These Regulations are common to all the students admitted to the Two-Year Master’s Programmes in the Faculties of Arts, Science, Indian Languages, Education, Marine Sciences, and Fine Arts from the academic year 2019-2020 onwards.

1. Definitions and Nomenclature

1.1 University refers to Annamalai University.

1.2 Department means any of the academic departments and academic centres at the University.

1.3 Discipline refers to the specialization or branch of knowledge taught and researched in higher education. For example, Botany is a discipline in the Natural Sciences, while Economics is a discipline in Social Sciences.

1.4 Programme encompasses the combination of courses and/or requirements leading to a Degree. For example, M.A., M.Sc.

1.5 Course is an individual subject in a programme. Each course may consist of Lectures/Tutorials/Laboratory work/Seminar/Project work/Experiential learning/ Report writing/viva-voce etc. Each course has a course title and is identified by a course code.

1.6 Curriculum encompasses the totality of student experiences that occur during the educational process.

1.7 Syllabus is an academic document that contains the complete information about an academic programme and defines responsibilities and outcomes. This includes course information, course objectives, policies, evaluation, grading, learning resources and course calendar.

1.8 Academic Year refers to the annual period of sessions of the University that comprises two consecutive semesters.

1.9 Semester is a half-year term that lasts for a minimum duration of 90 days. Each academic year is divided into two semesters.

1.10 Choice Based Credit System is a mode of learning in higher education that enables a student to have the freedom to select his/her own choice of elective courses across various disciplines for completing the Degree programme.

1.11 Core Course is mandatory and an essential requirement to qualify for the Degree.

1.12 Elective Course is a course that a student can choose from a range of alternatives.

1.13 Value-added Courses are optional courses that complement the students’ knowledge and skills and enhance their employability.

1.14 Credit refers to the quantum of course work in terms of number of class hours in a semester required for a programme. The credit value reflects the content and duration of a particular course in the curriculum.

1.15 Credit Hour refers to the number of class hours per week required for a course in a semester. It is used to calculate the credit value of a particular course.

1.16 Programme Outcomes (POs) are statements that describe crucial and essential knowledge, skills and attitudes that students are expected to achieve and can reliably manifest at the end of a programme.

1.17 Programme Specific Outcomes (PSOs) are statements that list what the graduate of a specific programme should be able to do at the end of the programme.
1.18 **Learning Objectives also known as Course Objectives** are statements that define the expected goal of a course in terms of demonstrable skills or knowledge that will be acquired by a student as a result of instruction.

1.19 **Course Outcomes (COs)** are statements that describe what students should be able to achieve/demonstrate at the end of a course. They allow follow-up and measurement of Learning Objectives.

1.20 **Grade Point Average (GPA)** is the average of the grades acquired in various courses that a student has taken in a semester. The formula for computing GPA is given in section 11.3.

1.21 **Cumulative Grade Point Average (CGPA)** is a measure of overall cumulative performance of a student over all the semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters.

1.22 **Letter Grade** is an index of the performance of a student in a particular course. Grades are denoted by the letters S, A, B, C, D, E, RA, and W.

2. **Programmes Offered and Eligibility Criteria**

   The Department of Business Administration offers seven Two-Year MBA Programmes and the eligibility criteria for each of these programmes are detailed below:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Programme</th>
<th>Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>M.B.A. Business Analytics</td>
<td>The candidate who has undergone 10+2+3/4 pattern of study in any discipline with a minimum of 50% marks in Part- III. Admission is through TANCET.</td>
</tr>
<tr>
<td>2.</td>
<td>M.B.A. Dual Specialization</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>M.B.A. Infrastructure Management</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>M.B.A. Marketing Management</td>
<td></td>
</tr>
</tbody>
</table>

2.1 In the case of SC/ST and Differently-abled candidates, a pass is the minimum qualification for all the above Programmes.

3. **Reservation Policy**

   Admission to the various programmes will be strictly based on the reservation policy of the Government of Tamil Nadu.

4. **Programme Duration**

   4.1 The Two Year Master’s Programmes consist of two academic years.

   4.2 Each academic year is divided into two semesters, the first being from July to November and the second from December to April.

   4.3 Each semester will have 90 working days (18 weeks).

5. **Programme Structure**

   5.1 The Two Year Master’s Programme consists of Core Courses, Elective Courses (Departmental & Interdepartmental), and Project.

5.2 **Core courses**

   5.2.1 These are a set of compulsory courses essential for each programme.

   5.2.2 The core courses include both Theory (Core Theory) and Practical (Core Practical) courses.

5.3 **Elective courses**

   5.3.1 **Departmental Electives (DEs)** are the Electives that students can choose from a range of Electives offered within the Department.
5.3.2 **Interdepartmental Electives (IDES)** are Electives that students can choose from amongst the courses offered by other departments of the same faculty as well as by the departments of other faculties.

5.3.3 **Students shall take a combination of both DEs and IDEs.**

5.4 **Experiential Learning**
5.4.1 Experiential learning provides opportunities to students to connect principles of the discipline with real-life situations.

5.4.2 In-plant training/field trips/internships/industrial visits (as applicable) fall under this category.

5.4.3 Experiential learning is categorised as Core.

5.5 **Project**
5.5.1 Each student shall undertake a Project in the final semester.

5.5.2 The Head of the Department shall assign a Research Supervisor to the student.

5.5.3 The Research Supervisor shall assign a topic for research and monitor the progress of the student periodically.

5.5.4 Students who wish to undertake project work in recognised institutions/industry shall obtain prior permission from the University. The Research Supervisor will be from the host institute, while the Co-Supervisor shall be a faculty in the parent department.

5.6 **Value added Courses (VACs)**
5.6.1 Students may also opt to take Value added Courses beyond the minimum credits required for award of the Degree. VACs are outside the normal credit paradigm.

5.6.2 These courses impart employable and life skills. VACs are listed in the University website and in the Handbook on Interdepartmental Electives and VACs.

5.6.3 Each VAC carries 2 credits with 30 hours of instruction, of which 60% (18 hours) shall be Theory and 40% (12 hours) Practical.

5.6.4 Classes for a VAC are conducted beyond the regular class hours and preferably in the II and III Semesters.

5.7 **Online Courses**
5.7.1 The Heads of Departments shall facilitate enrolment of students in Massive Open Online Courses (MOOCs) platform such as SWAYAM to provide academic flexibility and enhance the academic career of students.

5.7.2 Students who successfully complete a course in the MOOCs platform shall be exempted from one elective course of the programme.

5.8 **Credit Distribution**
The credit distribution is organised as follows:

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>65-75</td>
</tr>
<tr>
<td>Elective Courses</td>
<td>15</td>
</tr>
<tr>
<td>Project</td>
<td>6-8</td>
</tr>
<tr>
<td><strong>Total (Minimum requirement for award of Degree)</strong></td>
<td><strong>90-95</strong></td>
</tr>
</tbody>
</table>

*Each Department shall fix the minimum required credits for award of the Degree within the prescribed range of 90-95 credits.*
5.9 **Credit Assignment**

Each course is assigned credits and credit hours on the following basis:

1 Credit is defined as

1 Lecture period of one hour per week over a semester

1 Tutorial period of one hour per week over a semester

1 Practical/Project period of two or three hours (depending on the discipline) per week over a semester.

6 **Attendance**

6.1 Each faculty handling a course shall be responsible for the maintenance of *Attendance and Assessment Record* for candidates who have registered for the course.

6.2 The Record shall contain details of the students’ attendance, marks obtained in the Continuous Internal Assessment (CIA) Tests, Assignments and Seminars. In addition the Record shall also contain the organisation of lesson plan of the Course Instructor.

6.3 The record shall be submitted to the Head of the Department once a month for monitoring the attendance and syllabus coverage.

6.4 At the end of the semester, the record shall be duly signed by the Course Instructor and the Head of the Department and placed in safe custody for any future verification.

6.5 The Course Instructor shall intimate to the Head of the Department at least seven calendar days before the last instruction day in the semester about the attendance particulars of all students.

6.6 Each student shall have a minimum of 75% attendance in all the courses of the particular semester failing which he or she will not be permitted to write the End-Semester Examination. The student has to redo the semester in the next year.

6.7 Relaxation of attendance requirement up to 10% may be granted for valid reasons such as illness, representing the University in extracurricular activities and participation in NCC/NSS/YRC/RRC.

7 **Mentor-Mentee System**

7.1 To help the students in planning their course of study and for general advice on the academic programme, the Head of the Department will attach certain number of students to a member of the faculty who shall function as a Mentor throughout their period of study.

7.2 The Mentors will guide their mentees with the curriculum, monitor their progress, and provide intellectual and emotional support.

7.3 The Mentors shall also help their mentees to choose appropriate electives and value-added courses, apply for scholarships, undertake projects, prepare for competitive examinations such as NET/SET, GATE etc., attend campus interviews and participate in extracurricular activities.

8 **Examinations**

8.1 The examination system of the University is designed to systematically test the student's progress in class, laboratory and field work through Continuous Internal Assessment (CIA) Tests and End-Semester Examination (ESE).

8.2 There will be two CIA Tests and one ESE in each semester.
8.3 The Question Papers will be framed to test different levels of learning based on Bloom’s taxonomy viz. Knowledge, Comprehension, Application, Analysis, Synthesis and Evaluation/Creativity.

