Ph.D. Programme

Student Handbook

Version 3.0
(updated on 10.06.2026)

(Applicable for the batches admitted from the AY: 2025-26)

ADITYA UNIVERSITY

Aditya Nagar, ADB Road, Surampalem - 533 437

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1. Preamble

Aditya University is a State Private University established under the Andhra Pradesh Private Universities Act, 2016. It has evolved from the renowned Aditya Engineering College in Surampalem, Kakinada District, Andhra Pradesh. Committed to delivering quality higher education that meets global standards, Aditya University is located in Surampalem, Andhra Pradesh. It was founded in the academic year 2001-02 under the guidance of Aditya Academy, Kakinada. The university is recognized by the University Grants Commission (UGC) under Sections 2(f) and 12(B) of the UGC Act, 1956.

Our doctoral programs are designed to develop advanced research skills, promote critical thinking, and equip scholars to become leaders in academia, industry, and beyond. The Ph.D. programs at Aditya University are at the cutting edge of engineering research, inspiring scholars to engage in pioneering research that expands the horizons of engineering knowledge. With access to world-class facilities and guidance from accomplished faculty, our doctoral candidates are well-prepared to make impactful contributions to their respective fields.

These Regulations, known as the "Regulations for the Degree of Doctor of Philosophy (Ph.D.) 2025" of Aditya University, Surampalem, Kakinada District, Andhra Pradesh State, India outline the entrance requirements and procedures leading to the Ph.D. degree.

2. Programs offered:

The University offers the following Ph.D. programs in both Full-time and Part-time modes:

Name of the School	Ph.D. Program offered
School of Engineering	Ph.D. in Civil Engineering
	Ph.D. in Electrical & Electronics Engineering
	Ph.D. in Mechanical Engineering
	Ph.D. in Electronics & Communication Engineering
	Ph.D. in Computer Science & Engineering
	Ph.D. in Petroleum Engineering
	Ph.D. in Mining Engineering
	Ph.D. in Agricultural Engineering
	Ph.D. in Mathematics
	Ph.D. in Physics
	Ph.D. in Chemistry
	Ph.D. in English
School of Business	Ph.D. in Management
School of Pharmacy	Ph.D. in Pharmaceutical Sciences

3. Eligibility Criteria

3.1 Eligibility Criteria for admission into Ph.D. in Engineering & Pharmaceutical Sciences:

Candidates who have completed a 2-year/4-semester master's degree program in Engineering after a 4-year / 8-semester bachelor's degree program or a qualification declared equivalent to the master's degree in Engineering by the corresponding statutory regulatory body, with at least 60% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution, shall be eligible for admission to the Ph.D. program (Full-time).

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC / ST / OBC (non-creamy layer) / differently abled, Economically Weaker Section (EWS) and other categories of candidates.

3.2 Eligibility Criteria for direct admission into Full-Time Ph.D. in Engineering after bachelor's degree

Provided that a candidate seeking admission for a full-time Ph.D. after a 4-year/8-semester bachelor's degree program should have a minimum of 75% marks or its equivalent grade. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS). Candidates admitted to the Ph.D. program with a bachelor's degree are required to complete 24 credits from courses offered in the relevant field of specialization at the postgraduate level, in addition to the 6 credits required through the mandatory coursework (Research Methodology, Research & Publication Ethics, and Research Seminar-I & II) of the Ph.D. program. Scholars are required to complete 18 credits during the first year of joining. Only after the successful completion of the coursework will they be eligible for the stipend.

3.3 Eligibility Criteria for admission into Ph.D. in Engineering after a Master's in Computer Application

Candidates seeking admission to the Ph.D. program (full-time or part-time) after completing a 2-year (4-semester) Master's degree in computer applications (MCA) must have secured a minimum of 60% marks or an equivalent grade. A relaxation of 5% marks or

equivalent grade may be granted to candidates belonging to SC/ST/OBC (non-creamy layer)/Differently Abled categories and those from the Economically Weaker Section (EWS). Candidates admitted to the Ph.D. program with an MCA degree are required to complete 24 credits from courses offered in the relevant field of specialization at the postgraduate level, in addition to the 6 credits mandated under the Ph.D. coursework, which includes Research Methodology, Research and Publication Ethics, and Research Seminar I & II.

3.4 Eligibility Criteria for admission into Ph.D. in Sciences (Mathematics, Physics, Chemistry, and English):

Candidates who have completed a 2-year / 4-semester master's degree program after a 3-year bachelor's degree program or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions, shall be eligible for admission to the Ph.D. program (Full-time). A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC / ST / OBC (non-creamy layer) / Differently Abled, Economically Weaker Section (EWS) and other categories of candidates.

3.5 Eligibility Criteria for admission into Ph.D. in Management

Candidates seeking admission to the Ph.D. program (full-time or part-time) in Management must have completed a 2-year (4-semester) Master's degree such as MBA, M.Com, or any other Master's degree from a recognized University in any discipline, with a minimum of 60% marks or an equivalent grade. A relaxation of 5% marks or equivalent grade may be granted to candidates belonging to SC/ST/OBC (non-creamy layer) / Differently Abled categories and those from the Economically Weaker Section (EWS).

Candidates admitted to the Ph.D. program with a Master's degree from a non-management discipline (except MCom) are required to complete 24 credits from courses offered in the relevant field of Management at the postgraduate level, in addition to the 6 credits mandated under the Ph.D. coursework, which includes Research Methodology, Research and Publication Ethics, and Research Seminar I & II.

Table 1: Eligibility Criteria

S.No.	Name of the School	Name of the Department	Ph.D. Program offered	Eligibility criteria for admission
1.	School of Engineering	Department of Civil Engineering	Ph.D. in Civil Engineering	M. Tech / B. Tech or equivalent Program
		Department of Electrical & Electronics Engineering	Ph.D. in Electrical & Electronics Engineering	
		Department of Mechanical Engineering	Ph.D. in Mechanical Engineering	
		Department of Electronics & Communication Engineering	Ph.D. in Electronics & Communication Engineering	
		Department of Computer Science & Engineering	Ph.D. in Computer Science & Engineering	
		Department of Petroleum Technology	Ph.D. in Petroleum Engineering	
		Department of Mining Engineering	Ph.D. in Mining Engineering	
		Department of Agricultural Engineering	Ph.D. in Agricultural Engineering	
		Department of Mathematics	Ph.D. in Mathematics	PG Program in Mathematics or equivalent
		Department of Physics	Ph.D. in Physics	PG Program in Physics or equivalent
		Department of Chemistry	Ph.D. in Chemistry	PG Program in Chemistry or equivalent
		Department of English	Ph.D. in English	PG Program in English or equivalent.
2	School of Business		Ph.D. in Management	PG Program in any discipline.
3	School of Pharmacy		Ph.D. in Pharmaceutical Sciences	PG Program in Pharmacy or equivalent

a. Criteria for admission into Ph.D. Program (Part-time) for faculty

Candidates satisfying the eligibility conditions noted under sections 3.1 or 3.3 or 3.4 above can be admitted as Part-time candidates through the entrance test, as per the following order of priority. Admission into the Part-time category will be made based on service seniority in the respective categories.

