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# **Barani Institute of Information Technology**

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**Brochure  
2025-2026**

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**Affiliated with  
Pir Mehr Ali Shah Arid Agriculture University,  
Rawalpindi**

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# 1. Introduction

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Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, is the only institution of its kind on rainfed agriculture in the world. The original name given to the university was “University of Arid Agriculture, Rawalpindi”, It was established at Shamsabad, Murree Road, Rawalpindi on April 27, 1994, on the occasion of the first convocation of the Barani Agriculture College, Rawalpindi. The University of Arid Agriculture Bill, 1994 was passed by the Provincial Assembly of the Punjab on the 30<sup>th</sup> of April, 1995 and assented to by the Governor of the Punjab on the 15<sup>th</sup> day of May, 1995, when it became an Act of the Provincial Assembly (published in the Gazette of the Punjab on 24<sup>th</sup> of May, 1995).

The Barani Institute of Information Technology (BIIT) was established at the University, in 1998, after a long and deliberate consideration of the growing needs of Software development and the initiative launched by Government of Pakistan, known as Public Private Partnership. The Institute was originally established as a joint venture between the PMAS Arid Agriculture University and private sector. However, on recommendation of HEC and Govt of Pakistan, in 2016 the joint venture was transferred to an affiliated institute status. The institute operates on self-financed scheme and is concentrating on the following academic areas: Computer Science, Artificial Intelligence and Software Engineering.

BIIT takes pride in being the first institute in Pakistan to launch the four-year Computer Science and Information Technology degree programs in 1998 and 1999 respectively, which were recognized nationally and internationally. Currently BIIT focuses on comprehensive undergraduate degree programs, namely: Bachelor of Science in Software Engineering BSSE, and Bachelor of Science in Computer Science BSCS, with specialization in General Computing and Artificial Intelligence. Very soon, two more specializations, Data Science and Cyber Security are also going to be launched.

BSCS previously known as BCS (Hons) follows the four year curriculum proposed in University Grants Commission’s curriculum development meeting held in May 1998, and subsequently revised in HEC’s National Curriculum Revision Committee for CS & IT in April 2001, 2004, 2009, 2015, 2017, 2022, and 2023. This undergraduate degree program with specialization in General Computing and Artificial Intelligence is the flagship program of BIIT, where a major emphasis is placed on the standards and quality. Only the students having a minimum cumulative GPA of 2.50 are allowed to graduate from this program.

The institute has state of the art computing facilities. Overall, there are 11 labs, numerous Servers, and various apple/android devices and computers for IOS and Android development. There is one research lab, one DLD lab, and 9 teaching labs, comprising of Intel multi-Core machines. All the labs are networked through fast Ethernet hubs and switches.

Admissions to BIIT are open to all persons of any religion, race, creed, class or color, and no person will be deprived of the benefits accruing from the institute on any such grounds. BIIT follows a blind admission policy, where admission is granted without assessing the ability of the student to finance his/her education.

## 1.1. Vision

Barani Institute of Information Technology’s vision is to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence.

## 1.2. Mission

To obtain excellence with fairness and quality teaching by producing computer scientists in IT sector well-equipped with practical knowledge, innovation, adaptability, and research along with conformity to the Islamic values, morality, ethics, and global standards.

## 2. Administration of the University

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### **Vice Chancellor**

**Prof. Dr. Qamar-uz-Zaman**

### **Registrar**

**Mr. Aqeel Sultan**

### **Controller of Examinations**

**Dr. Shahbaz Ahmed**

### **Treasurer**

**Ms. Marriyam Haidar Bukhari**

### **Director ASRB**

**Dr. Muhammad Farooq Nasir**

### **Director Student Affairs**

**Dr. Ghulam Hussain**

### **Dean Faculty of Crop & Food Sciences**

**Prof. Dr. Tariq Mukhtar**

### **Dean Faculty of Sciences**

**Prof. Dr. Shamim Akhtar**

### **Director UIIT**

**Prof. Dr. Yaser Hafeez**

### **Director DQE**

**Prof. Dr. Tanveer Ahmad**

### **Manager Network & IT Services**

**Dr. Nadeem Malik**

### **Chairman Sports Board**

**Dr. Saad Imran Malik**

### **Director BIIT**

**Prof. Dr. Muhammad Jamil Sawar**

### **Deputy Director Academics BIIT**

**Dr. Munir Ahmad**

### **Deputy Director Finance BIIT**

**Mr. Muhammad Ayub**

### **Deputy Director Administration BIIT**

**Mr. Taha Jamil Sawar**

### 3. Administrative Bodies

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#### 3.1. Syndicate

The Syndicate is the executive body of the University. Subject to the provisions of the act and the statutes, it takes effective measures to raise the standard of teaching, research and publication and other academic pursuits and exercise general supervision over the affairs and management of the property of the University. For further details, please refer to the PMAS-AAU Catalogue.

#### 3.2. Academic Council

The Academic Council is the academic body of the University. It is responsible to lay down proper standards of instruction, research, publications and examinations and to regulate and promote the academic life of the University. For further details, please refer to the PMAS-AAU Catalogue.

#### 3.3. BIIT Board of Directors

The overall management of BIIT rests with the Board of Directors, consisting of the following members:

- |      |  |           |
|------|--|-----------|
| i.   | Director, BIIT                                     | Chairman  |
| ii.  | Deputy Director Finance, BIIT                      | Secretary |
| iii. | MD ROSE  |           |
| iv.  | Director, UIIT                                     |           |
| v.   | One member to be nominated by the Academic Council |           |
| vi.  | Three members to be nominated by BIIT              |           |

#### 3.4. BIIT Board of Studies

The Board of Studies comprises of the following:

- i. Director
- ii. Deputy Director Academics
- iii. Deputy Director Administration
- iv. Assistant Director Projects & Software Dev
- v. Assistant Director Academics
- vi. Assistant Director QEC
- vii. Assistant Director Discipline
- viii. Assistant Director Student Affairs
- ix. Assistant Director Administration
- x. All Assistant Professors and Above
- xi. One member to be nominated by the Vice Chancellor
- xii. One member to be nominated by the Academic Council

#### 3.5. BIIT Disciplinary Committee

The Disciplinary Committee at BIIT comprises of the following:

- i. Director
- ii. Deputy Director Academics
- iii. Deputy Director Administration
- iv. Assistant Director Discipline (Secretary)
- v. Assistant Director Student Affairs
- vi. Assistant Director Administration
- vii. Assistant Director Academics
- viii. Two Assistant Professors

## 4. Faculty

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### Permanent Faculty:

**Dr. Mohammad Jamil Sawar**, Professor, Director  
Computer Engg, B.Sc. UT Austin, Texas, USA  
Artificial Intelligence, M.Sc. Edinburgh, UK  
Computer Science, Ph.D. Leeds, UK

**Dr. Munir Ahmad**, Associate Professor  
Deputy Director Academics, HOD CS  
Computer Science, BS(CS), AIOU, Pakistan  
Computer Science, MS, MAJU, Pakistan  
Computer Science, Ph.D. CUST, Pakistan

**Dr. Hassan Nazeer Ch**, Associate Professor  
Computer Engg, B.S, UET Taxila, Pakistan  
Electrical Engg, MS, UET Taxila, Pakistan  
Electrical Engg, MS, TU Darmstadt, Germany  
Computer Engg, Ph.D. Politecnico di Milano, Italy

