



Foundation University  
School of Science & Technology

**PROSPECTUS 2024**

# INTRODUCING FOUNDATION UNIVERSITY ISLAMABAD SCHOOL OF SCIENCE & TECHNOLOGY (FUSST)



## EXPERIENCE THE FOUNDATION UNIVERSITY



It is a pleasure to warmly welcome you to Foundation University Islamabad (FUI). Let me take this opportunity to assure you that by choosing FUI you have opted for one of the best institutions. This is a decision you will be well proud of.

You will find yourself to be the most important person at FUI where academic processes, university activities, and pedagogical practices are all geared towards providing students the best possible learning experience. The FUI prides itself for providing a nurturing environment where diversity, critical thinking and innovative ideas are celebrated and differences respected. During your stay here, we will ensure that you get access to the best of human resource, the latest information resources, and state-of-the-art facilities.

I would expect you to be a partner in our journey towards bigger and better destination. I would urge you to gel in the large learning community, interact with the faculty and other students as much as you can and make a positive difference in the campus life, through various clubs and societies. I am sure our bond will flourish beyond the confines of your programme and we will continue to share your progress through our Alumni Association.

I wish you all the best and invite you to embark on a marvelous academic journey with us as we aspire to contribute towards the development of nation through excellence in education, research and innovation.

**Maj Gen Nasir Dilawar Shah, HI(M), (Retd)**  
Rector, Foundation University Islamabad



Welcome to Foundation University School of Science & Technology (FUSST); A true learning organization. FUSST is a comprehensive university, where we offer a fine mix of programmes from electrical and software engineering to management and social sciences subjects, encompassing an array of arts and science subjects in totality.

We have around 4500 undergraduate and graduate students in a nurturing ambiance that allows their individual intellect to bloom and flourish. We have excellent faculty who are deeply involved in their professional pursuits while keeping their scholarly work student-centered. Apart from well-defined and HEC approved curricula, we organize seminars, conferences and workshops for our students which further enhance and accelerate the class room learning. As a regular feature we invite renowned speakers (National and International) to share their experiences in thought provoking and stimulating discussions.

The staff, faculty and administration are passionately motivated to ensure that when our students graduate, they possess requisitely polished professional and life skills, nurtured talents, and are ready for a rewarding career.

I wish all our students the best of luck

**Brig. Dr. Abdul Ghafoor (Retd)**

Pro-Rector/Director, Foundation University  
School of Science & Technology



# FOUNDATION UNIVERSITY

## SCHOOL OF SCIENCE & TECHNOLOGY (FUSST)

### Mission

FUSST strives to:

- Offer the best learning experience in the domains of Engineering, Computing, Humanities, Social and Management Sciences through state-of-the-art infrastructure, research facilities and activities.
- Provide hands-on professional exposure through university-industry and global linkages.
- Promote ethical values among its community through co-curricular activities.
- Nurture a commitment to critical and academic inquiry in our learners, while fostering creative potentials, and strengthening their analytical abilities and research skills
- Address industry and community related challenges through multi-disciplinary approach

### Vision

The university aspires to be among the leading institutions of higher learning, which contributes towards development of the nation through excellence in education, research, and innovation.





“ ”

FUSST is full of possibilities, allowing you to develop your academic work alongside pretty much anything else you could possibly be interested in... it's really about realizing the University's potential as much as your own.

Rashid







# INTRODUCING FUSST

Why FUSST  
Meeting Standards  
Life at Campus

# SUPPORT FOR YOUR STUDIES

Platform for Students  
Sports  
Co/Extra Curricular  
Studies & Research

# CLUBS & SOCIETIES

Sports Society  
Green Club  
Community Service Club  
Dramatic Club  
Debating Society  
Arts and Design Club  
Entrepreneur Club  
Adventure Club

Applied Technology  
Club  
Cultural Club  
Music Club  
Character Building  
Society  
E-Gamming Club

# MORE

More Events





# APPLYING AT FUSST

How to Apply  
International Students

# OUR PROGRAMMES

Choosing What to Study  
Eligibility Criteria  
Programme Details

# WHAT IT COSTS

Fee & Funding







**RANKED AS W4 CATEGORY**

## WHY FUSST?

In line with a contemporary approach to study, work and innovation, the campus has adapted to the changing demands of global business education, engineering and social sciences. The academic is combined with practical, to develop students' personalities and confidence by providing a conducive environment to lead students towards their career goals. The strong research and market links ensure course materials to be always up-to-date and relevant to what's happening elsewhere.



## WHAT FUSST PROVIDES

- Scholarship for students
- Media House & FM Channel
- Psychology Clinic
- State of the Art Computer Labs
- Video Conferencing Facility
- University of Bedfordshire Degree in 3 + 1 progression for BBA & BS Psychology
- Highly Qualified Faculty
- Dynamic Educational Atmosphere
- Contemporary Teaching Method

## OUR ACADEMICS

- |                                   |      |
|-----------------------------------|------|
| ▪ Programmes Offered              | 30   |
| ▪ Total Students Graduated        | 8000 |
| ▪ PhD Scholars Graduated          | 55   |
| ▪ MS/M.Phil Graduated             | 520  |
| ▪ Research publications (5 years) | 750+ |
| ▪ Graduation rate of our students | 95%  |
| ▪ Seminars and Workshops per year | 50+  |

## MEETING STANDARDS

The campus places strong emphasis on professional accreditations. Courses have been designed to meet the needs of professional organizations and industry. Nearly all courses have practical components, so one will have plenty of opportunities to gain hands on experience in real life situations through case studies or practical work through state-of-the-art facilities and internships with national and multinational companies and Banks. Programmes offered at the University are mostly developed on modern lines to fulfill the future requirements of the market and industry. Books, Journals and Periodicals at the University have been selected keeping in view the needs of the scholars and researchers. Online resources have been provided in the library in collaboration with HEC for latest information. The campus also provides the students with high performance computers to work at.



I think the quality of teaching at FUSST is outstanding. . I have really benefited from the attention of my teachers and small-group tutorial learning which has driven me to work harder and learn more than I thought I could and above all I enjoyed.

**Taimoor**



## YOUR ACTIVE PARTICIPATION

Extra and Co-curricular activities are encouraged at the campus for the grooming of students. There are number of societies active at the campus including societies of Engineering, Sports, Environment, Community & Service, Dramatic, Debating, Arts and Design, Entrepreneur, Adventure, Excursion, Robotics, Music, Character Building & E-Gamming. Apart from these societies, Educational Trips are also planned regularly. Active participation of class representatives including girls is encouraged in forming various



# LIFE AT CAMPUS



## FOOD COURT

The Food Court at FUSST provides the campus community with a large selection of healthy and affordable dining options. Whether you're in a mood to relax and hang out, or buckle down and study, the food court and student cafes provide you with a unique atmosphere and menu to fit your needs.



## CULTURE

FUSST cultivates a rich culture of personal growth, exploration and independence. It offers a favorable environment to learners where they can unleash their latent potentials, and know their inner strengths and talents. The students practically learn how to work as a team and materialize their ideas by organizing and participating in national and international events. The promoted values of mutual respect, personal integrity and coexistence contribute to the positive development of students' character and transform them into responsible and helpful nationals.





# LIFE AT CAMPUS

## INFORMATION RESOURCE CENTRE (IRC)

Books, journals and periodicals for the library have been carefully selected, keeping in view the needs of scholars and researchers. Presently the Library has 20816 Books and 46, Research Journals and Magazines. The diverse collection of journals, encyclopedias and course specific books is continuously being enhanced to meet the ever changing requirements of students of various faculties. The IRC offers online resources in collaboration with HEC for latest information.



## INFORMATION TECHNOLOGY CENTRE(IRC)

Purpose-built and state-of-the-art computer labs serve the needs of the students of all disciplines. Computer skills are imparted as a core course to students of all the disciplines. The labs are well equipped to cater for the needs of beginners as well as for researchers of postgraduate level. University has recently equipped its IT labs with high performance computers.







## SPORTS

Sports play very important role in the life of students. At FUSST, students are encouraged to take part in sports activities to promote physical health and mental fitness.

FUSST believes that extra and co-curricular activities are essential to groom students. FUSST Sports Society organizes sports throughout the academic year.

### SPORTS FACILITIES

- Regular competitions between Campuses and organization of Sports Week.
- Sports facilities includes: Basketball court, Futsal area, Badminton court, Volley ball and Table tennis area, Cricket and Football Ground.

### SPORTS SOCIETY

Join a group of peers who share a common interest in recreation and sport. Sports Societies are student initiated and student-run. Sports are organized by the Student Affairs, providing opportunities for developing team-spirit and friendliness among students.



Participating in sports at FUSST benefited me in my academic life as well. It boosted my self-esteem and I learned the qualities of leadership and team spirit.

**Harris**



## STAY CONNECTED

Email us at: [info.fusst@fui.edu.pk](mailto:info.fusst@fui.edu.pk)

Or Visit Admission Office,  
FUSST, New Lalazar, Rawalpindi, Pakistan





## CO/EXTRA CURRICULAR

Extra and Co-curricular activities are encouraged at the campus for the grooming of students. The University has a number of societies like:

- Engineering Societies
- Business Club
- Arts and Dramatic Society
- Music Society
- Debating Society
- Sports Society
- Professional Forums

Apart from these societies, community work and educational trips/ tours are also planned.

## FOUNDATION VOLUNTEER CLUB

FUSST has maintained its commitment to advancing society through meaningful individual and collective participation in public service.

## ORGANIZING EVENTS

Different activities are scheduled throughout the year to provide opportunities for further development. The Event Management Society is responsible for organizing seminars, food festivals, annual dinners and many other activities under the supervision of the Student Affairs.

Your education will extend far beyond your courses. Joining extracurricular activities will complement your studies and create wonderful opportunities for friendship and learning. Student activities range in skill levels; you can pursue life-long passions or novel interests.



## WHY VOLUNTEER?

- Have a positive social impact in your local community.
- Develop valuable skills: communication, leadership and teamwork.
- Meet like-minded students.





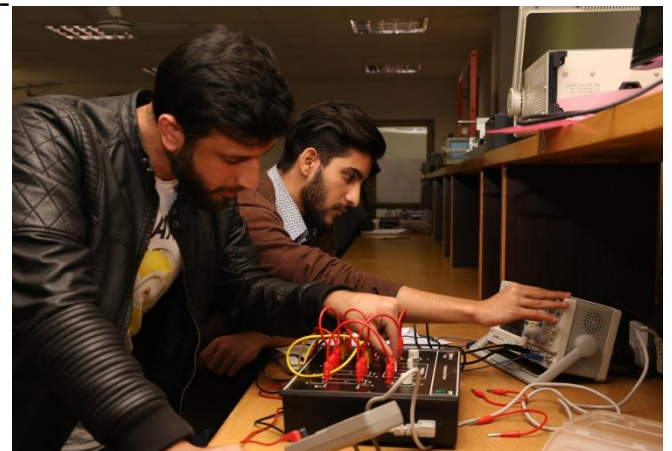
At FUSST, we expect our students to dive into academic life, get to know their professors, and pursue interests both inside and outside of the classroom. The curriculum is structured, but you will have the chance to be creative as well.

### ESSENTIAL FOR YOUR STUDIES

- Over 30 programmes being offered at the Campus
- Highly qualified Faculty
- 19 fully equipped Engineering and IT Labs
- Library with 20816 books and 46, Research Journals and Magazines
- Exceptional study and research resources

### FUSST RESEARCH CONFERENCES & JOURNALS

- Foundation University Journal of Psychology (FUJP)
- Foundation University Journal of Business & Economics (FUJBE)
- Foundation University Journal of Engineering and Applied Science (FUJEAS)
- Foundation University Business Research Conference (FUBRC)
- Foundation University Conference of Psychology (FUCP)







## INTERNATIONAL COLLABORATIONS

### University of Bedfordshire (UOB)

Foundation University Islamabad (FUI) has signed an MOU with University of Bedfordshire (UOB) UK. The salient features of the MOU include students and faculty exchange, progression arrangement, research collaboration and training. The progression arrangement is a 3+1 programme offered by University of Bedfordshire UK at undergraduate level. The students of BS programme of Software

Engineering, Psychology and Business & Technology Department shall complete their three years of education at Foundation University and the last year of their study programme at UOB. The degree is finally awarded by the UOB.

After completion of first three years at BS level programmes, the students will be assessed for their admission to UOB under the criteria agreed between both the universities.



### SUMMER CAMP

24 students of Faculty of Business and Technology attended the summer camp at UOB in September 2017. Approximately 35 students are expected to attend summer camp this year. The summer camp activities included subject related lectures, visits of London, Luton, Cambridge and Stratford.

## MORE INFO

Email us at: [info.fusst@fui.edu.pk](mailto:info.fusst@fui.edu.pk)

Admission Office, Foundation University  
School of Science and Technology, New  
Lalazar, Rawalpindi, Pakistan



**Further Details:**  
<http://fui.edu.pk>  
 Email us at:  
[info.fusst@fui.edu.pk](mailto:info.fusst@fui.edu.pk)

## SCHOLARSHIPS

### FOUNDATION PRE-ADMISSION MERIT SCHOLARSHIP

The Foundation merit scholarship shall be awarded for first semester only. From the second semester onwards, the students shall compete with other students for Merit Scholarship.

Based on Marks in F.A/ F.Sc/ A Level/ Equivalent	%age of Tuition Fee Waiver
FUSST - 85% and above (Minimum baseline)	75% Fee waiver for first-three position holders in each BS programme securing 85% or more marks in HSSC/Equivalent level for first semester

### MERIT SCHOLARSHIP

The students of undergraduate programmes achieving distinctions in university examinations will be awarded merit scholarships with minimum SGPA equal or more than 3.50 out of 4.00 and minimum 75% attendance for all disciplines under semester system.



I am extremely delighted to see that Foundation University is removing economic barriers and grateful for the opportunity to come here and learn from amazing professors and peers. FUSST is committed to ensuring that my education is affordable.

**Farhan**

### NEED BASED MERIT SCHOLARSHIP

Financial Assistant Programme is meant to provide assistance to needy talented students. The available amount is given to the deserving students after detailed working by the Financial Assistance Committees (FACs). Financial Assistance is initially granted for one academic year/semester and is revised at the end of academic year/semester.





# CLUBS & SOCIETIES

Besides academic excellence, students at FUSST are encouraged to display dynamic literary, creative, and artistic abilities and aptitude for co-curricular activities. The main objective is to provide them with opportunities to pursue their passion in the company of like-minded individuals. Head of Student Affairs is responsible for co-curricular activities at the campus. The following central clubs and societies provide students the opportunity to exhibit their talents:

- > Professional Forum
- > Arts & Literature
- > Self Development
- > Sports and Adventure
- > Community Services
- > Brain storming
- > Leadership
- > Entrepreneurship
- > Engineering
- > Volunteering

## Outside the Classrooms

Clubs and Societies are assigned to Student Affairs, who appoint Faculty Sponsors for Clubs/Societies. Faculty Sponsor must guide and help office bearers and members of the concerned Club/Society.



Self-confidence is a key to success in life. Being an active member of the Arts & Literature society. I expressed and polished my creativity here at FUSST.

**Humza**



FUSST Sports Society (FSS)	FUSST Green Club (FGC)	FUSST Literary Circle (FLC)	FUSST Community Service Club (FCSC)	FUSST Dramatic Club (FDC)	FUSST Debating Society (FDS)
FUSST Arts & Design Club (FA&DC)	FUSST Entrepreneurs Club (FEC)	FUSST Leaders Society (FLS)	FUSST Excursion Club (FEC)	FUSST Applied Technology Club (FATC)	FUSST Cultural Club (FCC)
FUSST Economics Society (FES)	FUSST Music Club (FMC)	FUSST Character Building Society (FCBS)	FUSST E-Gamming Club (FEGC)	FUSST Adventure Club (FAC)	



## OTHER EVENTS

### ALUMNI DINNER

Alumni Association of FUI aims at helping you stay in touch with your campus and other alumni, no matter wherever you are in the world. The Alumni Association - with graduates from all academic programmes at FUSST form an integral part of the University. This ever-growing body represents a rich resource base for the campus with its huge reservoir of diverse talents and expertise spanning over areas. Through this alumni body, the campus will ensure that good communication link is established amongst the alumni as well as between the alumni and the campus.

Alumni dinner was about building connections with members of our alumni community. I am so glad I met my old chaps.

**Sehar**



I have really benefited and learned from my seniors experience and sought professional advice.

**Moiz**



## GET CONNECTED

<http://alumni.fui.edu.pk>

Email us at: [alumni@fui.edu.pk](mailto:alumni@fui.edu.pk)

Foundation University School of Science and Technology, New Lalazar, Rawalpindi, Pakistan

(051) 111-384-111 [alumni@fui.edu.pk](mailto:alumni@fui.edu.pk) [www.alumni.fui.edu.pk](http://www.alumni.fui.edu.pk)



## OTHER EVENTS

### FOOD FESTIVAL

Opportunities to take part in other activities like educational trips to other cities, taking part in food festivals and debating are encouraged.

