & NETWORK SECURITY | 27 | 27 | 0 | 100 |
| 2 | CSPS-101 | COMPUTER GRAPHICS | 27 | 25 | 2 | 93 |
| 3 | CSPS-108 | EMBEDDED SYSTEM | 27 | 26 | 1 | 96 |
| 4 | CSPS-114 | COMPILER DESIGN | 27 | 27 | 0 | 100 |
| 5 | MBOE-102 | QUANTITATIVE TECHNIQUES | 27 | 23 | 4 | 85 |
| 6 | MOOC-001 | ETHICAL HACKING/MOOC'S | 1 | 1 | 0 | 100 |
| 7 | MOOC-002 | COMPUTER NETWARKS AND INTERNET PROTOCAL/MOOC'S | 1 | 1 | 0 | 100 |
| 8 | MOOC-003 | PROGRAMMING IN JAVA/MOOC'S | 2 | 2 | 0 | 100 |
| 9 | MOOC-004 | COMPUTER INTEGRETED MANUFACTURING/MOOC'S | 1 | 1 | 0 | 100 |
| 10 | MOOC-005 | PRODUCT DESIGN AND MANUFACTURING/MOOC'S | 1 | 1 | 0 | 100 |
| 11 | MOOC-006 | COMPILER DESIGN/MOOC'S | 1 | 1 | 0 | 100 |
| 12 | CSPJ-602 | MINI PROJECT-2 | 27 | 27 | 0 | 100 |
| 13 | CSPS-122 | COMPILER LAB | 27 | 27 | 0 | 100 |
| 14 | CSPS-128 | EMBEDDED SYSTEM LAB | 27 | 27 | 0 | 100 |
| 15 | CSPS-130 | COMPUTER GRAPHICS LAB | 27 | 27 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 27 |
| 2 | No. of Students Passed | 23 |
| | **General/Overall Pass %** | **85.19** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering)** 4th Year **(VIIIth Semester)** (Batch 2018-19) Main Examination **Session, 2021-22**

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
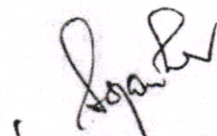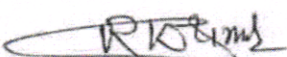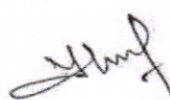
| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|--------|-----------|-------------------|----------|------|------|----------|
| | | | Appeared | Pass | Fail | |
| 1 | BCS-084 | INFORMATION SECURITY | 18 | 18 | 0 | 100 |
| 2 | BCS-087 | PARALLEL ALGORITHMS | 18 | 18 | 0 | 100 |
| 3 | BCS-851 | MAJOR PROJECT | 18 | 18 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 18 |
| 2 | No. of Students Passed | 18 |
| | **General/Overall Pass %** | **100.00** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

**Controller of Examinations**

**HoD/Dean**

**Registrar**

**Vice-chancellor**

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering)** First Year **(I Semester)** (Batch 2022-23) Main Examination **Session, 2022-23**

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-

| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | ESC-101 | BASIC ELECTRICAL ENGINEERING | 55 | 47 | 8 | 85 |
| 2 | HSC-101 | COMMUNICATION SKILLS -I | 55 | 48 | 7 | 87 |
| 3 | ESC-103 | COMPUTATIONAL THINKING & PROGRAMMING | 55 | 54 | 1 | 98 |
| 4 | BSC-102 | ENGINEERING MATHEMATICS-I | 55 | 46 | 9 | 84 |
| 5 | BSC-101 | ENGINEERING PHYSICS | 55 | 41 | 14 | 75 |
| 6 | BSC-103 | ENVIRONMENT & ECOLOGY | 55 | 38 | 17 | 69 |
| 7 | HSC-151 | COMMUNICATION SKILLS -I LAB | 55 | 55 | 0 | 100 |
| 8 | ESC-153 | COMPUTER PROGRAMMING LAB | 55 | 55 | 0 | 100 |
| 9 | BSC-151 | ENGINEERING PHYSICS LAB | 55 | 55 | 0 | 100 |
| 10 | ESC-151 | ENGINEERING WORKSHOP-LAB | 55 | 55 | 0 | 100 |

Main Result:-
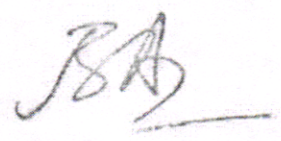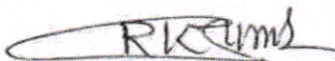
| | | |
|---|---|---|
| 1 | No. of Students Appeared | 55 |
| 2 | No. of Students Passed | 32 |
| | **General/Overall Pass %** | **58.18** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

**Controller of Examinations**          **HoD/Dean**          **Registrar**          **Vice-chancellor**

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering)** Second Year **(III Semester) (Batch 2021-22) Main Examination Session, 2022-23**