**Dr. Naseer Ahmed**, Assistant Professor  
Computer Science, MCS, IU, Pakistan  
Computer Science, MS(CS), MAJU, Pakistan  
Computer Science, Ph.D. CUST, Pakistan

**Dr. Sadaf Gul**, Assistant Professor  
Computer Science, BS(CS), PU, Pakistan  
Computer Science, MS, GCU, Pakistan  
Computer Science, Ph.D. PIEAS, Pakistan

**Dr. Irum Ilyas**, Assistant Professor  
HOD Software Engineering  
Computer Science, BS(CS), PMAS-AAUR, Pakistan  
Software Engineering, MS(SE), IIUI, Pakistan  
Software Engineering, Ph.D., PMAS-AAUR, Pakistan

**Dr. Ayesha Manzoor**, Assistant Professor  
Computer Science, MCS, NUML, Pakistan  
Computer Science, MSCS, IIU, Pakistan  
Computer Science, Ph.D. IIU, Pakistan

**Dr. Muhammad Zeeshan Muzaffar**, Assistant Professor  
Computer Science, MCS, Islamia University, Pakistan  
Electronics Engg., MS, IIU, Pakistan  
Electronics Engg., Ph.D. ISRA Univ, Pakistan

**Dr. Mohsin Raza**, Assistant Professor  
Mathematics, BS, COMSATS, Pakistan  
Mathematics, MS, IIU, Pakistan  
Mathematics, Ph.D. IIU, Pakistan

**Dr. Saeed Iqbal Wattoo**, Assistant Professor  
Electrical Engg, MCS, QAU, Pakistan  
Electrical Engg, MS, MAJU, Pakistan  
Electrical Engg. Ph.D. CIIT, Pakistan

**Mr. Shahid Abid**, Assistant Professor  
Computer Science, MCS, Preston, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Zahid Ahmed**, Assistant Professor  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Muhammad Ahsan**, Assistant Professor  
Computer Science, MCS, IIU, Pakistan  
Software Engg, MS (SE), NUST, Pakistan

**Mrs. Noor ul Ain**, Assistant Professor  
Electronics Engg, BSc, UET Taxila, Pakistan  
Information Security, MS, NUST, Pakistan

**Mrs. Nadia Arif**, Assistant Professor  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Software Engg, MS(SE), FUUAST, Pakistan

**Mrs. Sumaira Asad**, Assistant Professor  
Information Tech, MIT, PMAS-AAUR, Pakistan  
Project Management, MS, Abasyn Univ, Pakistan

**Mr. Muhammad Ayub**, Assistant Professor  
Deputy Director Finance  
English, MA, AJKU, Pakistan  
Business Administration, MBA, Preston, Pakistan

**Mrs. Tayyaba Baseer**, Assistant Professor  
Computer Science, BS(CS), FUU, Pakistan  
Software Engg, MS(SE), Bahria Univ, Pakistan

**Mr. Umar Farooq**, Assistant Professor  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Syeda Zer Afshan Gohar**, Assistant Professor  
Information Technology, MIT, QAU, Pakistan  
Information Technology, MS(IT), NUST, Pakistan

**Hafiz Muhammad Shafiq Gondal**, Assistant Professor  
Computer Science, MCS, NUML, Pakistan,  
Computer Science, MS(CS), NUCES, Pakistan

**Mr. Muhammad Ihsan**, Assistant Professor  
Business Administration, MBA, NUML, Pakistan  
Management, MS, Abasyn Univ, Pakistan

**Mr. Muhammad Nauman Iqbal**, Assistant Professor  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan,

**Mr. Azhar Jamil**, Assistant Professor  
Computer Science, BS(CS), PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Shahid Jamil**, Assistant Professor  
Computer Science, MSc (CS), QAU, Pakistan  
Computer Science, MS(CS), UOL, Pakistan

**Mr. Afrasiab Kaikobad**, Assistant Professor  
Information Tech, BSIT, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), CUST, Pakistan

**Mr. Muhammad Khalid**, Assistant Professor  
English, MA (Language & Lit), Sargodha, Pakistan  
English, Diploma TEFL, AIOU, Pakistan  
Law, LLB, Punjab, Pakistan  
English, MS, Northern University, Pakistan

**Mr. Muhammad Aftab Khan**, Assistant Professor  
Computer Science, MCS, PMAS-AAUR, Pakistan,  
Computer Science, MS(CS), NUST, Pakistan

**Mr. Muhammad Azeem Mushtaq**, Assistant Professor  
Computer Science, BS(CS), PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Muhammad Mustafa**, Assistant Professor  
Computer Science, MSc, QAU, Pakistan  
Computer Science, MS(CS), COMSAT, Pakistan

**Mr. Amir Rashid**, Assistant Professor  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Shahid Rashid**, Assistant Professor  
Mathematics, BS(Maths), CIIT, Pakistan  
Mathematics, MS, HITEC, Taxila, Pakistan

**Mr. Adeel Sohail**, Assistant Professor  
Commerce, B.Com (Hon), Islamia University, Pakistan  
Finance, MBA, SZABIST, Islamabad, Pakistan

**Mr. Ali bin Tahir**, Assistant Professor  
Electrical Engg, BSEE, Bahria University, Pakistan  
Mobile & Sat Comm, MS, Univ of Glamorgan, Wales, UK

**Mrs. Beenish Abbassi**, Lecturer  
Education, MS, AIOU, Pakistan  
Management, MS, Abasyn Univ, Pakistan

**Ms. Rimsha Asad**, Lecturer  
Information Tech, BSIT, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), CUST, Pakistan

**Mr. Rao Muhammad Waseem Ashraf**, Lecturer  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), AIOU, Pakistan

**Mr. Muhammad Daniyal Chohan**, Lecturer  
Information Tech, BEIT, UET Taxila, Pakistan  
Computer Science, MS(CS), CUST, Pakistan

**Mr. Muhammad Irfan**, Lecturer  
Mathematics, BSc, BZU, Multan, Pakistan  
Mathematics, MSc, Punjab Univ, Lahore, Pakistan

**Ms. Summiya Islam**, Lecturer  
Computer Science, BSCS, Preston University, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mrs. Zahida Khalid**, Lecturer  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Sohail Adil Khan**, Lecturer  
Computer Science, BSCS, CUST, Islamabad, Pakistan  
Computer Science, MS(SE), FAST, Islamabad, Pakistan

**Mrs. Sadia Murtaza**, Lecturer  
Computer Science, BSCS, Baqai Medical Uni, Pakistan  
Computer Engg, MS(CE), COMSATS, Pakistan

**Ms. Maria Raja**, Lecturer  
English, MA, Foundation Univ., Islamabad, Pakistan  
English, MPhil, Foundation Univ., Islamabad, Pakistan

**Mr. Hafiz Muhammad Ramzan**, Lecturer  
Computer Science, BSCS, PMAR-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Syed Shaheeq Raza**, Lecturer  
Computer Science, BSCS, Govt Col Layyeh, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Zohaib Sagheer**, Lecturer  
Mathematics, MSc, Univ of Poonch, AJK, Pakistan  
Mathematics, MPhil, Riphah Univ, Islamabad, Pakistan

**Ms. Iqra Sarwar**, Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), CUST, Islamabad, Pakistan

**Mr. Muhammad Hamza Sakhi**, Lecturer  
Electrical Engg, BSEE, APSC, NUML, Pakistan  
Computer Science, MS(CS), Iqra Univ, Pakistan