At FUSST food festival, enjoy and discover a great selection of delicious artisan producers, the tastiest street food, a stellar line-up of cooks and chefs, fabulous entertainment, and family fun.



If you have a bit more of an appetite, fill up on the many street food options. Students at FUSST bring food of all culture.

**M. Hadi**

### WELCOME THEME EVENING

During the Welcome Programme held at the beginning of each semester we welcome new students to the Foundation University.



## EVENTS INFO

Email us at: [info.fusst@fui.edu.pk](mailto:info.fusst@fui.edu.pk)

Event updates at website:

<http://fui.edu.pk>

Admission Office, Foundation University School of Science and Technology, New Lalazar, Rawalpindi.



**Foundation University**  
School of Science & Technology

[www.fui.edu.pk](http://www.fui.edu.pk)

051-5151437 - 8 (ext: 238, 222)

**Foundation University**  
School of Science and Technology  
New Lalazar, Rawalpindi, Pakistan



fuislamabad



Foundation University  
Islamabad



fuislamabad



FM 101.8



@foundationuniversityislamabad





**Foundation University**  
School of Science & Technology



## CHOOSING WHAT TO STUDY

Getting this decision right is crucial to enjoying your time at university so explore your options, even if you think you know what you want to study. Your degree course will run for three or more years and your workload will feel much lighter if you genuinely love your course. In our view, the right subject is like a good book – it should be hard to put down.

### CHOOSE YOUR INTEREST

Having a clear favorite might make this decision easy but do still check out the structure and content of the course and consider how these might differ from other universities you are applying to. Subjects at degree level can be quite different from studying them at school.

### CHOOSING A PROGRAMME?

- If you are looking for a programme that will allow you to enter directly into a specific career after graduation, our Professional programmes like Engineering, Media, Arts, and Psychology will allow you to do so.
- Evaluate your skills. How well do they match your interests? Narrow down your choices by doing research into different areas.

The vast majority of jobs do not specify the subject studied at university; all degree courses equip you with a wide range of valuable employability skills.

### CAREER OPPORTUNITIES

For example, if you are a Computing major you are being prepared for a wide range of career options that require the analytical, critical-thinking and communication skills you'll develop during computing degree. Investigate different career options and find out the educational background of people already in those positions. You'll realize that an undergraduate education gives you the skills to do so much.

## STAY IN TOUCH

You will have the chance to meet people from different walks of life at FUSST. Some will already be recognized experts in their field but many will be students like you who may go on to have significant influence in their area of interest or career. To know more about our programmes:

[Info.fusst@fui.edu.pk](mailto:Info.fusst@fui.edu.pk)



# ADMISSION REQUIREMENTS FOR UNDERGRADUATE PROGRAMMES

Below is a summary of each Programme's requirements.

Programmes	Duration	Eligibility	Test
Bachelor of Science in Electrical Engineering	8 semesters (4 years)	<ul style="list-style-type: none"> <li>F.Sc. (Pre Engineering) or Equivalent Qualification</li> <li>Minimum 60% marks</li> </ul>	FET/ETC/NAT
Bachelor of Science in Software Engineering	8 semesters (4 years)	<ul style="list-style-type: none"> <li>F.Sc. / ICS/ FA with Math or Equivalent Qualification</li> <li>Minimum 50% marks</li> </ul>	FET/ETC/NAT
Bachelor of Science in Computer Science	8 semesters (4 years)	<ul style="list-style-type: none"> <li>F.Sc. / ICS/ FA with Math or Equivalent Qualification</li> <li>Minimum 50% marks</li> </ul>	FET/ETC/NAT
Bachelor of Science in Information Engineering Technology	8 semesters (4 years)	<ul style="list-style-type: none"> <li>F.Sc. / ICS/ FA with Math or Equivalent Qualification</li> <li>Minimum 50% marks</li> </ul>	FET/ETC/NAT
Bachelor of Science in Bio Medical Engineering	8 semesters (4 years)	<ul style="list-style-type: none"> <li>F.Sc.(Pre Engineering / Pre Medical) or Equivalent Qualification</li> <li>Minimum 50% marks</li> </ul>	FET/ETC/NAT
Bachelor of Business Administration	8 semesters (4 years)	<ul style="list-style-type: none"> <li>F.Sc/ FA/ I.Com or Equivalent Qualification</li> <li>Minimum 50 % marks</li> </ul>	FET/ETC/NAT
Bachelor of Science in Accounting & Finance	8 semesters (4 years)	<ul style="list-style-type: none"> <li>F.Sc/FA/I.Com or Equivalent Qualification</li> <li>Minimum 50 % marks</li> </ul>	FET/ETC/NAT
Bachelor of Science in Psychology	8 semesters (4 years)	<ul style="list-style-type: none"> <li>FA/FSc or Equivalent Qualification</li> <li>Minimum 45 % marks</li> </ul>	FET/ETC/NAT
BS Media & Communication	8 semesters (4 years)	<ul style="list-style-type: none"> <li>FA/FSc or Equivalent Qualification</li> <li>Minimum 45 % marks</li> </ul>	FET/ETC/NAT
Bachelor of Computer Arts	8 semesters (4 years)	<ul style="list-style-type: none"> <li>FA/FSc or Equivalent Qualification</li> <li>Minimum 50 % marks</li> </ul>	FET/ETC/NAT
BS English (Language & Literature)	8 semesters (4 years)	<ul style="list-style-type: none"> <li>FA/FSc or Equivalent Qualification</li> <li>Minimum 45 % marks</li> </ul>	FET/ETC/NAT
BS Tourism and Hospitality	8 semesters (4 years)	<ul style="list-style-type: none"> <li>FA/FSc or Equivalent Qualification</li> <li>Minimum 45 % marks</li> </ul>	FET/ETC/NAT
BS Aviation Management	8 semesters (4 years)	<ul style="list-style-type: none"> <li>FA/FSc or Equivalent Qualification</li> <li>Minimum 45 % marks</li> </ul>	FET/ETC/NAT

# ADMISSION REQUIREMENTS FOR GRADUATE PROGRAMMES

Below is a summary of each Masters (MS) and Doctoral (PhD) programme requirements.

Programmes	Duration	Eligibility	Test
MS (Computer Science)	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years of education in BSCS/BCSE/BSSE or relevant subject.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 60% marks in case of annual system is required.</li> <li>• The university may recommend deficiency courses after considering the educational background.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS (Information Security)	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years of education preferably with 4 years degree programme of BS (SE/CS/IT/EE/CE) in science/engineering discipline.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 60% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS (Software Engineering)	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years of education in BS (SE/CS/IT/CE) or relevant subject.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 60% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS (Artificial Intelligence)	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years of education in BS (SE/CS/IT/CE/EE) or relevant subject.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 60% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS Electrical Engineering	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years of education leading to BS/BE degree or equivalent in Electrical/ Electronic/ Computer/ Telecom Engineering or related disciplines.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 60% marks in case annual system.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS Management Science	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years equivalent degree duly recognized by HEC.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 50% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MBA	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years equivalent degree duly recognized by HEC.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 50% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS Finance	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years equivalent degree duly recognized by HEC.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 50% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS Economics	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years equivalent degree duly recognized by HEC.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 50% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>



MS Engineering Management	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16-year equivalent engineering degree duly recognized by HEC and PEC. Or 16-year equivalent technology-based degree (Undergrad degree in Software Engineering, Computer Science, IT, Bio-Informatics, Management Information Systems, BS Tech, Etc.) duly recognized by HEC.</li> <li>• Minimum 2.0 CGPA in prior degree or equivalent.</li> <li>• Minimum 2 years of industrial experience after undergraduate.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS Psychology	2 – 4 years	<ul style="list-style-type: none"> <li>• BS/MSc (Psychology) or Equivalent with Minimum 2.50 CGPA, for Annual System 60% marks (1st division)</li> <li>• NTS /University entry test with minimum Aggregate score of 60.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS Media Science	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years of education in Mass Communication, Journalism or related discipline.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 50% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>
MS English (Linguistics/ Literature)	1.5 - 4 years	<ul style="list-style-type: none"> <li>• 16 years of education in relevant subject.</li> <li>• A minimum CGPA 2.0 out of 4.0 or 45% marks in case of annual system is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (G)</li> <li>• Interview</li> </ul>

### PHD PROGRAMMES

Programmes	Duration	Eligibility	Test
Ph.D. Computer Science	3-8 years	<ul style="list-style-type: none"> <li>• 18 years equivalent degree in relevant discipline duly recognized by HEC.</li> <li>• Min CGPA 3.0 out of 4.0 is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (S)</li> <li>• Interview</li> <li>• Research proposal</li> </ul>
Ph.D. Management Science	3-8 years	<ul style="list-style-type: none"> <li>• 18 years equivalent degree in business or relevant discipline duly recognized by HEC.</li> <li>• Min CGPA 3.0 out of 4.0 is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (S)</li> <li>• Interview</li> <li>• Research proposal</li> </ul>
Ph.D. Psychology	3-8 years	<ul style="list-style-type: none"> <li>• 18 years equivalent degree in relevant discipline duly recognized by HEC.</li> <li>• Min CGPA 3.0 out of 4.0 is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (S)</li> <li>• Interview</li> <li>• Research proposal</li> </ul>
PhD English (Literature)	3-8 years	<ul style="list-style-type: none"> <li>• 18 years equivalent degree in relevant discipline duly recognized by HEC.</li> <li>• Min CGPA 3.0 out of 4.0 is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (S)</li> <li>• Interview</li> <li>• Research proposal</li> </ul>
PhD English (Linguistics)	3-8 years	<ul style="list-style-type: none"> <li>• 18 years equivalent degree in relevant discipline duly recognized by HEC.</li> <li>• Min CGPA 3.0 out of 4.0 is required.</li> </ul>	<ul style="list-style-type: none"> <li>• FET/ETC/GAT (S)</li> <li>• Interview</li> <li>• Research proposal</li> </ul>

**Note: Students with non-research based prior degrees cannot apply for Ph.D.**

# Department of Software Engineering

## ABOUT DEPARTMENT

The Department of Software Engineering at Foundation University School of Science & Technology is amongst the pioneers in the country to start formal software engineering programme. We aim to produce graduates with state of the art skills in the computing domain who could conveniently align themselves with industry, government or entrepreneurial endeavors to demonstrate professional advancement hence becoming an asset for nation. In all these academic engagements we make extra efforts to inculcate ethical and moral values among students. Our alumni and students are making novel and innovative contributions in academia and professional industry across the globe. All the programmes in the department are duly accredited by National Computing Education Accreditation Council (NCEAC) and HEC Pakistan.



## MISSION OF THE DEPARTMENT

- To educate and train the student in Software Engineering and Computer Science for analysis, design and implementation of high-quality Software Systems.
- To educate the students in problem solving, mathematical computation and communication skills.
- To educate students on general and professional ethics for being a responsible citizen.
- To inspire creative inquiry and research to foster personal and professional development of the students so that they can work both independently and as a part of team for the betterment of society.





# BS COMPUTER SCIENCE BSCS 4 YEARS



## LEARNING OUTCOME

- Apply concepts and techniques from computing
- Perform well in at least one programming language
- Training to analyze problems
- Design, implement, and evaluate large software systems
- Individual and team work
- Effective communication

## CAREER OPPURTUNITIES

Every industry uses computers, so naturally computer scientists can work in any discipline. Problems in science, engineering, health care, and so many other areas can be solved by computers. It's up to the computer scientist to figure out how, and design the software to apply the solution. Graduates of such programmes will be able to function as proficient software

developers and effective team members. FUSST graduates have strong foundation in communication, mathematics and science, with understanding of issues related to the development of high quality software systems.

## MORE DETAILS

**Apply at:** [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/faculty-se/bscs>

### Semester 1

CSC1991	Introduction to Information and Communication Technology	3 (2+1)
CSC1011	Programming Fundamentals	4 (3+1)
ENG1002	English Composition and Comprehension	3 (3+0)
MTH1001	Calculus and Analytical Geometry	3 (3+0)
PHY1002	Applied Physics	3 (3+0)

### Semester 3

CSC2011	Computer Organization & Assembly Language	4 (3+1)
CSC2031	Data Structures & Algorithms	4 (3+1)
CSC2031	Discrete Structures	3 (3+0)
SEN3071	Professional Practices	3 (3+0)
-	CS Supporting – 1	3

### Semester 2

CEN1011	Digital Logic Design	4 (3+1)
CSC1012	Object Oriented Programming	4 (3+1)
ENG1011	Communication & Presentation Skills	3 (3+0)
STT2001	Probability and Statistics	3 (3+0)
-	University Elective-I	3

### Semester 4

CSC2032	Design & Analysis of Algorithms	3 (3+0)
CSC2041	Theory of Automata	3 (3+0)
CSC2022	Database Systems	4 (3+1)
MTH2021	Linear Algebra	3 (3+0)
-	University Elective – 2	3

Semester 5			Semester 6		
CSC3101	Compiler Construction	3 (3+0)	CSC3051	Artificial Intelligence	4 (3+1)
CSC3111	Operating Systems	4 (3+1)	CSC3124	Computer Networks	4 (3+1)
SEN1001	Introduction to Software Engineering	3 (3+0)	ENG3021	Technical & Business Writing	3 (3+0)
-	CS Supporting – 2	3	-	CS Elective – 1	3
-	CS Supporting – 3	3	-	CS Elective – 2	3

Semester 7			Semester 8		
CSC4998	Final Year Project – I	3 (0+3)	CSC4999	Final Year Project – II	3 (0+3)
CSC4001	Parallel & Distributed Computing	3 (3+0)	CSC4123	Information Security	3 (3+0)
HUM1002	Pakistan Studies	2 (2+0)	HUM4001	Islamic Studies/ Ethics	2 (2+0)
-	CS Elective – 3	3	-	CS Elective – 5	3
-	CS Elective – 4	3	-	University Elective – 4	3
-	University Elective – 3	3			

## FROM A CS STUDENT



The Computer Science programme at Foundation University is outstanding in such a way that it has prepared me for my current position as a Senior consultant IoT/ Big data with Deloitte North/South Europe. The curriculum was designed according to the market needs. I admire the unique learning atmosphere at Foundation University. The learning is so much fun! You feel like a part of the close-knit team, where the professors and your peers are always ready to support and guide you. The conceptual clarity I received during the programme helped me in achieving various cloud and big data related certifications and progressing my career in various multinational companies with distinction

**Mouzzam**



## STUDY ABROAD

FUI also gives opportunity for student to get degree of University of Bedfordshire (UoB), UK. Students will complete first three years of Bachelor of Computer Science (BSCS) in FUI and will proceed to UoB for completion of the fourth year of their education.

For more information visit: <http://furc.fui.edu.pk/index.php/uob>



# BS SOFTWARE ENGINEERING BSSE 4 YEARS



## LEARNING OUTCOME

- Analyze and resolve information technology problems through systematic approaches.
- Engineering Knowledge
- Problem Analysis
- Design/Development of Solutions
- Fluency in at least one programming language
- Make, implement, and evaluate large software systems.

## CAREER OPPURTUNITIES

Software Engineering being the sub-discipline of computer science develops high quality software systems in a systematic, controlled and efficient manner. Graduates of such programmes will be able to function as proficient software developers and effective team members. The domain of software engineering is defining the new dimensions of research and

development beyond conventional computer sciences areas and has remarkable future in telecom, media, real estate, web, automated industry, business, medical and other industries.

