

**Army Institute of Technology Pune**  
**PhD Computer Engineering**  
**Course Work Syllabus**

Credit requirements, number, duration, syllabus, minimum standards for completion, etc. for the Ph.D. program shall be as under:

- 1 Ph.D. coursework shall be 16 credits.
- 2 The coursework shall be treated as a prerequisite for the Ph.D. program.
- 3 The Ph. D. Course work shall consist of the following components, namely:-

Course 1:	Research Methodology	: 4 credits
	(Including Quantitative methods, Computer applications, review of published research in the relevant field, training, fieldwork, Writing of Research Proposal for obtaining Financial assistance from national funding agencies, etc.)	
Course 2 :	Attending . at least One Seminar/Conference/ Workshop (National/International)	: 1 credit
Course 3 :	Two Subject specific advanced level courses	: 8 credits
Course 4 :	Research & Publication Ethics	: 2 credits
Course 5 :	Pedagogical Training/Industrial Visit Report/ Assessment Statement	: 1 credit
- 4 Contents of Course 1 and Course 3 above shall be prescribed by the Board of Studies concerned.
- 5 All courses prescribed for Ph.D. coursework shall be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment methods. They shall be duly approved by the Academic Council of the SPPU.
- 6 The University Department/ recognized research center at an affiliated college or recognized institution/ recognized research institution where the scholar pursues his/her research shall prescribe the course(s) to him/her based on the recommendations of the Research Advisory Committee of the research scholar. It is expected that the research center offers a course on research



methodology and the two subject-specific advanced level courses and also ensures that Ph.D. student completes these courses within two years from the date of registration. Further, a course on Publication Ethics shall be completed within the period of two years from the date of registration for Ph.D.

- 7 Candidates already holding an M.Phil. degree from SPPU and admitted to the Ph.D. program, or those who have already completed the course work in M.Phil. and have been permitted to proceed to the Ph.D. shall be exempted from the Ph.D. coursework; provided that the M.Phil. Program and admitted Ph.D. program are in the same subject. In case, M.Phil. & Ph.D. programs are different, then the candidate needs to complete Course 2, Course 3 & Course 5 mentioned in 8.3

All other candidates admitted to the Ph.D. program shall be required to pass the course work approved by the Academic Council of the SPPU by obtaining a minimum of 55% marks or its equivalent grade in the UGC 10-point scale within the initial period of two years. They will be allowed to continue the Ph.D. Course and submit their Thesis only after completing the above requirements.

- 8 Grades in the course work, including research methodology courses, shall be finalized after a combined assessment by the Research Advisory Committee and the Place of Research, and the final grades shall be communicated to the P. G. Admission Section of the SPPU.
- 9 The Research Advisory Committee can also recommend online/offline courses offered by UGC/National Agency/Moocs/SWAYAM/NPTL, etc., as part of the credit requirements for the Ph.D. program.
- 10 All Ph.D. scholars, irrespective of discipline, shall be required to train in teaching /education /pedagogy/writing related to their chosen Ph.D. subject during their doctoral period. Ph.D. scholars may also be assigned 4-6 hours per week of teaching/research assistantship for conducting tutorial or laboratory work and evaluations.