The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
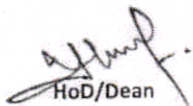
| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | PCS-301 | DATA STRUCTURES & ALGORITHMS | 30 | 28 | 2 | 93 |
| 2 | PCS-302 | COMPUTER ORGANIZATION | 30 | 29 | 1 | 97 |
| 3 | PCS-303 | WEB TECHNOLOGY | 30 | 30 | 0 | 100 |
| 4 | PCS-304 | SOFTWARE ENGINEERING | 30 | 30 | 0 | 100 |
| 5 | ESC-301 | DISCRETE MATHEMATICS | 30 | 30 | 0 | 100 |
| 6 | HSC-301 | VERBAL | 30 | 30 | 0 | 100 |
| 7 | PCS-351 | DATA STRUCTURES & ALGORITHMS LAB | 30 | 30 | 0 | 100 |
| 8 | PCS-352 | COMPUTER ORGANIZATION LAB | 30 | 30 | 0 | 100 |
| 9 | PCS-353 | WEB DEVELOPMENT LAB | 30 | 30 | 0 | 100 |
| 10 | PCS-355 | ADVANCED JAVA-SEC | 30 | 30 | 0 | 100 |
| 11 | EVS-001 | ENVIRONMENTAL STUDIES | 1 | 1 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 30 |
| 2 | No. of Students Passed | 28 |
| | **General/Overall Pass %** | **93.33** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering)** Third Year **(V Semester) (Batch 2020-21) Main Examination Session, 2022-23**
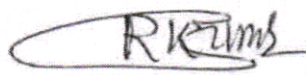
The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
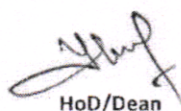
| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | CSPE-401 | DATA MINING AND WAREHOUSING | 32 | 30 | 2 | 94 |
| 2 | CSPS-105 | OPERATING SYSTEM | 32 | 30 | 2 | 94 |
| 3 | CSPS-109 | COMPUTER NETWORKS | 32 | 30 | 2 | 94 |
| 4 | CSPS-113 | DESIGN AND ANALYSIS OF ALGORITHMS | 32 | 30 | 2 | 94 |
| 5 | HU-003 | ORGANIZATION BEHAVIOUR | 32 | 30 | 2 | 94 |
| 6 | CSPE-421 | DATA MINING AND WAREHOUSING LAB | 32 | 32 | 0 | 100 |
| 7 | CSPS-121 | COMPUTER NETWORK LAB | 32 | 32 | 0 | 100 |
| 8 | CSPS-125 | OPERATING SYSTEMS LAB | 32 | 32 | 0 | 100 |
| 9 | CSSE-110 | .NET FRAME WORK | 32 | 32 | 0 | 100 |
| 10 | EVS-001 | ENVIRONMENTAL STUDIES | 2 | 2 | 0 | 100 |

Main Result:-

| | | |
|---|---|---|
| 1 | No. of Students Appeared | 32 |
| 2 | No. of Students Passed | 30 |
| | **General/Overall Pass %** | **93.75** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

Controller of Examinations

HoD/Dean

Registrar

Vice-chancellor

# RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Subject:- Result Analysis Pass Percentage before Declaration of **Bachelor of Technology (Computer Science & Engineering)** Fourth Year **(VII Semester)** (Batch 2019-20) Main Examination **Session, 2022-23**
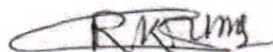
The result of the examination cited under subject above is ready for declaration. The subject wise and general pass percentage in respect of the same is given below:-
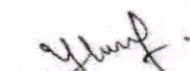
| S. No. | Paper Code | Name of the Paper | No. of Student | | | Pass (%) |
|---|---|---|---|---|---|---|
| | | | Appeared | Pass | Fail | |
| 1 | CSPE-601 | INTERNET OF THINGS | 27 | 27 | 0 | 100 |
| 2 | CSPE-703 | ARTIFICIAL INTELLIGENCE | 27 | 27 | 0 | 100 |
| 3 | CSPS-102 | SOFTWARE PROJECT MANAGEMENT | 27 | 27 | 0 | 100 |
| 4 | CSSE-104 | MACHINE LEARNING | 27 | 27 | 0 | 100 |
| 5 | HU-002 | INDUSTRIAL MANAGEMENT | 27 | 27 | 0 | 100 |
| 6 | CSPE-621 | INTERNET OF THINGS LAB | 27 | 27 | 0 | 100 |
| 7 | CSPE-723 | ARTIFICIAL INTELLIGENCE LAB | 27 | 27 | 0 | 100 |
| 8 | CSPJ-603 | MINI PROJECT - 3 | 27 | 27 | 0 | 100 |
| 9 | CSPJ-605 | INDUSTRIAL TRAINING VIVA VOCE | 27 | 27 | 0 | 100 |
| 10 | EVS-001 | ENVIRONMENTAL STUDIES (QUALIFYING SUBJECT) | 1 | 0 | 1 | 0 |

Main Result:-
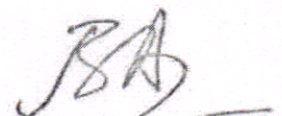
| 1 | No. of Students Appeared | 27 |
|---|---|---|
| 2 | No. of Students Passed | 27 |
| | **General/Overall Pass %** | **100.00** |

The above subject wise and general pass percentage is submitted of the University which may kindly be perused and submitted to the Vice-chancellor for approval before the results of the above examination is declared.

**Controller of Examinations**          **HoD/Dean**          **Registrar**          **Vice-chancellor**