## MORE DETAILS

**Apply at:** [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/faculty-se/bcse>

### Semester 1

CSC1991	Introduction to Information & Communication Technologies	3 (2+1)
CSC1011	Programming Fundamentals	4 (3+1)
ENG1002	English Composition & Comprehension	3 (3+0)
MTH1001	Calculus & Analytical Geometry	3 (3+0)
HUM1002	Pakistan Studies	2 (2+0)
PHY1002	Applied Physics	3 (3+0)

### Semester 2

CSC1012	Object Oriented Programming	4 (3+1)
ENG1011	Communication & Presentation Skills	3 (3+0)
CSC2031	Discrete Structures	3 (3+0)
SEN1001	Introduction to Software Engineering	3 (3+0)
HUM1001	Islamic Studies	2 (2+0)
-	University Elective - I	3

### Semester 3

CSC2031	Data Structures & Algorithms	4 (3+1)
SEN2011	Software Requirement Engineering	3 (3+0)
CSC2061	Human Computer Interaction	3 (3+0)
MTH2021	Linear Algebra	3 (3+0)
-	University Elective - II	3

### Semester 4

CSC3111	Operating Systems	4 (3+1)
CSC2022	Database Systems	4 (3+1)
SEN2021	Software Design & Architecture	3 (2+1)
STT2001	Probability and Statistics	3 (3+0)
-	University Elective - III	3

### Semester 5

SEN3062	Software Construction and Development	3 (2+1)
CSC3124	Computer Networks	4 (3+1)
ENG3021	Technical and Business Writing	3 (3+0)
-	SE Supporting –I	3
-	SE Supporting –II	3

### Semester 6

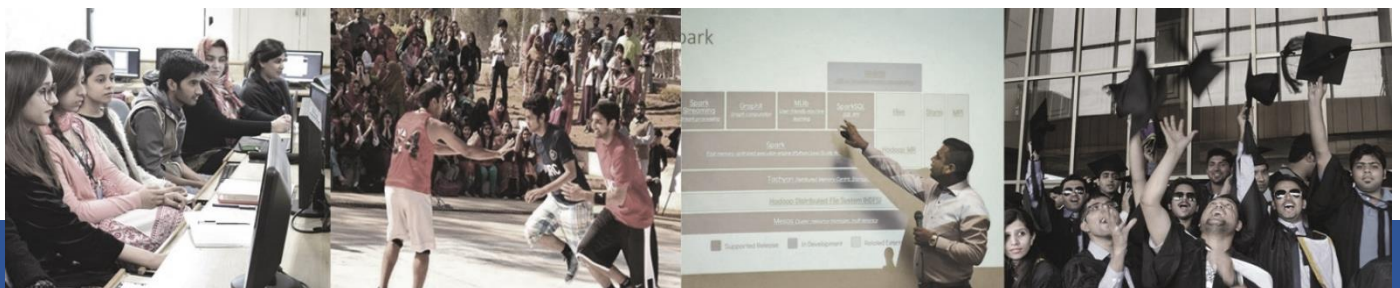
SEN3032	Software Quality Engineering	3 (3+0)
CSC4123	Information Security	3 (3+0)
SEN3071	Professional Practice	3 (3+0)
CSC3081	Web Engineering	3 (3+0)
-	SE Elective – I	3
-	SE Supporting - III	3

### Semester 7

SEN4998	Final Year Project - I	3 (0+3)
SEN4051	Software Project Management	3 (3+0)
SEN4991	Software Re-Engineering	3 (3+0)
-	SE Elective -II	3
-	SE Elective - III	3

### Semester 8

SEN4999	Final Year Project - II	3 (0+3)
-	SE Elective – IV	3
-	SE Elective – V	3
-	University Elective - IV	3



## STUDY ABROAD

FUI also gives opportunity for student to get degree of University of Bedfordshire (UoB), UK. Students will complete first three years of Bachelor of Science in Software Engineering (BSSE) in FUI and will proceed to UOB for completion of the fourth year of their education.

For more information visit: <http://furc.fui.edu.pk/index.php/uob>



# BSC. INFORMATION ENGINEERING TECHNOLOGY 4 YEARS



## INTRODUCTION

The Bachelor of Science in Information Engineering Technology programme is accredited by the National Technology Council (NTC) Pakistan. The curriculum of BS (IET) is practice-oriented and designed to actualize the synergy of technologists for improvement of

industrialization culture. It is an industry-focused programme with supervised industrial training, hands-on industrial assignments that provide theoretical and practical knowledge and skills. The graduates of the programme can be employed in diverse domains and can work as a network manager and administrator, project

manager, applications developer, test & integration manager, & technologist in business applications etc.

## MORE DETAILS

**Apply at:** [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
More details about the programme at: <http://fui.edu.pk>

### Semester 1

HUM4001	Islamic Studies/ Professional Ethics	2
MTH1001	Calculus & Analytical Geometry	3
ENG1002	English Comprehension	3
CEN1001	Programming Fundamentals	4
CSC1991	Introduction to Computer Technology	1
-	Discrete Structures	3

### Semester 2

-	Computer Networking Technologies	3
-	Database System	3
-	Digital Logic Design	3
-	Object Oriented Programming	4
-	Probability and Statistics	3
-	Pakistan Studies	2

### Semester 3

-	Introduction to Artificial Intelligence	3
-	Modern Language Programming	3
-	Data Structures and Algorithms	3
-	Introduction to Cyber Security	3
-	Introduction to Data Science	3
-	Linear Algebra	3

### Semester 4

-	Mobile App Development I	3
-	Operating System Principles	3
-	Theory of Automata & Compilers	3
-	Introduction to Web Technologies	3
-	Advanced Database Mangmnt System	3
-	Introduction to Marketing	3

### Semester 5

-	Elective-II (Group-A/ Group-B)	3
-	Computer Networks	3
-	Database Systems	3
-	Entrepreneurship	3
-	Elective-III (Group-A/ Group-B)	3
-	Assembly Language Programming	3

### Semester 6

-	Emerging Software Engineering Technologies	3
-	Technology Project	6
-	Computer Graphics	3
-	Communication Skills	3
-	Technical And Business Writing	3

### Semester 7

-	Supervised Industrial Training	16
---	--------------------------------	----

### Semester 8

-	Supervised Industrial Training	16
---	--------------------------------	----

# MS COMPUTER SCIENCE 1.5 - 4 YEARS



## INTRODUCTION

The Master of Science in Computer Science is a highly technical programme and therefore presumes previous experience in Computer Science. The core courses provide an advanced understanding of theoretical and applied computer science, which allows the student to begin exploring the specialization areas. It prepares the students for advanced positions in

the industry and research.

The MS (Computer Science) comprises of both course work as well as research component. The programme consists of four core courses and a specialization track of Four to Five courses.

The department offer optional courses depending upon the specialization(s) of available faculty.

## SPECIALIZATION CLUSTER

- Artificial Intelligence
- Multimedia
- Future Networks
- Signal Processing
- Pattern Recognition
- Information Security and Forensics
- Software Engineering
- Data Science
- Web Technologies

### Semester 3

- Core-I 03
- Core-II 03
- Elective-I 03

### Semester 2

- Core-III 03
- Core-IV 03
- Elective-II 03
- CSC 6001 Research Methodology 01

### Semester 3

- Elective-III 03
- CSC Thesis / Elective Course 7099 06 / 03

### Semester 3

- Elective-IV 03
- CSC Thesis / Project 7099 06 / 03

## MORE DETAILS

### Apply at:

[admissions.fui.edu.pk](mailto:admissions.fui.edu.pk)

### Course detail:

<http://furc.fui.edu.pk/index.php/faculty-se/mssc-course>

### List of Core courses of the programme is:

1. CSC6301 - Advanced Analysis of Algorithms
2. CSC6201 - Advanced Operating Systems
3. CSC6321 - Theory of Programming Languages
4. CEN6401 - Advanced Computer Architecture

The university may recommend deficiency courses after considering the educational background of the student.



# MS INFORMATION SECURITY 1.5 - 4 YEARS



## INTRODUCTION

MS in Information Security aims to develop core competencies in the fields of computer networks security, application security, and information security management. The students will learn the technical aspects of information security by understanding current threats and vulnerabilities and examining ways of developing effective countermeasures.

## OBJECTIVE

The main aim of this programme is to fulfill the growing national need of well trained professionals to work in a wide range of roles to protect Information Systems in all types of organizations, including research and academia. Moreover, the programme is aimed to produce skilled people who are able to contribute towards the need of protecting national information infrastructure from all kinds

of threats. Skilled persons will also be able to play an effective role in international efforts to make the cyberspace safe, secure and reliable for the national and international community.

## MORE DETAILS

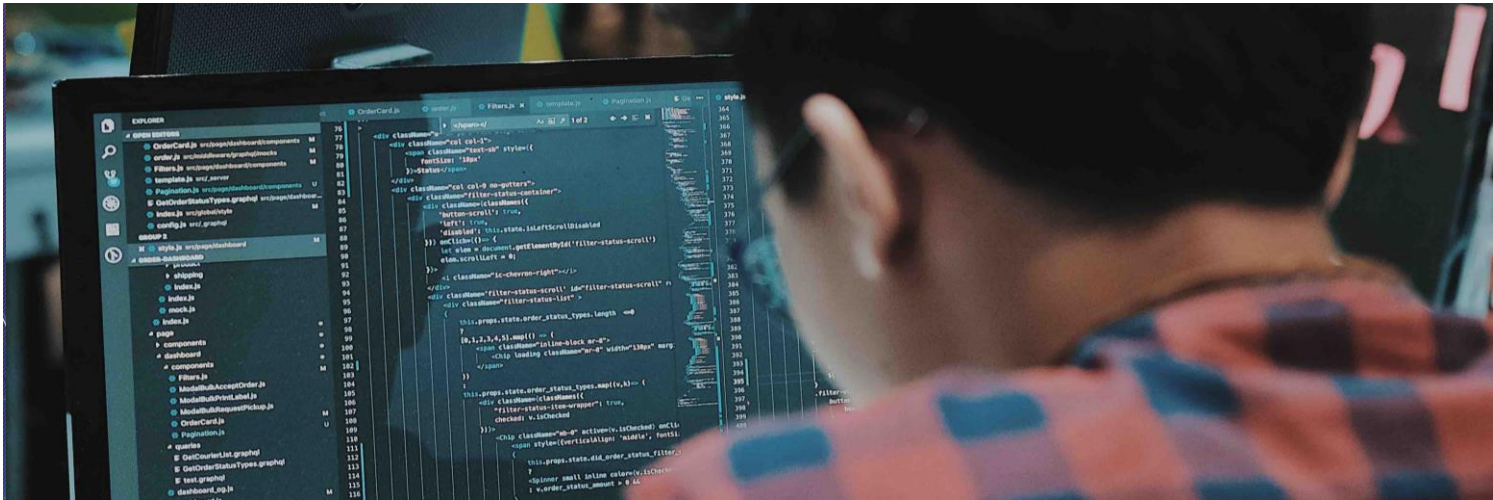
Apply at:  
**admissions.fui.edu.pk**  
 Course detail:  
<http://furc.fui.edu.pk/index.php/faculty-se/ms-information-security>  
 (+92)-51-5151437

Semester 1		Semester 2	
- Core-I	03	- Core-III	03
- Core-II	03	- Elective-II	03
- Elective-I	03	- Elective-III	03
		CSC 6001	Research Methodology 01
Semester 3		Semester 4	
- Elective-IV	03	- Elective-V	03
CSC 7099	Thesis / Elective Course 06 / 03	CSC 7099	Thesis / Project 06 / 03

### List of Core courses of the programme is:

1. CSC6301 - Advanced Analysis of Algorithms
2. CSC6074 - Information Privacy and Security
3. CSC6034 - Cryptography

# MS SOFTWARE ENGINEERING 1.5 - 4 YEARS



## INTRODUCTION

MS in Software Engineering will inculcate in the students a deep understanding of the software engineering methodologies and practices, emerging technologies, and its application in various industries. Global demand for software engineers has been on the rise and is expected to grow in the next decade.. It is the need of the hour to bring more dynamics in the department and be at parallel with other IT institutions.

## SCOPE

U.S. Bureau of Labor Statistics data shows that there will be a job growth of 24% for software engineers upto 2026. Students with a master's degree in software engineering can gain the skills and tools needed to solve complex problems by using computers as well as develop skills which enable them to be effective team leaders in the workplace. Participating in this type of coursework will give you access to a wide range of

computing career choices like software engineer, computer and information system manager, database administrator, and computer network architect.

## MORE DETAILS

Apply at:  
[admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
 Course detail:  
<http://furc.fui.edu.pk/index.php/faculty-se/ms-software-engineering>  
 (+92)-51-5151437

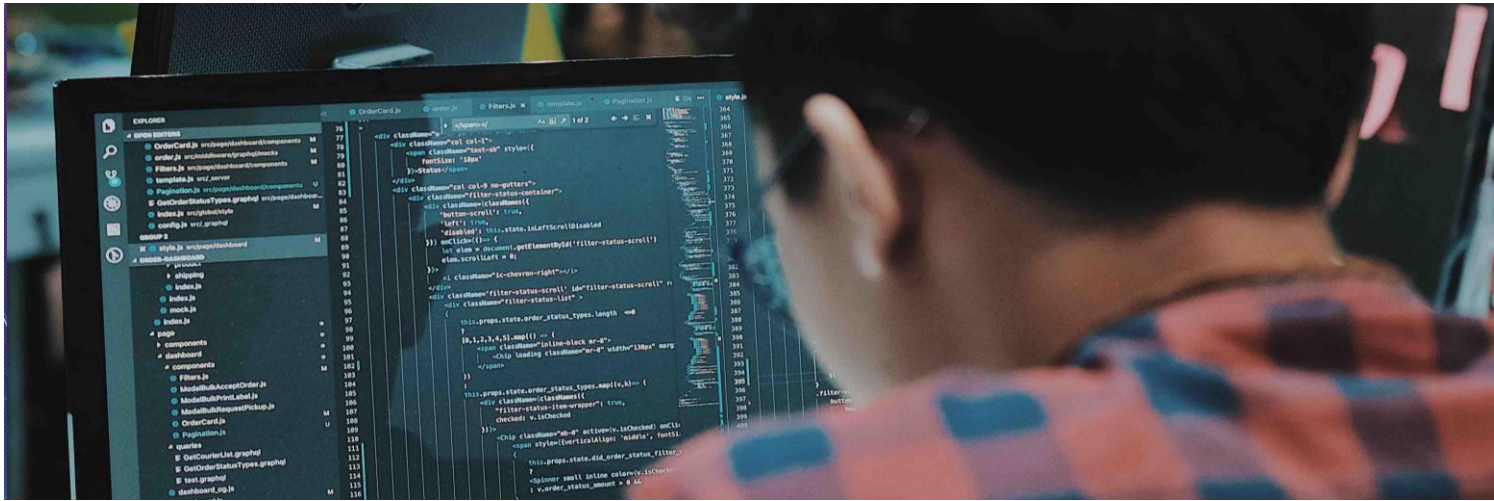
Semester 1		Semester 2	
- Core-I	03	- Core-III	03
- Core-II	03	- Elective-II	03
- Elective-I	03	- Elective-III	03
		CSC 6001	Research Methodology 01
Semester 3		Semester 4	
- Elective-IV	03	- Elective-V	03
CSC 7099	Thesis / Elective Course 06 / 03	CSC 7099	Thesis / Project 06 / 03

### List of Core courses of the programme is:

1. SEN 6013 - Advanced Requirements Engineering
2. SEN 6014 - Advanced Software System Architecture
3. SEN 6015 - Software Testing and Quality Assurance



# MS ARTIFICIAL INTELLIGENCE 1.5 - 4 YEARS



## INTRODUCTION

The decision-making in businesses today demands the skills in analysis of history databases and automated-expert assistance to ensure uniformity, preciseness, and intelligence in decisions at electronic pace. The programme is designed to equip students to transform data into actionable insights to make complex business decisions. The students will have the opportunity to understand and analyze a problems and arrive at computable solutions. The student shall work to incorporate rational intelligence in automated decisions.

In addition, the students will be exposed to the set of technologies of artificial intelligence that will lead the market in the coming decades. The importance of practical knowledge and hands-on experience will be addressed via training on AI tools, data-centric tools, robotic tools, vision tools, visualization and big data applications at the same rigorous scale as in a practical data science project.

## SCOPE

The job opportunities within the AI field are steadily growing and they will increase in the future as well. This can be a good time to enroll yourself in Artificial

Intelligence courses as the possibilities can be endless with a degree relevant to the field of AI. Here are some of the most common jobs related to artificial intelligence:

- Machine Learning Engineer
- Data Scientist
- Data Architect
- AI Engineers
- AI Programmer

If you're interested in pursuing a path in artificial intelligence then this might be the perfect time to enroll in an artificial intelligence programme. The possibilities are endless and it offers you a chance to look beyond the boundary.

### Semester 1

- Core-I	03
- Core-II	03
- Elective-I	03

### Semester 2

- Core-III	03
- Elective-II	03
- Elective-III	03
CSC 6001 Research Methodology	01

### Semester 3

- Elective-IV	03
CSC 7099 Thesis / Elective Course	06 / 03

### Semester 4

- Elective-V	03
CSC 7099 Thesis / Project	06 / 03

## MORE DETAILS

Apply to:  
[admissions.fui.edu.pk](mailto:admissions.fui.edu.pk)  
 Course detail:  
<http://fui.edu.pk/FURC/index.php/faculty-se/ms-artificialintelligence>  
 (+92)-51-5151437

### List of Core courses of the programme is:

1. Advanced Artificial Intelligence
2. Machine Learning
3. Advanced Analysis of Algorithms

# PH.D. COMPUTER SCIENCE 3-8 YEARS



## INTRODUCTION

The Doctor of Philosophy in Computer Science is a research intensive degree. The students learn the rigors of research and develop an ability to carry out independent research. The programme provides the students with an exposure to a variety of domains during the coursework part of the degree. The students are expected to produce an original and peer-reviewed thesis towards the culmination of the degree.

## AREA OF SPECIALIZATION

- Data Mining
- Data Warehousing
- Artificial Intelligence
- Remote Sensing
- Robotics
- Operation Research
- Web Services
- Machine Learning
- Multimedia Processing
- Digital Image Processing
- Medical Imaging
- Information and Communication Security
- Natural Language Processing

Ph.D. coursework comprises 6 courses (total 18 credit hours). A non-credit course "Research Methodology" must also be passed; unless already studied during MS coursework.