8.4 Continuous Internal Assessment Tests
8.4.1 The CIA Tests shall be a combination of a variety of tools such as class tests, assignments, seminars, and viva-voce that would be suitable to the course. This requires an element of openness.

8.4.2 The students are to be informed in advance about the assessment procedures.

8.4.3 The pattern of question paper will be decided by the respective faculty.

8.4.4 CIA Test-I will cover the syllabus of the first two Units while CIA Test-II will cover the last three Units.

8.4.5 CIA Tests will be for two to three hours duration depending on the quantum of syllabus.

8.4.6 A student cannot repeat the CIA Test-I and CIA Test-II. However, if for any valid reason, the student is unable to attend the test, the prerogative of arranging a special test lies with the teacher in consultation with the Head of the Department.

8.5 End Semester Examinations (ESE)
8.5.1 The ESE for the first/third semester will be conducted in November and for the second/fourth semester in May.

8.5.2 A candidate who does not pass the examination in any course(s) of the first, second and third semesters will be permitted to reappear in such course(s) that will be held in April and November in the subsequent semester/year.

8.5.3 The ESE will be of three hours duration and will cover the entire syllabus of the course.

9 Evaluation
9.1 Marks Distribution
9.1.1. Each course, both Theory and Practical as well as Project/Internship/Field work/In-plant training shall be evaluated for a maximum of 100 marks.

9.1.2 For the theory courses, CIA Tests will carry 25% and the ESE 75% of the marks.

9.1.3 For the Practical courses, the CIA Tests will constitute 40% and the ESE 60% of the marks.

9.2. Assessment of CIA Tests
9.2.1 For the CIA Tests, the assessment will be done by the Course Instructor

9.2.2 For the Theory Courses, the break-up of marks shall be as follows:

| Test-I & Test-II | 15 |
| Seminar         | 05 |
| Assignment      | 05 |
| Total           | 25 |
9.2.3 For the Practical Courses (wherever applicable), the break-up of marks shall be as follows:

<table>
<thead>
<tr>
<th></th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test-I</td>
<td>15</td>
</tr>
<tr>
<td>Test-II</td>
<td>15</td>
</tr>
<tr>
<td>Viva-voce and Record</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>40</strong></td>
</tr>
</tbody>
</table>

9.3 Assessment of End-Semester Examinations
9.3.1 Evaluation for the ESE is done by both External and Internal examiners (Double Evaluation).
9.3.2 In case of a discrepancy of more than 10% between the two examiners in awarding marks, third evaluation will be resorted to.

9.4 Assessment of Project/Dissertation
9.4.1 The Project Report/Dissertation shall be submitted as per the guidelines laid down by the University.
9.4.2 The Project Work/Dissertation shall carry a maximum of 100 marks.
9.4.3 CIA for Project will consist of a Review of literature survey, experimentation/field work, attendance etc.
9.4.4 The Project Report evaluation and viva-voce will be conducted by a committee constituted by the Head of the Department.
9.4.5 The Project Evaluation Committee will comprise the Head of the Department, Project Supervisor, and a senior faculty.
9.4.6 The marks shall be distributed as follows:

<table>
<thead>
<tr>
<th>Continuous Internal Assessment (25 Marks)</th>
<th>End Semester Examination (75 Marks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review-I 10</td>
<td>Project / Dissertation Evaluation</td>
</tr>
<tr>
<td>Review-II: 15</td>
<td>Viva-voce</td>
</tr>
<tr>
<td></td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>25</td>
</tr>
</tbody>
</table>

9.5 Assessment of Value-added Courses
9.5.1 Assessment of VACs shall be internal.
9.5.2 Two CIA Tests shall be conducted during the semester by the Department(s) offering VAC.
9.5.3 A committee consisting of the Head of the Department, faculty handling the course and a senior faculty member shall monitor the evaluation process.
9.5.4 The grades obtained in VACs will not be included for calculating the GPA.

9.6 Passing Minimum
9.6.1 A student is declared to have passed in each course if he/she secures not less than 40% marks in the ESE and not less than 50% marks in aggregate taking CIA and ESE marks together.
9.6.4 A candidate who has not secured a minimum of 50% of marks in a course (CIA + ESE) shall reappear for the course in the next semester/year.

1. Conferment of the Master's Degree
   A candidate who has secured a minimum of 50% marks in all courses prescribed in the programme and earned the minimum required credits shall be considered to have passed the Master's Programme.
11. Marks and Grading

11.1 The performance of students in each course is evaluated in terms Grade Point (GP).

11.2 The sum total performance in each semester is rated by Grade Point Average (GPA) while Cumulative Grade Point Average (CGPA) indicates the Average Grade Point obtained for all the courses completed from the first semester to the current semester.

11.3 The GPA is calculated by the formula

\[
GPA = \frac{\sum_{i=1}^{m} C_i G_i}{\sum_{i=1}^{m} C_i}
\]

where, \(C_i\) is the Credit earned for the Course \(i\) in any semester; \(G_i\) is the Grade Point obtained by the student for the Course \(i\) and \(m\) is the number of Courses passed in that semester.

11.4 CGPA is the Weighted Average Grade Point of all the Courses passed starting from the first semester to the current semester.

\[
CGPA = \frac{\sum_{i=1}^{m} C_i G_i}{\sum_{i=1}^{m} C_i}
\]

where, \(C_i\) is the Credit earned for the Course \(i\) in any semester; \(G_i\) is the Grade Point obtained by the student for the Course \(i\) and \(m\) is the number of Courses passed in that semester.

11.5 Evaluation of the performance of the student will be rated as shown in the Table.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Points</th>
<th>Marks %</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>10</td>
<td>90 and above</td>
</tr>
<tr>
<td>A</td>
<td>9</td>
<td>80-89</td>
</tr>
<tr>
<td>B</td>
<td>8</td>
<td>70-79</td>
</tr>
<tr>
<td>C</td>
<td>7</td>
<td>60-69</td>
</tr>
<tr>
<td>D</td>
<td>6</td>
<td>55-59</td>
</tr>
<tr>
<td>E</td>
<td>5</td>
<td>50-54</td>
</tr>
<tr>
<td>RA</td>
<td>0</td>
<td>Less than 50</td>
</tr>
<tr>
<td>W</td>
<td>0</td>
<td>Withdrawn from the examination</td>
</tr>
</tbody>
</table>

11.6 Classification of Results. The successful candidates are classified as follows:

11.6.1 For First Class with Distinction: Candidates who have passed all the courses prescribed in the Programme in the first attempt with a CGPA of 8.25 or above within the programme duration. Candidates who have withdrawn from the End Semester Examinations are still eligible for First Class with Distinction (See Section 12 for details).

11.6.2 For First Class: Candidates who have passed all the courses with a CGPA of 6.5 or above.

11.6.3 For Second Class: Candidates who have passed all the courses with a CGPA between 5.0 and less than 6.5.

11.6.4 Candidates who obtain highest marks in all examinations at the first appearance alone will be considered for University Rank.

11.7 Course-Wise Letter Grades

11.7.1 The percentage of marks obtained by a candidate in a course will be indicated in a letter grade.

11.7.2 A student is considered to have completed a course successfully and earned the credits if he/she secures an overall letter grade other than RA.
11.7.3 A course successfully completed cannot be repeated for the purpose of improving the Grade Point.

11.7.4 A letter grade RA indicates that the candidate shall reappear for that course. The RA Grade once awarded stays in the grade card of the student and is not deleted even when he/she completes the course successfully later. The grade acquired later by the student will be indicated in the grade sheet of the Odd/Even semester in which the candidate has appeared for clearance of the arrears.

11.7.5 If a student secures RA grade in the Project Work/Field Work/Practical Work/Dissertation, he/she shall improve it and resubmit if it involves only rewriting/ incorporating the clarifications suggested by the evaluators or he/she can re-register and carry out the same in the subsequent semesters for evaluation.

12. **Provision for Withdrawal from the End Semester Examination**

12.1 The letter grade W indicates that a candidate has withdrawn from the examination.

12.2 A candidate is permitted to withdraw from appearing in the ESE for one course or courses in ANY ONE of the semesters ONLY for exigencies deemed valid by the University authorities.

12.3 **Permission for withdrawal from the examination shall be granted only once during the entire duration of the programme.**

12.3 Application for withdrawal shall be considered only if the student has registered for the course(s), and fulfilled the requirements for attendance and CIA tests.

12.4 The application for withdrawal shall be made ten days prior to the commencement of the examination and duly approved by the Controller of Examinations. Notwithstanding the mandatory prerequisite of ten days notice, due consideration will be given under extraordinary circumstances.

12.5 Withdrawal is **not** granted for arrear examinations of courses in previous semesters and for the final semester examinations.

12.6 Candidates who have been granted permission to withdraw from the examination shall reappear for the course(s) when the course(s) are offered next.

12.7 Withdrawal shall not be taken into account as an appearance for the examination when considering the eligibility of the candidate to qualify for First Class with Distinction.

13. **Academic misconduct**

Any action that results in an unfair academic advantage/interference with the functioning of the academic community constitutes academic misconduct. This includes but is not limited to cheating, plagiarism, altering academic documents, fabrication/falsification of data, submitting the work of another student, interfering with other students’ work, removing/defacing library or computer resources, stealing other students’ notes/assignments, and electronically interfering with other students'/University’s intellectual property. Since many of these acts may be committed unintentionally due to lack of awareness, students shall be sensitised on issues of academic integrity and ethics.