**Mr. Muhammad Qasim Shehzad**, Lecturer  
Mathematics, BS, Punjab Univ, Pakistan,  
Mathematics, MSc, Punjab Univ, Pakistan

**Ms. Muntaha Tabassum**, Lecturer  
Computer Science, BSCS, UAF, Faisalabad, Pakistan  
Computer Science, MS(CS), Bahria Univ, Pakistan

**Ms. Farhana Tanveer**, Lecturer  
Computer Science, MCS, MAJU, Pakistan  
Computer Science, MS(CS), CUST, Pakistan

**Ms. Ghousia Tanveer**, Lecturer  
Information Tech, BSIT, PMAS-AAUR, Pakistan  
Computer Science, MPhil, QAU, Islamabad, Pakistan

**Mr. Shafqat Ullah**, Lecturer  
Information Tech, BSIT, Univ of Sargodha, Pakistan  
Data Science, MS(DS), Air University, Pakistan

**Mr. Muhammad Amir Abbas**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Javeria Abbasi**, Junior Lecturer  
Information Tech, BSIT, PMAS-AAUR, Pakistan

**Mr. Muhammad Zain ul Abdeen**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan



**Ms. Hina Afzal**, Junior Lecturer  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Computer Science, MS(CS), PMAS-AAUR, Pakistan

**Mr. Aqeel Ahmed**, Junior Lecturer  
Information Tech, MIT, PMAS-AAUR, Pakistan

**Mr. Raheem Akbar**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Sadia Arooj**, Junior Lecturer  
Information Technology, BSIT, PMAS-AAUR, Pakistan  
Computer Science, MSCS, PMAS-AAUR, Pakistan

**Mr. Hammad Arshad**, Junior Lecturer  
Information Tech, MIT, PMAS-AAUR, Pakistan

**Mr. Raja Talha Ayaz**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Nomail Butt**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Rubab Fatima**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Maryam Gulshaid**, Junior Lecturer  
Computer Science, MCS, PMAS-AAUR, Pakistan

**Ms. Sadiqa Haider**, Junior Lecturer  
Computer Science, MCS, PMAS-AAUR, Pakistan

**Ms. Javerea Hameed**, Junior Lecturer  
Computer Science, MCS, PMAS-AAUR, Pakistan  
Information Security, MSIS, COMSATS, Pakistan

**Mr. Abdul Hameed**, Junior Lecturer  
Islamic Studies, MA, Univ of Multan, Pakistan

**Mr. Abu Huraira**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Iqra Ijaz**, Junior Lecturer  
Computer Science, MCS, PMAS-AAUR, Pakistan

**Ms. Memoona Jahangir**, Junior Lecturer  
Computer Science, MCS, Islamic Univ, Islamabad, Pakistan

**Ms. Riffat Liaqat**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Sana Liaqat**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Javaria Maryam**, Junior Lecturer  
Computer Science, BSCS, Rwp Women Univ, Pakistan

**Mr. Syed Ali Hussain Rizvi**, Junior Lecturer  
Information Tech, BSIT, PMAS-AAUR, Pakistan

**Ms. Mona Shafqat**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Haleema Sagheer**, Junior Lecturer  
Information Technology, BSIT, PMAS-AAUR, Pakistan

**Ms. Syeda Tanzeela**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Amina Tariq**, Junior Lecturer  
Software Engg, BSSE, Air Univ, Pakistan

**Ms. Mailah Tariq**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Ms. Purwa Tariq**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

**Mr. Muhammad Usman**, Junior Lecturer  
Information Technology, MIT, PMAS-AAUR, Pakistan

**Ms. Laiba Zafar**, Junior Lecturer  
Computer Science, BSCS, PMAS-AAUR, Pakistan

## **Visiting Faculty:**

### **Mr. Tahir Javed**

Computer Science, MCS, PMAS-AAUR, Pakistan

Computer Science, MS(CS), Iqra Univ, Pakistan

### **Ms. Jannat Khatoon**

Computer Science, BS(CS), PMAS-AAUR, Pakistan

Computer Science, MS(CS), SEECS, NUST, Pakistan

### **Mr. Abdur Rehman**

Computer Science, MCS, PMAS-AAUR, Pakistan

Computer Science, MS(CS), Iqra Univ, Pakistan

### **Mr. Jahangir Ahmed**

Computer Science, MCS, PMAS-AAUR, Pakistan

### **Mr. Muhammad Shabbir**

Islamic Studies, MA, Univ of Multan, Pakistan

## **Administration:**

**Dr. Mohammad Jamil Sawar**  
Director

**Dr. Munir Ahmad**  
Deputy Director Academics

**Mr. Muhammad Ayub**  
Deputy Director Finance

**Mr. Taha Jamil Sawar**  
Deputy Director Administration

**Syed Naazir Abbas Kazmi**  
Assistant Director Administration

**Mr. Shahid Jamil**  
Assistant Director Projects & Software Dev

**Dr. Muhammad Zeeshan Muzaffar**  
Assistant Director QEC

**Dr. Saeed Iqbal**  
Assistant Director Disciplinary Committee

**Mr. Shahid Rasheed**  
Assistant Director Student Affairs

**Mrs. Nadia Arif**  
Assistant Director Administration

**Mr. Zahid Ahmad**  
Assistant Director Academics

**Mr. Muhammad Ihsan**  
Manager Administration

**Mr. Muhammad Azeem**  
Incharge Final Year Projects Archive

**Mr. Aqeel Ahmed**  
Manager Accounts

**Mr. Muhammad Usman**  
Data Cell Officer

**Mr. Fuzail-ur-Rehman**  
Data Cell Officer

**Mrs. Beenish Abbasi**  
Administration Officer

**Mr. Muhammad Shaukat**  
Administration Supervisor

**Mr. Sajjad Mehmood**  
Lab Administrator

**Mr. Abdul Qadeer**  
Accounts Officer

**Mr. Asad Ullah**  
Accounts Officer

**Qari Abdul Hameed**  
Librarian

**Mr. Nadeem Akhtar**  
Receptionist

## 5. Degrees Offered by BIIT and Admission Requirements

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The Institute offers two four-year comprehensive undergraduate degree programs, namely: Bachelor of Science in Software Engineering BSSE, and Bachelor of Science in Computer Science BSCS, with specialization in General Computing and Artificial Intelligence.

### 5.1. Admission Requirements

- a. **BSCS, BSSE Prerequisites:**  
Second division or above with at least 50% marks in A-Levels or Intermediate from recognised institutions, in any of the following areas:
- F.Sc. Pre-Engineering
  - ICS
  - F.Sc with Mathematics
  - F.Sc. Pre-Medical (will be required to undertake two extra mathematics courses)
  - Other areas may also be judged suitable after scrutiny of courses studied.
- b. **Selection:**  
All admissions for undergraduate and graduate students shall be regulated and recommended by the Admission Committee, after compiling a merit list based on the grades/marks obtained in previous qualifications. The merit list will be compiled using the following formulas:

**BSCS, BSSE:** Intermediate 100%

### 5.2. Procedure for Admission

1. Every student admitted to the University shall be required to sign an undertaking on judicial stamp paper of the value of Rs. 20/-, duly countersigned by parent and Oath Commissioner

assuring that he/she will abide by the Rules and Regulations of the University and such other orders/instructions as may be issued by the administration from time to time.

2. The list of selected candidates will be displayed on the Notice Board according to the schedule notified.
3. Candidates may be admitted in the beginning of the Fall semester only. If a selected candidate fails to enroll in time as notified, his/her admission will stand cancelled and seat will be offered to the next candidate on the waiting list.