## MORE DETAILS

Apply at:  
[admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
 Course detail:  
<http://furc.fui.edu.pk/index.php/faculty-se/phd-course>  
 (+92)-51-5151437

## Ph.D.(CS) PROGRAMME SEMESTER WISE

Duration	Min	Max
	6 Semesters (3 years)	16 Semesters (8 years)
Graduation Requirement	36 Credits	
Min CGPA/Pass	3	
Intake	Spring and Fall (Twice a year)	
Schedule	Evening	
Category	Credits	
Required Courses/ Elective Courses	18	
Thesis	18	
<b>Total Credit Hours</b>	<b>36</b>	



# Department of Electrical Engineering

## ABOUT DEPARTMENT

The Department of Electrical Engineering at FUSST with its inherent strength of profound traditions is offering engineering education to undergraduate students while grooming them as clear communicators and morally sound members of the society since 2013. Our programmes are accredited by regulatory bodies that include Pakistan Engineering Council (PEC), National Technology Council (NTC) and recognized by the Higher Education Commission (HEC). The department is well known for its high-quality teaching in different areas of Electrical, Electronics and Communication Engineering. The department offers BS in Electrical Engineering, BS in Biomedical Engineering Technology and MS in Electrical Engineering.



## MISSION OF THE DEPARTMENT

Our mission is to provide excellent quality education in the field of Electrical Engineering and train students in problem solving, communication skills, ethics, and research so that they can work both independently and as a part of team for the betterment of society.

## FUI VISION

The university aspires to be among the leading institutions of higher learning, which contributes towards development of the nation through excellence in education, research and innovation



# BS ELECTRICAL ENGINEERING BSEE 4 YEARS



## LEARNING OUTCOME

- Engineering Knowledge
- Problem Analysis
- Design/Development of Solutions
- Investigation
- Modern Tool Usage
- Environment and Sustainability
- Individual and Teamwork
- Project Management
- Lifelong Learning
- The Engineer and Society
- Ethics

## CAREER OPPORTUNITIES

Professionals with Electrical Engg. skills are in great demand all over the world. Electrical Engg. can contribute towards a remarkable future in Telecommunication, Electronics and Electrical disciplines. Graduates of Electrical Engg. have been gainfully employed in the public sector (PTCL, NESCOM, etc.) and private sector specially telecom companies like

(Mobilink, Ufone, Zong and Warid etc.) as well as other industrial enterprises. It has been gratifying to see that our graduates are making a substantial contribution in the development of Engineering Sector in Pakistan & abroad.

## MORE DETAILS

**Apply at:** [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/ee-programs/bsee>

### Semester 1

- Functional English
- Calculus and Analytical Geometry
- Linear Circuit Analysis
- Introduction to Computing
- Islamic Studies
- Applied Physics

### Semester 2

- Differential Equation
- Natural Sciences Electives-I
- Workshop Practice
- Pakistan Studies
- Programming Fundamental
- Electronic Devices and Circuit

### Semester 3

- Complex Variable and Transform
- Communication Skills
- Digital Logic Design
- Engineering Drawing
- Computing Elective
- Electrical Network Analysis

### Semester 4

- Humanities and Social Science Electives-I
- Linear Algebra
- Introduction to Embedded System
- Probability Method in Engineering
- Signal and System

### Semester 5

- Electrical Machines
- Electromagnetic Field Theory
- Communication System
- Digital Signal Processing
- IDEE-1

### Semester 6

- Technical Writing
- Humanities and Social Sciences Electives-II
- Electronics circuit design
- Instrumentation and measurement
- Linear Control Systems

### Semester 7

- Management Elective-I
- Power generation, transmission and distribution
- Computer Communication Networks
- Power Electronics
- Final Year Project-I

### Semester 8

- Management Science Elective-II
- Power system analysis and protection
- Technical Elective
- Final Year Project-II



# BSC. BIOMEDICAL ENGINEERING TECHNOLOGY 4 YEARS



## INTRODUCTION

Biomedical Engineering Technology is a multidisciplinary field that combines biology and engineering for solving problems related to medicine and healthcare. Biomedical Technologists are frequently required for installing, adjusting, maintaining, operating and providing technical support for biomedical equipment. In addition, they are also involved in developing

biomedical devices such as artificial internal organs, replacements for body parts and machines for diagnosing medical problems.

## EDUCATIONAL OBJECTIVES

- Demonstrate technical proficiency at workplace.
- Adapt with the advancements and latest trends in the field
- Work both independently and as a member of team

## MORE DETAILS

**Apply at:** [admissions.fui.edu.pk](http://admissions.fui.edu.pk)

**More details about the programme at:**

<http://furc.fui.edu.pk/index.php/ee-programs/bs-biomedical>

### Semester 1

- Basic Biology
- Basic Mathematics
- Applied Physics
- Applied Chemistry
- Computer Applications
- Technical Drawing
- Functional English

### Semester 2

- Applied Mathematics-1
- Biochemistry
- Physiology-1
- Human Anatomy
- Electrical Technology Fundamentals
- Workshop Practice-1

### Semester 3

- Applied Mathematics-II
- Biophysics
- Circuit Analysis
- Physiology-II
- Communication Skills & Technical Report Writing
- Pakistan Studies

### Semester 4

- Workshop Practice-II
- Basic Electronics
- Digital Logic Technology
- Biomedical Instrumentation –I
- Biomechanics

### Semester 5

- Biomedical Electronics
- Economics and Healthcare Management
- Microprocessors & Microcontrollers
- Biomedical Instrumentation-II
- Professional Practices & Medical Ethics
- Entrepreneurship

### Semester 6

- Telemedicine
- Medical Imaging
- Biomedical Control System
- Rehabilitation Techniques
- Human Psychology
- Islamic Studies/Ethics

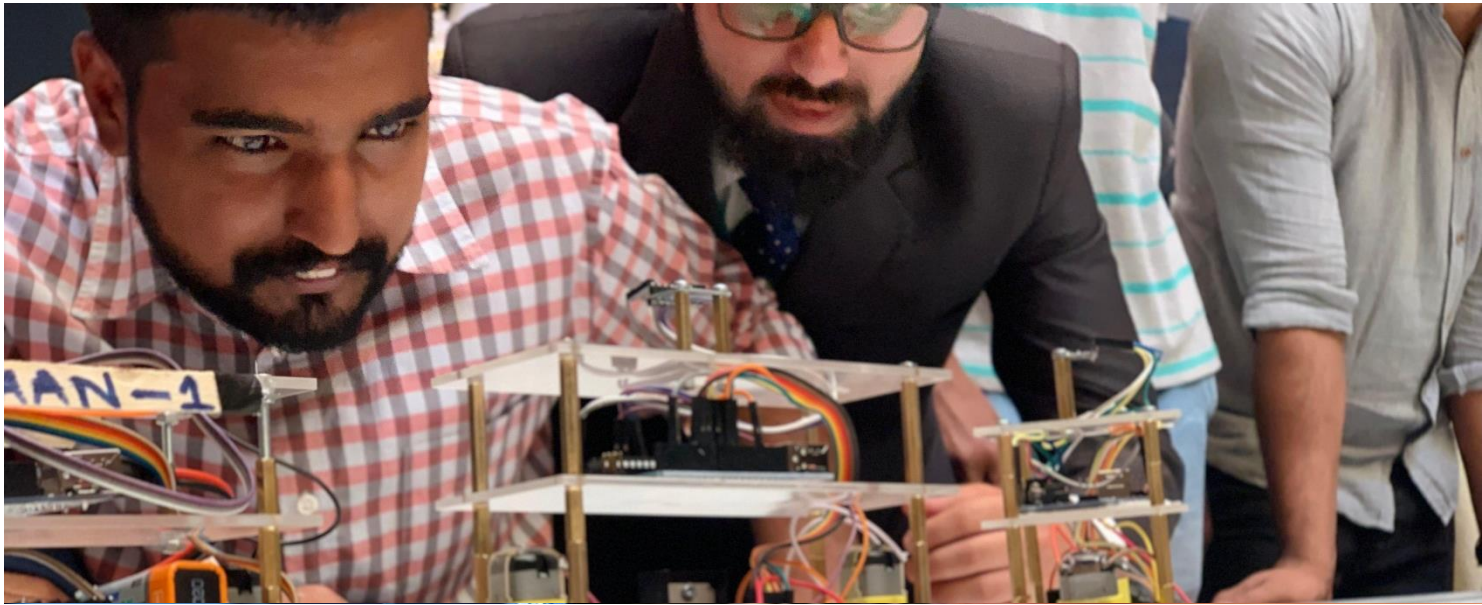
### Semester 7

- Supervised Industrial Training (continued)
- Technical Project (continued)
- Social Entrepreneurship

### Semester 8

- Supervised Industrial Training
- Technical Project

# MS ELECTRICAL ENGINEERING 1.5 - 2 YEARS



## INTRODUCTION

The degree provides professional training in Electrical Engineering to enhance expertise of existing and future Electrical Professionals through a curriculum that incorporates technical knowledge along with professional skills and stance necessary to function in academic, industries and applied setting. Through this programme, a research-led

students work with leading researchers to develop the skills required becoming Electrical professionals or conducting further research as Ph.D. students.

## SCOPE

Electrical Engineering being one of the core fields of engineering is always evergreen in terms of scope and job prospects. Electricity has become the basic need for survival, globally. As such electrical engineers find their utility in plants, communication and satellite

maintenance and running of industrial plants, communication and satellite navigation systems and domestic electronic equipment. Electrical Engineering equips the learner with the knowledge of electrical circuit design, digital electronics, instrumentation and control system, modern telecommunication, and signal processing. The work builds on individual interests in a wide variety of subject matter so they can look for career in Industries like: Research, Academics, Professional consultant in creative industries and Human-centered/ Information Design Industries etc.

## Minimum Credit Requirements

Semester	Classification	Credit hours
1	Coursework three courses	9
2	Coursework three courses	9
3	Coursework two courses and Synopsis Presentation	6
4	Research work commences formally and Research submission/additional coursework two courses	6

Electives will be offered from [attached outline](#). However, new courses can be added after approval of concerned statutory bodies of the university.

## MORE DETAILS

Apply at:  
[admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
Course detail:  
<http://furc.fui.edu.pk>  
(+92)-51-5151437



# Faculty of Management Sciences

## ABOUT FACULTY

The Foundation University, Faculty of Management Sciences (FMS) provides state-of-the-art business education in Pakistan. The commitment of the faculty and the staff, and above all adherence to standards of academic excellence, have contributed immensely to the faculty's enviable reputation. Graduates of our faculty are placed in leading multinational corporations, national/international corporate sector, government institutions, academia and various well reputed conglomerates. At FMS, strong focus is laid on academic excellence by ensuring Outcome Based Education. Students are not only given cognitive understanding of the subject area they learn; rather specific focus is laid on the development of their overall skills.

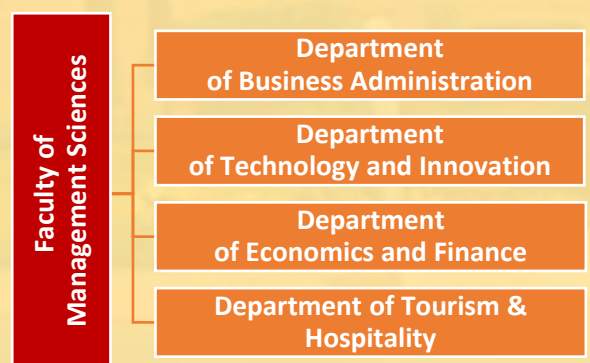


## MISSION OF THE DEPARTMENT

- To provide an opportunity to students to understand and comprehend 'Management' (as a knowledge area) and sub disciplines
- To ensure that students can apply the acquired knowledge to real world situations through better skills building
- To ensure that students develop analytical, synthesis and evaluation skills for further studies, research and professional purpose



## FACULTY STRUCTURE



# Department of Business Administration

## ABOUT DEPARTMENT

The Department of Business Administration is the flagship department of Faculty of Management Sciences. The Department's intellectual resource is the dynamic mix of faculty, in terms of socio-cultural and professional backgrounds, along with international and national academic/corporate exposure. Verily, the journey of progress is marked by vibrant history, leadership development, induction of PhD qualified faculty, elevation of research outcome, National Business Education Accreditation Council (NBEAC) accreditation, as well as placement of our graduates at various recognized positions in Pakistan and abroad. Noticeably, our graduates have secured major positions in National Incubation Centre competitions, have won seed money up to PKR 8.5 Million for business ideas, dozens have launched their own successful Start Ups, participated in social responsiveness activities aligned with Sustainable Development Goals of UNO. Faithfully and feasibly, the Department is committed to lay down a foundation for the business-minded youth to foster a progressive, peaceful, and prosperous future.



## MISSION OF THE DEPARTMENT

- To impart quality education for understanding and comprehension of business administration.
- To remain committed to the attainment of application based learning environment.
- To prepare graduates with analytical, synthesis and evaluation skill.





# BACHELORS OF BUSINESS ADMINISTRATION BBA 4 YEARS



## OBJECTIVES

- To provide an opportunity to students to understand and comprehend Business Administration as a knowledge area.
- To ensure that students can apply the acquired knowledge to real world situations through better skills building.
- To ensure that students develop analytical, synthesis and evaluation skills for further studies, research, and professional purpose.

## CAREER OPPORTUNITIES

The scope of management courses is increasing day by day. After completing your degree, you have great job opportunities in the industrial world. In the management sector you can serve as sales and marketing executive, system analyst, human resource officer etc. Some popular Job Profiles are Finance Manager, Business Administration Researcher, Human

Resource Manager, Research and Development Manager, Business Consultant, Information Systems Manager, Marketing Manager. Option for higher studies is also available for BBA graduates.

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/programs-be/bbah>

### Semester 1

ENG1001	English I	3
MSC1900	Introduction to Computer Application	3
MSC1100	Principle of Management	3
HUM1001	Islamic Studies	2
SOC2101	Sociology	3

### Semester 2

ENG1002	English II	3
MSC1500	Principles of Marketing	3
MSC1000	Business Mathematics	3
MSC1400	Principles of Accounting	3
HUM1002	Pakistan Studies	2

### Semester 3

MSC2001	Oral Communication	3
MSC2200	Principles of Microeconomics	3
MSC2401	Financial Accounting	3
MSC2501	Marketing Management	3
MSC2002	Introduction to Statistics	3

### Semester 4

MSC2402	Business Finance	3
MSC2901	Management Information System	3
MSC2003	Business Communication	3
MSC2004	Statistical Inference	3
MSC2101	Business Ethics	3
MCO3001	Anthropology	3

Semester 5			Semester 6		
MSC3403	Management Accounting	3	-	Foreign Language I	3
MSC3201	Principles of Macroeconomics	3	MSC3008	Business Research Methods	3
MSC2102	Organizational Behavior	3	MSC3404	Financial Management	3
PSY2101	Psychology	3	MSC3103	Business and Company Law	3
MSC3300	Human Resource Management	3	MSC3600	Production and Operations Managements	3
MSC3007	Personal and professional development	3	MSC3005	Community Work	1
			MSC3006	Internship	2
Semester 7			Semester 8		
MSC3700	Project Management	3	MSC4104	Business Policy	3
MSC4800	Entrepreneurship	3	MSC4105	International Business	3
MSC4202	Issues in Pakistan Economy	3	MSC4801	Critical Thinking and Logic	3
MSC4106	Seminar in Business Studies	3		Elective 2	3
	Foreign Language II	3		Elective 3	3
	Elective 1	3	MSC4009	Project UG	3

## FROM A BUSINESS STUDENT



My experiences as both an undergraduate and graduate student in Foundation University Department of Management Sciences prepared me well for my role in the entire industry. Studying Business at FUSST helped me develop the critical thinking skills I use each day when making recommendations to management regarding the financial implications of attracting new customers, developing new products, or utilizing new business strategies.

**Hamza**

## STUDY ABROAD

FUI also gives opportunity for student to get a foreign degree through student exchange programmes. Get more information: [info.fusst@fui.edu.pk](mailto:info.fusst@fui.edu.pk)



# MASTER IN BUSINESS ADMINISTRATION MBA



## OBJECTIVES

- To provide an opportunity for students to Understand and comprehend the fundamentals of 'Business Administration' as a knowledge area.
- To ensure that students can apply the acquired knowledge to real world situations through better skill building.
- To ensure that students develop basic analytical, synthesis and evaluation skills for 'Business Administration' (in general) or for further research.