14. **Transitory Regulations**

Wherever there has been a change of syllabi, examinations based on the existing syllabus will be conducted for two consecutive years after implementation of the new syllabus in order to enable the students to clear the arrears. Beyond that, the students will have to take up their examinations in equivalent subjects, as per the new syllabus, on the recommendation of the Head of the Department concerned.

15. **Notwithstanding anything contained in the above pages as Rules and Regulations governing the Two Year Master’s Programmes at Annamalai University, the Syndicate is vested with the powers to revise them from time to time on the recommendations of the Academic Council.**
The document is a course structure for the MBA Infrastructure Programme at Annamalai University. It details the programme code, programme code, and course structure for students admitted from the academic year 2019-2020. The structure is divided into core courses, elective courses, and value-added courses. Each course is listed with its code, title, hours per week, and marks distribution. The total hours and marks are also provided for each category.
## Value Added Course (VAC)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
<th>C</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>19BIFC401</td>
<td>Core 18: IT Infrastructure Management</td>
<td>4</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFC402</td>
<td>Core 19: Business Policy and Strategic Management</td>
<td>4</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFC403</td>
<td>Core 20: Supply Chain Management for Infrastructure</td>
<td>4</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFC404</td>
<td>Core 21: Indian Ethos and Values</td>
<td>4</td>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td>19XXXX405</td>
<td>Elective 6: Interdepartmental Elective</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFC406</td>
<td>Core 22: International Infrastructure Management</td>
<td>4</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFE407</td>
<td>Elective 7: Department Elective</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFE408</td>
<td>Elective 8: Department Elective</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFC409</td>
<td>Comprehensive viva</td>
<td>2</td>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>25</strong></td>
<td></td>
<td><strong>225</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit</strong></td>
<td><strong>95</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Elective Courses

### Department Electives (DE)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
<th>C</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>19BIFE207</td>
<td>Infrastructure Planning</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFE208</td>
<td>Strategic Planning for Infrastructure Sectors</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFE307</td>
<td>Value Engineering</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFE308</td>
<td>Project Procurement and Quality Management in Construction</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFE407</td>
<td>Environmental Impact and Risk Assessment</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>19BIFE408</td>
<td>Disaster Mitigation and Management</td>
<td>3</td>
<td>3</td>
<td>25</td>
</tr>
</tbody>
</table>
Programme Outcomes

PO1: Critical thinking
PO2: Cultivating Cognitive skills required in the job market
PO3: Effective Communication
PO4: Familiarity with ICT to thrive in the information age
PO5: Cultivating aptitude for research
PO6: Respect for alternate view-points including those conflicting with one’s own perspectives
PO7: Ability to work individually and as members in a team
PO8: Upholding ethical standards
PO9: Acting local while thinking global
PO10: Commitment to gender equality
PO11: Commitment to Sustainable development
PO12: Lifelong learning

Programme Specific Outcomes

PSO1: Acquire basic knowledge of management, its functions, disciplines and its relevance and importance for a successful infrastructure development.
PSO2: Acquire in depth knowledge of specific courses in the Infrastructure Management, including present global perspective with an ability to evaluate, analyse, discriminate and blend existing, indigenous and new knowledge and integrate the same.
PSO3: Analyse and synthesize problems related to infrastructure management by applying critical thinking in a practical and policy context.
PSO4: Evaluate a wide range of potential solutions and to arrive at practical solutions feasibly considering public health and safety, cultural, societal and environmental factors in the core areas.
PSO5: Obtaining information relevant to problems through literature surveys and experiments and applying of research methodology, techniques and tools design analyse and interpret data to view things in broader perspective and contribute individually and group to the technological knowledge and scientific development of infrastructure.
PSO6: Understanding group dynamics, recognise opportunities and contribute positively in scientific research with rational analysis in order to achieve common goals and further the learning of themselves as well as others towards infrastructure management.
PSO7: Develop strategies and procedures for successful implementation of infrastructure projects designed and developed for well-being of the society.
Learning Objectives
The objective of this course is
LO1: To impart knowledge in general management practice in an organization.
LO2: To provide managerial skills to students to manage an organization.
LO3: To impart knowledge in management activities like planning, organizing, staffing, directing, motivating and controlling.

Unit-1 Introduction (14 h)

Unit-2 Planning (10 h)
Distinction between operational and strategic planning – Types of plans – Grouping of various types of plans – Steps in planning – Importance of policies – Types of policies – Principles of policy making – Policy formulation and Administration – Basic area of policy making.

Unit-3 Organising (10 h)

Unit-4 Staffing and Directing (12 h)

Unit-5 Supervising Control and MBO (14 h)

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course students will be able to
CO1: Impart knowledge in general management practice like planning, organizing, staffing, directing, motivating and controlling in an organization.
CO2: Understand the need for team work, to work effectively in a team and to act as a global leader.
CO3: Improve the Cognitive skills related to Indian and global Organisation structure and to understand the different levels of management in an organisation.
CO4: Understand the need for quality policy and controlling techniques to be practiced in an organization.

CO5: Improve and develop the communication skills and the need for ethical business practice.

CO6: Develop conflict management plan and to solve the problems in an organization.

Outcome Mapping

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Semester – I

19BIFC102: Managerial Economics

Credits: 3
Hours: 60

Learning Objectives

The Objective of this course is

LO1: To understand and learn the Economic theories and concepts to be adapted in Business Development.

LO2: To impart knowledge in analytical skills enabling the students to face the challenges arising in Business organisation.

LO3: To provide and help the students a vast Knowledge on Managerial Economics to become Business Entrepreneurs.

Unit-1 Basic Concepts (14 h)


Unit-2 Cost Analysis (10 h)

Cost concepts and classifications – Cost output relationship in the long run and short run – Economies (Internal and External) and Diseconomies of scale – Cost control and Cost reduction – Production function – Isoquants, Isocost curves and Least cost combination.

Unit-3 Pricing Decisions (12 h)


Unit-4 Profit Analysis (10 h)

Profit theories – profit policy – Profit budget – Break even analysis – Break even chart – Theory of profit maximization.

Unit-5 Macro Economics and Business Decision (14 h)


Text Books


Supplementary Readings


Course Outcomes
Upon completion of this course the students will be able to
CO1: Understand the role of Economic theory and concepts in Management Decision making.
CO2: Analyse the situations challenging the management environment in an organisation.
CO3: Knowing the cost theories will be able to be effective manager in cost reduction.
CO4: Handle the Micro and Macro Environment.
CO5: Understand the challenges of Entrepreneur and build the confidence to do his own business.
CO6: Manage any situation arising in Business environment.

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Semester – I 19BIFC103: Organizational Behaviour Credits : 2

Learning Objective
The objective of this course is
LO1: To learn and understand organizational behaviour concepts and models, moving from
individual behaviour to group behaviour
LO2: To explain the concepts of organizational behaviour and develop effective Human Relations
Policies for effective performance.
LO3: To provide the concepts of attitude, motivation and job satisfaction and related theories.

Unit –1 Organizational Behaviour: An Overview (14 h)
Historical Development, Behavioural sciences and Organizational behaviour organizational
behaviour (OB) in global context, Managing worker diversity-Developing Assertive Behaviour
Skills-Emerging Business Realities.

Unit-2 Learning-Attitudes-Values and –Job Satisfaction (10 h)
Learning: Definition and Importance, Theories of learning, Principles of learning, Shaping as
managerial tool, Applications in organizations. Attitudes, Values and Job Satisfaction: Sources and
types of attitudes, Attitude formation and change, Cognitive Dissonance Theory. Values: meaning,
importance, source and types, and applications in organizations. Effects of employee attitude, Job
related attitudes.

Unit –3 Personality & Personality Attributes -Perception -Creativity (10 h)
Personality: Foundations of individual behaviour, Personality, Meaning and Importance,
Development of personality, Determinants of personality, Theories of personality, Relevance of
personality to managers. Perception: Nature, Importance and Definition of Perception, Factors
involved in perception, The Perceptual Process, Perceptual Selectivity and Organization,
Applications in Organizations.-Creativity-process and Blocks.

Unit-4 Motivation-Culture-Group Dynamics (14 h)
Motivation: Theories of motivation, Motivation applied in organizations, Principles, applications -
dimensions & Types of culture, Creating, Sustaining & Transmitting culture, Keeping cultures alive
& How employees learn culture-Emotions & Emotional Intelligence-Handling Fear, Anger and Depression- Group Processes & Teams in Organizations -nature of groups, Stages of group development, Meaning of teams, Types of teams, characteristics of teams, Team development, Team decision making Interpersonal Communications-Increasing Personal and Interpersonal effectiveness through understanding and practicing, Transactional Analysis and Johari Window Model.

Unit-5 Leadership-Conflict-Organizational Change (12 h)

Text Books

Supplementary Reading

Course Outcome
Upon completion of the course students will be able to
CO1: Understand individual behavior in organizations, including diversity, attitudes.
CO2: Study job satisfaction, emotions, moods, personality, values, perception, decision making, and motivational theories.
CO3: Recognize group behavior in organizations, including communication, leadership, power and politics, conflict, and negotiations.
CO4: Unleash the organizational system, including organizational structures, culture, human resource and change.
CO5: Analyze the Leadership Characteristics, organizational Conflicts.
CO6: Know the importance of Organizational Change.