Faculty working in Postgraduate and Professional colleges having completed at least two years of service. This provision is also applicable to Faculty teaching Physics, Chemistry, Mathematics and Humanities in professional colleges.

or

Faculty working in Polytechnic / Government or private Junior or degree Colleges having completed at least four years of service.

b. Criteria for admission into Ph.D. Program (Part-time) for Professionals from Industry/Research institutes

Minimum 2 Years of experience after the master's degree in Engineering with at least 60% marks in aggregate or its equivalent grade in a point scale wherever a grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency that is approved, recognized, or authorized by an authority established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit, or assure quality and standards of the educational institution.

A minimum of 5 years of experience in the industry after a 4-year/8-semester bachelor's degree program with at least 60% or its equivalent grade of 6.0 on a point scale is eligible for admission into the Ph.D. program. Candidates admitted to the Ph.D. program with a bachelor's degree are required to complete 24 credits from courses offered in the relevant field of specialization at the postgraduate level, in addition to the 6 credits required through the mandatory coursework (Research Methodology, Research & Publication Ethics, and Research Seminar-I & II) of the Ph.D. program.

4. Duration of the Program

4.1 Full-time scholars:

4.1.1 Regular Ph.D. (after Master's):

The Ph.D. program will have a minimum duration of three (3) years, including coursework for Ph.D. (Full-time), and a maximum duration of five (5) years from the date of admission. The stipend will be provided for a period of three (3) years only.

A maximum of an additional two (2) years can be given through a process of re-registration as per the Ordinance of the Aditya University; provided, however, that the total period for completion of a Ph.D. program should not exceed seven (7) years from the date of admission into the Ph.D. program. Provided further that female Ph.D. scholars and persons with disabilities (having more than 40% disability) may be allowed an additional relaxation of two (2) years; however, the total period for completion of a Ph.D. program in such cases should not exceed nine (9) years from the date of admission into the Ph.D. program.

4.1.2 Direct Ph.D. (After B.E./B.Tech):

The Ph.D. program will have a minimum duration of four (4) years and a maximum duration of six (6) years from the date of admission. However, the stipend will be provided only for a period of three (3) years, starting from the second year of admission.

A maximum of an additional two (2) years can be given through a process of re-registration as per the Ordinance of the Aditya University; provided, however, that the total period for completion of a Ph.D. program should not exceed eight (8) years from the date of admission into the Ph.D. program. Provided further that female Ph.D. scholars and persons with disabilities (having more than 40% disability) may be allowed an additional relaxation of two (2) years; however, the total period for completion of a Ph.D. program in such cases should not exceed ten (10) years from the date of admission into the Ph.D. program.

4.2 Part-time scholars:

The Ph.D. program for part-time students will have a minimum duration of four (4) years, including coursework, and a maximum duration of six (6) years from the date of admission.

A maximum of an additional two (2) years can be given through a process of re-registration as per the Ordinance of the Aditya University; provided, however, that the total period for completion of a Ph.D. program should not exceed eight (8) years from the date of admission into the Ph.D. program. Provided further that female Ph.D. scholars and Persons with disabilities (having more than 40% disability) may be allowed an additional relaxation of two (2) years; however, the total period for completion of a Ph.D. program in such cases should not exceed ten (10) years from the date of admission into the Ph.D. program.

4.3 The scholar must submit the "No Dues" form to obtain the original certificates.

4.4 Female Ph.D. scholars may be provided maternity leave/child care leave for up to 240 days in the entire duration of the Ph.D. program.

5. Procedure for Admission

The admission process will be conducted in accordance with the criteria established by Aditya University, Surampalem. These criteria will be in line with the guidelines and regulations issued by the University Grants Commission (UGC) and other relevant statutory authorities. The process will also adhere to the reservation policies of the Central/State Government, as applicable and updated from time to time. The following is the step-by-step procedure for the admission process:

5.1 Notification of Admission

- Aditya University, Surampalem (AUS) will notify for the Ph. D admission in various disciplines twice a year (July & January admission) on the university website.
- The notification will include information on eligibility, entrance test details, and important dates.

5.2 Application Submission

- Interested candidates must submit the Ph.D. application form through the University's online admission portal before the deadline.
- All required documents must be uploaded along with the application.

5.3 Eligibility Verification

- The University verifies the application, and the eligible candidate will be called for the entrance test. Candidates who are qualified in **UGC-NET, UGC-CSIR NET, DBT-NET, ICMR-NET, ICAR-NET, or AP-SET, GPAT** or have a **valid GATE score** are exempted from the Entrance Test. However, such candidates must attend the interview.

5.4 Entrance Test

- Eligible applicants (except exempted categories) must appear for an online entrance test in the applied discipline, consisting of 100 multiple-choice questions (total 100 marks). The syllabus is available on the university website.
    - 25% of the questions will be from Research Methodology
    - 75% of the questions from Program-Specific Courses
- Duration: 2 hours
- No negative marking
- Qualifying Marks: 50%

5.5 Interview

- Candidates who qualify in the entrance test, as well as those exempted from it, shall be called for an interview (carrying 100 marks) conducted by the Department Research Committee (DRC**)**.
- The Interview Panel shall comprise the DRC Convenor**,** the Head of the Department, and two to three senior faculty members from the department.

5.5.1 Interview Evaluation Criteria:

The interview evaluation was based on the following criteria:

- Research Orientation and Potential
- Research Proposal/Idea Quality
- Technical Knowledge
- Communication Skills, and Motivation & Ethics.

5.6 Final Selection

- The final merit list is prepared based on the performance in the interview, and the list of selected candidates will be published on the university website.

5.7 Provisional Admission

- The Dean, Research & Consultancy (R&C), issues the Provisional Admission Order to the selected candidates during the admission.
- Candidates must pay the prescribed fees and submit the original documents/transcripts to the R&C cell.

5.9 Allocation of Supervisor

The following is the procedure for allotting a Ph.D. supervisor at Aditya University.

- Candidates are encouraged to contact potential supervisors directly to discuss their research interests and the possibility of supervision prior to the interview process.
- Candidates shall submit one supervisor willingness form during the admission process to assist the University in the allocation of supervisors.
- The allotment of a supervisor to the candidate is as follows
  i) The allocation of a supervisor shall be subject to availability, based on the number of candidates that can be assigned to each supervisor during the admission session, and the same shall be published on the University website prior to admission.
  ii) In a single admission session, a faculty member shall be allotted a maximum of two Ph.D. scholars, irrespective of the maximum number of scholars permitted

based on designation, to ensure effective supervision and quality research guidance.

iii) This process will be continuously monitored by the DRC-Convenor and Head of the department in consultation with R&C cell and the recommendations of the allotment of supervisors shall be submitted to R&C cell. After thorough verification in R&C cell, the final allotment of supervisors shall be released.

5.10 Confirmation of Admission

- After the allocation of Supervisor/Co-Supervisor, the candidate must report to the assigned Supervisor/Co-Supervisor and submit a one-page report outlining the proposed research work along with the joining report to the R&C Cell.
- The Dean (Research & Consultancy) will then issue the Admission Confirmation Order.

6. Allocation of Research Supervisor/Co-Supervisor

6.1 Permanent faculty members working as Professors / Associate Professors / Assistant Professors at Aditya University, with a minimum of one year of post-Ph.D. experience and at least three research publications in peer-reviewed journals, preferably indexed in Scopus or Web of Science, shall be recognized as Research Supervisors.

6.2 Allocation of Co-Supervisor from Academic Institution:

A Co-Supervisor may be allotted to a scholar based on his/her request, subject to fulfilment of any of the following criteria:

i. To ensure academic excellence, the faculty member's affiliated institution should have an NIRF ranking of 200 or lower.

ii. The faculty members who have established research collaboration or engagements with the supervisor/research scholar, as demonstrated by previous or existing collaborations, publications, and/or funded projects.