## AREA OF SPECIALIZATION

- Human Resource Management
- Finance
- Marketing

## MORE DETAILS

Apply at:  
**admissions.fui.edu.pk**  
 Course detail:  
**<http://furc.fui.edu.pk/index.php/programs-be/mba1p5>**  
 (+92)-51-5151437

## MBA - FOR BUSINESS STUDENTS

Semester 1			Semester 2		
MSC5000	Research Methodology	3	MSC5200	Managerial Economics	3
MSC5400	Strategic Finance	3	MSC5100	Strategic Management	3
MSC5500	Strategic Marketing	3	-	Elective 2	3
-	Elective 1	3	-	Elective 3	3
Semester 3					
MSC6002	Project PG / Two Electives/	6			
MSC6003	MBA Thesis				

## MBA - FOR NON BUSINESS STUDENTS

### Semester 1 (Deficiency Courses)

MSC2401	Financial Accounting	3
MSC1500	Principles of Marketing	3
MSC1100	Principles of Management	3
MSC2003	Business communication	3
MSC1000	Business Mathematics	3

### Semester 2 (Deficiency Courses)

MSC4203	Business Economics	3
MSC3300	Human Resource Management	3
MSC3403	Management Accounting	3
MSC2901	MIS	3
MSC2402	Business Finance	3

### Summer Semester

MSC5001	Quantitative Techniques	3
MSC5100	Strategic Management	3

### Semester 3

MSC5000	Research Methodology	3
MSC5400	Strategic Finance	3
MSC5500	Strategic Marketing	3
	Elective 1/specialization	3

### Semester 4

MSC5200	Managerial Economics	3
-	Elective 2	3
MSC6003	Thesis/	6
MSC6002	Project/	
-	Two elective courses	



# MS MANAGEMENT SCIENCE 1.5 - 2 YEARS



## INTRODUCTION

Management science (MS), is the broad interdisciplinary study of problem solving and decision making in human organizations, with strong links to management, economics, business, engineering, management consulting, and other sciences. It uses various scientific research-based principles, strategies, and analytical methods including mathematical

modeling, statistics and numerical algorithms to improve an organization's ability to enact rational and accurate management decisions by arriving at optimal or near optimal solutions to complex decision problems. In short, management sciences help businesses to achieve goals using various scientific methods.

## SPECIALIZATION AREA

- Human Resource Management
- Finance
- Marketing
- Project Management
- Supply Chain Management

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
 Course detail:  
<http://furc.fui.edu.pk/index.php/programs-be/msms>  
 (+92)-51-5151437

## MS - FOR BUSINESS STUDENTS

### Semester 1

MSC6107	Advanced Management	3
MSC5000	Research Methodology	3
-	Elective 1	3
-	Elective 2	3

### Semester 2

MSC6004	Quantitative and Qualitative Methods	3
	Electives 3	3
	Electives 4	3
	Electives 5	3

### Semester 3

MSC6005	MS Thesis/ Two elective courses	6
---------	------------------------------------	---

## MS - FOR NON BUSINESS STUDENTS

### Semester 1 (Deficiency Courses)

MSC2401	Financial Accounting	3
MSC1500	Principles of Marketing	3
MSC1100	Principles of Management	3
MSC2003	Business communication	3
MSC1000	Business Mathematics	3

### Semester 3

MSC6107	Advanced Management	3
MSC5000	Research Methodology	3
MSC6407	Advanced Financial Management	3
	Elective 1	3

### Semester 5

MSC6005	MS Thesis/ Two elective courses	6
---------	------------------------------------	---

### Semester 2 (Deficiency Courses)

MSC4203	Business Economics	3
MSC3300	Human Resource Management	3
MSC3403	Management Accounting	3
MSC2901	MIS	3
MSC2402	Business Finance	3

### Semester 4

MSC6004	Quantitative and Qualitative Methods	3
MSC6511	Advanced Marketing Management	3
MSC6304	Advanced Human Resource Management	3
	Elective 2	3



# PH.D. MANAGEMENT SCIENCE 3-8 YEARS



## INTRODUCTION

The PhD programme provides high quality management education to business scholars i.e. to discover and impart culturally and globally relevant knowledge in management sciences. The programme is designed to discover management scholarship which is intellectually rigorous, morally intensive, socially integrative, culturally relevant and globally acknowledged. PhD scholars will be

## SPECIALIZATIONS

- Human Resource Management
- Finance
- Marketing
- Project Management
- Supply Chain Management

encouraged to carry out original work through research which connects strongly with resolving local, national and global challenges of significance.

The PhD programme requires candidates to take six graduate level courses (18 Cr. hrs.). On completion of the coursework, students are required to pass a qualifying comprehensive examination, defend their research proposal and then carry out research in the chosen area.

Note: Specializations in Ph.D. programme are completely dependent on the thesis (research work) and course work. The supervisor and the BOF decides the student's Area of Specialization from the above-mentioned areas.

In addition to the requirements of the university students must cater to the following important rules for completion of their PhD degree:

- a. Students with incomplete course work cannot register for research thesis and neither can they opt for research proposal defense.
- b. At max, student can appear two times for the Qualifying Exam (DQE), PhD Proposal Defense, Final Defense.
- c. Student must follow the DQE guidelines provided separately.
- d. All PhD students must maintain a CGPA of 3.5 throughout their PhD degree. It is important to note that students cannot register for research hours if their CGPA in their course work is < 3.5.

## Course Requirement

Mandatory	Electives	Thesis	Total
6 credit hrs.	12 credit hrs.	30 credit hrs.	48 credit hrs.

## MORE DETAILS

Apply at:  
**admissions.fui.edu.pk**  
 Course detail:  
**http://furc.fui.edu.pk/index.php/programs-be/phdms**  
 (+92)-51-5151437

# Department of Economics And Finance

## ABOUT DEPARTMENT

The Foundation University Islamabad, Department of Economics and Finance aspires to provide apprentices the theoretical and practical skills needed to understand and analyze economic, financing and investment decisions in the business world.

In order to accomplish the challenges of dynamic and accelerating industry and education sector, the department has selected an ingenious, active and committed community of teachers, researchers and staff. At department, strong focus is laid on academic excellence by ensuring Quality Education. Students are not only given cognitive understanding of the subject area they learn: rather exclusive efforts are made to prepare them for the demands of the global business environment.



## MISSION OF THE DEPARTMENT

- To impart quality education for understanding and comprehension of economics and finance.
- To remain committed to the attainment of application-based learning environment.
- To prepare graduates with analytical, synthesis and evaluation skills



# BS ACCOUNTING & FINANCE BS 4 YEARS



## LEARNING OUTCOME

- To provide an opportunity to prospective students to understand and comprehend matters related to Accounting, Finance, Audit, Taxation and Banking.
- To ensure that students can apply the acquired knowledge to real world situations through better skills building.

personal, social, and organizational issues.

- To ensure that students develop analytical, synthesis and evaluation skills; generally required by organizations for starting career positions in accounting, finance, audit, taxation and banking.

An accountant can get bookkeeper, financial, audit, tax, internal audit jobs, accounting manager, payroll jobs etc. in multinational and national accounting firms in Pakistan.

## CAREER OPPORTUNITIES

There are many areas in which accountancy students may specialize.

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/progef/baf>

### Semester 1

ENG1001	English I	3
MSC1900	Introduction to Computer Application	3
MSC1100	Principle of Management	3
HUM1001	Islamic Studies	3
SOC2101	Sociology	3

### Semester 2

ENG1002	English II	3
MSC1500	Principles of Marketing	3
MSC1000	Business Mathematics	3
MSC1400	Principles of Accounting	3
HUM1002	Pakistan Studies	3

### Semester 3

MSC2001	Oral Communication	3
MSC2200	Principles of Microeconomics	3
MSC2401	Financial Accounting	3
MSC2901	Management Information System	3
MSC2002	Introduction to Statistics	3

### Semester 4

MSC2402	Business Finance	3
MSC3403	Management Accounting	3
MSC2003	Business Communication	3
MSC2004	Statistical Inference	3
MSC2101	Business Ethics	3
	Internship	-



### Semester 5

MSC4405	Business Taxation	3
MSC3201	Principles of Macroeconomics	3
MSC3404	Financial Management	3
MSC4407	Financial Institutions & Markets	3
MSC3300	Human Resource Management	3
-	General Elective 1 (Language)	3

### Semester 6

MSC4408	Corporate Governance	3
MSC3008	Business Research Methods	3
MSC4409	Financial Reporting	3
MSC3103	Business and Company Law	3
MSC4413	Security Analysis	3
	General Elective 2	3
	Internship	-

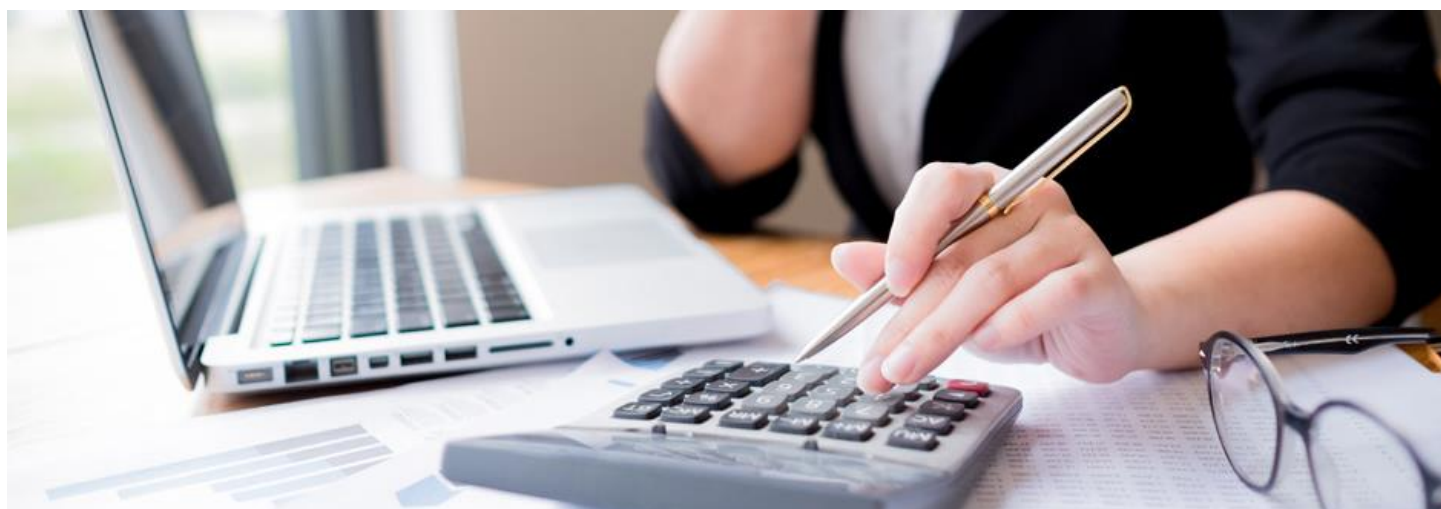
### Semester 7

MSC4410	Auditing & Assurance	3
MSC4800	Entrepreneurship	3
MSC4202	Issues in Pakistan Economy	3
MSC4430	Seminar in Business Finance	3
	Elective 1	3
	Elective 2	3

### Semester 8

MSC4801	Critical Thinking & Logic	3
MSC4418	Financial Modeling	3
MSC4416	International Finance	3
	Elective 3	3
	Elective 4	3
MSC4009	Project UG	3

# MS FINANCE 1.5 - 2 YEARS



## OBJECTIVE

- To provide an opportunity to students to understand and comprehend 'Finance' as a knowledge area.
- To ensure that students can apply the acquired knowledge to real world situations through better skills building.
- To ensure that students develop analytical, synthesis and

evaluation skills for better 'Financial Management' (in general) or for further research.

## SCOPE

There are good number of students in Pakistan who do not have access to good quality education relevant to the field of 'Finance'. Since the degree offers specialization, therefore in the modern global arena, a wide range of employment and academic

opportunities exists for such graduates (specialists).

**SPECIALIZATION(S): Finance**

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/progef/msaf>

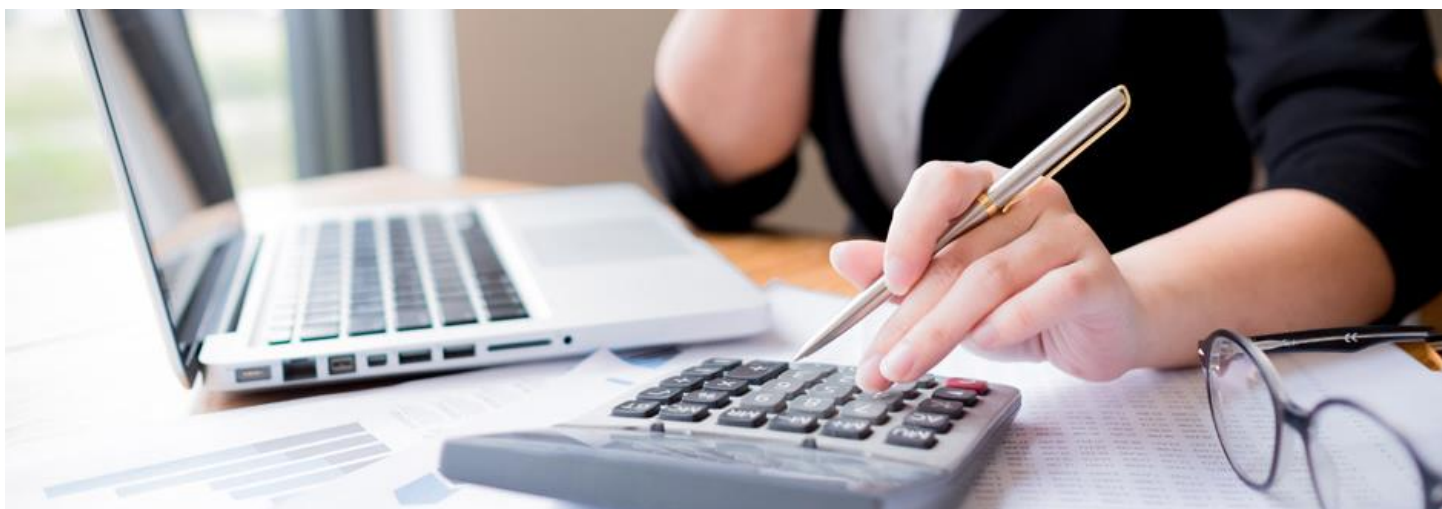
## Equivalence:

- 16 years for students with non-business background if earned credits in degree are 30.
- 18 years for students with non-business background if earned credits in degree are 60 or more.
- 18 years for students with business background if earned credits in degree are 30 or more.

## Minimum Credit Requirements

	Mandatory	Specialization	Electives	Thesis	Total
Credit Requirement for Students with Business Background with Thesis	9	9	6	6	30
Credit Requirement for Students with Business Background without Thesis	3	15	12	0	30
Credit Requirement for Students with Non- Business Background with Thesis	18	15	21	6	60
Credit Requirement for Students with Non- Business Background without Thesis	12	21	27	0	60

# MS ECONOMICS 1.5 - 2 YEARS



## OBJECTIVE

- To provide an opportunity to students to understand and comprehend 'Economics' as a knowledge area.
- To ensure that students can apply the acquired knowledge to real world situations through better skills building.
- To ensure that students develop analytical, synthesis and

evaluation skills for 'Economics' (in general) or for further research.

## SCOPE

There are good number of students in Pakistan who do not have access to good quality education relevant to the field of 'Economics'.

Since the degree offers specialization, therefore in the modern global arena, a wide range of employment and

academic opportunities exists for such graduates (specialists).

**SPECIALIZATION(S):** Economics

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/progef/mse>

## Equivalence:

- 18 years for students with non-economics background if earned credits in degree are 60 or more.
- 18 years for students with economics business background if earned credits in degree are 30 or more.

## Minimum Credit Requirements

	Mandatory	Specialization	Electives	Thesis	Total
Credit Requirement for Students with Economics Background with Thesis	12	9	3	6	30
Credit Requirement for Students with Economics Background without Thesis	12	15	3	0	30
Credit Requirement for Students with Non-Economics Background with Thesis	30	15	9	6	60
Credit Requirement for Students with Non- Economics Background without Thesis	30	21	9	0	60



# Department of Technology & Innovation

## ABOUT DEPARTMENT

The Foundation University, department of Business Administration provides state-of-the-art business education in Pakistan. The commitment of the faculty and the staff, and above all adherence to standards of academic excellence, have contributed immensely to the faculty's enviable reputation. Graduates of our faculty are placed in leading multinational corporations, national/international corporate sector, government institutions, academia and various well-reputed conglomerates. At the department, strong focus is laid on academic excellence by ensuring Quality Education. Students are not only given cognitive understanding of the subject area they learn; rather specific focus is laid on the development of their overall skills. The department has more than ample resources (both physical and human resources) to carry out all operational and academic activities with ease.



## MISSION OF THE DEPARTMENT

- To impart quality education for understanding and comprehension of technology and innovation
- To remain committed to the attainment of application-based learning environment.
- To prepare graduates with analytical, synthesis and evaluation skills



# BS AVIATION MANAGEMENT 4 YEARS

Aviation is a  
**Path,** the  
destination is  
**sky.**



## OBJECTIVES

- To impart quality education in the field of Aviation
- To provide an opportunity to students to understand and comprehend Aviation Management as a knowledge area.
- To ensure that students can apply the acquired knowledge to real

world situations through better skills building.

To ensure that students develop analytical, synthesis and evaluation skills for further studies, research, and professional purpose.

## CAREER OPPORTUNITIES

The scope of aviation management courses is increasing day by day. Aviation Management graduate can be employed in diverse domain of airline

and airports. They can work as an airline and airport manager. Moreover, they can provide aviation consultancy, aviation regulator and safety services.

