

Programme of Study and the corresponding qualification levels

First year UG programme – Level 4.5

Second Year UG Programme – Level 5

Third Year UG Programme – Level 5.5

Fourth Year UG Programme – Level 6

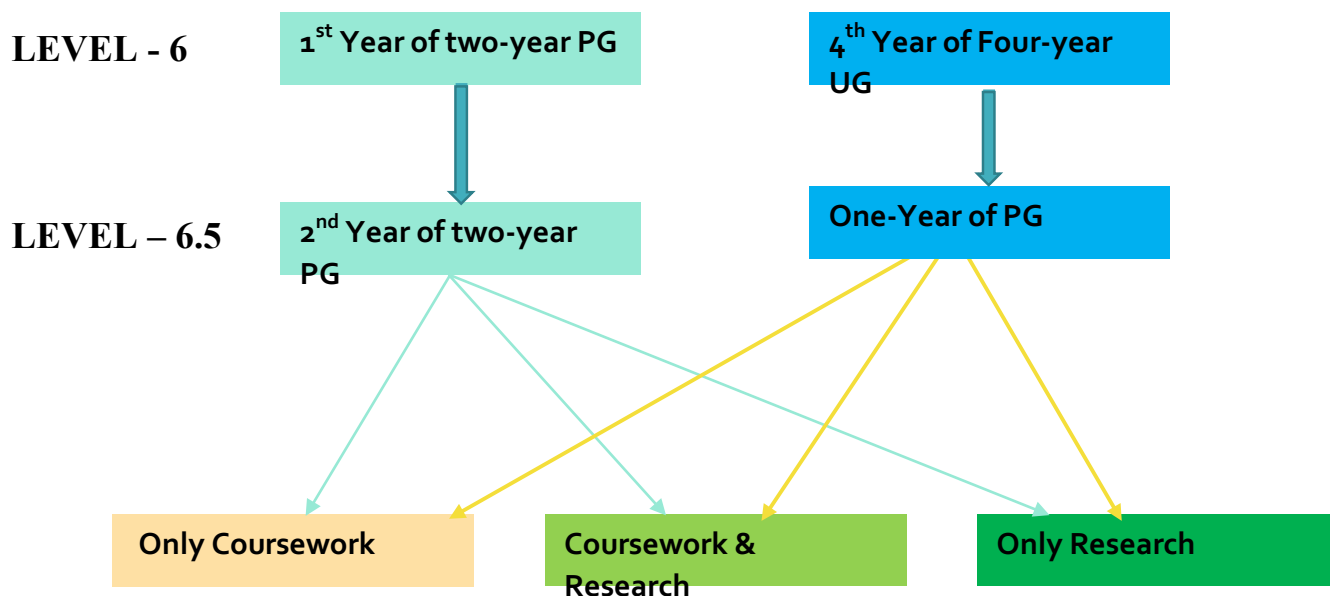
First year of Two Year PG Programme – Level 6

Second Year of Two Year PG Programme – Level 6.5

One year of PG Programme after 4 Year UG – Level 6.5

First year of Two Year PG Programme after 4 Year UG – Level 6.5

Second year of Two Year PG Programme after 4 Year UG – Level 7



1st Year of PG curricular structure for 2 year PG Programmes (3+2)

Semester	DSC	DSE	2 Credit course	Dissertation/ Academic Project/ Entrepreneurship	Total Credits
Semester- I	DSC-1 DSC -2 DSC -3 (12 credits)	DSE - 1 DSE – 2 OR DSE-1 & GE-1 (8 credits)	Skill-based course/ workshop/ Specialised laboratory/ Hands on Learning (2 credits)	Nil	22
Semester- II	DSC-4 DSC -5 DSC -6 (12 credits)	DSE- 3 DSE – 4 OR DSE-2 & GE-2 (8 credits)	Skill-based course/ workshop/ Specialised laboratory/ Hands on Learning (2 credits)	Nil	22

Curricular Structures of 2nd Year of PG for Two-year PG Programme (3+2)

Or

One year PG Programme after completion of Four-Year UG Programme (4+1)**Structure 1 (Level 6.5) : PG Curricular Structure with only course work**

Semester	DSC	DSE	2 Credit course	Dissertation/ Academic Project/ Entrepreneurship	Total Credits
Semester- III	DSC- 7 DSC -8 (8 credits)	DSE- 5 DSE – 6 DSE - 7 OR DSE-3, DSE-4 & GE-3 (12 credits)	Skill-based course/ workshop/ Specialised laboratory/ Internship/ Apprenticeship/ Hands on Learning (2 credits)	Nil	22
Semester- IV	DSC - 9 DSC -10 (8 credits)	DSE- 7 DSE – 8 DSE - 9 OR DSE-5, DSE - 6 & GE-4 (12 credits)	Skill-based course/ workshop/ Specialised laboratory/ Internship/ Apprenticeship/ Hands on Learning (2 credits)	Nil	22

