

RATHNAVEL SUBRAMANIAM COLLEGE OF ARTS & SCIENCE

(Autonomous)

Sulur, Coimbatore – 641 402

SCHEME OF EXAMINATION – CBCS PATTERN

PROGRAMME: BCA (Bachelor of Computer Applications)

(Effective from the academic year 2017-18)



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PRINCIPAL

COE

SCHEME OF EXAMINATION – BCA

| Semester | Course Opted | Course Name | L | T | P | CIA | ES | Marks | Credits | |
|--------------|--------------|--|---|-----------|-----------|----------|----------|------------|------------|-----------|
| I | MIL-I | Tamil-I/ Hindi-I/ Malayalam-I/French-I/ Arabic-I | 6 | - | - | 25 | 75 | 100 | 4 | |
| | AECC-GI | English I-Grammar and Usage | 6 | - | - | 25 | 75 | 100 | 4 | |
| | DSC – I | C Programming | 4 | | 4 | 25 40 | 75 60 | 100 | 6 | |
| | DSC - II | Mathematics for Computer Science –I | 5 | 1 | | 25 | 75 | 100 | 6 | |
| | NCC-I | NCC/NSS/ SPORTS/CULTURALS | 1 | - | - | - | - | - | - | |
| | LIB | Library | 1 | - | - | - | - | - | - | |
| | Total | | | | 28 | | | | 400 | 20 |
| | II | MIL-II | Tamil-II/ Hindi-II/ Malayalam-II/French-II/ Arabic-II | 6 | - | - | 25 | 75 | 100 | 4 |
| | | AECC-GI | English II | 6 | - | - | 25 | 75 | 100 | 4 |
| | | DSC – III | Introduction to Computing using Python | 4 | | 4 | 25 40 | 75 60 | 100 | 6 |
| DSC – IV | | Mathematics for Computer Science –II | 5 | 1 | | 25 | 75 | 100 | 6 | |
| AECC – G2 | | Environmental Studies | 1 | | | 100 | - | 100 | 1 | |
| NCC-II | | NCC/NSS/ SPORTS/CULTURALS | 1 | - | - | - | - | - | - | |
| Total | | | | 28 | | | | 500 | 21 | |

| Semester | Course Opted | Course Name | L | T | P | CIA | ES | Marks | Credits |
|----------|--------------|---------------------------------------|----|---|---|-------|-----|-------|---------|
| III | DSC – V | Data Structures | 4 | | 4 | 25 | 75 | 100 | 6 |
| | | | | | | 40 | 60 | | |
| | DSC – VI | Operating Systems & Computer Networks | 5 | 1 | | 25 | 75 | 100 | 6 |
| | DSE-I | DSE: Elective-I | 4 | | 4 | 25 | 75 | 100 | 6 |
| | | | | | | 40 | 60 | | |
| | SEC – 1A | Communicative Skills I | 2 | | | 50 | | 50 | 2 |
| | | Career Skills I | 2 | | | Grade | | | |
| | NCC-III | NCC/NSS/ SPORTS/CULTURALS | 1 | - | - | - | - | - | - |
| | | Library | 1 | | | | - | | |
| Total | | | | | | | | | |
| | | | 28 | | | | 350 | 20 | |
| IV | DSC – VII | Design and analysis of Algorithms | 4 | | 4 | 25 | 75 | 100 | 6 |
| | | | | | | 40 | 60 | | |
| | DSC – VIII | Responsive Web Design | 5 | 1 | | 25 | 75 | 100 | 6 |
| | DSE-II | DSE: Elective-II | 4 | | 4 | 25 | 75 | 100 | 6 |
| | | | | | | 40 | 60 | | |
| | SEC – 1B | Communicative Skills II | 2 | | | 50 | - | 50 | 2 |
| | | Career Skills II | 2 | | | Grade | | | |
| | NCC-IV | NCC/NSS/ SPORTS/CULTURALS | 1 | - | - | - | - | - | - |
| | AECC-G2 | Aptitude | 3 | | | 100 | | 100 | 3 |
| Total | | | | | | | | | |
| | | | 30 | | | | 450 | 23 | |