Outcome Mapping

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Semester – I

19BIFC104: Accounting For Managers

Credits : 3
Hours: 60

Learning Objective:
LO1: To acquaint the students with the various concepts, techniques of accounts methods
LO2: To analyse the process of accounting data analysis and interpretation.
LO3: To help the student take decision making in the areas of Management Accounting.
Unit-1 Introduction To Management Accounting and Financial Accounting (14 h)

Unit-2 Financial Statement Analysis, Ratio Analysis, Fund and Cash Flow Analysis (10 h)

Unit-3 Methods and Techniques Of Cost Accounting (10 h)
Concept of cost – Elements of cost – Cost Accounting – Objectives – Cost Sheet (Problems) – Classification of cost – Cost Unit and Cost Centre – Methods of Costing _ Techniques of Costing.

Unit-4 Marginal Costing, Budget and Budgetary Control (12 h)
Marginal Costing – Concept – Advantages and Disadvantages – Break even analysis – Cost volume profit analysis – Budget and Budgetary control – Objectives – Type of budgets – Preparation of Sales, Cash, flexible and master budgets (simple problems).

Unit-5 Standard Costing and Variance Analysis (14 h)

Text Books

Supplementary Readings
1. Maheswari, S.N., Cost and Management Accounting, Sultan Chand & Sons.,Publisher New Delhi, 2013.

Course Outcomes
Upon completion of the course students will be able to

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<th>Understand and get knowledge on accounting format with effectively and professionally.</th>
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<td>Acquire the knowledge and skills that related to financial and non-financial information to formulate business.</td>
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<td>Develop the global business, how to management accounting helps for decision making.</td>
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<td>CO4</td>
<td>Work individual as well as team member in financial aspects of business.</td>
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<td>Analyse and Implementation their responsibility and ethical financial information.</td>
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<td>Provide sustainable development of business using tools and technique in accounting.</td>
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Learning Objective
The learning objective of the course is
LO1: To explain the fundamentals of computers, hardware, software and its evolution.
LO2: To provide in-depth knowledge on software development process and its related functionalities.
LO3: To enable data processing concepts and its applications.
LO4: To impart knowledge on networking, its types and topologies.
LO5: To introduce the strategic implementation of IT and its applications in organisations

Unit–1 Computer Fundamentals (14 h)

Unit–2 Software Development applications (10 h)

Unit–3 Data Processing Concepts (10 h)

Unit–4 Computer Networks (12 h)

Unit–5 Implementing and Managing IT (14 h)

Text Books

Supplementary Readings

Course Outcome
Upon completion of the course the students will be able to

CO1: Understand the evolution and recent developments in hardware, software, management functions related packages and other accessories.

CO2: Recognise, understand and involve in development of programs, system software and applications for various functions of business.

CO3: Organize and work with files, folders and data storage for various functions in modern business

CO4: Get familiar with working in MS-office and its application for various functions in modern business.

CO5: Gain familiarity with the concepts and terminology used in the network development.

CO6: Implement and maintain the operations of networking in information system of various functions for strategic advantage.

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Semester – I

19BIFC107: Project, Entrepreneurship And Small Business Management

Credits : 3
Hours: 60

Learning Objectives

The objectives of this course is

LO1: To impart knowledge in project management tools and techniques practiced in a project.

LO2: To provide exposure in the methods adopted in identifying a new project and to know the difference between pre-feasibility and feasibility study.

LO3: To understand the role of entrepreneur in the Indian context and to expose to the importance of small scale industry.

Unit–1 Project Planning (10 h)


Unit–2 Project Feasibility and Project Finance and Evaluation (14 h)


Unit–3 Introduction to Entrepreneur (12 h)


Unit–4 Entrepreneurship Environment and Challenges (10 h)

Unit–5 Small Business Management (14 h)

Text Books
1. Prasanna Chandra, Projects, Tata McGraw hill, New Delhi, 2007

Supplementary Readings

Course Outcomes
Upon completion of the course students will be able to

CO1: Understand and get skill on Project management tools and Information system used in a project.
CO2: Impart knowledge on Infrastructureproject and Project Identification methods that are practiced in Indian and Global scenario.
CO3: Improve cognitive skills on project delays and to resolve conflict in a project.
CO4: Understand the role of Entrepreneur and ethical practice in Indian and global scenario.
CO5: Develop the leadership skills, communication skills and the ability to work with a project team.
CO6: Impart knowledge on Training institute and Financial institution that assist the small scale industry in the sustainable development.

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Semester – I 19BIFC108: Research Methodology

Credits : 3
Hours: 60

Learning Objective of the course is
LO1: To equip the students with the basic understanding of the research methodology
LO2: To provide an insight into the application of modern analytical tools and techniques for the purpose of management decision making.
LO3: To impart knowledge in data collection and research tools to efficiently complete their business research.

Unit–1 Introduction to Research and Research Methodology (14 h)

Unit–2 Data Collection (10 h)
Methods of data collection – Observational and Survey methods – Field work plan – Administration of surveys – Training for field investigators – Sampling methods – Sample size.

Unit–3 Research Tools (10 h)
Source of Data – Primary – Secondary data – Questionnaire Design; Attitude measurement techniques – Scaling Techniques.

Unit–4 Application of Statistics in Research (14 h)

Unit–5 Report Preparation (12 h)

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course students will be able to

| CO1: Display competencies and knowledge on the Key Knowledge area of research and its methodologies. |
| CO2: Acquire the skills to explore appropriate research problems and parameters. |
| CO3: Evaluate research problems and various research designs. |
| CO4: Formulate hypotheses and develop statistical models |
| CO5: Acquire the skills to analyse various research problems, interpret the various statistical tests results and generate good research reports. |
| CO6: Develop proficiency in using SPSS for Data analysis. |

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Semester – I 19BIFC109: Comprehensive Viva-voce (Industrial Visits and Subjects) Credits : 2 Hours: 60
Learning Objective
The objective of this course is
LO1: To educate the concept of finance and its concern with everything that takes place in the conduct of the business.
LO2: To develop and acquaint the students with the various concepts, techniques, methods of planning and forecasting.
LO3: To explain various sources of finance, dividend policy and capital structure.

Unit-1 Introduction to Financial Management (14 h)

Unit-2 Long- Term Financing (12 h)

Unit-3 Working Capital Management (10 h)
Meaning of working capital - Net working capital – Financing mix approaches - Sources of working capital financing - Management of cash and marketable security: Importance of cash and liquidity - Cash balance deciding factors- Determination of cash cycle — Receivable management - Objectives - Formulation of Credit and collection policies - Inventory management - Objectives of Inventory — Determination of optimum level of inventory - Types of Inventory.

Unit-4 Capital Structure and Capital Budgeting (10 h)
Capital Structure - Theories of Capital Structure — Assumptions - Features of an appropriate capital structure - Determinants of the capital structure.

Unit-5 Cost of Capital and Dividend Policy Decision (14 h)
Cost of Capital — Significance — Determining component of Cost of Capital — Weighted Average Cost of Capital (Simple Problems) — Flotation Costs.

Text Books

Supplementary Readings

Course Outcome:
After completion of this course, the student should be able to
CO1: Analyse the functions of finance manager who entails planning, organising, controlling, monitoring and evaluating the financial resources of an organisation to achieve its overall objectives.
CO2: Describe the characteristics of various sources of long-term financing.
CO3: Analyse the key issues related to working capital policy and various facets of inventory management.
CO4: Discuss the techniques of Capital budgeting and explore certain advanced issues in capital budgeting.
CO5: Expound various views on relationship between capital structure and cost of capital.
CO6: Explore the aspects of dividend decision and describe the determinants of appropriate dividend policy.

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Semester – II 19BIFC202: Marketing Management Credits : 2 Hours: 60

Learning Objectives
The objective of this course is
LO1: To familiarize with the various concepts in marketing
LO2: To acclimatize the students about the marketing environment
LO3: To understand consumer behaviour
LO4: To analyse the factors influencing consumer decision
LO5: To develop the ability to design best marketing strategy

Unit-1 Marketing and its Environment (14 h)

Unit-2 Market Analysis and Segmentation (12 h)

Unit-3 Product and Pricing Strategies (10 h)

Unit-4 Physical Distribution and Promotion (14 h)
Unit-5 Consumer Behaviour and CRM (10 h)

Text Books

Supplementary Readings

Course Outcome
After completion of the course students will be able to
CO1: Familiar into marketing concept and environment.
CO2: Built the Critical approach and analyze the market and segmenting markets.
CO3: Well communicate the authorities about the buyer's opinion towards promotional as well as marketing mix strategies.
CO4: Analyze the innovative market information and derive insights.
CO5: Construct the suitable marketing strategies after evaluating the current trend about new products and copyrights.
CO6: Teach the ethics of marketing to the corporate world and also can explore the purchase decision process.