Structure 2 (Level 6.5): PG Curricular Structure with Course work + Research

Semester	DSC	DSE	2 Credit course	Dissertation/ Academic Project/ Entrepreneurship	Total Credits
Semester- III	DSC- 7 DSC -8 (8 credits)	DSE- 5 DSE – 6 OR DSE-3, GE-3* (8 credits)	Nil	See detailed outcomes below (6 credits)	22
Semester- IV	DSC-9 DSC -10 (8 credits)	DSE- 7 DSE – 8 OR DSE-4, GE-4* (8 credits)	Nil	See detailed outcomes below (6 credits)	22

* For those opting for 'Entrepreneurship' track, one GE related to Entrepreneurship should be studied in each of the III and IV Semesters. For those who opt for writing Dissertation or Academic Projects, they may opt any GE of their choice or study only the DSEs.



NOTE: The Dissertation/Academic Project/Entrepreneurship chosen should be an original work and **not a repetition of work done in the 4th Year of the UG programme**. It may be an extension though of the work done in the 4th Year of UG programme.

A. Outcomes expected of Dissertation writing track in the 2nd Year of PG Programmes

Semester III

The following **four** outcomes must be achieved by the end of III Semester:

- i. Research Problem identification
- ii. Review of literature
- iii. Research design formulation
- iv. Commencement of experimentation, fieldwork, or similar tasks

Semester IV

The following **three** outcomes must be achieved by the end of IV Semester:

- i. Completion of experimentation/ fieldwork

ii. Submission of dissertation

iii. Research output in the form of **any one** of the following –

- Prototype or product development/ patent
- Any other scholastic work as recommended by the BRS and approved by the Research Council
- Publication in a reputed Journals such as Scopus indexed journals or other similar quality journals
- Book or Book Chapter in a publication by a reputed publisher

B. Expected outcomes of Academic Projects in the 2nd Year of PG Programmes

(Academic Project should be an application based research (not an exploratory or descriptive research) or a real-life problem solving research or a book translation or projects leading to creation of a new product such as those of Bachelor of Fine Arts)

Semester III

The following **four** outcomes must be achieved by the end of III Semester:

- i. Problem identification
- ii. Review of literature
- iii. Design formulation
- iv. Commencement of experimentation, fieldwork, or similar tasks

Semester IV

The following three outcomes must be achieved by the end of IV Semester:

- i. Completion of the experimentation, fieldwork or similar task.
- ii. Submission of project report
- iii. Project output in the form of **any one** of the following –
 - Prototype or product development or patent
 - Any other scholastic work as recommended by the DRC & BRS and approved by the Research Council
 - Publication in a reputed Journals such as Scopus indexed journals or other similar quality journals
 - Draft policy formulation and submission to the concerned Ministry
 - Book or Book Chapter in a publication by a reputed publisher
 - Book translation (for Language departments)

C. Learning outcomes of Entrepreneurship track in the 2nd Year of PG Programmes are as follows:

Milestones for VII Semester:				
Week (Tentative)	Topic	Deliverable	Activities	Mentor Checkpoint
1-2	Idea Generation and Validation	Submission of at least two potential startup ideas.	Conduct market research to validate the viability of each idea.	Review and feedback on the initial ideas.
3-4	Finalizing the Business Idea	Selection of the final business idea based on research and mentor feedback.	Develop a preliminary business model canvas.	Approval of the final business idea.
5-6	Market Research and Customer Discovery	Detailed market research report and customer discovery interviews.	Identify target market, customer segments, and key competitors.	Presentation of market research findings.
7-14	Prototype Development/Minimum Viable Product (MVP) and Business Model Refinement	Development of a prototype or MVP. Refined business model canvas including value proposition, customer segments, and revenue streams.	Design and build a basic version of the product or service. Test and iterate the business model based on prototype/MVP feedback.	Prototype/MVP review and feedback.

11-12	Financial and Legal Planning	Initial financial plan including cost structure, pricing strategy, and funding requirements.	Prepare a basic financial plan, including a budget and revenue forecast; review IPR potential	Financial plan and IPR review.
13-14	Pitch Preparation	Development of a pitch deck summarizing the business idea, market opportunity, prototype, and financials.	Create and refine a presentation for potential investors or stakeholders.	Practice pitch session with feedback.
15-16	Final Presentation and Review	Final pitch presentation to a panel of mentors, faculty, and possibly industry experts.	Deliver a polished pitch, receive feedback, and make final adjustments.	Final assessment and grading based on the pitch and overall progress throughout the semester.

