

| For the students who are willing to take up a two-semester duration Industry/Research Internship Leading to Project work /start-up | | | | | | | |
|---|----------------|---|---|---|-----|------------------|---------------------------|
| III Semester (A) | | | | | | | |
| Course Type | Course Code | Course Title | Credits | | | Total Credits | Total Contact Hours |
| | | | L | P | SDA | | |
| PEC/MDC | 25CCS31 | (Online Courses) 12 weeks duration | | | | 3 | |
| | 25CCS32 | (Online Courses) 12 weeks duration | | | | 3 | |
| | 25CCS33 | (Online Courses) 12 weeks duration | | | | 3 | |
| INT | 25CCS34 | Research Internship /Industry-Internship leading to project work/ Startup | Two-semester duration, SEE in the IV semester which leads to project work /start-up | | | 3 | |
| Total | | | | | | 12 | |

| IV Semester (A) | | | | | | | |
|-----------------|-------------|---|---|---|-----|---------------|---------------------|
| Course Type | Course Code | Course Title | Credits | | | Total Credits | Total Contact Hours |
| | | | L | P | SDA | | |
| INT | 25CCS41 | Research Internship /Industry-Internship leading to project work/ Startup | Two-semester duration, SEE in the IV semester which leads to project work /start-up | | | 12 | |
| PROJ | 25CCS42 | Project Work | | | | 16 | |
| Total | | | | | | 28 | |

INT: Industry/ Research Internship leading to the project work /startup

PRJ: Project work outcome of Internship (Project Phase-II is Viva voce SEE)

Taking up a two-semester Industry/Research Internship that leads to project work or a start-up can be a highly rewarding experience for students. It allows them to apply theoretical knowledge in practical settings, gain valuable industry or research experience, and potentially develop innovative solutions or business ideas.

Here are some key steps and considerations for students pursuing such an internship:

Industry Internship: The main objective of the industry internship is to ensure that the intern is exposed to a real-world environment and gain practical experience. Often, it may be a practical exposure to the theory that has been learned during the academic period. The industry internship helps students understand of analytical concepts and tools, hone their skills in real-life situations, and build confidence in applying the skills learned.

Research Internship: A research internship is an opportunity for students or early career professionals to gain hands-on experience in conducting research under the guidance of a mentor or within a research team. These internships can take place in academic institutions, research organizations, government agencies, or private companies



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Research /Industry Internship: In the third-semester Students have to be in touch with a guide/mentor/coordinator and regularly submit the report referred to the progress internship. Based on the progress report the Guide/Mentor/coordinator has to enter the CIE marks at the end of the 3rd semester. At the beginning of the 4th semester, students have to define the project topic out of the learning due to the Internship, upon completion of the project work he/she has to attend the SEE at the parent Institute.

Internship Leading to Start-up: An internship that leads to a startup is an exciting pathway, blending real-world experience with entrepreneurial ambition. Here's a comprehensive guide to transitioning an internship experience into launching your startup: 1) Maximize your internship experience, 2) Identifying Viable Business Ideas, 3) Research and Validation 4) Building a Business Plan 5) Networking and Mentorship 6) Securing Funding 7) Establishing Startup 8) Launching and Marketing. By following these steps, you can effectively transition from an internship to launching a successful startup. This journey requires dedication, resilience, and a willingness to learn and adapt.

24Mxx301 to 303: MOOC courses of 12 weeks duration are the courses suggested by the Board of Studies. The online courses selected should not be the same as those studied in the first and second semesters of the program. The student will not be eligible to get their degree if they unintentionally select online courses that match previously finished courses. These courses are not considered for the vertical progression; however, qualifying for these courses and earning the credits is a must for the award of the degree. It is permitted to complete these online MOOC courses either in 1st, 2nd, 3rd or 4th semester.