However, the Research Committee's decision shall be final in the allocation of Co-Supervisor.

6.3 For Ph.D. scholars working in Central government / State government research institutions/ Industry whose degrees are given by Higher Educational Institutions, scientists in such research institutions who are equivalent to Professor / Associate Professor / Assistant Professor can be recognized as co-supervisors.

6.4 Co-supervisors from within the same department or other departments of the University may be permitted with the approval of the competent authority. Visiting/adjunct faculty members shall not act as Research Supervisors and can only act as co-supervisors.

6.5 In case of interdisciplinary / multidisciplinary research work, if required, a Co-Supervisor from outside the Department / School / University / Research Institutions may be appointed.

6.6 An eligible research supervisor in the category of Professor/Associate Professor / Assistant Professor can guide up to eight (8)/six (6)/four (4) Ph.D. scholars, respectively.

S. No	Designation	Maximum Number of Scholars Permitted
1.	Professor	8
2.	Associate Professor	6
3.	Assistant Professor	4

6.7 Faculty members with less than three years of service before superannuation shall not be allowed to take new research scholars under their supervision. However, such faculty members can continue to supervise Ph.D. scholars who are already registered until superannuation and as a co-supervisor after superannuation, but not after attaining the age of 70 years.

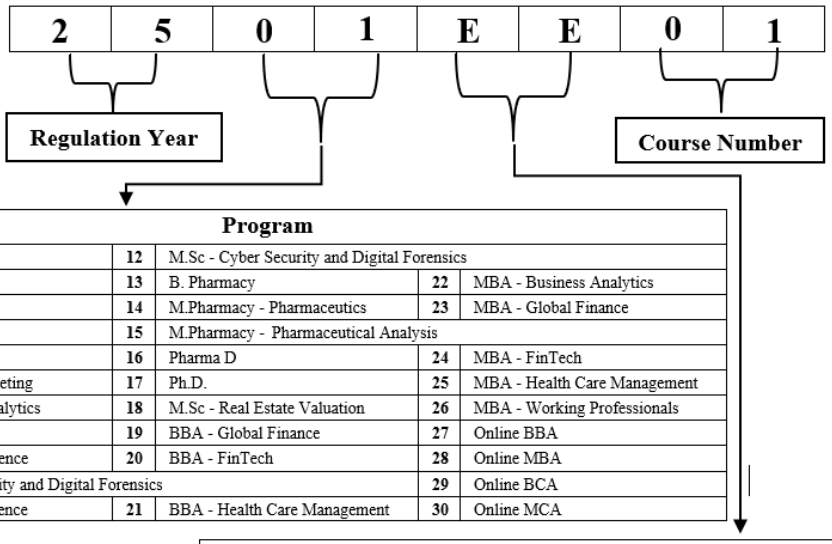
7. Course Work

- The credit requirement for the Ph.D. coursework is a minimum of 12 credits including the courses on 'Research Methodology' and 'Research and Publication Ethics' for 2 credits each. These courses can be completed through MOOCs. The candidate must complete two domain-specific courses of 3 credits each, recommended by the respective Department Research Committee (DRC).
- The candidate is required to present two research seminars in addition to completing the coursework, typically within the first year of the program.
  - The first seminar must be conducted before the end of the first semester and should introduce the proposed research work.
  - The second seminar must be held after the completion of coursework or before the end of the second semester and should focus on the detailed research proposal. Each research seminar will have a credit weight of one.

- The content for the domain-specific courses can be customized / drawn from the PG syllabus to suit the requirements of the scholars and is to be recommended by the respective Supervisor / Co-Supervisor and duly approved by DRC. Registration and the required course work shall be completed within a maximum of one year from the date of admission.
- It may be extended for one more year under special circumstances with the prior recommendation from DRC and approval from Dean (R&C). A Ph.D. scholar must obtain a minimum of 50% marks or its equivalent grade in the UGC 10-point scale in each course to be eligible to continue in the program and submit his / her thesis.

7.1 Course Code Template

Each course is identified by a unique Course Code consisting of eight alphanumerical characters. The first two numerals indicate the regulation year, third numeral indicates the program, the next two alphabets reflect the course offering department, and the rest of the three numerals indicate a running course number.

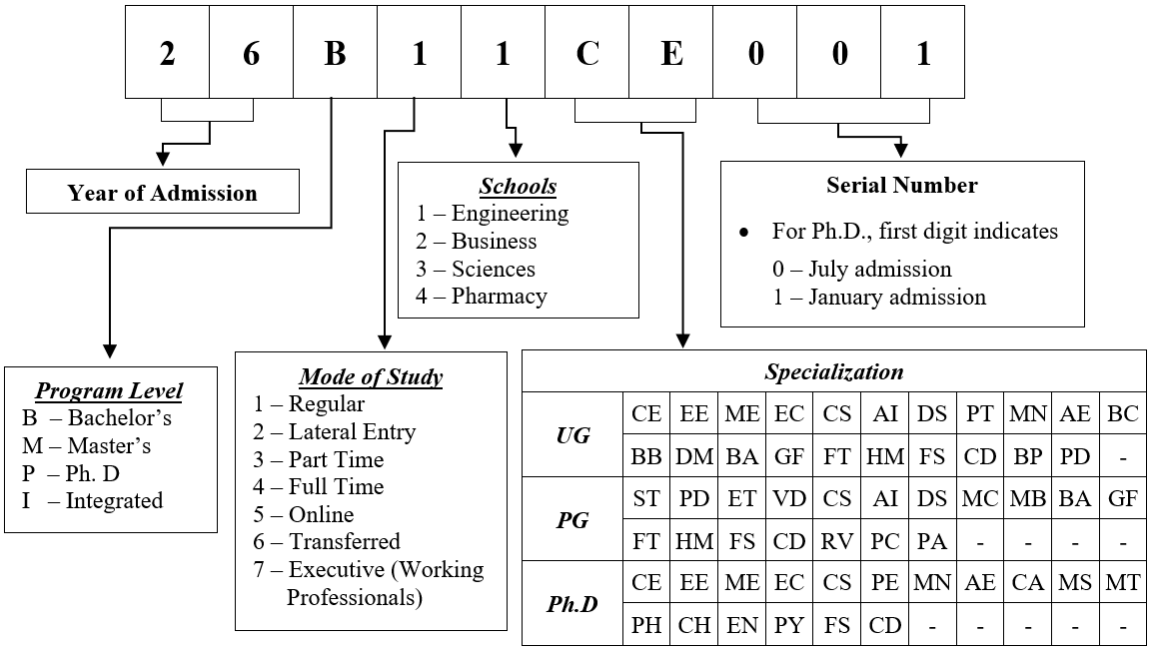


Program					
01	B. Tech	12	M.Sc - Cyber Security and Digital Forensics		
02	M. Tech	13	B. Pharmacy	22	MBA - Business Analytics
03	BCA	14	M.Pharmacy - Pharmaceutics	23	MBA - Global Finance
04	MCA	15	M.Pharmacy - Pharmaceutical Analysis		
05	BBA	16	Pharma D	24	MBA - FinTech
06	BBA - Digital Marketing	17	Ph.D.	25	MBA - Health Care Management
07	BBA - Business Analytics	18	M.Sc - Real Estate Valuation	26	MBA - Working Professionals
08	MBA	19	BBA - Global Finance	27	Online BBA
09	B.Sc. - Forensic Science	20	BBA - FinTech	28	Online MBA
10	B.Sc. - Cyber Security and Digital Forensics			29	Online BCA
11	M.Sc - Forensic Science	21	BBA - Health Care Management	30	Online MCA