Milestones for VIII Semester:				
Week (Tentative)	Topic	Deliverable	Activities	Mentor Checkpoint
1-2	Review and Refinement of Prototype/ MVP	Review of the progress made in the 7th semester, including feedback from the final pitch.	Refine the business model, prototype, and financial plan based on mentor feedback and learnings from the 7th semester.	Review and approval of the refined business plan and prototype/MVP

3-12	Legal and Regulatory Compliance	Documentation of all legal requirements, including business registration, intellectual property rights, and compliance with industry-specific regulations.	Complete the legal registration of the business and ensure all necessary licenses and permits are obtained	Legal compliance review and feedback.
5-8	Operational Planning	Detailed operational plan, including supply chain management, production schedules, and quality assurance processes.	Finalize partnerships with suppliers, set up production or service delivery processes, and establish quality control measures.	Review and approval of the operational plan.
5-10	Marketing and Sales Strategy	Comprehensive marketing and sales plan, including market entry strategy, branding, and pricing.	Develop and test marketing campaigns, refine branding and messaging, and establish sales channels.	Marketing and sales strategy review and feedback.
9-14	Financial Planning and Fundraising	Finalized financial plan, including cash flow projections, break-even analysis, and funding requirements.	Prepare for fundraising by identifying potential investors, preparing financial documents, and practicing pitches.	Financial plan review and practice pitch sessions.
9-14	Risk Management and	Risk management plan detailing	Identify key risks (e.g., market, operational,	Risk management

	Contingency Planning	potential risks and corresponding mitigation strategies.	financial) and develop contingency plans.	plan review and feedback.
13-14	Final Preparations for Launch	Final preparations for market launch, including any final adjustments to the product/service , operational processes, and marketing efforts.	Conduct a soft launch or beta testing phase to gather final feedback, finalize logistics, and ensure readiness for full market entry.	Review and approval of launch readiness.
15-16	Final Presentation and Review	Comprehensive final presentation summarizing the entire project, including business model, operations, financials, marketing, and launch plan.	Deliver the final pitch to a panel of mentors, faculty, and industry experts, followed by the official market launch.	Final evaluation and feedback, with an emphasis on the feasibility of the launch and overall project success.

Please note that few outcomes of Entrepreneurship may be added/revised by the concerned Committee to suit the Master’s level Programme.

Structure 3 (Level 6.5): Research

Semester	DSC	DSE (related to identified research field)	Research Methods/ Tools/ Writing (2 courses)	One intensive problem- based research	Total Credits
Semester - III	1 DSC (course related to the area identified for research) (4 Credits)	1 DSE (course related or allied to the area identified for research (4 Credits)	(a) Advanced Research Methodology of the core discipline + (b) Tools for Research (2x2 = 4 credits)	Outcomes are listed below the table (10 credits)	22
Semester IV	-	1 DSE or a DSE of an allied subject related to the area identified for research (4 Credits)	Techniques of research writing (2 credits)	(16 credits)	22

Learning outcomes of semester III of the PG Course Structure 3 focussed on "Research"

The following **four** outcomes must be achieved by the end of III Semester

- 1) Research Problem identification
- 2) Review of literature
- 3) Research design formulation
- 4) **Phase I** of research (for e.g. Initial phase of research experimentation, completion of pilot project etc.)

Learning outcomes of Semester IV of the PG Course Structure 3 focussed on "Research"

The following **three** outcomes must be achieved by the end of IV Semester

- 1) **Phase II** of research - Final phase of experimentation/ fieldwork
- 2) Dissertation/ project report submission
- 3) Attain **at least one** of the following outcomes:
 - a. Developed a prototype or product which meets the **Technology Readiness Level 3/4** (TRL-3 or TRL-4) as defined by CSIR
 - b. Publication in Scopus indexed journals #
 - c. Patent
 - d. Any other scholastic work as recommended by the DRC & BRS and approved by the Research Council
 - e. Publication of a book by a reputed publisher (National/International) as recommended by the DRC and BRS and approved by the Research Council.

Publication must be in Scopus indexed journals and the authors have to be the student concerned and his/her supervisor(s). Addition of any author [other than the student and supervisor(s)] in the publication has to be with the permission of the Chairperson, Research Council. This permission must be mandatorily taken prior to commencement of Phase-II of the research.