Total Credit hours: 126

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/bsth>

### Semester 1

- History of Flight
- ICAO Aviation English
- Intro to Computing
- Elementary Physics
- Principles of Management
- English Composition

### Semester 2

- Navigation & Flight Planning
- Meteorology
- Mathematics
- Communication Skills
- Islamic Studies
- Principles of Marketing

### Semester 3

- Aero-engines
- Human Resource Management
- Aircraft Communication
- Pak Studies
- Business Communication

### Semester 4

- Safety Management System in Aviation
- Aircraft General Knowledge
- Risk Management in Aviation
- Management Information System
- Statistics

### Semester 5

- Essentials of Aviation Managements
- Airport Planning & Designing
- Pakistan Economy
- Microeconomics
- Organizational Behavior

### Semester 6

- Airspace Management in Pakistan
- Business and Corporate Aviation
- Business Ethics
- Managerial Leadership
- Macro Economics

### Semester 7

- Managing Airline Aviation Project Management
- Principles of Quality Management
- Business Research Methodology-I
- Internship Report / Thesis

### Semester 8

- Human Factors and Performance in Aviation
- Airline and Airport Economics
- Operation Management
- Business Research Methodology-II
- Internship Report / Thesis

# MS ENGINEERING MANAGEMENT 1.5 - 2 YEARS



## OBJECTIVES

- To provide an opportunity to students to understand and comprehend Engineering Management as a knowledge area.
- To ensure that students can apply the acquired knowledge to real world situations through better skills building.
- To ensure that students develop analytical, synthesis and evaluation skills for better 'Engineering Management' (in general) or for further research.

## SPECIALIZATION AREA

- Engineering Management
- Quality Management
- Construction Management
- Information Management / Knowledge Management
- Telecom Management
- Manufacturing Management
- Supply Chain Management
- Project Management
- Technology Management
- Software Management / Information Systems

## SCOPE OF PROGRAMME

There are good number of students in Pakistan who do not have access to good quality education relevant to the field of 'Engineering Management'. Since the degree offers specialization, therefore in the modern global arena, a wide range of employment and academic opportunities exists for such graduates (specialists).

Note: To earn a specialization, student has to take 9 credits from the same cluster.

## Minimum Credit Requirements

	Mandatory	Specialization	Electives	Thesis	Total
Credit Requirement with Thesis	18	0	6	6	30
Credit Requirement without Thesis	12	0 to 9	9 to 18	0	30

## MORE DETAILS

Apply at:  
**admissions.fui.edu.pk**  
 Course detail:  
<http://furc.fui.edu.pk/index.php/programs-bt/msemmenu>  
 (+92)-51-5151437



# Department of Tourism & Hospitality

## ABOUT DEPARTMENT

The Foundation University, department of Tourism & Hospitality strives to impart knowledge and training of the highest standard in the field of T & H. The Tourism & Hospitality department also provides students with a sound foundation in emerging trends in Tourism and Hospitality. To optimize practical learning and ensure that our graduates remain relevant in the job market; the deptt focuses on Industry-academia linkages (IAL). The department belief that knowledge has no value unless it is shared and provides solutions to the ever-emerging societal needs. The department has more than ample resources (both physical and human resources) to carry out all operational and academic activities with ease.



## MISSION OF THE DEPARTMENT

- To impart quality education for understanding and comprehension of tourism and hospitality.
- To remain committed to the attainment of application based learning environment.
- To prepare graduates with analytical, synthesis and evaluation skill.



# BS TOURISM & HOSPITALITY 4 YEARS



## OBJECTIVES

- To enhance students awareness of the growing importance of the Tourism & Hospitality industry to our society, nation and the world.
- To develop the appropriate knowledge, values and skills that supports the development of the industry.
- To develop the ability to apply the

knowledge and skills they acquire from the subject to a wide range of contexts, and gain pre-employment experience in selected sectors of the industry.

## CAREER OPPORTUNITIES

The skill that you procure inside a tourism & hospitality management programme can be applied to several including diverse segments in the industry, Travel & Transportation, Lodging, Food Services, Recreation

and Entertainment. Some of the jobs directly related to a BS (4 Year) degree in tourism & hospitality include (but not limited to):

- Hotel manager, Resort manager, Restaurant manager.
- Front desk officer, F & B Manager. Catering & Event Manager/planner.
- Public relation officer, Human resource officer
- Tour Manager/Guide

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/bsth>

### Semester 1

ENG1001	English I	3
HUM1002	Pakistan Studies	2
MSC1000	Business Math	3
MSC1100	Principles of Management	3
TNH1000	Cultural History of Pakistan	3
TNH1100	Introduction to Tourism & Hospitality	3

### Semester 3

MSC2001	Oral Communication	3
TNH2102	Tourism: Concepts & Principles	3
SOC2101	Sociology	3
MSC4504	Consumer Behavior	3
TNH2102	Cultural Tourism	3

### Semester 2

ENG1002	English II	3
MSC1900	Introduction to Computer applications	3
TNH1001	Introduction to Archaeology	3
PSY2101	Psychology	3
HUM1001	Islamic Studies	2
TNH1101	Pakistan-Tourism Destinations	3

### Semester 4

MSC2002	Introduction to Statistics	3
TNH2104	Hospitality Operations	3
MSC2200	Principles of Microeconomics	3
TNH2105	House Keeping Operations and Management	3
TNH2106	Event Management	3
TNH2107	Culinary Art	3

### Semester 5

TNH3108	Tourism Management	3
TNH3109	Tourism and Hospitality Laws	3
TNH3200	Front Office Operations and Management	3
TNH3201	Travel and Tour Operations	3
TNH3202	Tourism Marketing	3

### Semester 6

MSC3008	Research Methods	3
MSC3700	Project Management	3
TNH3203	Religious Tourism	3
TNH3204	Sport and Adventure Tourism	3
TNH3205	Heritage Management	3

### Semester 7

TNH4206	Restaurant Management	3
TNH4207	Hotel and Restaurant Accounting	3
TNH4300	Tourism Planning and Development	3
TNH4208	Sustainable Tourism	
TNH4209	Food & Beverages Management	3
MSC4009	Project PG	3

### Semester 8

TNH4210	Seminar in Tourism & Hospitality	3
TNH4211	Emerging Trends in Tourism and Hospitality	3
TNH4301	Tourism Risk and Disaster Management	3
TNH4302	Destination Branding	3
TNH4303	Global Tourism	3

Note: internship of 4-6 weeks with credit hours (02) is mandatory in the Second/Third year during semester breaks/summer vacations to gain practical experience and to provide exposure to the students in the field of Tourism & Hospitality.



# Department of Psychology

## ABOUT FACULTY

The Department of Psychology at FUSST aspires to be a nationally recognized leader in undergraduate, graduate, and postgraduate education, where students, scholars, and faculty establish close collaborations to learn the scientific principles of behaviour and mental processes, to make significant contributions to the science and practices in the fields of Psychology and Clinical Psychology, and to produce professionals who serve the local, national, and global communities.

The department is particularly proud of the fact that it has grown to offer programmes at the graduate and post graduate levels and has now also launched PhD programme to contribute scholarship of the highest standard to the academic arena.



## OBJECTIVES

This program serves as a basic foundation for higher education in Psychology. The program is designed on the HEC's recommended guidelines and comprises of 8 semesters. Students are offered diversified major and elective subjects to enable them to have a remarkable understanding of the vast applications of Psychology in their prospective professional lives. In addition, students are offered minor courses in Education as a complement to the Psychology major. The minor in Education will broaden the student's interdisciplinary skills, expand their knowledge, and teach them skills in a field distinct from psychology. This will in turn, enhance the students' marketability, boost their resume, and allow them to explore their interest in a different field.

# BS PSYCHOLOGY BS 4 YEARS



## LEARNING OUTCOME

Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology. They will be able to use critical and creative thinking, skeptical inquiry and scientific approach to solve problems, related to behavior and mental processes. Moreover, students will understand and apply psychological

personal, social, and organizational issues.

## CAREER OPPORTUNITIES

The scope of Psychology is ever increasing in Pakistan with increasing interest, passion, devotion and dedication. Now there is a large range of professions available in the field of Psychology out of which the most preferred one for most people immediately after completing their

education would be joining the Armed Forces of the country or some other government organization that uses the services of a psychologist to test the aptitude.

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/programs-psy/bspsy>

## Keys:

G = General Education Courses  
 I = Interdisciplinary/ Allied Courses  
 D = Disciplinary/ Major Courses  
 M = Minor Courses

### Semester 1

GER1200	Functional English (G)	3
GER1300	Quantitative Reasoning-I(G)	3
GER2601	Biology (G) (Natural Sciences)	3
PSY1201	Schools & Perspectives in Psychology (D)	3
GER2401	Ideology & Constitution of Pakistan (G)	2

### Semester 2

GER1201	Expository Writing (G)	3
GER1100	Applications of Information & Communication Technology (G)	3
GER1301	Quantitative Reasoning-II(G)	3
PSY1202	Applied Areas of Psychology (D)	3
PSY1203	Theories of Personality (D)	3
GER2400	Islamic Studies (G)	2



### Semester 3

GER2714	Fundamentals of Sociology (G) (Arts & Humanities)	2
PSY2204	Abnormal Psychology (D)	3
PSY2205	Cognitive Psychology (D)	3
PSY2301	Organizational Psychology (I)	3
PSY2206	Health Psychology (D)	3
GER2800	Entrepreneurship (G)	2

### Semester 4

PSY2207	Social Psychology (D)	3
PSY2208	Ethical Issues in Psychology (D)	3
PSY2209	Experimental Psychology + Lab Experiments (D)	3
PSY2210	Positive Psychology (D)	3
PSY2211	Fundamental Research Methods in Psychology (D)	3
GER-2402	Civics & Community Engagement (G)	2

### Semester 5

PSY3212	Psychological Assessment+ Practical (D)	3
PSY3213	Advanced Research Methods in Psychology (D)	3
PSY3214	Statistics in Psychology (D)	3
PSY3215	Developmental Psychology (D)	3
PSY3216	Psychopathology-I (D)	3
PSY3302	Personal and Professional Development (I)	3

### Semester 6

PSY3217	Psychopathology-II(D)	3
PSY3303	Environmental Psychology (I)	3
PSY3218	Neurological basis of Behavior (D)	3
PSY3304	Human Resource Management (I)	3
PSY3219	Data Analysis using SPSS (D)	3
PSY3401	Teaching & Learning Skills (M)	3

### Semester 7

PSY4220	Gender Psychology (D)	3
PSY4221	Clinical Psychology-I (D)	3
PSY4222	Guidance and Counseling (D)	3
PSY4501	Clinical Case Studies	3
PSY4402	Educational Technology (M)	3

### Semester 8

PSY4223	Forensic Psychology (D)	3
PSY4224	Clinical Psychology-II (D)	3
PSY5601	Research Thesis	3
PSY4403	Educational Psychology (M)	3
PSY4404	Education for Students with Special Needs (M)	3

## STUDY ABROAD

FUI also gives opportunity for student to get degree of University of Bedfordshire(UoB), UK. Students will complete first three years of BS Psychology in FUI and will proceed to UOB for completion of the fourth year of their education.



# MS CLINICAL PSYCHOLOGY 1.5 - 2 YEARS



## INTRODUCTION

The MS in Clinical Psychology is a specialized programme based on the HEC's recommended guidelines. It comprises 4 semesters through which the scholars are trained in the core theoretical, practical and research related areas of Clinical Psychology. The programme having a significant blend of internship and research, enables its participants to be engaged in the practice of Clinical Psychology in a more scientific fashion.

## OBJECTIVES

The MS in Clinical Psychology enhances student's expertise in psychological assessment and clinical practice. The program provides opportunity for students to gain practical and professional experience in the field of Clinical Psychology.

## MORE DETAILS

Apply at:  
**[admissions.fui.edu.pk](http://admissions.fui.edu.pk)**  
 Course detail:  
**<http://furc.fui.edu.pk/index.php/programs-psy/mscp>**  
 (+92)-51-5151437

### Semester 1

PSY6008	Guidance & Counseling	3
PSY6009	Psycho-diagnosis and Psychopathology	3
PSY6010	Psychotherapy-I	3
PSY6011	Psychophysiology and Psychopharmacology	3

### Semester 2

PSY6205	Research Design & Practices	3
PSY6702	Psychometrics and clinical Assessment	3
PSY6012	Psychotherapy-II	3
PSY6803	Advance Data Analysis Techniques	3

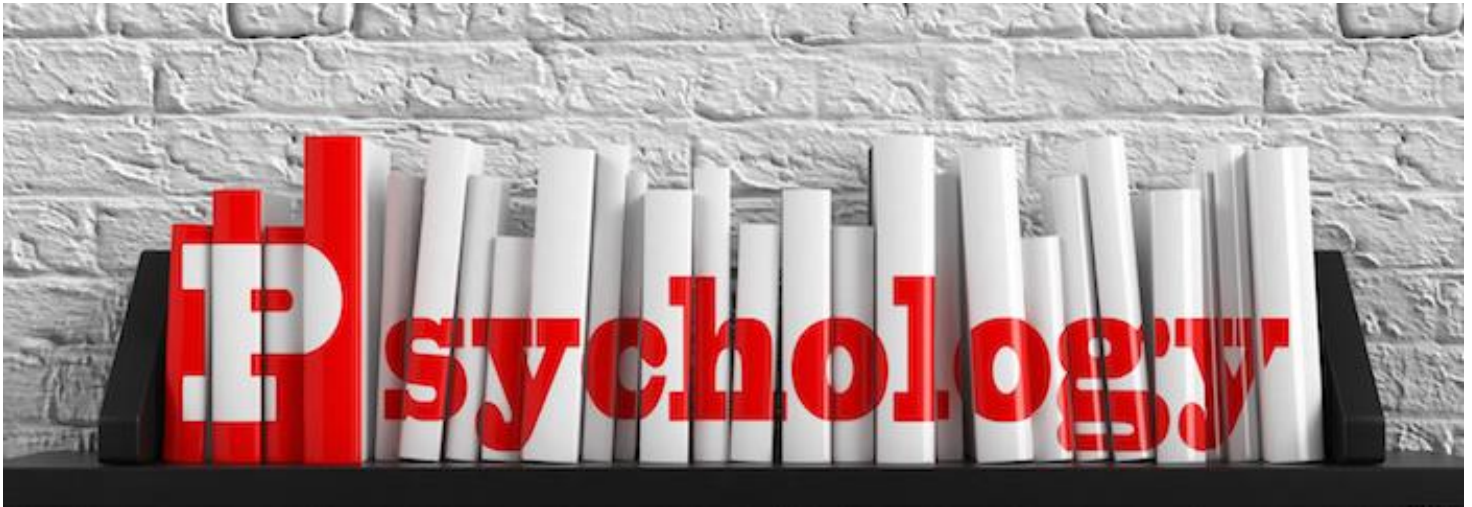
### Semester 3 & 4

PSY7013	Clinical Practicum & Report Writing	4
PSY7206	Thesis/*Two Elective Courses of 3 Credit Hours each	6

1. In "Clinical Practicum & Report Writing" Course, 560 Clinical hours are completed by each student during 3<sup>rd</sup> semester.
2. In addition to above mentioned Degree requirements, any update or change in HEC Postgraduate Policy will also be applicable.

\*All students securing less than CGPA 3.0 will study 2 x Courses of 3 credit hours each

# PHD PSYCHOLOGY 3-8 YEARS



## INTRODUCTION

PhD Psychology at FURC is a full-time research degree programme intended to hone students research skills to highest level so that they are well versed with the current and reigning research skills in their fields of study. Our ultimate goal is to transform our scholars into expert researchers capable of producing research of highest quality where they can break new grounds and publish their works at international forums. This is coupled with our aim to provide them intensive exposure to in-depth understanding of the major frameworks and theories in their respective disciplines. This combination, in our view, is the ideal blend to produce graduates of international standard who are capable of competing at any level with promise of success.

## OBJECTIVES

The main objectives is to produce competent researchers and trained psychologist who can benefit society in different ways. The scholars are trained in the core theoretical, practical and research related areas of Psychology which enables scholars to practice Psychology in a more scientific fashion.

## SCOPE OF PROGRAM

Psychology is influential in almost every walk of life. Its applications are found in hospitals, educational institutions, industries, humanitarian agencies, rehabilitation centers etc. After completion of PhD Degree there is a wide range of professions available out of which most preferred ones are joining Universities, Hospitals. NGO's and Armed Forces of Country or some other Government Organization that use the services of Psychologists to test aptitude and mental condition of candidates while making recruitments

## Prerequisites for admission

Admission criteria is rigorously designed according to rules of HEC, Pakistan.

- Basic prerequisite qualification is MS/ Mphil Psychology. Clinical Or Applied from HEC recognized universities of Pakistan or from and foreign university with minimum 3.00 CGPA
- Candidate must have passed GRE Subject/GAT subject
- Candidate must have passed university entrance test
- Candidate must submit research synopsis at the time of university entrance test
- Interview will be based primarily on synopsis submitted by candidate

- Final merit will be formulated depending upon academic qualification, GRE subject score, University entrance test score, interview, research publications and professional experience

## Duration of program

The duration of PhD program is 3-8years. The course work for PhD program comprises of total 18 credit hours. Each student has to complete 18 credit hours in first two semesters.