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| For the students who are willing to take an Industry Internship for one-semester duration and independent project work next semester | | | | | | | |
|--|-------------|------------------------------------|-----------------------|---|-----|---------------|---------------------|
| III Semester (B) | | | | | | | |
| Course Type | Course Code | Course Title | Credits | | | Total Credits | Total Contact Hours |
| | | | L | P | SDA | | |
| PEC/MDC | 25CCS31 | (Online Courses) 12 weeks duration | | | | 3 | |
| | 25CCS32 | (Online Courses) 12 weeks duration | | | | 3 | |
| | 25CCS33 | (Online Courses) 12 weeks duration | | | | 3 | |
| INT | 25CCS34 | Industry-Internship | One-semester duration | | | 11 | |
| Total | | | | | | 20 | |

| IV Semester (B) | | | | | | |
|-----------------|-------------|--------------|---------|---|-----|---------------|
| Course Type | Course Code | Course Title | Credits | | | Total Credits |
| | | | L | P | SDA | |
| PROJ | 25CCS41 | Project Work | | | | 20 |
| Total | | | | | | 20 |

Industry Internship: The main objective of the industry internship is to ensure that the intern is exposed to a real-world environment and gains practical experience. Often, it may be a practical exposure to the theory that has been learned during the academic period. The industry internship helps students understand of analytical concepts and tools, hone their skills in real-life situations, and build confidence in applying the skills learned. The students who take up a one-semester Internship in the Industry have to appear SEE at the institute at the end of the semester as per the examination calendar.

Project Work: Students in consultation with the guide shall carry out literature survey/ visit industries to finalize the topic of the Project. Subsequently, the students shall collect the material required for the selected project, prepare a synopsis, and narrate the methodology to carry out the project work. Each student, under the guidance of a Faculty, is required to

- Present the seminar on the selected project orally and/or through Power Point slides.
- Answer the queries and be involved in debate/discussion.
- Submit two copies of the typed report with a list of references.
- The participants shall take part in discussions to foster a friendly and stimulating environment in which the students are motivated to reach high standards and become self-confident

CIE marks for the project report (20 marks), seminar (20 marks) and question and answer (10 marks) shall be awarded (based on the quality of report and presentation skill, participation in the question and answer session by the student) by the committee constituted for the purpose by the Principal. The committee shall consist of internal guide and a faculty from the department with the senior most acting as the Chairperson.

Semester End Examination SEE marks for the project report (30 marks), seminar (10 marks) and question and answer session (10 marks) shall be awarded (based on the quality of the report and presentation skill, participation in the question and answer session) by the examiners appointed by the University.

Mxx301 to 303:MOOC courses of 12 weeks duration are the courses suggested by the Board of Studies



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The online courses selected should not be the same as those studied in the first and second semesters of the program. The student will not be eligible to get their degree if they unintentionally select online courses that match previously finished courses. These courses are not considered for the vertical progression; however, qualifying for these courses and earning the credits is a must for the award of the degree. It is permitted to complete these online MOOC courses either in 3rd semester or in 4th semester.



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| For the students who are willing to take a research-leading paper publication in Q1/Q2/Q3 Journals and to a PhD Registration | | | | | | | |
|--|-------------|------------------------------------|-----------------------|---|-----|---------------|---------------------|
| III Semester (C) | | | | | | | |
| Course Type | Course Code | Course Title | Credits | | | Total Credits | Total Contact Hours |
| | | | L | P | SDA | | |
| PCC/IPCC /PEC/MD C | 25CCS31 | (Online Courses) 12 weeks duration | | | | 3 | |
| | 25CCS32 | (Online Courses) 12 weeks duration | | | | 3 | |
| | 25CCS33 | (Online Courses) 12 weeks duration | | | | 3 | |
| | 25CCS34 | (Online Courses) 12 weeks duration | | | | 3 | |
| INT | 25CCS35 | Project Work Phase-I | One-semester duration | | | 6 | |
| Total | | | | | | 18 | |

| IV Semester (C) | | | | | | |
|-----------------|-------------|-----------------------|---------|---|-----|---------------|
| Course Type | Course Code | Course Title | Credits | | | Total Credits |
| | | | L | P | SDA | |
| PROJ | 25CCS41 | Project Work Phase-II | | | | 22 |
| Total | | | | | | 22 |

