## 17C)  Structure of Courses under BBA(CA) Programme and Evaluation Pattern
### First Year BBA(CA)  Semester – I w.e.f. 2021- 22

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE)  (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
|---|---|---|---|---|---|---|---|---|---|
| B4-21/101 | Basic Programming in "C' | Core Course | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/102 | Database Management System (DBMS) | Core Course | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/ 103 | Business Statistics | Core Course | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/ 104 | Financial Accounting | Core Course | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/ 105 | Principles of Management | Core Course | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/106 | Computer Laboratory Based on B4-21/101 and B4-21/102 ( 2 credits each ) | Core Course Practical | Practical | 4 | - | - | 100 | - | 100 |
| B4-21/107 | Add on course ( Basics of IT ) | Skills Enhancement Courses | Theory + Practical | 2 | 25 | - | - | 25 | 50 |

**First Year BBA(CA) Semester – II w.e.f. 2021- 22**

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
| B4-21/201 | Advanced programming in 'C' | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/202 | Relational Database Management (RDBMS) | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/203 | Business Mathematics | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/204 | Business Communication | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/205 | Organisational Behaviour and Human Resource Management | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/206 | Computer Laboratory Based on B4-21/201 and B4-21/202 ( 2 cr. each ) | Core Course Practical | Practical | 4 | -- | -- | 100 | - | 100 |
| B4-21/207 | Add on course (Advanced Excel) | Skills Enhancement Courses | Theory + Practical | 2 | 25 | - | - | 25 | 50 |

## Second Year BBA(CA) Semester – III (w.e.f. 2022- 23)

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
| B4-21/301 | Data Structure using 'C' | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/302 | Web Technology (HTML, CSS, JS) | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/303 | Software Engineering | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/304 | Computer Networking | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/305A | Digital Marketing | General Elective Courses | Theory | 3 | 20 | 20 | | 60 | 100 |
| | OR | | | | | | | | |
| B4-21/305 B | Consumer Affairs | General Elective Courses | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/306 | Computer Laboratory Based on B4-21/301 and B4-21/302 ( 2 cr. each ) | Core Course Practical | Practical | 4 | -- | -- | 100 | | 100 |

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
| B4-21/307 | Environment Awareness | Ability Enhancement Compulsory Course | Theory + Practical | 2 | 25 | - | - | 25 | 50 |

**Second Year BBA(CA)  Semester – IV (w.e.f. 2022- 23)**

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
| B4-21/401 | C++ programming | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/402 | Object Oriented Software Engineering | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/403 A | Dot Net Programming | Generic Elective Courses | Theory | 3 | 20 | 20 | | 60 | 100 |

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | | | |
| | | | | | | | | | |
| | Or | | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/403 B | Python Programming | Generic Elective Courses | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/404 A | Big Data | Generic Elective Courses | Theory | 3 | 20 | 20 | | 60 | 100 |
| | OR | | | | | | | | |
| B4-21/404 B | Block Chain | Generic Elective Courses | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/405 | Project based on HTML ,CSS,JS | Core Course Practical / Project | Project | 3 | - | - | 100 | - | 100 |
| B4-21/406 | Computer Laboratory Based on B4-21/401, | Core Course | Practical | 6 | - | - | 100 | - | 100 |

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
| | B4-21/403 and B4-21/404 ( 2 cr. each ) | Practical / Project | | | | | | | |
| B4-21/407 | Add on course ( J- Query ) | Skills Enhancement Courses | | 2 | 25 | - | | 25 | 50 |

**Third Year BBA(CA)  Semester – V (w.e.f. 2023- 24)**

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
| B4-21/501 | Core Java | Core Course | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/502 | Operating System | Core Course | Theory | 3 | 20 | 20 | - | 60 | |

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | | | | | | | | 100 |
| B4-21/503 | Cyber Security | Core Course | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/504 A | Angular JS | Generic Elective Courses | Theory | 3 | 20 | 20 | - | 60 | 100 |
| | Or | | | | | | | | |
| B4-21/504 B | PHP | Generic Elective Courses | Theory | 3 | 20 | 20 | - | 60 | 100 |
| B4-21/505 | Project based on Dot Net / Python | Core Course Practical / Project | Project | 4 | - | - | 100 | - | 100 |
| B4-21/506 | Computer Laboratory Based on B4-21/501 and | Core Course Practical / | Practical | 4 | - | - | 100 | - | 100 |

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | B4-21/504 ( 2 cr. each ) | Project | | | | | | | |
| B4-21/507 | Add on course (Refer Elective course list) | Skills Enhancement Courses | Theory + Practical | 2 | 25 | - | - | 25 | 50 |

**Third Year BBA(CA)  Semester – VI (w.e.f. 2023- 24)**

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
|---|---|---|---|---|---|---|---|---|---|
| B4-21/601 | Advance Java | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/602 | Android Programming | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |

| Course Code | Title of Course / Paper | Nature of Course | Theory / Project / Practical | No of Credits | Continuous Comprehensive Evaluation (CCE) (Internals) (40 marks) | | Project / Practical Exam (Marks) | Semester End Examination (Marks) | Total Marks |
| | | | | | Various Internal Examinations (Marks) | Mid-Sem Examination (Marks) | | | |
|---|---|---|---|---|---|---|---|---|---|
| B4-21/603 | Software Testing | Core Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/604 A | Node JS | Generic Elective Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| | Or | | | | | | | | |
| B4-21/604 B | Advance PHP | Generic Elective Course | Theory | 3 | 20 | 20 | | 60 | 100 |
| B4-21/605 | Project based on Web based / Application based | Core Course Practical / Project | Project | 4 | - | - | 100 | - | 100 |
| B4-21/606 | Computer Laboratory Based on B4-21/601, B4-21/602 and B4-21/604 ( 2 cr. each ) | Core Course Practical / Project | Practical | 6 | - | - | 100 | - | 100 |
| B4-21/607 | Add on course (Refer Elective course list) | Skills Enhancement Courses | | 2 | 25 | - | - | 25 | 50 |

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