Course Offering Departments / Category			
EN	English	MN	Mining Engineering
MA	Mathematics	PT	Petroleum Technology
PH	Physics	AE	Agricultural Engineering
CH	Chemistry	AI	Artificial Intelligence and Machine Learning
CE	Civil Engineering	MO	MOOC's
EE	Electrical and Electronics Engineering	AC	Audit/Mandatory Course
ME	Mechanical Engineering	MS	Management Studies
EC	Electronics and Communication Engineering	MC	Computer Applications
CS	Computer Science and Engineering	FS	Forensic Science
DS	Data Science	PY	Pharmacy

8. Roll Number Template

A roll number is a unique identification number assigned to students, it's typically used for administrative purposes, including tracking academic performance, exam registration, and identification. A roll number consists of ten alphanumerical characters, the first two numerals indicate the year of admission, third alphabet indicates the Program level, the fourth numeral indicates the mode of study, fifth numeral indicates the school, the next two alphabets indicate the specialization, eight numerical number indicates the session of admission, and the last two numerals indicate the serial number.



Specialization											
UG	CE	EE	ME	EC	CS	AI	DS	PT	MN	AE	BC
	BB	DM	BA	GF	FT	HM	FS	CD	BP	PD	-
PG	ST	PD	ET	VD	CS	AI	DS	MC	MB	BA	GF
	FT	HM	FS	CD	RV	PC	PA	-	-	-	-
Ph.D	CE	EE	ME	EC	CS	PE	MN	AE	CA	MS	MT
	PH	CH	EN	PY	FS	CD	-	-	-	-	-

Code	Specialization	Code	Specialization
CE	Civil Engineering	MS	Management Science
EE	Electrical and Electronics Engineering	MT	Mathematics
ME	Mechanical Engineering	PH	Physics
EC	Electronics and Communication Engineering	CH	Chemistry
CS	Computer Science and Engineering	EN	English
PE	Petroleum Engineering	PY	Pharmacy
MN	Mining Engineering	FS	Forensic Science
AE	Agricultural Engineering	CD	Cyber Security & Digital Forensics
CA	Computer Applications		

9. Guidelines and Leave Policy for Full-Time Scholars

9.1 The following are the guidelines for Ph.D. full-time scholars:

i. A full-time Ph.D. scholar shall be present at the University from 9:30 a.m. to 4:20 p.m. on all working days.

ii. Full-time Ph.D. scholars must conduct their research regularly under the guidance of their supervisor(s) without interruption during their assistantship.

iii. A full-time Ph.D. scholar is assigned with a workload of 10 periods per week in teaching and learning process.

9.2 Casual leave and Academic leave Policy:

i. A full-time Ph.D. scholar will be entitled to casual leave for 12 days per academic year. The leave may be granted to the scholar by the Head of Department concerned on the recommendation of the Supervisor.

ii. Six (6) academic leaves may be granted to attend Seminars/Conferences per year to present research papers, with the permission of Head of Department concerned on the recommendation of the Supervisor.

iii. Leave beyond 12 days in an academic year may be granted to a Research Scholar in exceptional cases, by the Head of the Department concerned, subject to the following conditions: (i) the leave beyond 12 days will be without Scholarship, and (ii) such an extension of up-to additional 12 days will be granted only once during the program of the Scholar.

iv. The research scholars will be eligible for leaves as per university leave rules/rules of the organization awarding assistantship/Scholarship.

9.3 Vacation Policy:

Research scholars who have completed two semesters are eligible to avail for a one-week vacation during the summer.

9.4 Monthly Progress Review and Fellowship Continuation

For Full-Time Ph.D. scholars, the following provisions are proposed to be incorporated in the Ph.D. Regulations – 2024 and Ph.D. Regulations – 2025:

1. Full-Time Ph.D. scholars shall submit a monthly progress report in the prescribed format, duly certified by the Research Supervisor.
2. The monthly progress of the scholar shall be assessed by the Research Supervisor as either Satisfactory or Unsatisfactory.
3. If a scholar receives an Unsatisfactory assessment in the monthly progress review for three consecutive months, the fellowship/stipend shall be suspended with effect from the subsequent month. The scholar may become eligible to receive the fellowship/stipend again upon submission of a satisfactory explanation and a favorable

recommendation from the Research Supervisor, subject to the approval of the Dean (Research & Consultancy).

4. During the period of suspension of the fellowship/stipend, the scholar shall continue to pursue research work and comply with all academic and research requirements prescribed by the University.
5. The suspension of the fellowship/stipend shall not affect the scholar's Ph.D. registration, and the scholar shall continue to pursue research work in accordance with all applicable University regulations.

10. Research Committees and its Functions

There will be two types of committees. One is the Department Research Committee (DRC) and the other is the Doctoral Advisory Committee (DAC).

10.1 Department Research Committee (DRC)

The DRC shall consist of a convenor, one external member from IITs/NITs/state universities, the scholar's respective supervisors, and 3 to 4 internal members from the department. The DRC convenor shall be appointed by the Dean (R&C) in consultation with the respective Head of the Department. The DRC convenor shall be responsible for the following Ph.D.-related activities:

i. Organizing and evaluating Research Seminar–I and Research Seminar–II for each research scholar in coordination with the HoD and DRC members. The consolidated evaluation report (50% weightage of the external DRC member and 50% from all the internal DRC members) should be submitted to the Dean (R&C).
ii. Coordinate the registration of coursework for each scholar through their respective supervisor(s), verify the alignment of the selected domain-specific courses with the scholar's research area, and submit the details to the Dean (R&C).
iii. Conduct and coordinate Research Review Meetings (RRM) for Ph.D. scholars in consultation with the HoD and members of the Doctoral Advisory Committee (DAC).
iv. Submit required documents such as progress reports, seminar reports, and evaluation sheets to the Research & Consultancy (R&C) Cell after seminars or RRMs.

v. Arrange the Pre-talks for eligible Ph.D. scholars in consultation with the supervisor, HoD, and Dean (R&C).

vi. Coordinate the submission of reviewer panels for thesis evaluation and assist in the conduct of Ph.D. Viva-Voce examinations.

10.2 Doctoral Advisory Committee (DAC)

There shall be a Doctoral Advisory Committee (DAC) for each Ph.D. scholar. DAC shall consist of the research supervisor of the Ph.D. scholar and two members who have expertise in the area of research (in case of interdisciplinary research, one of the faculty shall be appointed from other department) appointed by the Vice Chancellor. Supervisor of the candidate shall be the Convener of DAC committee. DAC committee shall have the following responsibilities:

i. To review the research proposal and finalize the topic of research.

ii. To guide the Ph.D. scholar in carrying out the study, design, and methodology of research and approve the course(s) that he/she may have to do.

iii. To periodically review (Research Review Meeting(s)) and assist in the progress of the research work of the Ph.D. scholar.

iv. Certify the completion of research work and recommend the scholar for the pre-submission of the thesis.