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Semester – II
19BIFC203: Human Resource Management

Learning Objectives
The objective of the course is
LO1: To introduce the basic concepts to understand the importance of Human Resource Management
LO2: To provide understanding of the various functions of Human Resource Management
LO3: To Acquaint the application of management functions and principles towards acquisition, development, retention and compensation of employees

Unit-1 Introduction (14 h)

Unit-2 Job Analysis, Job Design and Human Resource Planning (10 h)

Unit-3 Training and Performance Appraisal (12 h)

Unit-4 Promotion, Job Evaluation and Compensation (10 h)

Unit-5 Quality of work life and Participative Management (14 h)

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course students will be able to
CO1: Apply and contribute to the development, implementation and evaluation of Planning of Human Resources, Recruitment, Selection, and Retention.
CO2: Create the design and evaluation of Training and Development Programmes.
CO3: Develop and Facilitate Performance management and Compensation management by upholding ethical standards for sustainable development.
CO4: Critically evaluate and communicate Health, Welfare and safety aspects of employees and organization.
CO5: Appreciate Human Resource aspects of an organization for better decision making.
CO6: Conduct research, prepare report and recommend changes in Human Resource Practices.

Outcome Mapping

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25
Learning Objectives
The objective of this course is,

LO1: To know about production functions and the different ergonomics considerations in designing the production system.

LO2: To analyze the factors influencing plant location and principles of plant out existing in the industry.

LO3: To help the students to understand about production planning and control and the role of Gantt charts in production scheduling.

LO4: To explain the essentials of materials management and the role of inventory system in running a business.

Unit–1 Production Function (14 h)
Plant Location – Factors influencing plant location – Multi Plant location – Foreign Location – Relocation – Plant location trends.

Unit–2 Plant Layout and Maintenance (10 h)

Unit–3 Production Planning and Control (10 h)

Unit–4 Materials Management and Materials Management Information System (12 h)

Unit–5 Store and Purchase Function (14 h)
Purchasing function – Purchasing policies and procedures, legal aspects of purchasing, tax considerations in purchasing, selections and sources of supply and make or buy decisions – Vendor evaluation and rating – vendor development.

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course students will be able to,

CO1: Demonstrate the core features of production function at the operational and strategic levels, its correlation with employees, process, productivity, quality and information technology besides it contribution to the competitiveness of firms.

CO2: Appraise the production functions and their interaction with other business functions such as finance, marketing, human resource, supply chain and innovation.

CO3: Evaluate the factors that may influence the location of a plant in national and foreign along with the ability to identify operational methodologies to assess and improve the organizational overall performance.

CO4: Assess the principles underlying on Production Planning and Control and pertain various qualitative techniques of maintenance function for an extensive sustainability and development of the organizations.

CO5: Apply materials forecasting and planning techniques to carry out the work independently or team and develop basic materials requirement schedules in order to take aggregate decisions.

CO6: Develop an integrated framework for critical thinking entailed for today’s managers towards purchasing policies, procedures, legal aspects, and tax considerations which analyze the enterprise as a whole with a specific focus on the organizations wealth creation processes.

Outcome Mapping

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Semester – II 19BIFC206: Decision Support System And Management Information System

Credits : 3
Hours: 60

Learning Objective
The learning objective of the course is

LO1: To provide a real-world understanding of information systems and Decision Support System application in business.

LO2: To impart a firm foundation and background needed in the field of information systems.

LO3: To explain the Information System technologies currently available in business world.

LO4: To provide the right balance of conceptual background, technical information and real-world applications.

LO5: To introduce the infrastructure required and security issues for the effective use of information system

Unit–1 Basic MIS and DSS concepts (14 h)

Unit–2 Design and development of MIS and DSS (10 h)
Designing Information System: System Development Life cycle (SDLC) approach: Requirement Analysis; Information gathering; Design and developing the IS; Implementation of IS in organizational settings. Rapid application Development: Application Systems; ERP applications. DSS development process-DSS evolution-GDSS application and design. Mathematical models in DSS.

Unit–3 Infrastructure for MIS and DSS (10 h)

Unit–4 MIS in Functional Components and System Security (14 h)

Unit–5 IT infrastructure Management (12 h)
Organising MIS function in the enterprise- structure of MIS team in the organization-Different strategies of IT infrastructure management; In-house development of MIS- Outsourcing MIS function; Hardware and Software updating-End user training and development-End user training need identification.

Text Books

Supplementary Readings

Course Outcome
Upon completion of the course the students will be able to
CO1: Categorize the components of information systems and differentiate how they interact among them.
CO2: Understand MIS and DSS within a context of an integrated collection of subsystems within an organisation.
CO3: Classify the conceptual foundations, structure and technology of information systems.
CO4: Formulate and develop an information-based DSS and MIS, supporting improved decision making and problem solving by improved individual insight.
CO5: Determine and develop MIS and DSS in support of management, users and functional areas for the organisation.
CO6: Develop planning and techniques involved in the implementation of an information system, specifically MIS & DSS

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Semester – II

19BIFE207: Infrastructure Planning

Credits : 3
Hours: 60

Learning Objectives
The Objective of the course is
LO1: To familiarize the basics concepts of infrastructure and planning and document the different phases in the life cycle of an infrastructure project.
LO2: To explain the concepts of financial, economic, social and environmental impact and describe and explain the main features of project evaluation..
LO3: To describe and explain the basic features of risk and quality management of a project, and the extent that these management areas need to be implemented.

Unit-1 Introduction (12 h)
Definitions of infrastructure; Typical infrastructure planning steps; Planning and appraisal of major infrastructure projects; Screening of project ideas; Life cycle analysis; Multi-criteria analysis for comparison of infrastructure alternatives.

Unit-2 Procurement Strategies (10 h)
Procurement strategies; Scheduling and management of planning activities; Economic Analysis – Concepts and Applications.

Unit-3 Methodologies (14 h)
Principles of methodologies for economic analysis of public works, Social welfare function, Indifference curves and tradeoffs, Demand curves and price elasticity’s; Benefit-cost ratio and internal rate of return; Shadow pricing; Accounting for risk and uncertainty.

Unit-4 Project Risk and Estimation of Cash Flows (14 h)

Unit-5 Perspectives of Infrastructure Planning (10 h)
Political and social perspectives of infrastructure planning; Case studies.

Text Books

Supplementary Readings

Course Outcomes
Upon completing of the course, student will be able to:
CO1: Critically evaluate the different phases in the life cycle of an infrastructure project and role of various management functions in each phase.

CO2: Analyse the basic principles of project appraisal and evaluation, and determining feasibility of projects.

CO3: Evaluate the basic features of risk and quality management of a project, and the extent that these management areas need to be implemented.

CO4: Develop methodologies for economic analysis and ICT usage for various activities involved in infrastructure planning.

CO5: Demonstrate the concepts of financial, economic, social and environmental impact and risk associated.

CO6: Understand and evaluate the environmental impact in an infrastructure project.

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Semester – II 19BIFE208: Strategic Planning For Infrastructure Sectors Credits: 3 Hours: 60

Learning Objectives
The Objective of the course is

LO1: To teach the concepts and strategies used in infrastructural sectors and provide inputs on various infrastructure sectors in India.

LO2: To explain the procurement process and its relative functions.

LO3: To explain the role of privatizations and various models and strategies, strategic decisions and challenges in implementation.

Unit-1 Introduction (10 h)
Introduction to infrastructure- Definition and types – An overview of the Power sector- Water supply and Sanitation sector- Road, rail, air and port transportation sectors- telecommunications sector- urban infrastructure- rural infrastructure in India. Special economic zones - Introduction.

Unit-2 Organizations and Players (11 h)
Organizations and players in the field of infrastructure. An overview of infrastructure project finance – procurement process, concession- design and award, financial risk analysis, management and mitigation. Credit rating of infrastructure projects, credit allocation framework for infrastructure projects.

Unit-3 Infrastructure Privatization (12 h)
Private involvement in infrastructure: Infrastructure privatization- benefits of infrastructure privatization- problems with infrastructure privatization-challenges in privatization of water supply-challenges in privatization of power privatization of infrastructure in India- Privatization of road transportation infrastructure in India.

Unit-4 Challenges in Implementation (13 h)
Challenges to successful infrastructure planning and implementation: Mapping and facing the landscape of risks in infrastructure projects- Economic and Demand risks- Political risks- Socio-Environmental risks- Cultural risks in international infrastructure projects- Legal and contractual issues in infrastructure- Challenges in construction and maintenance of infrastructure.

Unit-5 Infrastructure Strategies (14 h)
Strategies for successful infrastructure project implementation: risk management framework for infrastructure projects- shaping the planning phase of infrastructure projects to mitigate risks- Designing sustainable contracts- Introduction to fair process and negotiation- Negotiation with multiple stakeholders on infrastructure projects- Sustainable development of infrastructure-
Information technology and systems for successful infrastructure management- Innovative design and maintenance of infrastructure facilities- infrastructure modelling and life cycle analysis techniques.

**Text Books**

**Supplementary Readings**
5. VISION – TAMILNADU 2023 - Strategic plan for Infrastructure Development in Tamilnadu

**Course Outcomes**
Upon completing of the course, student will be able to:

**CO1**: Critically review various infrastructure sectors and debate their strengths and weaknesses.

**CO2**: Investigate and analyse different frameworks used in infrastructure sectors and the variables impacting each sector.

**CO3**: Demonstrate the systematic process to select and screen a project and design strategies for successful implementation of projects.