### 5.3. Admission of International Students

The credentials of an undergraduate applicant who holds a foreign nationality and who wishes to attend the University are evaluated in accordance with the general regulations governing admission of foreign nationals as approved by the Ministry of Foreign Affairs and the Ministry of Education, Government of Pakistan. Candidates from foreign countries should send their applications through the Embassies of their countries in Islamabad, and these must be routed through the Ministries of Foreign Affairs and Education, Government of Pakistan. No foreign student will be admitted in the University unless his/her admission after due scrutiny of his/her application, is confirmed by the University.

### 5.4. Migration

The students from other educational institutions who intend to migrate to this university shall be required to fulfill the following conditions:

1. Reasons for migration must be genuine and plausible.

2. The applicant must fall within our admission merit of first semester of the year in which the student had sought admission.
3. Production of a certificate of good conduct and behavior from the parent institution.
4. Production of detailed marks certificate and the courses studied by the applicant in his/her parent institution and syllabi of courses for equivalence of his/her studies.
5. Migration is not allowed from institutes/universities situated in Rawalpindi or Islamabad area.

The application along with the above documents be routed through the administrative department of the institution and forwarded to the PMAS Arid Agriculture University, Rawalpindi.

Migration is not allowed in the first semester of any degree program.

### **5.5. Transfer Credit**

Credits can be transferred for transfer students subject to acceptance by the Equivalence Committee and the minimum acceptable GPA. The minimum residential requirements at PMAS-AAUR for transfer cases shall be 4 semesters in case of Bachelor's students and 2 semesters in case of Master's students.

## **6. General Regulations Relating to the Degrees Awarded by the University**

Please refer to the University Catalogue for General regulation relating to the degrees awarded by the University.

## 7. The Regulations Relating to the BIIT Degrees Awarded by the University

### 7.1. Evaluation and Quality Points in the General University Regulations

#### Evaluation:-

- (i) The minimum pass marks for each course shall be 40% in Theory and Practical separately.
- (ii) Grade points will be as follows:

Marks	Grade	Grade Points	Remarks
80-100%	A	4	Excellent
65-79.99%	B	3	Good
50-64.99%	C	2	Satisfactory
40-49.99%	D	1	Pass
Below 40%	F	0	Fail
	I	0	Incomplete

- (iii) The grade point will be worked on the basis of percentage of marks obtained by a student in each course separately according to Quality Points conversion table (given below) and not on the percentage of total marks obtained by a student.

#### Calculation of GPA/CGPA:-

- (i) GPA/CGPA will be calculated at the end of each semester in accordance to the following formula:

$$\frac{\text{Sum of (Credits in a Course} \times \text{Corresponding Quality Points)}}{\text{Total Credit Hours}}$$

- (ii) The following Quality Points table will be used for calculating the GPA/CGPA:

#### Quality Points Table For GPA/CGPA:-

6 credit hr (120)		5 credit hr (100)		4 credit hr (80)		3 credit hr (60)		2 credit hr (40)		1 credit hr (20)	
D 48	6.00	D 40	5.00	D 32	4.00	D 24	3.00	D 16	2.00	D 8	1.00
49	6.5	41	5.50	33	4.50	25	3.50	17	2.50	9	1.50
50	7.00	42	6.00	34	5.00	26	4.00	18	3.00	C 10	2.00
51	7.50	43	6.50	35	5.50	27	4.50	19	3.50	11	2.33
52	8.00	44	7.00	36	6.00	28	5.00	C 20	4.00	12	2.67
53	8.50	45	7.50	37	6.50	29	5.50	21	4.33	B 13	3.00
54	9.00	46	8.00	38	7.00	C 30	6.00	22	4.67	14	3.33
55	9.50	47	8.50	39	7.50	31	6.33	23	5.00	15	3.67
56	10.00	48	9.00	C 40	8.00	32	6.67	24	5.33	A 16	4.00
57	10.50	49	9.50	41	8.33	33	7.00	25	5.67		
58	11.00	C 50	10.00	42	8.67	34	7.33	B 26	6.00		
59	11.50	51	10.33	43	9.00	35	7.67	27	6.33		
C 60	12.00	52	10.67	44	9.33	36	8.00	28	6.67		
61	12.33	53	11.00	45	9.67	37	8.33	29	7.00		
62	12.67	54	11.33	46	10.00	38	8.67	30	7.33		
63	13.00	55	11.67	47	10.33	B 39	9.00	31	7.67		
64	13.33	56	12.00	48	10.67	40	9.33	A 32	8.00		
65	13.67	57	12.33	49	11.00	41	9.67				
66	14.00	58	12.67	50	11.33	42	10.00				
67	14.33	59	13.00	51	11.67	43	10.33				
68	14.67	60	13.33	B 52	12.00	44	10.67				
69	15.00	61	13.67	53	12.33	45	11.00				
70	15.33	62	14.00	54	12.67	46	11.33				
71	15.67	63	14.33	55	13.00	47	11.67				
72	16.00	64	14.67	56	13.33	A 48	12.00				
73	16.33	B 65	15.00	57	13.67						
74	16.67	66	15.33	58	14.00						
75	17.00	67	15.67	59	14.33						
76	17.33	68	16.00	60	14.67						
77	17.67	69	16.33	61	15.00						
B 78	18.00	70	16.67	62	15.33						
79	18.33	71	17.00	63	15.67						
80	18.67	72	17.33	A 64	16.00						
81	19.00	73	17.67								
82	19.33	74	18.00								
83	19.67	75	18.33								
84	20.00	76	18.67								
85	20.33	77	19.00								
86	20.67	78	19.33								
87	21.00	79	19.67								
88	21.33	A 80	20.00								
89	21.67										
90	22.00										
91	22.33										
92	22.67										
93	23.00										
94	23.33										
95	23.67										
A 96	24.00										

In addition to the general regulations given in the University Catalogue, (except 1.c given below) the following regulations are also applicable to all the degrees:

**1. Definitions:-** In these regulations unless there is anything repugnant in the subject or context:-

- (i) Credit Hour means the successful completion of a course of one semester hour in theory or three semester hours in practical per week.

## **7.2. The Regulations Relating to the Award of BSCS, BSSE:**

### **BIIT-1. Minimum Requirements for Award of Bachelor's Degree: -**

- (i) The minimum duration for completing the course for the degree of BSCS and BSSE shall be 8 semesters and maximum 12 semesters.
- (ii) The course requirement will be 130 or more credit hours for BSCS and BSSE.
- (iii) A full time student shall be required to take courses of not less than 16 credits hours in a semester.

### **BIIT-2. Admission and Registration: -**

- (i) Minimum Academic Requirements for BSCS and BSSE: A person holding Intermediate Certificate (FSc Pre Engg, FSc Pre Med, ICS, FSc Math), A-level or an equivalent certificate from any recognized Institute with at least 50% marks excluding N.C.C., Hafiz-e-Quran, or any other marks specified shall be eligible to apply for admission.

- (ii) Admission will be on open merit basis, with following weightages for merit (Optional: Entrance test 40%, Intermediate 50%, Matric 10%)
- (iii) Students with a Computer Science background will be given preference.

### **BIIT-3. Authority for Admission: -**

The admitting authority shall be the Director of the Institute with the recommendation of the Admission Committee.