10.3 In every semester, a Ph.D. scholar shall appear before the Doctoral Advisory Committee (DAC) to present and submit a detailed progress report of his/her research work for evaluation and further guidance. The report submitted by the scholar shall be permitted to have a Similarity Index of up to 15%, excluding published works, as determined through anti-plagiarism software. The DAC shall submit its recommendations along with a copy of Ph.D. Scholar's progress report to the HOD. DRC Convenor will consolidate all the reports and submit to the Dean (R&C) who shall forward the same to the Examination Committee for approval. A copy of such recommendations shall also be provided to the Ph.D. scholar.

10.4 Failure to submit two consecutive half-yearly progress reports will entail cancellation of Ph.D. registration of the scholar.

10.5 In case the progress of the Ph.D. scholar is unsatisfactory, the DRC shall record the reasons for the same and suggest corrective measures. If the Ph.D. scholar fails to

implement these corrective measures, the DRC may recommend, with specific reasons, the cancellation of the registration of the Ph.D. scholar from the Ph.D. program.

11. Change of Topic/Research Area

11.1 Application for change of Topic/research area should be submitted with the recommendations of Supervisor(s) along with abstract which will be examined by the DRC. Based on the recommendations of DRC, change of topic may be considered.

11.2 Change of Topic is permitted only once in the Ph.D. program. The submission of thesis is permitted only after two years, from the date of change of topic.

11.3 Change of topic is permitted within 2 years for full-time scholars and 3 years for part-time scholars from the completion of course work. However, the stipend will be given for a total period of 3 years only.

11.4 If the candidate is permitted to avail change of topic, then the candidate has to attend minimum two DAC meetings after the date of approval for change of topic.

12. Change of Supervisor(s)

12.1 Change of Supervisor / Co-Supervisor may be permitted by the recommendations of DRC (Convenor) and Dean (R&C).

12.2 Change of Supervisor is permitted in unforeseen circumstances only with the permission of the Vice-Chancellor.

12.3 A change of supervisor is permitted only after one year from the date of admission.

12.4 For a change of supervisor, the scholar must submit an application form with signatures from both the current and new supervisors.

12.5 Request for a change of Supervisor / Co-Supervisor is permitted only once in the Ph.D. program.

12.6 Submission of thesis is permitted only after one year from the date of request for change of Supervisor / Co-Supervisor.

12.7 Request for change of Supervisor / Co-Supervisor will not be permitted after 2 years for Full-time and 3 years for part-time program from date of admission.

12.8 If a research scholar requests for allotment of co-supervisor, it may be done with the approval of the Vice-Chancellor.

12.9 If a supervisor leaves the University within one year of the scholar's registration or before Seminar II is completed, a new supervisor shall be appointed. In other cases, the original supervisor may continue as a Co-Supervisor along with the newly appointed supervisor, subject to approval by the AUS and the submission of a no-objection certificate from their current organization.

13. Change of Ph.D. Registration Mode from Full-Time to Part-Time

A Full-Time Ph.D. scholar who secures regular employment during the Ph.D. programme may apply for conversion of registration from Full-Time mode to Part-Time mode, subject to the approval of the Hon'ble Vice-Chancellor and fulfillment of the following eligibility criteria.

Eligibility Criteria

1. The scholar shall satisfy all eligibility requirements prescribed for admission under the Part-Time Ph.D. category.
2. The scholar shall have obtained regular employment in a recognized organization.
3. The scholar shall have successfully completed the prescribed coursework (12 credits for Regular Ph.D. scholars and 30 credits for Direct Ph.D. scholars admitted after B.Tech./MCA) and Research Seminar–I & Research Seminar–II.
4. The scholar shall have completed a minimum of one year of research work with satisfactory progress, as certified by the Research Supervisor. Requests submitted before the completion of one year from the date of admission to the Ph.D. program shall not be considered and shall be rejected.

Documents Required

1. Prescribed application form for conversion from Full-Time to Part-Time Ph.D. registration, duly recommended by the Research Supervisor, DRC Convenor, and Head of the Department.
2. Copy of the Appointment Order and Joining Report issued by the employer.
3. No Objection Certificate (NOC) from the employer permitting the scholar to pursue the Ph.D. programme on a Part-Time basis.

Approval Process

The request for conversion shall be reviewed by the DRC Convenor and forwarded through the Dean (Research & Consultancy) for approval by the Hon'ble Vice-Chancellor.

Conditions After Conversion

1. The scholar shall be governed by all regulations applicable to Part-Time Ph.D. scholars.
2. The period of registration shall be counted from the original date of registration as a Full-Time scholar. However, the scholar shall fulfill the minimum registration period prescribed for Part-Time Ph.D. scholars, i.e., four years from the date of initial registration.
3. The scholar shall continue to comply with all prescribed progress review and reporting requirements.
4. Conversion from Full-Time to Part-Time registration shall normally be permitted only once during the tenure of the Ph.D. programme.

14. Anti-plagiarism policies

The Dean (R&C) will conduct a plagiarism check using approved software and provide a "Plagiarism Check Certificate" along with the Similarity Index Report. The Similarity Index will include flag checking and AI-generated content, with a permissible limit of up to 15%, excluding published works. The scholar will be permitted to submit the Ph.D. thesis only after meeting these requirements.

15. Pre-Submission of the Thesis:

15.1 Candidate should have

i. Completed the course work requirement successfully.
ii. Completed the research work and certified by DAC.
iii. Completed three review meetings successfully for full-time Ph.D. and four review meetings for part-time Ph.D.
iv. ***Published at least two papers in the area of research in SCI / Scopus Journals having impact factor and one international conference paper (Indexed in Scopus) as first author.***
v. ***Full-time and part-time Ph.D. scholars seeking early thesis submission (up to six months in advance) must fulfill additional research achievements beyond the minimum eligibility requirements. These may include high-quality publications in reputed journals (such as those published by IEEE, ACM, ASME, ASCE, or equivalent in non-engineering domains), granted patents, or received best paper***

awards in international journals / Conference of repute. Final decision shall be taken by the Vice-Chancellor.

vi. Pay the University Fee as prescribed, with required fine (if any).

15.2 The paper(s) published prior to the admission into Ph.D. program shall not be counted for fulfilling the requirements.

15.3 Research papers authored by the candidate, supervisor, and co-supervisor (if any) only will be considered. Any deviation from this can be accepted only after prior approval.

15.4 A letter from the scholar should be submitted through the supervisor(s) for arrangements of pre-talk. Synopsis reports (5 copies) and a draft copy of the Ph.D. thesis (1 copy) have to be submitted to the Dean (R&C) along with a request letter for the pre-talk, for forwarding the same to the Chairperson (BOS) for conducting the pre-talk.

15.5 Pre-talk should be arranged in the University premises as an open talk.

15.6 The quality of the work is to be adjudged by the DRC in the review meeting and pre-talk. Recommendations of DRC shall be forwarded to the Dean (R&C).

15.7 The recommendation from the committee and Dean(R&C) shall be made available to the candidate.

15.8 Candidate has to submit the thesis as per the recommendations within a maximum period of 3 months from the date of Pre-talk.

16. Process for Thesis Submission:

16.1 On the recommendation of DRC, the scholar will be required to submit the Ph.D. thesis to Dean (R&C) in the specified format with all suggested modifications included (comments obtained during pre-talk / presentation).

16.2 A panel consisting of 9 experts having designation of Associate Professor and above and research standing in the relevant field/branch of the Ph.D. work, will be proposed by supervisor to the Vice-Chancellor. The experts should be drawn from the universities/institutions that are within top 200 ranks of NIRF at the time of thesis submission.