**CO4**: Appreciate the organization setup of infrastructure organization, its participants and ICT usage.

**CO5**: Evaluate the concept of privatization and challenges in implementing the projects.

**CO6**: Develop strategies for successful implementation of infrastructure projects

**Outcome Mapping**

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**Semester – II**

19BIFC209: Exposure to Small Medium Enterprises – Project Work

**Course Objective**
Students should undergo a 40 hours of observational study to learn from small and medium units and establishments. They should get versatile exposure in all specialization areas of the business. They can make use of second semester evening hours and weekends to undergo the study. They are expected to submit an observational report of their study for evaluation.

MBA SME project evaluation will be done for 100 marks which includes Dissertation (75 marks) and Viva voce (25 marks) and the minimum requirement for passing the project is 50 marks. A periodical review will be carried out to assess the originality of the project.

**Guidelines**
- The duration of the study is 40 hours.
- The students have to select a small/ medium/tiny enterprise of their own.
- Students have to visit the enterprise during the evening hours or on leave days to complete the project.
• All functional areas of the business have to be studied and the same have to be reported.
• Students have to submit the report about the firm they are involved in.
• Students should get the attendance from the firm and attach the same in the report.
• Students are allotted a guide in the department.
• Frequent discussions have to be made with the guide for the completion of the project.
Learning Objectives
The Objective of this course is
LO1: To provide an in-depth understanding of the Concept of OR
LO2: To enable the course participants to understand the various Techniques of OR
LO3: To provide an in-depth understanding of the OR role in managerial Decision making.

Unit–1 Introduction (14 h)

Unit–2 Linear Programming (10 h)

Special Purpose Algorithms

Unit–3 Inventory Models (14 h)
Inventory costs – Cost of average inventory – Optimum Number of orders per year – Optimum days supply per order – Optimum rupee value per order – Assumptions – Applications of EOQ in Production process – Reorder point – Lead Time – Safety Stock.
Waiting Line Models – Definitions of waiting lines – Single channel Queue models (Poisson Distributed arrivals and Exponentially Distributed Service Time) – Multiple channel Queue models (Poisson Distributed Arrivals and exponentially distributed Service Times) – Simulation of Queuing System.

Unit–4 Game Theory (10 h)

Network Models

Unit–5 Replacement Models (12 h)
Capital equipment replacement – Replacement of terms that fail completely – Individual Vs Group replacement.

Sequencing
Problems with ‘n’ jobs and 2 machines problems with ‘n’ jobs and 3 machines.

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course, the student will
CO1: Critically think about the priorities that are involved in the daily activities of a project.
CO2: Cultivate and Enhance the knowledge about Build the best fit route of transportation for carrying schedule of activities.
CO3: Have the ability to work and Graphically locate the optimum peak point in completing the project.
Learning Objectives
The Objective of the course is
LO1: To give an in-depth understanding on rural area and explain an insight in rural infrastructure and its importance.
LO2: To offer the framework for planning and analysing the infrastructure for agricultural and allied activities.
LO3: To provide insight into various infrastructural development opportunities in rural areas and to introduce about the opportunities available in rural infrastructure development.

Unit-1 Introduction (08 h)
Nature, scope, need and importance of infrastructure planning for rural area. Concept, approaches, issues to provide infrastructure for rural settlement.

Unit-2 Infrastructure for Agriculture (12 h)
Infrastructure inputs for agriculture; Importance, features, problems of agriculture; Classification of land, Change in land utilization pattern, Farm mechanization, Pesticides, Fertilizers.

Unit-3 Infrastructure for Allied activities (14 h)

Unit-4 Infrastructural Development (13 h)
Infrastructure to provide energy – Fuel and electricity network for developing rural areas. Raw materials distribution centres for handicrafts and rural industries. Tourism potential and heritage in rural places.

Unit-5 Infrastructure for Different Sectors (13 h)

Text Books

Supplementary Readings

Course Outcomes
Upon completing of the course, student will be able to:
CO1: Realise the need and importance of rural infrastructure.
CO2: Demonstrate the infrastructure required for agriculture and other rural allied sectors.
CO3: Relate the development of rural infrastructure development to national development.
CO4: Understand opportunities available in rural infrastructure development.
CO5: Develop projects relating to rural infrastructure development.
CO6: Develop strategies, procedures and policies related to infrastructure for the uplift of rural community.

OUTCOME MAPPING

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Semester – III

19BIFC303: Project Legislations

Credits : 3
Hours: 60

Learning Objectives
The Objective of this course is
LO1: To explain about the jurisdiction and constitutional law related to project.
LO2: To explain the role of private participation and PPP in Indian scenario and to impart knowledge about the infrastructure, policies, reforms and laws in various sectors.
LO3: To learn the legal context about coastal zone, forest, land acquisition and environmental impact and to acclimatize the basic laws affecting operations of a business enterprise.

Unit-1 Introduction (10 h)
Constitutional law - Allocation of jurisdiction over different infrastructure sectors between the Centre and State - Law making powers Administrative Law Role of Centre and State in policy formulation – Central funding of infrastructure projects – central oversight and interference; ESI – Consent to establish – Consent to operate

Unit-2 Private Participation (12 h)
Investment requirements – non ideological factors leading to commercialisation and privatisation of infrastructure - from socialism to market driven economy - legal framework for private sector participation – modes of Public Private Partnership (PPP) - dispute settlement clauses in concession agreements.

Unit-3 General legal context (10 h)
General Framework on environmental regulation and guidelines- Coastal Zone Regulation - Forest (Conservation) Act -Environmental Impact Assessment - Role of judiciary - Land Acquisition – Rehabilitation and resettlement

Unit-4 Mechanism of Governance (14 h)
Theories of regulation - genesis of Independent regulation - evolution of regulation in different jurisdictions - Design and structure of regulators – scope and functions - regulatory process - and regulatory autonomy and accountability - regulatory predictability and certainty Regulatory law in India

Unit-5 Infrastructure Sector polices, reforms, and laws (14 h)

Telecommunications - The national telecom policies - the legal framework - Reforms – Policies Oil, Petroleum and Natural Gas - Reforms, policies and legal framework - New Exploration Licensing Policy (NELP) - production sharing contracts- the new Petroleum Regulatory and Natural Gas Board Act – the emerging regulatory reforms

Transport – Law, policy and reforms relating to Airports – Railways - Road – Port/TAMP and an overview of coastal shipping and Inland Water Transport policy

Text Books

Supplementary Readings

Course Outcomes
Upon completing of the course, student will be able to:
CO1: Understand the basics of constitution, nature of contracts, including rights and duties of owners and non-owners.
CO2: Critically evaluate about the infrastructure policies, reforms and laws in various sectors.
CO3: Appreciate the negotiable instruments, partnership, consumer protection and cyber laws.
CO4: Demonstrate the nature of corporate secretarial practices followed in the companies.
CO5: Understand the mechanics of governance, jurisdiction, its structure and functions
CO6: Understand and practice the policies, laws and reforms related to various sector

Outcome Mapping

Semester – III  19BIFC304: International Business And Export Management  Credits : 3  Hours: 60

Learning objectives
The objectives of the course is:
LO1: To know the origins and patterns of International Trade and concepts of terms of trade
LO2: To understand contemporaneous export procedure, pertinent documents and tariff
LO3: To acquaint the aspects of international finance and forex markets.

Unit–1 Theories of International Trade and Nature of International Business and BOT/BOP (14 h)
International Trade – Theories for basis of international trade (The comparative cost theory, opportunity cost theory, Heckschey ohlin theory) – Concepts of terms of trade – Balance of
Payment – Balance of Payment disequilibrium and correction – International Orientation and Environment.

Unit–2 Export Procedure and Export Documents and Tariff (12 h)

Unit–3 International Finance and Foreign Exchange Market (10 h)

Unit–4 Export Marketing and Pricing (10 h)

Unit–5 Export and Import Finance (14 h)

Text Books
2. Gargi Sanati, Financing International trade banking theories and applications, SAGE2019

Supplementary Readings
1. Dr.P.Y.Mishra, Principles of International Marketing, Laxmi Book Publications 2017
5. Gerald S. Albaum, Edwin Duerr, International marketing and export management Prentice hall 2011

Course Outcomes
Upon completion of the course the students will be able to
CO1: Get in depth knowledge about export procedure and documents.
CO2: Describe the aspects of export marketing and pricing methods.
CO3: Know the facet of export & import finance.
CO4: Analyze complexities in export pricing.
CO5: Compare Exim financial services that suits business needs.
CO6: Evaluate the need for comprehensive and specific export credit insurance policies to the organization.

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Learning Objectives
The objective of the course is
LO1: To introduce the basic concepts and to explain the importance of Soft Skills.
LO2: To provide understanding of the various Soft Skills.
LO3: To acquaint various soft skills that would assist students in their career and personal lives.