### **BIIT-4. Minimum and Maximum Credit Hours: -**

- (i) Each student shall register himself/herself in the first and second semester for all the credit hours prescribed for these semesters.
- (ii) Subsequently he/she shall have to register for courses carrying not less than 15 and not more than 20 credit hours.
- (iii) In the last semester a student may register himself/herself for the courses carrying the remaining credit hours; provided that the maximum does not ordinarily exceed 24 credit hours; provided further that this limit may be extended by the Vice Chancellor up to 27 credit hours in 7th semester if no odd semester course is left behind and similarly he/she may be allowed to enroll up to 27 credit hours in 8th semester if no even semester course is left behind, in special circumstances to be determined carefully in each individual case. The same will be applicable to the 9th, 10th, 11th and 12th semester.

**BIIT-5. Improvement of Grade:-**

- (i) During the specified minimum duration for completing the degree, a student may repeat up to Two courses of the previous semester(s) in a regular Semester or 10 credit hours in Summer Semester, in which he/she had secured a 'D' or 'F' grade, provided the course load does not exceed the maximum limit of courses or credit hours in summer semester. Repetition of 'C' or 'B' grade(s) will be allowed after completing 8th semester if, the CGPA is less than 2.50 i.e., degree requirement.
- (ii) The course grades that a student earns in the repeated courses shall replace the previously earned course grades. However, the previous grade shall stand if the repeated grade is less than the previous one. The 'D' grade can only be repeated once in a Summer Semester.
- (iii) The prerequisite courses in which the student has failed, will have to be cleared immediately at the next available opportunity, provided that his/her maximum workload, including the courses being repeated by the student, will not exceed the normal workload.

Semester	Promotion CGPA
1 <sup>st</sup> Semester	0.75
2 <sup>nd</sup> Semester	1.00
3 <sup>rd</sup> Semester	1.25
4 <sup>th</sup> Semester	1.50
5 <sup>th</sup> Semester	1.75
6 <sup>th</sup> Semester	2.00
7 <sup>th</sup> Semester	2.25
8 <sup>th</sup> Semester	2.50

- (iii) A student who does not meet the above requirement for promotion shall cease to be on the university rolls; Summer Semester may be used to overcome this promotion requirement. However, he/she may repeat the whole regular semester only once.
- (iv) The course grades that a student earns in the repeated semester shall replace the previously earned course grades.
- (v) In the 8<sup>th</sup> semester, if a student fails to achieve the 2.5 CGPA, he/she shall have to repeat the course/courses with lowest grades, so as to make CGPA of 2.5 within the maximum time period allowed for the degree.

**BIIT-6. Academic Standing:-**

- (i) Grade Point average
  - (a) Maximum grade point average: 4.00
  - (b) Minimum grade point average: 2.50
- (ii) To remain on the rolls of the university a student shall be required to maintain the following minimum CGPA in each semester:

**BIIT-7. Transfer of Credits:-**

- (i) Students who meet the admission criteria for BSCS and BSSE, shall be allowed to transfer up to 6 credit hours from approved Punjab Information Technology Board Diploma programs or other Diploma programs where similar curriculum is being followed (which include Oracle OCP program, and Microsoft MCS-D/DBA programs).



- (ii) The Minimum residential requirement at UAAR for transfer cases shall be 4 semesters, where credit has been awarded for the remaining courses by the competent authority.

## 8. The Regulations Relating to the Conduct of Examination

Please refer to the University Catalogue for Regulations relating to the conduct of examination.

## 9. The Regulations Relating to Discipline and Conduct of Students

In addition to the general regulations given in the University Catalogue relating to discipline and conduct of students, BIIT strictly adheres to the following rules:

### BIIT-8. Acts of Indiscipline and Misconduct

The following, among others, shall constitute acts of indiscipline and misconduct for which action may be taken against the student or students:

- (a) Breach of any rule of public morals as prescribed by University;
- (b) Use of indecent or filthy language in class rooms, or on the Campus;

- (c) Use of immodest, improper and provocative dress, or not following the dress code, as prescribed from time to time.
- (d) Objectionable or immoral behavior carried out by boys and girls, such as, sitting as a couple, etc.;
- (e) Disorderly behavior, such as, shouting, abusing quarrelling, fighting and insolence;
- (f) Use or attempt or threat to use force;
- (g) Defiance of authority;
- (h) Impersonation perjury, giving false information, willful suppression of information, cheating, deceiving;
- (i) Stealing of property or involvement in stealing;
- (j) Inciting or staging a walk-out, a strike or an unauthorized procession;
- (k) Shouting of slogans derogatory to the prestige of the University or BIIT, the reputation of its teachers and officers;
- (l) Smoking or use of intoxicants;
- (m) Not displaying University ID Card;
- (n) Keeping of licensed or unlicensed arms;
- (o) Failure to comply with any penalty imposed by a University or BIIT disciplinary authority;
- (p) Causing loss or damage to University or BIIT property movable or immovable;
- (q) Actions defamatory of and derogatory to Islam and Pakistan;
- (r) Spreading false news, rumors or panic;
- (s) Cheating in the University Examination;
- (t) Conviction for any criminal offence by a Court of law;
- (u) Any act, conduct, disorder or neglect which is considered prejudicial to good order or discipline or unbecoming of a student by the competent authority;

### BIIT-9. Competent Authorities and Penalties

The Disciplinary Committees of BIIT and University, Director BIIT, Deputy Director BIIT, Assistant Directors, and Disciplinary Committee of BIIT shall be competent to take disciplinary actions against the students. The

disciplinary action may take one and/or more of the following forms, depending on the nature of indiscipline or misconduct:

- (a) Imposition of fines;
- (b) Recovery of loss or breakage of movable and immovable University property;
- (c) Placing a student on probation;
- (d) Community Service;
- (e) Suspension from the rolls;
- (f) Rustication; and
- (g) Expulsion.

#### **BIIT-10. Major and Minor Penalties**

For the purposes of these regulations:

- (a) The following penalties shall be deemed to be minor penalties:
  - (i) Imposition of fine less than Rs. 5000/-
  - (ii) Recovery of loss or breakage of movable and immovable University property;
  - (iii) Placing a student on probation;
  - (iv) Community Service;
  - (v) Suspension from the rolls;
- (b) The following shall be deemed to be major penalties:
  - (i) Imposition of fine more than Rs. 5000/-;
  - (ii) Rustication;
  - (iii) Expulsion.

#### **BIIT-11. Payment of Fine**

A fine when imposed shall be payable within ten days of its notification, failing which the name of the defaulter shall be struck off the University rolls.

#### **BIIT-12. Recovery of Loss or Breakage of Property**

A student shall be liable to make good the loss caused by him/her to the University/Institute's property within 15 days

of the notification of the order by the Competent Authority. Failure to make good the loss shall be considered an act of indiscipline and misconduct, within the meaning of Regulations. The name of such a student shall be struck off the rolls for failure to make good the loss, and besides, the competent authority, with the prior approval of the Rector, may initiate legal proceedings against him in a court of law.

#### **BIIT-13. Placing on Probation**

A student may be placed on probation by the competent authority for a specified period and such period of probation may be extended if the student fails to improve his/her conduct. Continued failure to improve his/her conduct may lead to further disciplinary action.