16.3 Candidate has to submit the following documents along with Ph.D. thesis.

i. Anti-Plagiarism approval letter issued by the Dean (R&C) before Pre-talk and before final submission.

ii. Synopsis of the Thesis (5 copies) and one soft copy of the same.

iii. Ph.D. thesis (5 copies) along with National and International Journal Papers published by the candidate (to be included in thesis), If research paper is yet to be published, publication acceptance letter has to be included.

iv. No dues certificate

v. Letter from the candidate with necessary recommendations from the Supervisor(s)

vi. Sealed cover with the panel of the 9 Examiners (with affiliation and contact details) as recommended by the Supervisor(s).

vii. Photostat copy of examination fee receipt for processing the thesis.

16.4 The Vice-Chancellor will finalize three examiners from the panel of 9 examiners to whom the thesis will be sent for evaluation after obtaining their consent.

16.5 The approved examiners will be approached, along with a copy of thesis, to seek their consent.

16.6 The Ph.D. examiners are expected to give their evaluation reports with their recommendation in a prescribed format within 10 weeks of the receipt of the thesis.

16.7 The recommendations and the evaluation reports from all the examiners will be placed before the Vice-Chancellor for further course of action.

16.8 The suggestions given by the examiners will be passed on to the candidate through his / her supervisor. The candidate will be required to submit the final version of thesis in the required format, incorporating all the suggestions, both in hard copy as well as soft copy.

16.9 The candidate through Supervisor and Co-Supervisor (if any) has to submit a letter that comments / suggestions made by the examiners (if any) are incorporated into the Ph.D. thesis.

16.10 If the Vice-Chancellor finds the recommendations and the evaluation reports from all the examiners satisfactory, the date of the final Viva-Voce examination will be decided in consultation with the Viva-Voce examiner.

16.11 In case, the report(s) and recommendation of two of the three examiners are favourable, then the scholar would be recommended for Viva-voce by the Vice-Chancellor.

16.12 If two Examiners reject the thesis, the candidate shall revise and re-submit it within one year. Such cases will be again referred to DRC for due recommendations, followed by routine procedure.

16.13 However, if the report(s) and the recommendation from three examiners are not favourable, then the thesis will be rejected and the Ph.D. degree will not be awarded.

16.14 The candidate may, however, be allowed to Re-register to continue the Ph.D. work on the same topic and under the same Supervisor(s) for a minimum period of one year

16.15 The candidate shall submit a fresh thesis within two years, subject to the conditions specified in Section 2, and the thesis will be evaluated again following the normal evaluation process

16.16 One of the three examiners will be appointed as examiner for the final Viva-Voce examination by the Vice Chancellor. If the appointed examiner is unable to conduct Viva-Voce, then, the Vice-Chancellor can select another member to conduct the Viva-Voce.

16.17 Once the thesis is accepted, the candidate will be required to defend his / her Ph.D. work in an open viva-voce examination.

16.18 On the successful completion of the final Ph.D. viva-voce examination and evaluation process the report shall be submitted to Vice- Chancellor for approving the award of Ph.D. degree to the candidate.

16.19 After the approval of Vice- Chancellor, the award of Ph.D. degree would be announced, and a provisional degree certificate would be issued to the scholar.

16.20 The final degree will be awarded in the Convocation.

17. Depository with INFLIBNET:

Following the successful completion of the evaluation process and before the announcement of the award of the Ph.D. degree, an electronic copy of the Ph.D. thesis shall be sent to the INFLIBNET within a period of thirty days as per the guidelines.

17. Curriculum for Coursework

Ph.D. Course Work

The credit requirement for the Ph.D. coursework is a minimum of 12 credits including the courses on 'Research Methodology' and 'Research and Publication Ethics' for 2 credits each. The candidate must complete two domain-specific courses of 3 credits each, recommended by the respective Department Research Committee (DRC). These courses can be completed through MOOCs.

The candidate must present two research seminars before the completion of course work, typically within the first year. The first research seminar shall be before the end of first semester on introduction to the proposed research work, and the second seminar shall be before the end of the second semester or after the completion of course work on the research proposal, as per the format provided. Each research seminar will have one credit weightage. The course structure is provided in Table 1, and the list of domain-specific courses is presented separately for each department.

Table 1: Course Structure

S. No.	Course Code	Name of the Course	Credit (s)
1	2517UC01	Research Seminar -I	1
2	2517UC02	Research Seminar -II	1
3	2517UC03	Research Methodology	2
4	2517UC04	Research and Publication Ethics	2
5	-	Domain Specific Course -I	3
6	-	Domain Specific Course -II	3
Total			**12**

Department of Civil Engineering

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517CE01	Advanced Concrete Technology
2	2517CE02	Finite Element Analysis
3	2517CE03	Experimental Techniques and Instrumentations
4	2517CE04	Structural Health Monitoring
5	2517CE05	Techniques of Material Characterization
6	2517CE06	Pavement Analysis and Design
7	2517CE07	Advanced Highway Materials
8	2517CE08	Computational Techniques in WRE
9	2517CE09	Ship Hydrodynamics
10	2517CE10	Advanced Water and Wastewater Treatment
11	2517CE11	Solid and Hazardous Waste Management
12	2517CE12	Advanced Reinforced Concrete Design
13	2517CE13	Earthquake Resistant Design of Buildings
14	2517CE14	Soil Exploration and Field Testing
15	2517CE15	Soil Properties and Behavior
16	2517CE16	Highway Traffic Analysis and Design
17	2517CE17	Geometric Design of Transportation Facilities
18	2517CE18	Free Surface Flow
19	2517CE19	Hydraulics of Alluvial Rivers
20	2517CE20	Environmental Legislation
21	2517CE21	Air and Noise Pollution Control Engineering
22	2517CE22	Emerging Contaminants in Water and Wastewater
23	2517CE23	Theory of Engineered Cementitious Composites
24	2517CE24	Geosynthetics and Reinforced Soil Structures

Department of Electrical and Electronics Engineering

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517EE01	Electrical Machine Modeling and Analysis
2	2517EE02	Intelligent Control Techniques in Electric Drives
3	2517EE03	Power Converter Technologies
4	2517EE04	Digital Control Systems
5	2517EE05	Electric Vehicles & Drives
6	2517EE06	Power System Optimization
7	2517EE07	Modelling and Control of Sustainable Energy System
8	2517EE08	Power System Dynamics and Control
9	2517EE09	Intelligent Control Systems
10	2517EE10	Control Systems Components
11	2517EE11	Power Electronic Converters
12	2517EE12	Smart Grid
13	2517EE13	Soft Computing Techniques and Applications
14	2517EE14	Linear control Theory
15	2517EE15	Estimation and Adaptive Control
16	2517EE16	Optimal and Robust Control
17	2517EE17	Advanced Power Electronic Converters