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
Course detail:  
<http://furc.fui.edu.pk/index.php/programs-psy/phdpsy>  
(+92)-51-5151437

**A scholar will be offered 3 courses of 3 credit hours each making a total of 9 credit hours in each first and second semester**

### Semester 1 Courses

- PSY8018 Clinical Psychology and its Application
- PSY8209 Advance Research Methods
- PSY8805 Data Analysis using SPSS/ AMOS/Mplus/Nvivo
- PSY8019 Emerging Trends in Counseling Psychology
- PSY8504 Psychology of Life Span Development
- PSY8127 Psychology of Attitude and Opinion
- PSY8128 Emerging Trends in Gender Psychology
- PSY8129 Cross Cultural Psychology
- PSY8130 Theories in Cognitive Psychology
- PSY8131 Criminal and Forensic Psychology
- PSY8403 Occupational Health Psychology

### Semester 2 Courses

- PSY8210 Critical Review of Published Research
- PSY8603 Ethical & Legal Considerations in Psyc
- PSY8132 Advanced Seminars in Theories of Psychology
- PSY8704 Psychometrics
- PSY8133 Social Psychology and its Application
- PSY8303 Psychology of Self
- PSY8134 Applications in Positive Psychology
- PSY8135 Community Psychology
- PSY8020 Psychology of Special Education
- PSY8136 Rehabilitation Psychology
- PSY8137 Challenges in Environmental Psychology
- PSY8021 Disaster and Trauma Management
- PSY8138 Peace Psychology
- PSY8139 Family Psychology

PSY9211

Dissertation

18





# Department of Arts and Media

## ABOUT DEPARTMENT

The Department of Arts and Media at Foundation University School of Science & Technology develops creative skills of students in the emerging fields of Arts, Culture and Media, particularly in Computer Arts and Contemporary Media. Our study programme is focused on practice-based approach to research, design and theory. We maintain links with industry, leading to work placements of our graduates in several fields as proficient experts and specialists working in radio, film, photography, television industry, advertising, publications, print media, event planning & management and teaching.



## MISSION OF THE DEPARTMENT

- To facilitate students' learning in all the aspects of Arts and Media
- To inculcate market oriented professional skills
- To produce mass communication scholarship in sync with national needs and aspirations.

## WHAT DEPARTMENT OFFERS

- In House Production Training & Facilities
- Well Equipped Media House and FM Radio
- Editing Labs and Support from Professional Experts



# BS MEDIA & COMMUNICATION 4 YEARS



## LEARNING OUTCOME

The media house caters to the training needs of students in editing, reporting, videography, multimedia and broadcasting and other related fields of electronic media. It provides hands-on experience to the graduates aspiring to secure positions in broadcasting, radio and television, cable television, and production houses.

## CAREER OPPORTUNITIES

The graduating students can do wonders in the field of electronic media as anchor persons, news casters, photographers, video-graphers, RJs, producers, reporters, anchors, graphic designers etc. In print media they can work as script writers, editors, columnist, feature writers, researchers, news writers, content writers. In advertising, media

graduates are employed as creative writers, Advertising Media Planners, Media traffic personnel, Production Managers etc.

## MORE DETAILS

Apply at:  
[admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/programs-anm/bsmd>

### Semester 1

ENG1001	English I – Introduction to English Grammar	3
HUM1002	Pakistan Studies	3
MCO1041	Photography	3
MCO1011	Introduction to Mass Communication	3
MCO1051	Media and Popular Culture	3
CSC1001	Basic Computer Skills	3

### Semester 2

ENG1002	English II – Reading and Writing	3
HUM1001	Islamic Studies	3
/ETH2101	/Ethics in Special Case	
MSC1001	Business Mathematics	3
MCO1031	Urdu for Journalism	3
MCO1021	Introduction to International Relations	3
MCO1012	Mass Media Development	3

### Semester 3

ENG2001	English III- Listening and Speaking	3
MCO2042	Computer Graphics	3
MCO2022	National & International Affairs	3
MCO2032	Print Media	3
MCO2091	Introduction to Statistics	3
MCO2013	Mass Media in Pakistan	3

### Semester 4

MCO2054	Broadcast Journalism	3
MCO2061	Media Ethics & Laws	3
MCO2033	Reporting and News Writing	3
SOC2101	Sociology	3
MCO2023	International Terrorism	3
MCO2071	Video Production	3

### Semester 5

MCO2024	Political Communication	3
MCO2055	Online Journalism	3
MCO2062	Research Methods in Communication –I	3
MCO2063	Theories of Communication-I	3
MCO2056	Organizational Communication	3
MCO3092	Anthropology	3

### Semester 7

MCO4066	Media Psychology	3
MCO4053	International Communication	3
-	Specialization Course-I	3
-	Specialization Course-II	3
-	Specialization Course-III	3

### Specialization: Electronic Media

MCO4072	Documentary Production	3
MCO4073	Editing Techniques (NLE)	3
MCO4074	TV Anchoring Techniques	3
MCO4075	Radio Production	3
MCO4076	Live and Outdoor Reporting	3
MCO4077	Contemporary Issues in Digital Journalism	3
MCO4055	Digital Photography and Photo Manipulation	3

### Semester 6

MCO3052	Advertising & Public Relation	3
MCO3043	Sub Editing & Page Designing (Theory & Practical)	3
MCO3064	Theories of Communication-II	3
MCO3025	Conflict, Crisis and Communication	3
MCO3065	Research Methods in Communication-II	3
HUM3010	Gender Studies	3

### Semester 8

MCO5011	Thesis/Project (Optional)	6
-	Specialization Course-I	3
MCO4057	Media Management & Marketing (Optional)	3
MCO4044	Script Writing and Storyboarding (Optional)	3

### Specialization: TV and Film Production

MCO4081	Film Studies	3
MCO4082	Digital Story telling	3
MCO4083	Programme Production & Development	3
MCO4084	Drama, Film and Theatre	3
MCO4085	Digital Audio Video Tools	3
MCO4086	Directing for Camera	3
MCO4045	Digital Photography and Photo Manipulation	3





# BACHELOR IN COMPUTER ARTS BCA 4 YEARS



## LEARNING OUTCOME

The four year degree course in design department aims at preparing students to approach design as a logical and innovative process. Aesthetics and creativity are the result of this process. Each design solution is stage by stage debated and refined, culminating in an aesthetically strong and purposeful design.

## CAREER OPPORTUNITIES

There are numerous vistas open to Computer Arts graduates: Games and electronic Entertainment, communication technologies, web design and internet services, Digital Media, Film, TV, and Animation, advertising and publishing. Typical job titles include animator, modeler, compositor effects artist, lead designer, interface designer, web

Designer, web master, creative director, sound designer and sound editor, User interface & user experience designer.

### MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)  
<http://furc.fui.edu.pk/index.php/programs-anm/bca>

### Semester 1

ENG1001	English- I-Introduction to English Grammar	3
CAS1011	Basic Drawing	3
CAS1021	History of Art in Ancient Civilizations	3
CAS1012	Basic Design	3
CSC1001	Basic Computer Skills	3
CAS1013	Drafting	3

### Semester 3

CAS2015	Landscape Drawing	3
ENG2001	English III- speaking and listening	3
CAS2031	Computer Graphics	3
CAS2071	Fundamentals of Photography	3
CAS2032	Intro to Graphic tools	3
CAS2023	History of design	3

### Semester 2

CAS1014	Still life drawing	3
ENG1002	English-II- Reading and Writing	3
HUM1002	Pakistan Studies	3
CAS1022	History of Western Arts	3
CAS1041	Graphics Design	3
HUM1001 / ETH2101	Islamic Studies / Ethics	3

### Semester 4

CAS2016	Portrait Drawing	3
CAS2072	Digital Photography	3
CAS2042	Communication Design	3
CAS2081	Ethics for Professional Practice	3
CAS2051	Basic Animation	3
CAS2061	Basic Video Production	3

### Semester 5

CAS3017	Anatomy Drawing	3
CAS3082	Project Management and Marketing	3
CAS3019	Illustration	3
CAS3062	Idea development and Script Writing	3
-	Specialization Course-I	3
-	Specialization Course-II	3

### Semester 6

CAS3018	Figure Drawing	3
CAS3033	Intro to Web design	3
CAS3063	Video compositing	3
CAS3083	Entrepreneurship and Innovation Management	3
-	Specialization Course-III	3
-	Specialization Course-IV	3

### Semester 7

CAS4073	Report writing	3
CAS4064	Scenography	3
CAS4034	Web design and Development	3
CAS3084	Research Methodology	3
-	Specialization Course-V	3

### Semester 8

CAS5011	Final project	3
CAS4024	Art appreciation	3
CAS4074	Media Studies	3

### Specialization: Graphic Design

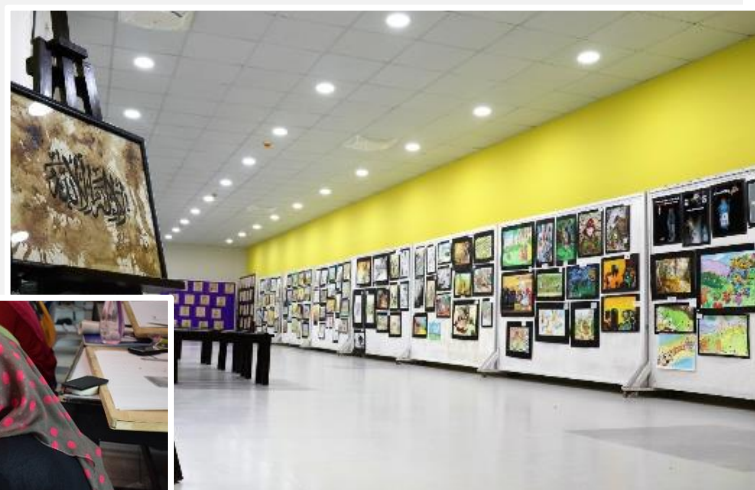
CAS3043	Typography	3
CAS3044	Campaign Development	3
CAS4045	Creative Advertising	3
CAS4046	User interface Design	3
CAS4047	Desktop Publishing	3

### Specialization: Video Production

CAS3034	Digital Audio tools	3
CAS3065	Light & Camera Techniques Production	3
CAS4066	Postproduction effects	3
CAS4067	TV & Film Direction	3
CAS4068	Documentary Production	3
CAS4069	Drama and Theatre	3

### Specialization: Animation

CAS3052	Introduction to 3d modeling	3
CAS3053	Stop Motion Animation	3
CAS4054	Texturing and lighting techniques in 3d	3
CAS4055	Character Design and Animation	3
CAS4056	Animation and Production Techniques in 3D	3



# MS MEDIA SCIENCE 1.5 - 2 YEARS



## INTRODUCTION

The MS in Media Science is a specialized programme based on the HEC's recommended guidelines. It comprises of 4 semesters through which the scholars are equipped with a comprehensive grounding in the core theoretical, practical and research related areas of Media and Communication. It facilitates students learning and understanding about media concepts and production

processes in national and global context.

## OBJECTIVES

- To produce such competent professionals who may act as leaders in the field of Media Industry.
- To acquaint students with social and critical discourse in the discipline.
- To groom students in research activities in the field of media and to

develop effective research groups.

- To facilitate students to conduct research maintaining ethical values.

## MORE DETAILS

Apply at: [admissions.fui.edu.pk](http://admissions.fui.edu.pk)

Course detail:

<http://furc.fui.edu.pk/index.php/programs-anm/msm>

(+92)-51-5151437

### Semester 1

MDS6011	Approaches to Mass Communication Studies – I (Compulsory)
MDS6021	Communication Research Methods-I (Compulsory)
-	Optional Course to be chosen from list
-	Optional Course to be chosen from list

### Semester 2

MDS6012	Approaches to Mass Communication Studies – II (Compulsory)
MDS6022	Communication Research Methods-II (Compulsory)
-	Optional Course to be Chosen from list
-	Optional Course to be Chosen from list

### Elective - Production

MSS6041	Framing, Reframing and Un-framing Cinema
MSS6042	Cinematography
MSS6043	Media Production
MSS6044	Editing Techniques

### Semester 3 & 4

MDS7011	Research Track (Thesis) of 6 Credit hrs.
---------	--

### Elective Courses - Media Sciences

MSS6014	Mass Media, Culture & Society
MSS6031	Philosophy of Social Sciences
MSS6015	Advanced Development Communication
MSS6032	Pakistan Media Prospects & Challenges
MSS6033	Media Debates
MSS6034	International Communication
MSS6035	Media and Politics
MSS6035	Media Sociology

### Elective - Communication Design

MSS6051	Design Information, Technology
MSS6052	Entrepreneurship
MSS6052	Digital Media
MSS6053	User Interface Design
MSS6054	Visual Literacy & Visual Ethics

### Elective Courses

Mass Media, Culture & Society  
 Philosophy of Social Sciences  
 Advanced Development Communication  
 Pakistan Media Prospects & Challenge  
 Media Debates  
 International Communication  
 Media and Politics  
 Media Sociology

### Specializations

Media Production  
 Communication Design  
 Media Management



# Department of English

The Department of English at Foundation University School of Science and Technology is one of the most dynamic and vibrant departments that offers an exciting and conducive learning environment and is supported by highly professional, local, and foreign qualified, experienced, and dynamic faculty. English programmes have been a part of Foundation University Islamabad ever since its inception over a decade ago. The English programmes take learners from a broad knowledge base to in-depth concept understanding as they move up the tiers into segregated streams. Besides offering academic programmes, the department also caters to developing English language skills of the graduate and undergraduate students of other departments of the university including Arts and Media, Management Sciences, Electrical Engineering, Psychology, and Software Engineering.

The department enjoys cordial relationships with other counterparts and faculty in the twin cities and regularly invites senior academics and researchers from around the country to deliver lectures or conduct seminars on various topics. The students are also actively encouraged to participate and present in seminars and conferences around the country.

## PROGRAMMES OFFERED

The department offers a wide range of programmes from undergraduate to doctoral research degrees.

### BS English (Language and Literature)

- 4 years graduation programme after HSSC

### MS English (Literature)

- 1.5-4 years postgraduate programme after BS /MA

### MS English (Linguistics)

- 1.5-4 years postgraduate programme after BS /MA

### PhD English (Literature)

- 3-8 years research programme after MS/M.Phil

### PhD English (Linguistics)

- 3-8 years research programme after MS/M.Phil



## MISSION OF THE DEPARTMENT

**Skills Based:** To develop and strengthen communicative and critical competence in all four English language skills – listening, speaking, reading, and writing.

**Knowledge Centered:** To expand our students' knowledge base in the domains of English literature, Linguistics, and ELT and increase their understanding of traditions and current discourses in these fields of study.

**Research Oriented:** To nurture a commitment to critical and academic inquiry in our learners, while fostering and strengthening their creative potential, analytical abilities, and research skills.

**Value Focused:** To infuse the spirit of social humanism with the aim of contouring accepting personalities capable of accommodating competing discourses from all intellectual, religious, cultural, ethnic, and political perspectives.

**Career Driven:** To synchronize our courses with emerging trends and market demand, ensuring our graduates' continued positive contribution to their professions and society.

# BS ENGLISH (LANGUAGE & LITERATURE) 4 YEARS



BS English (Language and Literature) is a specialized four-year programme, tailored to implement HEC's proposed paradigm of learning, building a broad base by introducing students to several diverse fields such as Logic, Philosophy, Human Rights, Psychology, and Business Administration, before immersing them in the specialized domain of English Literature, Linguistics and Language Teaching. This results in a rich and varied learning experience that sets up the learners for diverse career and learning opportunities.

## SALIENT FEATURES

- Designed by experts in the field adhering to HEC guidelines.
- Offers introductory courses on Psychology, Logic, International Relations, Human Rights, and Business Administration, for a holistic learning experience and to develop professional skills.
- Represents an ideal blend of English literature, linguistics, applied linguistics, and social sciences
- Includes emerging courses in major domains such as Contemporary Short Fiction, Critical Discourse Analysis, Computer-Aided Language Learning, and World Literature in English.

## AIMS & OBJECTIVES

The key aims and objectives of the BS programme are to:

- Introduce the learners to courses from diverse fields to promote transdisciplinary thinking.
- Offer a structured path to exploring issues in linguistics and literature.
- Nurture a culture of research-based learning
- Help the students form a sound basis for higher learning
- Inculcate and strengthen modern research skills.
- Establish a sound basis for higher studies.