#### **BIIT-14. Suspension from Rolls**

- (a) A student may be **suspended** from classes for a period not exceeding two weeks at a time. Such a student shall pay the fine of absence as prescribed for the period of suspension. A student suspended from the classes may be reinstated or his/her period of suspension may be extended, as the case may be, by the competent authority.
- (b) A student committing an act of major indiscipline and misconduct may be **rusticated** for one academic year or two semesters which shall mean the loss of one academic year to the rusticated student.
- (c) A student committing an act of major indiscipline and misconduct may be **expelled** from the University for at least two academic years or four semesters from the date of expulsion.

#### **BIIT-15. Notification of Rustication or Expulsion**

- (a) The name(s) of the rusticated or expelled student(s) communicated by the competent authority shall be notified by the Registrar, with the approval of the Vice

Chancellor, and name(s) of such student(s) shall be struck off the rolls of the University. The University shall not issue a migration certificate to such students.

- (b) Acts of indiscipline and misconduct committed by University student(s) and penalties imposed under these Regulations shall invariably be intimated to the parents/guardians of the student concerned.

#### **BIIT-16. Readmission of Rusticated Student**

- (a) It shall be obligatory on the part of the Institute concerned to readmit the rusticated student, if he/she wishes to rejoin the University in the beginning of the next academic year or on the lapse of two semesters.
- (b) An expelled student shall not be readmitted to the University, except with the special permission of the BOG after the explicit undertaking given by the student, countersigned by his/her parent/guardian, to the Director to abide by the rules of conduct of the University and not to repeat any act of misconduct and indiscipline.

#### **BIIT-17. Disciplinary Committees**

The cases of indiscipline and misconduct shall be investigated by a Disciplinary Committee of the Institute or the University, comprising two or more senior members of the faculty nominated and notified by the Director concerned, co-opting the Head of the Department of the Student concerned, provided that cases involving students from different faculties shall be investigated by an Inter-Faculty Disciplinary Committee consisting of the Disciplinary Committees of both the faculties. The Disciplinary Committee shall be constituted in the beginning of the academic year, and shall be communicated to the Registrar for record.

#### **BIIT-18. Appeal or Review against Penalty**

- (a) A student on whom a major penalty has been imposed under these regulations, may, within 30 days from the date of the communication of the order, appeal to the Director against that order or apply for review of the order.
- (b) The Director may, after obtaining advice of the Disciplinary Committee, dismiss the appeal or acquit the appellant, order a fresh enquiry, reduce, or enhance the penalty.
- (c) The appeal against the orders passed in a case of minor penalty may be made to the competent authority within fifteen days from the communication of the order for consideration.
- (d) The decisions reached by the Director and/or Disciplinary Committee shall be considered as final and shall not be challenged in any court of law.

## 10. Fee Structure

### 10.1. One Time Fees

Fee Description	BSCS, BSSE
University Registration Fee	900/-
Development Fee	7,000/-
Processing Fee	7,100/-
<b>Total</b>	<b>Rs 15,000/-</b>

### 10.2. Per Semester Fees

Fee Description	BSCS, BSSE
Tuition Fee	124,500/-
Extra-Curricular Activities Fee	1,000/-
<b>Total</b>	<b>Rs 125,500/-</b>

### 10.3. Per Course Fees

Failed courses, projects being repeated would incur per course fee mentioned below. Similarly, courses taken up during any semester, while the student is not registered for the full semester load would also incur per course fee as follows:

Fee Description	BSCS, BSSE
<b>Regular Taught Courses &amp; FYP-1 (Tuition Fee)</b>	<b>Rs 15,000/-</b>
<b>Project (FYP-2)</b>	<b>Rs 18,000/-</b>
<b>Course Fee when Enrolled 1<sup>st</sup> time in Extra Semester</b>	<b>Rs 2,000/-</b>

### 10.4. Increase in Fees

The Institute reserves the right to increase the Fees of regular students (semester fees, and per course fees) on annual basis, or as and when required, **by 10-15%**. Similarly, the Institute reserves the right to increase the Fees of New Students as and when required.

### 10.5. Fee Refunds

- Admission Fee (i.e. One time Fees: University Registration Fee, Development Fee, Processing Fee) is non-refundable.
- Semester fees are refundable based on the University policy given in the catalogue, as follows:
  - 100% refund up to 10<sup>th</sup> day of commencement of classes.
  - 80% refund up to 15<sup>th</sup> day of commencement of classes.
  - 60% refund up to 20<sup>th</sup> day of commencement of classes.
  - 50% refund up to 30<sup>th</sup> day of commencement of classes.
  - No refund from 31<sup>st</sup> day onwards of commencement of classes.

## 11. Course and Scheme of Studies

### 11.1. Bachelor of Science in Computer Science (General Computing); BSCS(GC) - Requirements

The BSCS with specialization in General Computing students are required to take the following 50 courses to earn 138 credit hours. These courses are designed to meet the general HEC requirements as proposed by the National Curriculum Revision Committee (2023).

Areas	Credit Hours	Courses
Computing Core	46	14
Domain Core	18	6
Domain Elective	21	7
Mathematics & Supporting Courses	12	4
Elective Supporting Courses	3	1
General Education Requirement & TOQ	34 + 4	14 + 4
<b>Totals</b>	<b>138</b>	<b>50</b>

#	Sem #	Code	Pre-Reqs	Course Title	Cr hr
<b>Computing Core (46/138) 14 Courses</b>					
1	1	CSC-101		Programming Fundamentals	4 (3-3)
2	2	CSC-102	CSC-101	Object Oriented Programming	4 (3-3)
3	2	CSC-103		Database Systems	4 (3-3)
4	2	CSC-111		Digital Logic Design	3 (2-3)
5	3	CSC-201	CSC-102	Data Structures	4 (3-3)
6	3	CSC-202		Information Security	3 (2-3)
7	3	CSC-203		Artificial Intelligence	3 (2-3)
8	3	CSC-204		Computer Networks	3 (2-3)
9	3	CSC-205		Software Engineering	3 (3-0)
10	4	CSC-211	CSC-111	Computer Organization & Assembly Language	3 (2-3)
11	5	CSC-301		Operating Systems	3 (2-3)
12	7	CSC-401	CSC-201	Analysis of Algorithms	3 (3-0)
13	7	CSC-498		Final Year Project - I	2 (0-6)
14	8	CSC-499	CSC-498	Final Year Project - II	4 (0-12)
<b>Domain Core (18/138) 6 Courses</b>					
15	5	CSC-302		Theory of Automata	3 (3-0)
16	5	CSC-303	CSC-103	Advance Database Management Systems	3 (2-3)
17	6	CSC-311	CSC-211	Computer Architecture	3 (2-3)
18	6	CSC-312	CSC-302	Compiler Construction	3 (2-3)
19	6	CSC-313		HCI & Computer Graphics	3 (2-3)
20	6	CSC-314	CSC-301	Parallel & Distributed Computing	3 (2-3)