Department of Mechanical Engineering

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517ME01	Measurements in Thermal Engineering
2	2517ME02	Gas Turbines and Jet Propulsion
3	2517ME03	Energy Conservation & Waste Heat Recovery
4	2517ME04	Heating, Ventilation and Air-Conditioning
5	2517ME05	Convective Heat Transfer
6	2517ME06	Renewable Sources of Energy
7	2517ME07	Design of Heat Exchangers
8	2517ME08	Combustion, Emissions and Environment
9	2517ME09	Alternative Fuels
10	2517ME10	Cryogenic Engineering
11	2517ME11	Solar Energy Technologies
12	2517ME12	Advanced Fuel Cell Technologies
13	2517ME13	Advanced I.C. Engines
14	2517ME14	Optimization Techniques & Applications
15	2517ME15	Finite Element Method in Heat Transfer Analysis
16	2517ME16	Solar Photovoltaics: Principles, Technologies & Materials
17	2517ME17	Advanced Mechanics of Solids
18	2517ME18	Mechanical Vibrations and Condition Monitoring
19	2517ME19	Analysis And Synthesis of Mechanisms
20	2517ME20	Experimental Stress Analysis
21	2517ME21	Advanced Mechanical Design
22	2517ME22	Advanced machining and micromachining processes
23	2517ME23	Advanced Manufacturing Process
24	2517ME24	Automation in Manufacturing
25	2517ME25	Control of Robotic System
26	2517ME26	Leading Edge Additive Engineering

S. No.	Course Code	Name of the Course
27	2517ME27	Fracture Mechanics
28	2517ME28	Failure Analysis and Design
29	2517ME29	Artificial Intelligence and Machine Learning for Mechanical Systems
30	2517ME30	Advanced FEM and Simulation Techniques
31	2517ME31	Data Analytics
32	2517ME32	Quality and reliability
33	2517ME33	Process Modelling and Optimization
34	2517ME34	Robotic Mobility Systems
35	2517ME35	Advanced Composite Materials
36	2517ME36	Material Characterization
37	2517ME37	Surface Engineering

Department of Electronics and Communication Engineering

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517EC01	Modern Antenna Theory & Design
2	2517EC02	Radiating Elements, Analysis and Measurements
3	2517EC03	Antenna Measurements
4	2517EC04	Design Principles of Microwave Antennas
5	2517EC05	Fundamentals of Semiconductor Fabrication Technology
6	2517EC06	Design and Analysis of VLSI subsystems
7	2517EC07	Sensors and Actuators
8	2517EC08	Computer Vision and Image Processing: fundamentals and Applications
9	2517EC09	Multimedia and Signal Coding
10	2517EC10	Applied Linear Algebra and Optimization for ML Based WC
11	2517EC11	Deep Learning
12	2517EC12	Signal Transform Techniques
13	2517EC13	Speech Signal Processing
14	2517EC14	Bio Medical Signal Processing
15	2517EC15	Modern Mobile Communication Systems
16	2517EC16	Mobile Computing Technologies
17	2517EC17	Advanced Wireless Networks
18	2517EC18	Advanced 5G Wireless Communication
19	2517EC19	Embedded System Design with ARM
20	2517EC20	Embedded Networking
21	2517EC21	Computer Vision

Department of Computer Science and Engineering

List of Domain-Specific Courses

S.No.	Course Code	Name of the Course
1	2517CS01	Data Science Fundamentals
2	2517CS02	Artificial Cognitive Systems
3	2517CS03	Fog and Edge Computing
4	2517CS04	Secure Cloud Computing
5	2517CS05	AI for Cyber Security
6	2517CS06	AI for Language and Text Processing
7	2517CS07	Block Chain Technology
8	2517CS08	Quantum Computational Methods
9	2517CS09	Introduction to Machine Learning
10	2517CS10	Machine Learning for Engineering and Science Applications
11	2517CS11	Computer Networks and Internet Protocol
12	2517CS12	Natural language processing
13	2517CS13	Advanced Computer Networks
14	2517CS14	Computer Vision and Image processing - Fundamentals and Applications
15	2517CS15	Introduction to Soft Computing
16	2517CS16	Introduction to Internet of Things
17	2517CS17	Cryptography and Network Security
18	2517CS18	Data analytics with Python
19	2517CS19	Deep Learning
20	2517CS20	Machine Learning and Deep Learning - Fundamentals and Applications

Department of Mining Engineering

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517MN01	Applied Rock Mechanics
2	2517MN02	Rock Mechanics & Ground Control
3	2517MN03	Geomechanics
4	2517MN04	Rock Fragmentation Engineering
5	2517MN05	Physical & Numerical Modelling
6	2517MN06	Tunneling Technology
7	2517MN07	Design of Mine Supports
8	2517MN08	Numerical Methods for Subsurface Environment
9	2517MN09	Numerical Methods for Underground Excavations
10	2517MN10	Drilling Engineering
11	2517MN11	Planning of Underground Coal Mines
12	2517MN12	Planning of Underground Metal Mines
13	2517MN13	Planning of Surface Mines
14	2517MN14	Underground Excavation Equipment
15	2517MN15	Surface Excavation Technology & Equipment
16	2517MN16	Environmental Impact Assessment & Management in Mines
17	2517MN17	Planning of Underground Ventilation Systems
18	2517MN18	Risk & Safety Management in Mines
19	2517MN19	Network Analysis for Mines and Mineral Engineering

Department of Petroleum Technology

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517PT01	Advanced Petroleum Geology
2	2517PT02	Production Engineering
3	2517PT03	Reservoir Engineering-I
4	2517PT04	Production Technology-I
5	2517PT05	Petroleum Sedimentology
6	2517PT06	Reservoir Engineering-II
7	2517PT07	Petroleum Economics & Environmental Management
8	2517PT08	Drilling Fluids
9	2517PT09	Drilling Technology
10	2517PT10	Production Technology-II
11	2517PT11	Oil and Gas Economics and Risk Management
12	2517PT12	Enhanced Oil Recovery Techniques
13	2517PT13	Drilling Engineering Hydraulics
14	2517PT14	Exploration and Formation Evaluation of Oil and Gas Reservoirs
15	2517PT15	Offshore Drilling and Production Practices
16	2517PT16	Surface Facility for Oil and Gas Handling
17	2517PT17	Reservoir Simulation
18	2517PT18	Artificial Life Technology for Oil and Gas Production
19	2517PT19	Production Chemicals & oil field chemistry
20	2517PT20	Flow Assurance

Department of Agricultural Engineering

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517AE01	Design of Farm Power and Machinery Systems
2	2517AE02	Soil Dynamics in Tillage and Traction
3	2517AE03	Testing and Evaluation of Tractors and Farm Equipment
4	2517AE04	Design and Analysis of Renewable Energy Conversion Systems
5	2517AE05	Tractor Design
6	2517AE06	Soil and Water Systems Simulation and Modelling
7	2517AE07	Flow through porous media
8	2517AE08	Watershed Management & Modelling
9	2517AE09	Crop Environmental Engineering
10	2517AE10	Dryland Technology
11	2517AE11	Agricultural Drainage Systems
12	2517AE12	Fruits & Vegetables Process Engineering
13	2517AE13	Transport Phenomena in Food Processing
14	2517AE14	Food Processing Equipment Design
15	2517AE15	Advances in Food Processing
16	2517AE16	Advances in Drying of Food Materials
17	2517AE17	Milling of Food Materials
18	2517AE18	Machine Learning for Soil and Crop Management
19	2517AE19	Design, Operation & Evaluation of Pressurized Irrigation System

Department of Mathematics

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517MA01	Boundary Value Problems
2	2517MA02	Ordinary Differential Equations
3	2517MA03	Mathematical Methods
4	2517MA04	Fundamentals of Probability and Logic
5	2517MA05	Fuzzy Set Theory and Fuzzy Logic
6	2517MA06	Universal Algebra
7	2517MA07	Fluid Dynamics
8	2517MA08	Non-linear Functional analysis
9	2517MA09	Real Analysis
10	2517MA10	Operations Research
11	2517MA11	Abstract Algebra
12	2517MA12	Lattice Theory
13	2517MA13	Boolean Algebra
14	2517MA14	Numerical Methods