Unit - 1 Soft Skill and Personality Development (14 h)
Soft skills – Meaning and Importance, Self concept - Self awareness, Self development, Know Thyself – Power of positive attitude – Etiquette and Manners
Listening – Types of Listening – Effective Listening – Barriers to Listening – Assertive communication

Unit -2 Communication Skills (12 h)
Non-verbal communication – Body language – Proxemics

Unit - 3 Interpersonal Skills (10 h)
Interpersonal skills – Relationship development and maintenance – Transactional Analysis Conflict resolution skills – levels of conflict – handling conflict - Persuasion – Empathy – Managing emotions – Negotiation – types, stages & skills – Counselling skills

Unit – 4 Employability Skills (14 h)
Goal setting – Career planning – Corporate skills – Group discussion – Interview skills – Types of Interview - Interview body language - E-mail writing – Job application – cover letter - Resume preparation

Unit - 5 Work Skills (10 h)

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course students will be able to
CO1: Develop effective communication in oral and written forms.
CO2: Improve their cognitive skills by enhancing learning skills, presentation skills with ICT, problem solving and decision making skills.
CO3: Critically think and evaluate their own self better and build ethical qualities for personal and professional success
CO4: Manage emotions and stress and build team skills for sustainable development in global business environment.
CO5: Analyse conflicts and maintain better interpersonal relationships.
CO6: Develop and incorporate time management and resource management skills to achieve one’s own goals.
Learning Objectives

The objective of the course is

LO1: To acquaint the students with the various concepts of value engineering and value analysis

LO2: To explain the process of project selection, estimation, and creative thinking in the field of value engineering.

LO3: To recognize functional approach for value improvement and instigate the creative thinking for value engineering and discover the importance of functional relationship for value engineering

Unit-1 Introduction (10 h)
Value Engineering (VE) and Value Analysis (VA) - Life Cycle of a product - Methodology of value engineering – Difference from the conventional methods of cost reduction - necessary costs reasons - Quantitative definition of value - Use value and Prestige value.

Unit-2 Functions (14 h)
Estimation of product Quality/performance - Types of functions - Relationship between Use functions and Esteem Functions in product design – Functional cost and Functional Worth – Effect of Value improvement on profitability - Test for poor value – Aims of Systematic Approach. Functional approach to value improvement - various phases and techniques of Job Plan

Unit-3 Project Selection Concepts (10 h)
Factors governing project selection – Types of Projects - Life Cycle Costing (LCC) for managing the Total Value - Concepts in LCC.

Unit-4 Creative Thinking (12 h)
Creative thinking and creative judgment - positive or constructive discontent - Tangible and Intangible costs of implementation - False material - labour and overhead saving – Relationship between savings and probability of success.

Unit-5 Functional Relationships (14 h)

Text Books


Supplementary Readings


**Course Outcomes**
Upon completion of the course, students will be able to
CO1: Understand the basics of Value Engineering (VE) and value analysis, its methodology and methods for appropriate time.
CO2: Develop and demonstrate the “function analysis” for infrastructure projects
CO3: Appreciate various factors for projects selection and develop an appropriate project.
CO4: Induce creative thinking in judgment of various factors project success and effective usage of ICT.
CO5: Create alternative solutions for the future with optimal selection or sorting using creative thinking and functional relationships.
CO6: Critically analyse the factors for project selection, estimation, and creative thinking in the field of value engineering.

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**Semester – III 19BIFE308: Project Procurement And Quality Management In Construction**

**Credits : 3**

**Hours: 60**

**Learning Objectives**
The objective of the course is
LO1: To acquaint the students with the basic concepts of procurement and methods
LO2: To explain the project contracts methods, administration and issues and identify the quality indicators and the process of quality management.
LO3: To provide an insight into the application of ISO and other International standards for the purpose of better procurement and give insights about the safety issues of the construction industry.

**Unit-1 Introduction (12 h)**
Introduction to procurement systems; Common Variants of Main Procurement Systems; Separated Procurement Systems; Integrated Procurement Systems; Management-Oriented Procurement Systems - Management contracting, Construction management; Design and manage; Discretionary Procurement Systems; Project partnering; Strategic partnering.

**Unit-2 Project Contracts (11 h)**

**Unit-3 Quality Control (11 h)**
Introduction to quality – Importance of quality – Quality transition - quality control and inspection, quality assurance – Quality management: Evaluation – Planning - Control and design of structures.

**Unit-4 ISO Standards (12 h)**
Inspection of materials and machinery; Quality assurance in construction; Systems quality management; Quality standards/codes in design and construction; (ISO:9000); Total quality management (TQM) - principles, tools and techniques.

**Unit-5 Safety in Construction Industry (14 h)**
Introduction to safety; Safety and health programmes, safety provisions; construction hazards, accidents and safety guidelines; Accidents prevention techniques - Site management with regard to safety recommendations – Safety awareness and implementation.

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course, students will be able to

CO1: Manage the procurement process of the company.
CO2: Initiate and close the contract for procurement.
CO3: Analyse and implement the quality aspects in construction industry.
CO4: Initiate and execute the process of quality certification
CO5: Demonstrate the safety and create awareness of the safety in an industry.
CO6: Effectively use the ICT for the procurements process and quality assurance.

Outcome Mapping

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Semester – III 19BIFC309: Project Viva Credits : 2

Project Training
Summer project is an on–the–job training that inculcates practical knowledge and improves performance by giving an insight into business realities. As a part of the curriculum, the project is intended to input practical and conceptual knowledge to the students which is to be carried out for 45 days during May–June.

A committee is constituted for the overall Co-ordination of the students. The students undertake projects in various organizations all over the country. Faculty members also render their help in finding project placements. Students will be allotted faculty guides and they are advised to undertake projects based on their individual area of specialization. The topics are selected by consulting with their project guides and company guides.

MBA project End Semester evaluation will be done for 75 marks which includes Dissertation (50 marks) and Viva voce (25 marks) and the minimum requirement for passing the project is 38 marks. The internal assessment evaluation carries 25 marks that constitute two reviews (I review-10 marks and II review-15 marks) and the minimum requirement for passing the internal evaluation is 12 marks. Overall the minimum passing requirement for the project is 50 marks.
A Project Evaluation Committee will be formed comprising the Head of the Department, Project Supervisor, and a senior faculty.

**Project Related Activities**
- Project discussions for students with their guides have to be made once in a week.
- Students can make use of the computer lab facilities for execution of their project work and for preparation of their report.
- Frequent workshops and review meetings will be conducted with trainers and experts of various disciplines.
- A formal interim – project presentation will be held before their juniors. This presentation acts as a good ground of experience on the part of the presenters while a good beginning of insight for the juniors.
- A mock viva–voce will be held before appearing for their main project viva–voce examination to gain an experience.
- Best Project Contest will be conducted every year to provide a platform to exhibit the skills they have acquired during the summer project training.
- Students are encouraged to participate in the National Level Project contest held at various institutions.
- Students are also encouraged to work towards publishing a paper along with the help of their faculty guide to add a real value to their project work.
Learning Objectives
The objective of the course is

LO1: To explain the IT infrastructure and development over the years and the process of designing IT organisations.

LO2: To provide the current computing environment and multiple technologies and enable the students to identify the methods of storage, recovery and managing the data for an organisation.

LO3: To introduce the importance of security, firewall and role of cyber ethics and intellectual property.

Unit-1 Introduction (12 h)

Unit-2 Designing (12 h)
Factors to Consider in Designing IT Organizations And IT Infrastructure - Determining Customer's Requirements - Identifying System Components to Manage - Exist Processes - Data - Applications - Tools and Their Integration - Patterns for IT Systems Management - Introduction To The Design Process For Information Systems – Models - Information Technology Infrastructure Library (ITIL).

Unit-3 System Management and Computing Environment (13 h)

Unit-4 Storage Management (10 h)
Introduction - Types - Benefits - Backups - Archive - Recovery - Disaster Recovery - Space Management - Hierarchical Storage Management - Network Attached Storage - Storage Area Network - Bare Machine Recovery - Data Retention - Database Protection

Unit-5 Security (13 h)

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course, students will be able to
CO1: Estimate and develop the ICT requirements for infrastructure management.
CO2: Describe the business value and processes of ICT services in an organisation and apply
that knowledge and skill with initiative to a workplace scenario.

CO3: Evaluate how effective IT Infrastructure Management requires strategic planning with alignment from both the IT and business perspectives in an organization.

CO4: Demonstrate the technical and communications skills that contribute to the operation of ICT services in an organisation.

CO5: Improve the effective methods for storage, recovery and managing the data for an organisation.

CO6: Understand and develop security, firewall and intellectual property.

Outcome Mapping

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Semester – IV 19BIFC402 : Business Policy And Strategic Management Credits : 3 Hours: 60

Learning Objectives
The objective of the course is
LO1: To explain about the Business Environment.
LO2: To introduce the basic concepts and importance of Business Policies and Strategies
LO3: To Acquaint the formulation and implementation of Business Policies and Strategies.

Unit–1 Basic concepts of Business Policy (14 h)

Unit–2 Business Analysis (10 h)

Unit–3 Basic concept of strategy (14 h)

Unit–4 Business Development Strategies (12 h)

Unit–5 Business Vs Social (10 h)

Text Books

Supplementary Readings
Course Outcomes
Upon completion of the course students will be able to

CO1: Understand and get knowledge on managerial functions such as the internal and external environment of the organization.

CO2: Improve the cognitive skills that related to Mission, Vision, Goals, Objectives, Policies and Strategies of any organisation.

CO3: Evaluate and Develop strategic management tools and recommend strategic responses to business problems.

CO4: Develop strategic management plan for sustainable development of the organization

CO5: Analyse and Implement their responsibility to the society and business organisation.

CO6: Understand the social responsibilities, ethical and social considerations of business organisation.