Domain Elective (21/138) 7 Courses						
21	4	CSC-251		Web Technologies		3 (2-3)
22	4	CSC-252	CSC-102	Advanced Programming		3 (2-3)
23	5	CSC-351	CSC-251	Web Engineering		3 (2-3)
24	5	CSC-352		Numerical Analysis		3 (2-3)
25	6	CSC-353		Mobile Application Development 1		3 (2-3)
26	6	CSC-354	CSC-202	Cyber Security		3 (2-3)
27	7	CSE-422		Software Testing & Quality Assurance		3 (2-3)
.		CSC-355		Cloud Computing		3 (2-3)
.		CSC-356		Computer Graphics		3 (2-3)
.		CSE-325		Object Oriented Analysis & Design		3 (2-3)
.		CSC-451		Mobile Application Development 2		3 (2-3)
Mathematics & Supporting Courses (12/138) 4 Courses						
28	2	MTH-102	MTH-101	Multivariable Calculus		3 (3-0)
29	2	MTH-103	MTH-101	Linear Algebra		3 (3-0)
30	3	STT-101		Probability & Statistics		3 (3-0)
31	7	ENG-401	ENG-201	Technical & Business Writing		3 (3-0)
Elective Supporting Courses (3/138) 1 Course						
32	7	MGT-351		Social Science (Example: Introduction to Marketing)		3 (3-0)
.		MGT-322		Social Science (Example: Financial Accounting)		3 (3-0)
General Education Requirement as per HEC UG Education Policy 2022 (34/138) 14 Courses						
33	1	CSC-100		Application of Information & Communication Technologies		3 (2-3)
34	1	CSC-110		Discrete Structures		3 (3-0)
35	1	MTH-101		Calculus and Analytic Geometry		3 (3-0)
36	1	ENG-102		Functional English		3 (3-0)
37	4	ENG-201	ENG-102	Expository Writing		3 (3-0)
38	4	IS-201		Islamic Studies		2 (2-0)
39	4	PHY-201		Applied Physics		3 (2-3)
40	5	SOS-302		Seerat Studies		2 (2-0)
41	5	SSH-301		Introduction to Management		2 (2-0)
42	6	SSH-303		Pakistan Studies		2 (2-0)
43	7	SSH-401		Entrepreneurship		2 (2-0)
44	8	SSH-402		Professional Practices		2 (2-0)
45	8	SSH-403		Civics and Community Engagement		2 (2-0)
46	8	SSH-404		Ideology and Constitution of Pakistan		2 (2-0)
Translation of Quran (4/138) 4 Courses & Mathematics Deficiency (for Pre-Medical Students)						
47	1	TOQ-101		Translation of Quran I		1 (1-0)
48	2	TOQ-102		Translation of Quran II		1 (1-0)
49	4	TOQ-201		Translation of Quran III		1 (1-0)
50	5	TOQ-301		Translation of Quran IV		1 (1-0)
.	1	MTH-001		Pre-Calculus I (Deficiency for Pre-Medical Students)		3 (3-0)
.	1	MTH-002		Pre-Calculus II (Deficiency for Pre-Medical Students)		3 (3-0)

## 11.2. Bachelor of Science in Computer Science (Artificial Intelligence); BSCS (AI) - Requirements

The BSCS with specialization in Artificial Intelligence students are required to take the following 50 courses to earn 138 credit hours. These courses are designed to meet the general HEC requirements as proposed by the National Curriculum Revision Committee (2023).

Areas	Credit Hours	Courses
Computing Core	46	14
Domain Core	18	6
Domain Elective	21	7
Mathematics & Supporting Courses	12	4
Elective Supporting Courses	3	1
General Education Requirement & TOQ	34 + 4	14 + 4
<b>Totals</b>	<b>138</b>	<b>50</b>

#	Sem #	Code	Pre-Reqs	Course Title	Cr hr
<b>Computing Core (46/138) 14 Courses</b>					
1	1	CSC-101		Programming Fundamentals	4 (3-3)
2	2	CSC-102	CSC-101	Object Oriented Programming	4 (3-3)
3	2	CSC-103		Database Systems	4 (3-3)
4	2	CSC-111		Digital Logic Design	3 (2-3)
5	3	CSC-201	CSC-102	Data Structures	4 (3-3)
6	3	CSC-202		Information Security	3 (2-3)
7	3	CSC-203		Artificial Intelligence	3 (2-3)
8	3	CSC-204		Computer Networks	3 (2-3)
9	3	CSC-205		Software Engineering	3 (3-0)
10	4	CSC-211	CSC-111	Computer Organization & Assembly Language	3 (2-3)
11	5	CSC-301		Operating Systems	3 (2-3)
12	7	CSC-401	CSC-201	Analysis of Algorithms	3 (3-0)
13	7	CSC-498		Final Year Project - I	2 (0-6)
14	8	CSC-499	CSC-498	Final Year Project - II	4 (0-12)
<b>Domain Core (18/138) 6 Courses</b>					
15	5	CSC-302		Theory of Automata	3 (3-0)
16	5	CSC-303	CSC-103	Advance Database Management Systems	3 (2-3)
17	6	CSC-311	CSC-211	Computer Architecture	3 (2-3)
18	6	CSC-312	CSC-302	Compiler Construction	3 (2-3)
19	6	CSC-313		HCI & Computer Graphics	3 (2-3)
20	6	CSC-314	CSC-301	Parallel & Distributed Computing	3 (2-3)
<b>Domain Elective (21/138) 7 Courses</b>					
21	4	CAI-261		Programming for AI	3 (2-3)

22	4	CAI-262	CSC-203	Machine Learning	3 (2-3)
23	5	CAI-361	CAI-261	Artificial Neural Networks & Deep Learning	3 (2-3)
24	5	CAI-362		Knowledge Representation & Reasoning	3 (2-3)
25	6	CAI-363	CAI-361	Computer Vision	3 (2-3)
26	6	CAI-364	CAI-361	Natural Language Processing	3 (2-3)
27	7	CAI-461	CAI-262	Reinforcement Learning	3 (2-3)
.		CSC-353		Mobile Application Development 1	3 (2-3)
.		CSC-251		Web Technologies	3 (2-3)
.		CSC-252	CSC-102	Advanced Programming	3 (2-3)
.		CAI-466		Deep Learning	3 (2-3)
<b>Mathematics &amp; Supporting Courses (12/138) 4 Courses</b>					
28	2	MTH-102	MTH-101	Multivariable Calculus	3 (3-0)
29	2	MTH-103	MTH-101	Linear Algebra	3 (3-0)
30	3	STT-101		Probability & Statistics	3 (3-0)
31	7	ENG-401	ENG-201	Technical & Business Writing	3 (3-0)
<b>Elective Supporting Courses (3/138) 1 Course</b>					
32	7	MGT-351		Social Science (Example: Introduction to Marketing)	3 (3-0)
.		MGT-322		Social Science (Example: Financial Accounting)	3 (3-0)
<b>General Education Requirement as per HEC UG Education Policy 2022 (34/138) 14 Courses</b>					
33	1	CSC-100		Application of Information & Communication Technologies	3 (2-3)
34	1	CSC-110		Discrete Structures	3 (3-0)
35	1	MTH-101		Calculus and Analytic Geometry	3 (3-0)
36	1	ENG-102		Functional English	3 (3-0)
37	4	ENG-201	ENG-102	Expository Writing	3 (3-0)
38	4	IS-201		Islamic Studies	2 (2-0)
39	4	PHY-201		Applied Physics	3 (2-3)
40	5	SOS-302		Seerat Studies	2 (2-0)
41	5	SSH-301		Introduction to Management	2 (2-0)
42	6	SSH-303		Pakistan Studies	2 (2-0)
43	7	SSH-401		Entrepreneurship	2 (2-0)
44	8	SSH-402		Professional Practices	2 (2-0)
45	8	SSH-403		Civics and Community Engagement	2 (2-0)
46	8	SSH-404		Ideology and Constitution of Pakistan	2 (2-0)
<b>Translation of Quran (4/138) 4 Courses &amp; Mathematics Deficiency (for Pre-Medical Students)</b>					
47	1	TOQ-101		Translation of Quran I	1 (1-0)
48	2	TOQ-102		Translation of Quran II	1 (1-0)
49	4	TOQ-201		Translation of Quran III	1 (1-0)
50	5	TOQ-301		Translation of Quran IV	1 (1-0)
.	1	MTH-001		Pre-Calculus I (Deficiency for Pre-Medical Students)	3 (3-0)
.	1	MTH-002		Pre-Calculus II (Deficiency for Pre-Medical Students)	3 (3-0)



### 11.3. Bachelor of Science in Software Engineering; BSSE - Requirements

The BSSE students are required to take the following 50 courses to earn 138 credit hours. These courses are designed to meet the general HEC requirements as proposed by the National Curriculum Revision Committee (2023).

