



DEPARTMENT OF
**COMPUTER
SCIENCE**

Semester Wise Study Plan for Ph.D. (Computer Science) Program

For Graduates having MS (CS) or Equivalent Degree

PhD Computer Science Program

The Ph.D. program is designed to prepare students for a career in research. As such, it requires considerable self-directed study and independent research. The Ph.D. program is individually tailored to each student, requiring close cooperation between the student and his or her research adviser. Students are expected to identify their area of research during the first year of study, obtaining a faculty adviser who will agree to supervise the dissertation research.

The PhD program in Computer Science puts emphasis on rigorous coursework and cutting-edge research that should be published in peer-reviewed international conferences and journals. All PhD students are encouraged to tackle both coursework and research in parallel. Success in both these components is a requirement for the award of the PhD degree.

1. Eligibility Criteria

Admission procedure, eligibility, and other matters related to admission are as follows: -

- (a) **Admission Procedure.** An applicant who wishes to enter PhD program of Air University will apply to Admission Office on a prescribed form. The admission office will confirm receipt of application to the applicant, once submitted and will communicate further selection procedure to the applicant through web.
- (b) **Eligibility Criteria.** The applicant has to meet following minimum eligibility requirements.
 - (i) 18 Years MS / M Phil /Equivalent degree in the Computer Science, Information Technology and relevant areas meeting with a CGPA of at least 3.00 (on the scale of 4.00) or first division in annual system.
 - (ii) GAT Subject, with at least 60% score. GRE (general) with minimum 300 score (155 in Quantitative Reasoning, 145 in Verbal Reasoning, and 3.5/6.0 in analytical writing). (In case of non-availability of GRE/ GAT Subject due to any reason, concerned department may conduct an equivalent test based on HEC guidelines. The applicant must score 70% in this test for becoming eligible for admission.
- (c) **Statement of Purpose.** All applicants are required to submit a statement of purpose (minimum 3000 words) along with the application form, clearly writing their intended research interest and background, and preference/choice of Supervisor where applicable.

(d) **Admission Interview and Offer for Admission.** The applicant will be required to appear for an interview by the concerned department. Applicant will be communicated an Offer of Admission to the PhD program by Admission Office clearly mentioning that the applicant is a fresh applicant, readmission applicant or transfer applicant. Applicant will be required to send his written acceptance before starting the registration process.

Comprehensive Exam (CE)

- Within one semester of the completion of his/her coursework (securing a min. CGPA of 3.00/4.00), the Ph.D. student shall take the Comprehensive Examination (CE) of the Department.
- The student will have two chances to clear the CE. The student shall complete the requirement of passing the CE (availing all chances), maximum by the end of the second academic year (four regular semester) into his/her Ph.D. program.
- The student is required to obtain 60% aggregate marks and at least 50% in each subject/area. In case of failure to pass the CE in the first attempt, the complete examination is to be retaken.

2. Degree Title

The title of degree is "PhD Computer Science".

PhD Computer Science
Spring 2023 and Onwards..

3. Distribution of total credit hours

Semester	Task	Status	Credit Hours
1	Coursework*		09
2	Coursework	Continue	09
3	Comprehensive Exam+ Thesis Registration	Continue	30
4	Research Proposal + Research Proposal Defense		(Continue)
5	Research + Publication		(Continue)
6	Thesis write-up+ External Review+ Thesis Defense	If not completed	(Continue)
[7]	Extension...		(Continue)

Category or Area	Credit Hours
PhD Course Work	18 (06 Courses)
PhD Research Credits	30
Total Credit Hours	48*

*It is mandatory for a student to take the "Research Methodology" course of 1 credit hour, if he/she did not study this course during Masters. This will add one more credit and make a total of 49 credit hours.

Salman
29/11/22
AD Academics

Salman Hasan Khan
Deputy Director Academics
Air University, Islamabad

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4. Semester Wise Study Plan

S. #.	Course Code	Course Title	Credit Hours
Semester -I			
1	CS XYZ	Course work (Elective-I)	3
2	CS XYZ	Course work (Elective-II)	3
3	CS XYZ	Course work (Elective-III)	3
4	CS 710	Research Methodology*	1
Semester Cr. Hrs.			09
Semester -II			
1	CS XYZ	Course work (Elective-IV)	3
2	CS XYZ	Course work (Elective-V)	3
3	CS XYZ	Course work (Elective-VI)	3
Semester Cr. Hrs.			09
Semester -III			
1		Comprehensive Exam	
2	CS 899	Supervised Research (PhD Thesis), comprising research proposal defence and acceptance	30
Semester Cr. Hrs.			30
Semester -IV			
1	CS 899	Supervised Research (PhD Thesis), comprising research proposal defence and acceptance	Continue
Semester Cr. Hrs.			30 Thesis Credit
Semester-V			

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(DR AWAIS AHMAD)
Assistant Professor
Chair
Department of Computer Science

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1	CS 899	Supervised Research (PhD Thesis), comprising research proposal defence and acceptance	Continue
Semester Cr. Hrs.			30 Thesis Credit
Semester- VI			
1	CS 899	Supervised Research (PhD Thesis), comprising research proposal defence and acceptance	Continue
Semester Cr. Hrs.			30 Thesis Credit
Semester VII and onwards (Extension if Not Completed)			
1	CS 899	Continuation of Supervised Research (PhD Thesis), comprising research proposal defence and acceptance	Continue
Total Credits			48*

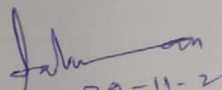
Important Notes:

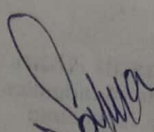
* As the choice of elective courses, all doctoral scholars may undertake at most 2 courses from other departments of the FC&AI as recommended by the Supervisor/GEC/HoD. Only relevant graduate level courses or equivalent will be counted towards the coursework requirements of PhD. A student must undertake at least three (03) courses from 800 Level.

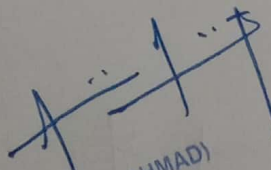
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Course Code Breakdown:

CS represents department code. The left most digit of code "X" represents the difficulty level/Year, it can be 7 or 8. The second digit of the code "Y" represents the course domain/stream. The right most digit "Z" indicates the depth of the course domain that ranges from 0 to 9.


 29-11-22
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 Assistant Professor
 Chair
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