Project Work Phase-1: Typically the initial phase in any project, is crucial as it lays the foundation for the entire project. This phase involves defining the project's scope, objectives, and initial planning. Here's a structured approach to effectively carry out Project Phase-I:

- **Project Charter:** Outlines the project's purpose, objectives, and stakeholders.
- **Scope Statement:** Defines the project boundaries and deliverables.
- **Requirements Document:** Captures all project requirements.
- **Project Plan:** Details the approach, timeline, and resource allocation.
- **Risk Management Plan:** Identifies and plans for potential risks.
- **Feasibility Study Report:** Assesses technical, economic, and operational feasibility.

Students in consultation with the guide shall carry out literature survey/visit industries to finalize the topic of the Project. Subsequently, the students shall collect the material required for the selected project, prepare a synopsis, and narrate the methodology to carry out the project work. Each student, under the guidance of a faculty, is required to

- Present the seminar on the selected project orally and/or through power point slides.
- Answer the queries and be involved in debate/discussion.
- Submit two copies of the typed report with a list of references.
- The participants shall take part in discussions to foster a friendly and stimulating environment in which the students are motivated to reach the highest and become self-confident.

Continuous Internal Evaluation (100 Marks)

CIE marks for the project report (60 marks), seminar (20 marks) and question and answer (20marks) shall be awarded (based on the quality of report and presentation skill, participation in the question and answer session by the student) by the committee constituted for the purpose by the Principal. The committee shall consist of an internal guide and a faculty from the department with the senior most acting as the Chairperson.

Project Work Phase-II: Each student shall be involved in carrying out the project work jointly in constant consultation with internal guide and external guide and prepare the project report as per the norms of the university to avoid plagiarism. Phase II of a project typically involves the detailed



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execution of the planned activities, continuous monitoring and control of the project's progress, and making necessary adjustments to ensure the project stays on track. Keep detailed records of all project activities, decisions, and changes. Ensure all project documentation is organized and accessible. Conduct a final project review to evaluate overall performance, achievements, and lessons learned. Document best practices and areas for improvement for future projects.

Paper Publication Process: Publishing a research paper based on your project in a Q1/Q2/Q3 journal involves several key steps, from writing the manuscript to navigating the peer review process. Here's a comprehensive guide:

Writing the Manuscript: Choose a clear and concise title that accurately reflects the content. Write an abstract summarizing the research question, methods, results, and conclusions.

Literature Review: Review relevant existing research to establish the foundation of your study. Identify gaps that your research aims to fill.

Methodology: Describe the research design, methods, and procedures in detail. Include information on data collection, analysis, and any tools or software used.

Results: Present the findings of your research clearly and logically. Use tables, figures, and charts to illustrate key results.

Discussion: Interpret the results and explain their implications. Compare your findings with existing research and discuss any discrepancies or new insights.

Conclusion: Summarize the main findings and their significance. Suggest potential future research directions.

References: Cite all sources used in your research following the journal's citation style.

Journal Selection: Choose a journal that aligns with the scope and focus of your research. Consider the journal's impact factor (Q1, Q2, Q3) and audience.

Review Journal Guidelines: Carefully read the journal's submission guidelines and ensure your manuscript adheres to them.

Prepare Your Manuscript: Format your manuscript according to the journal's guidelines. Include all required sections and supplementary materials.

Cover Letter: Write a cover letter to the journal editor highlighting the significance of your research and why it fits the journal.

Submit the Manuscript: Use the journal's online submission system to submit your manuscript. Ensure all required information and documents are included.

Semester End Examination SEE marks for the project report (60 marks), seminar (20marks) and question and answer session (20 marks) shall be awarded (based on the quality of report and presentation skill, participation in the question and answer session) by the examiners appointed by the University