Areas	Credit Hours	Courses
Computing Core	46	14
Domain Core	18	6
Domain Elective	21	7
Mathematics & Supporting Courses	12	4
Elective Supporting Courses	3	1
General Education Requirement & TOQ	34 + 4	14 + 4
<b>Totals</b>	<b>138</b>	<b>50</b>

#	Sem #	Code	Pre-Reqs	Course Title	Cr hr
<b>Computing Core (46/138) 14 Courses</b>					
1	1	CSC-101		Programming Fundamentals	4 (3-3)
2	2	CSC-102	CSC-101	Object Oriented Programming	4 (3-3)
3	2	CSC-103		Database Systems	4 (3-3)
4	2	CSC-111		Digital Logic Design	3 (2-3)
5	3	CSC-201	CSC-102	Data Structures	4 (3-3)
6	3	CSC-202		Information Security	3 (2-3)
7	3	CSC-203		Artificial Intelligence	3 (2-3)
8	3	CSC-204		Computer Networks	3 (2-3)
9	3	CSC-205		Software Engineering	3 (3-0)
10	4	CSC-211	CSC-111	Computer Organization & Assembly Language	3 (2-3)
11	5	CSC-301		Operating Systems	3 (2-3)
12	7	CSC-401	CSC-201	Analysis of Algorithms	3 (3-0)
13	7	CSC-498		Final Year Project - I	2 (0-6)
14	8	CSC-499	CSC-498	Final Year Project - II	4 (0-12)
<b>Domain Core (18/138) 6 Courses</b>					
15	5	CSE-320		Software Design & Architecture	3 (3-0)
16	5	CSE-321		Software Construction & Development	3 (2-3)
17	6	CSE-322		Software Project Management	3 (2-3)
18	6	CSE-323		Software Quality Engineering	3 (2-3)
19	6	CSE-324		Software Requirement Engineering	3 (2-3)
20	6	CSC-314	CSC-301	Parallel & Distributed Computing	3 (2-3)
<b>Domain Elective (21/138) 7 Courses</b>					
21	4	CSC-251		Web Technologies	3 (2-3)
22	4	CSC-252	CSC-102	Advanced Programming	3 (2-3)

23	5	CSC-302		Theory of Automata	3 (3-0)
24	5	CSC-313		HCI & Computer Graphics	3 (2-3)
25	6	CSC-353		Mobile Application Development I	3 (2-3)
26	6	CSE-325		Object Oriented Analysis & Design	3 (2-3)
27	7	CSE-422		Software Testing & Quality Assurance	3 (2-3)
.		CSE-326		Software Re-Engineering	3 (2-3)
.		CSC-303	CSC-103	Advanced Database Management Systems	3 (2-3)
.		CSC-311	CSC-211	Computer Architecture	3 (2-3)
.		CSC-351	CSC-251	Web Engineering	3 (2-3)
<b>Mathematics &amp; Supporting Courses (12/138) 4 Courses</b>					
28	2	MTH-102	MTH-101	Multivariable Calculus	3 (3-0)
29	2	MTH-103	MTH-101	Linear Algebra	3 (3-0)
30	3	STT-101		Probability & Statistics	3 (3-0)
31	7	ENG-401	ENG-201	Technical & Business Writing	3 (3-0)
<b>Elective Supporting Courses (3/138) 1 Course</b>					
32	7	MGT-351		Social Science (Example: Introduction to Marketing)	3 (3-0)
.		MGT-322		Social Science (Example: Financial Accounting)	3 (3-0)
<b>General Education Requirement as per HEC UG Education Policy 2022 (34/138) 14 Courses</b>					
33	1	CSC-100		Application of Information & Communication Technologies	3 (2-3)
34	1	CSC-110		Discrete Structures	3 (3-0)
35	1	MTH-101		Calculus and Analytic Geometry	3 (3-0)
36	1	ENG-102		Functional English	3 (3-0)
37	4	ENG-201	ENG-102	Expository Writing	3 (3-0)
38	4	IS-201		Islamic Studies	2 (2-0)
39	4	PHY-201		Applied Physics	3 (2-3)
40	5	SOS-302		Seerat Studies	2 (2-0)
41	5	SSH-301		Introduction to Management	2 (2-0)
42	6	SSH-303		Pakistan Studies	2 (2-0)
43	7	SSH-401		Entrepreneurship	2 (2-0)
44	8	SSH-402		Professional Practices	2 (2-0)
45	8	SSH-403		Civics and Community Engagement	2 (2-0)
46	8	SSH-404		Ideology and Constitution of Pakistan	2 (2-0)
<b>Translation of Quran (4/138) 4 Courses &amp; Mathematics Deficiency</b>					
47	1	TOQ-101		Translation of Quran I	1 (1-0)
48	2	TOQ-102		Translation of Quran II	1 (1-0)
49	4	TOQ-201		Translation of Quran III	1 (1-0)
50	5	TOQ-301		Translation of Quran IV	1 (1-0)
.	1	MTH-001		Pre-Calculus I (Deficiency for Pre-Medical Students)	3 (3-0)
.	1	MTH-002		Pre-Calculus II (Deficiency for Pre-Medical Students)	3 (3-0)

## 12. Academic Calendar

**2025 – 2027**

(Subject to change according to University sessions and Academic Council approvals)

<b>Fall Semester</b>	1 <sup>st</sup> September 2025 – 4 <sup>th</sup> January 2026
<b>Spring Semester</b>	12 <sup>th</sup> January 2026 – 24 <sup>th</sup> May 2026
<b>Summer Semester</b>	8 <sup>th</sup> June 2026 – 9 <sup>th</sup> August 2026
<b>Fall Semester</b>	31 <sup>st</sup> August 2026 – 3 <sup>rd</sup> January 2027
<b>Spring Semester</b>	18 <sup>th</sup> January 2027 – 23 <sup>rd</sup> May 2027

## 13. Documents Checklist for Application Form

1. The application forms must be submitted on or before the stated date.
2. You need to attach attested copies of your certificates and provisional certificate, if any, along with the application form (see checklist below).
3. **Please make sure that your name should be in the same format as given on your Matric Certificate.**

Note: Provide **Three** sets of each document

- Matric Certificate (plus Detail Marks sheet)  
or O' Levels Certificate (plus Equivalence Certificate from IBCC)
- Intermediate Certificate (plus Detail Marks sheet)  
or A' Levels Certificate (plus Equivalence Certificate from IBCC)
- Bachelors Degree (if any)
- Bachelors Detail Marks sheet
- Masters Degree (if any)
- National ID Card and Fathers National ID Card
- Latest Photographs (1 attested, 2 un-attested)
- Signed Undertaking by Parent and Student (for provisional admission students - 1<sup>st</sup> year result only)