Department of Physics

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517PH01	Quantum Mechanics
2	2517PH02	Materials Science
3	2517PH03	Polymers and Nano-Composites
4	2517PH04	Nano-Magnetism
5	2517PH05	Introduction to Low Temperature Liquids and Amorphous Materials
6	2517PH06	Modern Physics
7	2517PH07	Glass Science
8	2517PH08	Industrial Nanotechnology
9	2517PH09	Surface Engineering for Nanotechnology
10	2517PH10	Advanced Equilibrium and Non-Equilibrium Statistical Mechanics
11	2517PH11	Fundamentals of Spectroscopy
12	2517PH12	Atomic And Molecular Physics
13	2517PH13	Elements of Modern Physics
14	2517PH14	Electronic Theory of Solids
15	2517PH15	Characterization of Polymers Elastomers and Composites
16	2517PH16	Properties of Glass Materials

Department of Chemistry

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517CH01	Theoretical and Computational Chemistry-Methods and Applications.
2	2517CH02	Interpretative Molecular Spectroscopy
3	2517CH03	Advanced Organic Synthesis: Oxidation, Reduction, and C-C Bond Formation Strategies for Natural Product Synthesis
4	2517CH04	Chemistry of Nanomaterials
5	2517CH05	Nuclear Chemistry in Research and Industry-Techniques and Innovations.
6	2517CH06	Sensor Technologies in Chemistry-Principles and Applications.
7	2517CH07	Organic Transformations and Reagents-Catalysis, Selectivity, and Functional Group Interconversions.
8	2517CH08	Medicinal Chemistry
9	2517CH09	Advanced Green Chemistry-Sustainable Strategies and Innovations in Chemical Processes.
10	2517CH10	Environmental Quality Monitoring & Analysis
11	2517CH11	Industrial Wastewater Treatment
12	2517CH12	Spectroscopy for Structural Elucidation
13	2517CH13	Reagents in Organic Synthesis
14	2517CH14	Separation Techniques and Bioanalytical Chemistry
15	2517CH15	Techniques of Materials Characterization
16	2517CH16	Molecular Rearrangements and Reactive Intermediates in Organic Synthesis
17	2517CH17	Chemical Crystallography
18	2517CH18	NMR Spectroscopy for Chemists and Biologists

Department of English

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517EN01	New Emerging Trends / Advanced Studies in ELT
2	2517EN02	Sociolinguistics
3	2517EN03	Translation Studies
4	2517EN04	Soft Skills
5	2517EN05	English for Specific Purposes
6	2517EN06	English Language Teaching
7	2517EN07	English Language for Competitive Exams
8	2517EN08	Indian Writing in English
9	2517EN09	Post-Colonial Literature
10	2517EN10	Literary Criticism (From Plato to Leavis)
11	2517EN11	American Literature
12	2517EN12	Women's Writings
13	2517EN13	Refugee, Migration, Diaspora

School of Business – Management

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517MS01	Managerial Economics
2	2517MS02	Global Markets and International Strategy
3	2517MS03	Strategic Management
4	2517MS04	Entrepreneurship
5	2517MS05	Project Management for Managers
6	2517MS06	Marketing Management
7	2517MS07	Retail Marketing
8	2517MS08	Services Marketing
9	2517MS09	Marketing Research and Analysis
10	2517MS10	Customer Relationship Management
11	2517MS11	Product and Brand Management
12	2517MS12	Retail Marketing Strategy
13	2517MS13	Sustainable Marketing and Consumer Behaviour
14	2517MS14	Corporate Finance
15	2517MS15	Financial Services and Markets
16	2517MS16	Security Analysis & Portfolio Management
17	2517MS17	Commodity Derivatives & Risk Management
18	2517MS18	Financial Technology
19	2517MS19	Introduction to Indian Banking System
20	2517MS20	Human Resource Management
21	2517MS21	Organisational Behaviour
22	2517MS22	Organisation Change and Development
23	2517MS23	Compensation and Reward Management
24	2517MS24	Performance and Reward Management
25	2517MS25	HR Analytics and Strategic HRM
26	2517MS26	Supply Chain Management
27	2517MS27	Operations and Supply Chain Management

S. No.	Course Code	Name of the Course
28	2517MS28	Production and Operations Management
29	2517MS29	Service Management: Integrating Strategy, Operations, and Technology
30	2517MS30	Data Mining for Business Decisions
31	2517MS31	Business Analytics
32	2517MS32	Behavioral Finance
33	2517MS33	E–Commerce
34	2517MS34	Micro, Small & Medium Enterprises Management

School of Pharmacy - Pharmaceutical Sciences

List of Domain-Specific Courses

S. No.	Course Code	Name of the Course
1	2517PY01	Modern Pharmaceutics
2	2517PY02	Regulatory Affairs
3	2517PY03	Nano Technology and Targeted Drug delivery systems
4	2517PY04	Advanced Biopharmaceutics & Pharmacokinetics
5	2517PY05	Cosmetics and Cosmeceuticals
6	2517PY06	Pharmaceutical Formulation Development
7	2517PY07	Novel drug delivery systems
8	2517PY08	Drug delivery: Principles and Engineering
9	2517PY09	Advanced Organic Chemistry
10	2517PY10	Advanced Medicinal chemistry
11	2517PY11	Chemistry of Natural Products
12	2517PY12	Pharmaceutical Process Chemistry
13	2517PY13	Scale up and Technology Transfer
14	2517PY14	Principles of Drug Discovery
15	2517PY15	Artificial Intelligence in Drug Discovery and Development
16	2517PY16	Computer Aided Drug Design
17	2517PY17	Advanced Pharmaceutical Biotechnology
18	2517PY18	Proteins and protein Formulation
19	2517PY19	Biological Evaluation of Drug Therapy
20	2517PY20	Bioinformatics and Computer Technology
21	2517PY21	Bioprocess Engineering and Technology
22	2517PY22	Microbial and Cellular Biology
23	2517PY23	Experimental Biotechnology
24	2517PY24	Immuno Technology
25	2517PY25	Modern Pharmaceutical Analytical techniques
26	2517PY26	Food Analysis

S. No.	Course Code	Name of the Course
27	2517PY27	Advanced Instrumental Analysis
28	2517PY28	Herbal and Cosmetic Analysis
29	2517PY29	Quality Control and Quality Assurance
30	2517PY30	Modern Bio-Analytical Techniques
31	2517PY31	Advanced Spectral Analysis
32	2517PY32	Interpretative molecular spectroscopy
33	2517PY33	Clinical Research
34	2517PY34	Clinical Pharmacokinetics and Therapeutic Drug Monitoring
35	2517PY35	Pharmacoepidemiology & Pharmacoeconomics
36	2517PY36	Cellular and Molecular Pharmacology
37	2517PY37	Advanced Pharmacology and therapeutics
38	2517PY38	Pharmacological and Toxicological Screening Methods
39	2517PY39	Neuro Biology
40	2517PY40	Cancer Biology
41	2517PY41	Indian system of medicine
42	2517PY42	Industrial Pharmacognostical Technology
43	2517PY43	Medicinal Plant biotechnology
44	2517PY44	Herbal cosmetics
45	2517PY45	Advanced Pharmacognosy
46	2517PY46	Regulatory Aspects of Herbal & Biologicals
47	2517PY47	Phytochemistry
48	2517PY48	Pharmacognosy & Metabolic Engineering