## SCHEME OF STUDIES / SEMESTER BREAKDOWN

Course Category	Required Courses	Required CrH	Semester [no of courses per semester]								Courses Offered
			1	2	3	4	5	6	7	8	
General Education Courses	12	30	5	2	3	2					12
Major in English	24	72	1	4	3	4	3	3	3	4	24
MINOR in ELT or Media	4	12					1	2	1		4
Inter-disciplinary	4	12					1	1	1	1	4
Internship	1	3							1		1
Capstone	1	3								1	1
<b>Total</b>	<b>46</b>	<b>132</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>46</b>

# LIST OF BS ENGLISH COURSES

## LIST OF GENERAL EDUCATION COURSES

Area	Required Courses	Required Credit Hours	Course Code and Course Title	Credit Hours
Arts and Humanities	1	2	1) GER 2700 Professional Practices	2
			2) GER 2701 Fundamentals of Fine Arts	2
			3) GER 2702 Anthropology	2
			4) GER 2703 History	2
			5) GER 2704 Archeology	2
			6) GER 2705 Heritage Conservation	2
			7) GER 2706 Philosophy	2
			8) GER 2707 Performing Arts	2
			9) GER 2708 Photography	2
			10) GER 2709 History of Art and Design	2
			11) GER 2710 Culture Studies	2
			12) GER 2711 Language and Literature	2
			13) GER 2712 Curatorial Studies	2
			14) GER 2713 Psychology	2
			15) GER 2714 Fundamentals of Sociology	2
			16) GER 2715 Professional Ethics	2
Natural Sciences	1	3	17) GER 2600 Applied Physics	3
			18) GER 2601 Biology	3
			19) GER 2602 Fundamentals of Geography	3
			20) GER 2603 Environmental Sciences	3
			21) GER 2604 Differential Equations	3
			22) GER 2605 Multivariable Calculus	3
Social Sciences	1	2	23) GER 1500 Fundamentals of Management	2
			24) GER 1501 Fundamentals of Mass Communication	2
			25) GER 1502 Fundamentals of Philosophy	2
			26) GER 1503 Fundamentals of Psychology	2
			27) GER 1504 Sociology	2
Functional English	1	3	28) GER 1200 Functional English	3
Functional English	1	3	29) GER 1201 Expository Writing	3
			30) GER 1202 English Composition	3
			31) GER 1203 Technical Report Writing	3
Quantitative Reasoning	2	6	32) GER 1300 Quantitative Reasoning - I	3
			33) GER 1301 Quantitative Reasoning – II	3
			34) GER 1302 Linear Algebra	3
			35) GER 1303 Discrete Structures	3
			36) GER 1304 Calculus & Analytical Geometry	3



			37) GER 1305 Probability & Statistics	3
Islamic Studies OR Religious Education / Ethics (for Non- Muslims)	1	2	38) GER 2400 Islamic Studies 39) GER 2403 Ethics and Tolerance	2
Ideology or Constitution of Pakistan	1	2	40) GER 2401 Ideology and Constitution of Pakistan	2
Application of Information & Communication Technologies	1	3	41) GER 1100 Applications of Information & Communication Technologies (ICT)	3
Civics or Community Engagement	1	2	42) GER 2402 Civics and Community Engagement	2
Entrepreneurship	1	2	43) GER 2800 Entrepreneurship	2

## LIST OF MAJOR (DISCIPLINARY) COURSES

#	Course Code & Course Title	Credit Hours
1)	LIN 1010 Intro to Linguistics	3
2)	LIN 1120 Phonetics & Phonology	3
3)	LIN 2210 Intro to Morphology and Syntax	3
4)	LIN 2430 Intro to Semantics	3
5)	LIN 3450 Intro to Pragmatics	3
6)	LIN 3610 Intro to Sociolinguistics	3
7)	LIN 3710 Intro to Psycholinguistics	3
8)	LIN 4410 Intro to Discourse Analysis	3
9)	LIN 4250 Advanced Syntax	3
10)	LIN 4710 Intro to Corpus Linguistics	3
11)	LIN 4810 Intro to Translation Studies	3
12)	LIN 4490 Intro to Computational Linguistics	3
13)	LIN 3690 Emerging Trends in Sociolinguistics	3
14)	LIN 4720 Intro to Forensic Linguistics	3
15)	LIN 4730 Intro to Clinical Linguistics	3
16)	LIN 4440 Language and Gender	3
17)	LIN 4540 Second Language Acquisition	3
18)	RES 4110 Introduction to Research Methodology	3
19)	LIT 1101 History of English Literature I	3
20)	LIT 2102 History of English Literature II	3
21)	LIT 2210 Poetry	3
22)	LIT 3510 Literary Criticism	3
23)	LIT 3410 Novel I	3
24)	LIT 3310 Drama I	3
25)	LIT 3530 Literary Theory	3
26)	LIT 3220 Poetry II	3
27)	LIT 3320 Drama II	3
28)	LIT 3610 Introduction to Stylistics	3
29)	LIT 4420 Novel II	3
30)	LIT 4710 American Literature	3

31)	LIT 4730 World Literature in English	3
32)	LIT 4950 Intro to Postmodern Literature	3
33)	LIT 4810 Essays and Short Stories	3
34)	LIT 4820 Short Story Writing	3
35)	LIN 4070 History of English Language	3
36)	LIT 4930 Intro to South Asian Literature	3
37)	LIT 4750 African Literature	3
38)	LIT 4770 Postcolonial Women's Writing	3
39)	LIT 4760 Pakistani Folk Literature	3
40)	LIT 4520 Pakistani English	3

## LIST OF INTERDISCIPLINARY COURSES

	Course Code and Course Title	Credit Hours
1)	PSY 3110 Educational Psychology	3
2)	PSY 4035 Stress and Conflict Management	3
3)	PSY 2108 Social Psychology	3
4)	COM 3141 Business Communication	3
5)	MCO 3305 Theories of Communication	3
6)	MCO 3021 International Relations	3

## LIST OF MINOR COURSES

Area	Required Courses	Required Credit Hours	Course Code and Course Title	Credit Hours
Minor 1 - English Language Teaching (ELT)	4	12	1) ELT 4510 Teaching of English as Second/Foreign Language	3
			2) ELT 4590 ELT Practicum	3
			3) ELT 4530 Testing and Assessment	3
			4) ELT 4560 English for Specific Purposes	3
			5) ELT 4570 Computer Assisted Language Learning	3
			6) ELT 4580 Intro to Critical Pedagogy	3
			7) ELT 4540 Materials Development	3
Minor 2 - Media Communication	1	3	1) MCO 3120 Language and Media	3
			2) MCO 3130 Content / Journalistic Writing	3
			3) MCO 4131 Digital Content Making	3
			4) MCO 3103 Reporting and News Writing	3
			5) MCO 4102 Mass Media Development	3

## INTERNSHIP & CAPSTONE

Area	Required Courses	Required Credit Hours	Course Code and Course Title	Credit Hours
Internship	1	3	INT 4060 Internship	3
Capstone	1	3	RES 5090 Research Project	3

# MS ENGLISH 1.5-4 YEARS

## SEPARATE LITERATURE AND LINGUISTICS STREAMS

MS English programmes at the FUI are unique in that they offer students the option to specialize either in English Literature or Linguistics which are distinct fields of study in their own rights—a pioneering act in the twin cities. Thus, not only does this bifurcation allows students to opt for a stream that best reflects their interests and strengths, but it also gives freedom to the faculty to tailor their courses in a way that provides in-depth grounding and consolidating in the respective fields rather than providing superficial and diluted courses in various subjects. This approach stems from the belief that at this advanced level, excellence springs from quality

research programmes that encompass profound knowledge coupled with strong research skills. We regard research as a key skill in developing critical thinking and in achieving excellence in whatever field our students wish to pursue their studies. These distinctive characteristics make our MS programmes much sought-after and ideal for those who want to excel in their chosen domain. The MS Programmes are full-time taught programmes offered in two modes, i.e., Research Mode (Degree Completion via Research), and Coursework Mode (Degree Completion via Coursework).

The MS Programme is a full-time taught programme offered in two modes, i.e., Research Mode (Degree Completion via Research), and Coursework Mode (Degree Completion via Coursework).

### RESEARCH MODE

#### (DEGREE COMPLETION VIA RESEARCH)

The Research mode is split into two phases. The first phase is course work of 24 credit hours split between two semesters. Successful completion of the coursework with a CGPA of or higher than 3 will entitle the scholar to proceed to the phase of writing a research thesis. Candidates with less than 3 CGPA will have the option to improve courses to attain 3 CGPA. The maximum number of improvement courses will be as per FUI rules. The improve courses will be offered/allowed as per FUI rules. The scholar will come up with a research proposal—research synopsis of around 5000 words—after clearing their course work with the required CGPA and upon approval from the competent authority start their research thesis.

#### Research Mode

Coursework:	24 Credit Hours
Thesis:	6 Credit Hours
Total Credit Hours:	30
Duration:	3-8 semesters (1.5 to 4 years)

### COURSEWORK MODE

#### (DEGREE COMPLETION VIA COURSEWORK)

The MS Programme may also be completed by coursework only. Students who want to opt this route will study courses of thirty credit hours (24 in the first two semesters and 6 more in another semester). Students will still need a CGPA of 2.5 or above to be eligible for the award of degree.

#### Coursework Mode

Coursework:	30 Credit Hours
Total Credit Hours:	30
Duration:	3-8 semesters (1.5 to 4 years)





# AIMS & OBJECTIVES

The key aims and objectives of the MS programme are to:

- Offer the scholars exposure to specialized courses in their chosen field
- Inculcate research skills through projects and research-based assignments during the coursework
- Offer a rich experience of supervised research that ensures an understanding of the different stages and processes involved in research
- Help the students form a sound basis for higher learning and independent research



## MS ENGLISH (LITERATURE) SCHEME OF STUDIES

Code	Core Courses	CrH
LIT7091	Research Methods in Literature	3
LIT7061	Literary Criticism and Theory	3
Elective Courses		
LIT7045	CDA for Literary Studies	3
LIT7064	Postcolonial Theory and Literature	3
LIT7015	Modern & Contemporary Poetry	3
LIT7025	Diaspora Literature	3
LIT7011	20th Century Short Fiction	3
LIT7045	Contemporary Novel	3
LIT7035	Advanced Stylistics	3
LIT7057	'Literature in Film' Studies	3
LIT7021	South Asian Literature	3
LIT7067	Postmodern Criticism	3
LIT7051	Globalization and Literature	3
LIT7053	Literature and Environment	3
LIT7054	Writing the City	3
LIT7081	Women's Writings	3
LIT7017	Postmodern Fiction	3
LIT7071	Transnational Poetry	3
LIT7055	Digital World and Literature	3
LIT7072	Introduction to Monster Studies	3
LIT7073	Medical Fictions: From Romantic to Modern	3
LIT7023	Chinese Fiction in English	3
LIT7068	Magical Realism in English Literature	3
LIT7095	Research Seminar	3
LIT7063	Literary Hermeneutics	3
LIT7069	Postmodernism and Beyond	3
Research Work		
LIT7099	Thesis	6
ENG7011	Academic and Research Writing	0

## MS ENGLISH (LINGUISTICS) SCHEME OF STUDIES

Code	Core Courses	CrH
LIN7091	Research Methods in Linguistics	3
LIN7021	Theories of Linguistics	3
Elective Courses		
LIN7031	Applied Linguistics	3
LIN7073	Issues in Syntax	3
LIN7025	Multilingualism	3
LIN7047	Language, Gender and Identity	3
LIN7046	Language and Media	3
LIN7044	Language, Power and Ideology	3
LIN7042	Critical Discourse Analysis	3
LIN7067	English for Specific Purposes	3
LIN7066	Second Language Teaching	3
LIN7068	Language Assessment	3
LIN7075	Applied Grammar And Syntax	3
LIN7041	Discourse Studies	3
LIN7017	Translation Studies	3
LIN7019	Latest Trends in Linguistics	3
LIN7053	Corpus Linguistics	3
LIN7035	Psycho-Neurolinguistics	3
LIN7023	Anthropological Linguistics	3
LIN7029	Systemic Functional Linguistics	3
LIN7049	Genre Analysis	3
LIN7095	Research Seminar	3
LIN 7070	Theories of Narrative	3
LIN 7058	Advanced stylistics	3
LIN7031	Applied Linguistics	3
LIN7073	Issues in Syntax	3
Research Work		
LIN7099	Thesis	6
ENG7011	Academic and Research Writing	0

# PHD ENGLISH 3-8 YEARS

## SEPARATE LITERATURE AND LINGUISTICS STREAMS



PhD English at FUI is a full-time research degree programme intended to hone their research skills to the highest level so that they are well versed with the current and reigning research skills in their fields of study. Our ultimate goal is to transform our scholars into expert researchers capable of producing research of the highest quality where they can break new grounds and publish their works in international forums. This is coupled with our aim to provide them with intensive exposure to an in-depth understanding of the major frameworks and theories in their respective disciplines. This combination, in our view, is the ideal blend to produce graduates of international standards who can compete at any level with the promise of success.

The PhD programme allocates two semesters to the coursework of 18 credit hours. The third semester is used for sitting the comprehensive examination, which comprises written and oral components. Upon satisfactory performance, the scholars win research candidacy and move on to defending their synopsis. PhD scholars will then undertake writing a dissertation and submit it within the maximum duration of the programme.

### CANDIDACY AS A PHD RESEARCHER

The following criteria will be used to grant research candidacy to PhD English scholars.

- Completion of coursework of 18 credit hours with CGPA 3.0 out of 4.0 or higher.
- Consent form by Supervisor who is supervising not more than a maximum of five PhD researchers at the time.
- Passing Comprehensive Examination based on the chosen field of research.

### DEGREE REQUIREMENTS

A PhD scholar must get one article published in an HEC recognised category "Y" journal to become eligible for the award of degree.

### RESEARCH WORK

Scholars registered in the PhD programme are required to undertake research as a compulsory requirement for the successful completion of the programme. The following guidelines are laid down for the assessment of the research work.

- A synopsis must be presented and submitted after passing the comprehensive examination.
- A scholar may commence research work only after the synopsis is approved by the FUI BASAR.
- The word count for the PhD dissertation must be between 80,000 to 120,000 words.
- A dissertation must have a Turnitin® similarity index of less than nineteen percent (19%) to be judged acceptable as per current HEC guidelines.
- A dissertation that has been deemed free of plagiarism will be evaluated by two foreign examiners and three local/national examiners one of whom will be from within the University.
- Three positive reports are required for the conduct of the public defence of the dissertation for evaluation.

# PHD ENGLISH (LINGUISTICS/LITERATURE) SCHEME OF STUDIES

#	Course Code	CORE COURSES	Pre Requisite	Credit Hours
01	ENG8995	Advanced Seminar in Research	—	3
<b>Elective Courses (PhD English Linguistics)</b>				
01	ENG8026	Phonological Theory and Optimality	LIN 1011 English Phonology	3
02	ENG8007	Syntactic Theory and Minimalism	LIN2021 Introduction to Morphology and Syntax	3
03	ENG8061	Methods of Corpus Linguistics	LNK6053 Corpus Linguistics	3
04	ENG8063	Corpus Stylistics	—	3
05	ENG8004	Lexical Functional Grammar	—	3
06	ENG8054	Language Policy and Planning	—	3
07	ENG8001	Morphological Theories	—	3
08	ENG8031	Computational Linguistics	—	3
09	ENG8011	Conceptual Semantics	LIN2043 Introduction to Semantics	3
10	ENG8015	Intercultural Pragmatics	—	3
11	ENG8034	Cognitive Linguistics	—	3
12	ENG8022	World Englishes	—	3
13	ENG8028	Dialectology	—	3
14	ENG8024	Trends in Anthropological Linguistics	—	3
15	ENG8017	Socio-media Linguistics	—	3
16	ENG8052	Language, Gender and Power	—	3
17	ENG8019	Advanced Sociolinguistics	—	3
18	ENG8037	Psycho-Neurolinguistics	—	3
19	ENG8405	Ecolinguistic Research	—	3





# PHD ENGLISH (LINGUISTICS/LITERATURE) SCHEME OF STUDIES

## Elective Courses (PhD English Literature)

1	ENG8075	Current Issues in Literary Theory	LIT3053 Literary Theory	3
2	ENG8071	Theories of Narrative and Narratology	—	3
3	ENG8103	Shakespearean Studies	—	3
4	ENG8101	Pakistani Literature in English	—	3
5	ENG8104	Latin American Literature	—	3
6	ENG8105	World Literature in English	—	3
7	ENG8106	Post WW II Women Writers in English	—	3
8	ENG8107	Cultural Translation	—	3
9	ENG8108	Trends in American Literature	LIT4071 American Literature	3
10	ENG8109	Emerging Genres in Literature	—	3
11	ENG8401	Ecological Crisis and Literature	—	3
12	ENG8203	Detective Fiction	—	3
13	ENG8201	Science Fiction in the New Millennium	—	3
14	ENG8102	Diaspora Literature	—	3
15	ENG8100	Literature and Globalization	—	3
16	ENG8110	Gender and Queer Studies	—	3
17	ENG8301	Transnational Poetry	—	3
18	ENG8081	bell hooks on Blackness, Feminism and Love	—	3
19	ENG 8111	Exile Literature	—	3
20	ENG8991	Research Seminar	—	0
21	ENG9999	Dissertation	—	18





Foundation University  
School of Science & Technology

[www.fui.edu.pk](http://www.fui.edu.pk)

051-5151437 - 8 (ext: 238, 222)

**Foundation University**

School of Science & Technology,  
New Lalazar, Rawalpindi, Pakistan



fuislamabad



Foundation University  
Islamabad



fuislamabad



FM 101.8



@foundationuniversityislamabad