| Semester | Course Opted | Course Name | L | T | P | CIA | ES | Marks | Credits | |
|--------------|---|---------------------------------------|-----------|---|-----|-----|-----|-------------|------------|--|
| V | DSC – IX | Database Management Systems | 4 | | 4 | 25 | 75 | 100 | 6 | |
| | | | | | | 40 | 60 | | | |
| | DSC – X | Software Engineering & UML | 5 | 1 | | 25 | 75 | 100 | 6 | |
| | DSE-III | DSE: Elective-III | 5 | 1 | | 25 | 75 | 100 | 6 | |
| | DSE-VI | DSE: Elective-VI (EDC) | 5 | 1 | | 25 | 75 | 100 | 6 | |
| | Any One Group | | | | | | | | | |
| | Group A | | | | | | | | | |
| | SEC - II | Placement - College to Corporate I | 2 | | | 50 | - | 50 | 2 | |
| | | Placement - College to Corporate II | 2 | | | 50 | - | 50 | 2 | |
| | Group B | | | | | | | | | |
| SEC - II | PC-Hardware & Troubleshooting | 4 | | | 100 | - | 100 | 4 | | |
| Total | | | 30 | | | | | 500 | 28 | |
| | | | | | | | | | | |
| VI | ALCTA * (e-Learning in MOOC Platform) | | | | | | | | | |
| | DSC – XI | NoSQL Database | 4 | | 4 | 25 | 75 | 100 | 6 | |
| | | | | | | 40 | 60 | | | |
| | DSC – XII | Javascript and JQuery | 5 | 1 | | 25 | 75 | 100 | 6 | |
| | DSE-IV | DSE: Elective-IV | 4 | | 4 | 25 | 75 | 100 | 6 | |
| | | | | | | 40 | 60 | | | |
| | DSE – V | Elective V : Project Work & Viva Voce | | 6 | | 40 | 60 | 100 | 6 | |
| Total | | | 28 | | | | | 400 | 24 | |
| Total | | | | | | | | 2600 | 140 | |

NonCredit Course – Group II (COP)

| | | | |
|--------------|--------------------------------------|-----|------------|
| I Semester | 2D Design Concepts paper –I | BCA | Completion |
| II Semester | 2D Design Concepts Practical – I | BCA | Completion |
| III Semester | 3D Fundamentals Paper -II | BCA | Completion |
| IV Semester | 3D Fundamentals Practical – II | BCA | Completion |
| V Semester | 3D Industry Workflow Paper – III | BCA | Completion |
| VI Semester | 3D Industry Workflow Practical – III | BCA | Completion |

ABBREVIATIONS

| | |
|---------|--|
| MIL | Multi Indian/ International Languages |
| AECC-G1 | Ability Enhancement Compulsory Courses – I & II: Group-I (English) |
| AECC-G2 | Ability Enhancement Compulsory Courses – II & IV: Group-II |
| DSC | Discipline Specific Courses |
| DSE | Discipline Specific Elective Courses |
| EDC | Extra Disciplinary Course |
| SEC | Skill Enhancement Courses |
| ALCTA | ALCTA– e Learning in MOOC platform |

DSE I -Discipline Specific Elective Courses I: (III Semester)

1. Foundations to User Experience
2. Angular JS

DSE II- Discipline Specific Elective Courses II: (IV Semester)

1. User Interface Design
2. PHP & MySQL

DSE III-Discipline Specific Elective Courses III: (V Semester)

1. Cyber Security I
2. Machine Learning I
3. Smart Phone App Development I

DSE IV- Discipline Specific Elective Courses IV: (VI Semester)

1. Cyber Security II
2. Machine Learning II
3. Smart Phone App Development II

Note for DSC/DSE (Theory & Practical) Evaluation

Courses comprising both theory & practical will be assessed separately. A separate pass in both theory & practical is mandatory. Theory will be evaluated 25:75 pattern & practical will be evaluated in 40:60 pattern and finally the marks will be converted to 100 by giving equal weightage for both theory & practical. In case if the candidate fails in practical, it is enough if he reappears in practical alone and vice versa.