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Semester – IV 19BIFC403 - Supply Chain Management For Infrastructure

Credits : 3
Hours: 60

Learning Objectives
The objective of the course is

LO1: To explain the supply chain decisions and supply chain drivers and enlighten the factors of distribution, designing network and their trade-offs

LO2: To teach about the outsourcing principles and pricing methodologies, importance of coordination, demand management and customer service.

LO3: To create awareness about the role of information technology in supply chain.

Unit-1 Introduction to Supply Chain Management. (10 h)

Unit-2 Designing the Supply Chain Network. (12 h)
Designing the distribution network, role of distribution, factors influencing distribution, design options, distribution networks in practice, network design in the supply chain, factors affecting the network design decisions. Designing and Planning Transportation Networks, role of transportation, modes and their performance, transportation Infrastructure and policies, design options and their trade-offs, tailored transportation.

Unit-3 Sourcing and Pricing of infrastructure. (12 h)
Sourcing – In-house or Outsource – 3rd and 4th PLs – supplier scoring and assessment, selection design collaboration – procurement process – sourcing planning and analysis.
Pricing and revenue management for multiple customers, perishable products, seasonal demand, bulk and spot contracts.

Unit-4 Information Technology in the supply chain. (11 h)
collaborative planning, forecasting and replenishment, Role of computer/ IT in supply chain management.

**Unit-5 Coordination in a Supply Chain: (15 h)**

Lack of supply chain coordination and the Bullwhip effect – obstacle to coordination – managerial levers – building partnerships and trust – continuous replenishment and vendor-managed inventories (VMI).


**Text Books**


**Supplementary Readings**


**Course Outcomes**

Upon completion of the course, students will be able to

CO1: Evaluate complex qualitative and quantitative data to support strategic and operational decisions of supply chain.

CO2: Develop comprehensive strategic and tactical plans for supply chain management.

CO3: Generate creative, critical and reflective thinking to address organizational opportunities and challenges in supply chain.

CO4: Improve appropriate technologies in developing solutions to business opportunities and challenges in supply chain.

CO5: Analyse, forecast the demand and serve the customer accordingly.

CO6: Identify and develop ICT for effective implementation of supply chain.

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**Semester – IV 19BIFC404: Indian Ethos And Values**

**Learning Objectives**

The Objectives of the Course are:

LO1: To acquaint the students on the applications of Indian Ethos and values; managerial decision-making process.

LO2: To train students in Yoga practices such as Asnas (yogic exercise), meditation (exercise for mind), Pranayama (exercise for breath).

LO3: To Introspect (practices for positive thinking) and to manage stress in their managerial career.

**Unit–1 Ethics and Religious Values (14 h)**

**Unit–2 Indian Ethos for Business Excellence (12 h)**

**Unit–3 Stress Management (10 h)**

**Unit–4 Theories in Yoga (10 h)**

**Unit–5 Yoga for Managerial Excellence (14 h)**

**Text Books**

**Supplementary Readings**
1. Indian Ethos and Values Essay Example For Students | Artscolumbia
   https://artscolumbia.org › Essays
2. Indian Ethos & Values in Modern Management;
   https://himadri.cmsdu.org/documents/indianethos.pdf
3. Indian Ethos and Management - ISIB
   Isib.co.uk/lms/wp-content/uploads/2015/02/Indian-Ethos-and-Management.pdf
4. Indian Ethos And Values In Management R Nandagopal and ... - bvimsr
5. Indian Ethos in Management - RCCM Indore

**Course Outcome**
The completion of this course will result in
CO1: Enhancing the understanding of Ethics and Religious Values
CO2: Increasing capacities on Indian Ethos for Business Excellence
CO3: Managing stress in real world situations
CO4: Practicing yoga and meditation for better mental health
CO5: Exercising yoga and meditation for better physical health and social skills
CO6: Implementing the outcome of Yoga for Managerial Excellence

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Learning Objectives
The objective of the course is
LO1: To acquaint the concept of globalization, internationalization and participants of international business.
LO2: To explain the concepts, functions and practices of international business and the international business environment and the factors of design.
LO3: To enable students to get global perspective on issues related to infrastructure management and awareness about International Contributions to World class manufacturing.

Unit-1 Introduction (12 h)
Evolution of International Business (IB)-Nature of IB- Drivers of globalization- Routes of globalization. Globalization: Boon or Bane?-Goals of IB-Differences between domestic business and IB-stages of internationalization –Advantages and limitations and challenges of entering IB- Players in IB.

Unit-2 Business Environment (14 h)

Unit-3 Organizational Design for IB (08 h)
Factors affecting global design – product design –area design –functional design – division structure.

Unit-4 International operations management (12 h)

Unit-5 International Contributions to World class manufacturing (14 h)

Text Books

Supplementary Readings

Course Outcomes
Upon completion of the course, students will be able to
| CO1 | Evaluate the international environment and related issues of infrastructure management. |
| CO2 | Critically analyse the impact of LPG in infrastructure management. |
| CO3 | Analyse the international quality standards of infrastructure projects and implement them. |
| CO4 | Design infrastructure organization for international business. |
| CO5 | Create strategies for competitive advantage and effective use of ICT. |
| CO6 | Understand various world class manufacturing techniques and use it effectively in their |
Learning Objectives
The objective of the course is
LO1: To explain the environmental impact, the methods of assessment and environmental risk.
LO2: To expose the risk assessment and communication aspects involved in real time business.
LO3: To enable mathematical modeling for impact prediction, the process and impact of social impact assessment.

Unit-1 Introduction (10 h)
Basic fundamentals: Historical Development of Environmental Impact Assessment-EIA in Project Cycle-Legal and Regulatory Aspects in India-Types and Limitations of EIA-Cross sectoral Issues and terms of references in EIA.

Unit-2 Components of EIA (13 h)

Unit-3 Prediction and assessment (11 h)
Prediction tools for EIA - Mathematical modeling for impact prediction-Assessment of Impacts on Air and Water-Assessment of Impacts on Soil and Noise -Assessment of Impacts on Biological Community-Cumulative Impact Assessment-Documentation of EIA Findings & Report Preparation.

Unit-4 Socio-economic impact assessment (14 h)

Environmental management plan: Environmental Management Plan – Preparation and implementation and Rehabilitation plans-Policy and guidelines for planning and monitoring programmes - Post Project Audit-Ethical and Quality aspects of Environmental Impact Assessment—case studies.

Unit-5 Environmental risk assessment (12 h)

Text Books

Supplementary Readings

**Course Outcomes**

Upon completion of the course, students will be able to:

| CO1 | Understand the basics of environmental impact assessment and its Legal and Regulatory Aspects in India |
| CO2 | Critically demonstrate the purpose, process and limitations of EIA in the decision-making process. |
| CO3 | Understand and evaluate the components of EIA and usage of ICT in analyzing the assessment of environmental risk. |
| CO4 | Adopt, plan and apply commonly used environmental impact assessment methodologies and methods and develop their own methods. |
| CO5 | Develop, prepare, implement rehabilitation plans aligned with policies and guidelines to safeguard environment. |
| CO6 | Understand the environmental risk assessment framework and assess socio-economic impact and environmental risk impact. |

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**Semester – IV** 19BIFE408: Disaster Mitigation And Management  
Credits : 4  
Hours: 60

**Learning Objectives**

The objective of the course is

LO1: To explain the various concepts in disaster and realize the possibilities of earthquake, causes and energy release.

LO2: To analyze the protection measure for disaster and from natural calamities.

LO3: To manipulate the Vulnerability assessment and the zoning regulations and construction quality.

**Unit-1 Introduction (12 h)**


**Unit-2 Earthquake Disaster (12 h)**


**Unit-3 Protection Measures (08 h)**

Landslides – Floods – Tropical cyclones - Tsunami - Mitigation strategies.

**Unit-4 Hazard Assessment (14 h)**


**Unit-5 Land use Zoning Regulations & Quality control 14 h**

**Text Books**
2. Dr. U. Sai jyoti, SIA Expert, Disaster management and mitigation, JNTU-A, SIA Publisher, 2018.

**Supplementary Readings**
5. Sahni, Pardeep et.al. (eds.), Disaster Mitigation Experiences and Reflections, Prentice Hall of India, New Delhi, 2002.

**Course Outcomes**
Upon completion of the course, students will be able to:

| CO1: Understand the difference between hazard, disaster, Disaster Management Policy, Procedure and Institutional Mechanism |
| CO2: Analyse and evaluate the environmental, social, cultural, economic, legal factors of disaster |
| CO3: Evaluate the environmental, social, cultural, economic, legal and organisational aspects influencing vulnerabilities and capacities to face disasters. |
| CO4: Critically evaluate protection measures during disaster, flood, landslide and avoiding damages to building by strengthening existing and restoration. |
| CO5: Generate protection measures during landslide and strengthening existing and restoration. |
| CO6: Develop the framework for the disaster management & disaster mitigation and effective usage of ICT in disaster management. |

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**Semester – IV**

19BIFC409: Comprehensive Viva-Voce (Infrastructural Visits And Subjects)  
Credits : 2
## ASSESSMENT PATTERN
Continuous Internal Evaluation (25 Marks)

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<th>Test</th>
<th>Assignment</th>
<th>Seminar</th>
<th>Non CIA Activities</th>
<th>Industrial Visit</th>
<th>Quiz</th>
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### End Semester Examination (75 Marks)

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