



BURAQ INSTITUTE
OF SCIENCE & TECHNOLOGY

SINCE 2001



Affiliated with
PMAS Arid Agriculture University

PROSPECTUS

2026 - 2027



Quality
Education



Experienced
Faculty



Industry
Linkages



Career Support &
Placement



Modern
Facilities & Labs



BURAQ INSTITUTE
OF SCIENCE & TECHNOLOGY



Educate
Your Mind
Inspire
Your Future



Innovate
with Technology
Lead with
Knowledge

PATHWAYS TO KNOWLEDGE & INNOVATION

Build Your Future with Industry-Relevant Education

LEARN TODAY

LEAD TOMORROW

SUCCEED ALWAYS

Programs Offered

PROGRAMS OFFERED



DEPARTMENT OF COMPUTER SCIENCES

BS ARTIFICIAL
INTELLIGENCE

BS SOFTWARE
ENGINEERING

BS GENERAL
COMPUTING



DEPARTMENT OF MANAGEMENT SCIENCES

BBA BACHELOR OF
BUSINESS
ADMINISTRATION

BS ACCOUNTING &
FINANCE



DEPARTMENT OF SCIENCES

BS MATHEMATICS

BS ENVIRONMENTAL
SCIENCES



Board of Directors

The Board of Directors of Buraq Institute of Science & Technology comprises distinguished educationists, professionals, academicians, and industry leaders committed to promoting academic excellence, institutional governance, innovation, and sustainable development. The Board provides strategic direction to ensure that the institute maintains the highest standards of higher education while responding effectively to the evolving needs of society, industry, and the national economy.

The Board oversees institutional policies, academic planning, financial stewardship, infrastructure development, quality assurance, and strategic partnerships. Through its collective experience and visionary leadership, the Board remains dedicated to creating an educational environment that nurtures intellectual growth, ethical values, professional competence, and lifelong learning.

Board Members

Name	Position
Muhammad Asad	Managing Director
Muhammad Muzzamil	Director Academics
Dr. Qlander Hayat	Campus Director

Managing Director Message

Mr. Muhammad Asad

Education is not merely the acquisition of knowledge; it is the foundation for innovation, leadership, and national development. It is my distinct pleasure to welcome you to Buraq Institute of Science & Technology. Since its establishment in 2001, Buraq has remained steadfast in its commitment to providing quality education that empowers students with knowledge, professional competencies, ethical values, and the confidence to excel in an increasingly competitive world. Over the years, the institute has evolved into a dynamic educational institution by continuously expanding its academic portfolio, strengthening institutional partnerships, and embracing innovative teaching and learning practices.



Beginning with undergraduate and postgraduate programs under the affiliation of Allama Iqbal Open University, followed by technical education through the Punjab Board of Technical Education, and subsequently professional skills development under PSDF and NAVTTC, Buraq has consistently adapted to the changing educational landscape of Pakistan. Today, through its affiliation with Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, the institute proudly offers contemporary degree programs designed to address the emerging demands of industry, technology, business, and scientific research.

At Buraq, we firmly believe that higher education must extend beyond classroom instruction. Our students are encouraged to engage in research, innovation, entrepreneurship, industrial exposure, leadership development, and community service. We are committed to cultivating graduates who possess not only academic excellence but also the critical thinking, creativity, adaptability, and ethical responsibility required to become future leaders and responsible global citizens.

As Managing Director, I warmly welcome all prospective students and their families to become part of the Buraq family. Together, let us build a future defined by knowledge, innovation, integrity, and service to humanity. I wish every student continued success in their academic journey and future professional endeavors.

Director Academics Message

Mr. Muhammad Muzzamil

Education serves as the cornerstone of individual growth and national progress. At Buraq Institute of Science & Technology, our academic philosophy is centered on delivering high-quality education that integrates theoretical knowledge with practical application, critical inquiry, and professional development. Our objective is to cultivate graduates who are intellectually competent, ethically grounded, and capable of addressing contemporary challenges through innovation and informed decision-making.



The institute has developed an academic environment that promotes excellence in teaching, research, creativity, and lifelong learning. Our curricula are designed in accordance with the academic standards of our affiliating bodies while incorporating contemporary developments in science, technology, business, and management. Through outcome-based education, project-based learning, internships, industrial collaborations, and research opportunities, students gain practical exposure that enhances both their academic and professional competencies. Academic quality is sustained through experienced faculty members, continuous curriculum improvement, modern instructional methodologies, digital learning resources, and a robust quality assurance framework. Beyond academics, students are encouraged to participate in professional societies, seminars, conferences, leadership activities, innovation competitions, and community engagement initiatives that contribute to their holistic development.

As Director Academics, I believe that education is a transformative journey that empowers individuals to become innovators, entrepreneurs, researchers, and responsible citizens. I invite every student to embrace the opportunities available at Buraq Institute and to strive for excellence in every aspect of their academic and professional life. On behalf of the academic leadership, I welcome you to our institution and wish you success in your educational pursuits.

Campus Director Message

Dr. Qlander Hayat

Welcome to Buraq Institute of Science & Technology, an institution where academic excellence, innovation, and character development converge to prepare students for the challenges of a rapidly evolving world. Our campus is dedicated to providing a vibrant learning environment that nurtures intellectual curiosity, professional competence, and ethical leadership.



At Buraq, we recognize that meaningful education extends beyond classroom instruction. We strive to create an inclusive academic community where students are encouraged to explore new ideas, engage in interdisciplinary learning, participate in research, collaborate with industry, and contribute positively to society. Through modern classrooms, well-equipped laboratories, digital learning resources, and active student societies, we provide an ecosystem that supports both academic achievement and personal growth.

Our commitment to continuous improvement is reflected in our emphasis on quality assurance, faculty development, student support services, and industry engagement. We encourage students to participate in internships, community outreach, entrepreneurial initiatives, and extracurricular activities that complement their academic experience and prepare them for successful careers.

As Campus Director, I take great pride in the dedication of our faculty, administrative staff, and students, whose collective efforts have established Buraq as an institution focused on excellence, integrity, and innovation. I invite you to become part of our academic community, where you will have the opportunity to discover your potential, achieve your aspirations, and contribute meaningfully to the development of our nation. I wish you every success in your academic journey and look forward to welcoming you to the Buraq family.



BURAQ INSTITUTE
OF SCIENCE & TECHNOLOGY

LEADERSHIP. VISION. EXCELLENCE.

From here, we drive decisions
that shape a better future
for our students.



Focused Leadership
for Student Success



Strategic Planning
for a Bright Future



Commitment to
Excellence in Education



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ABOUT- Buraq Institute of Science & Technology

History

Established in **2001**, **Buraq Institute of Science & Technology (BIST)** has emerged as a progressive institution dedicated to providing quality education, professional development, and technical excellence. Since its inception, the institute has remained committed to producing competent graduates capable of contributing effectively to national development and the global knowledge economy.

The journey of Buraq Institute began with the introduction of undergraduate and postgraduate academic programs under the affiliation of **Allama Iqbal Open University (AIU), Islamabad**, offering **Bachelor of Science (BS)**, **Bachelor of Business Administration (BBA)**, and **Master of Business Administration (MBA)** programs. This marked the institute's first significant contribution toward expanding access to higher education in the region.

Recognizing the increasing demand for skilled technical professionals, Buraq subsequently established **Diploma of Associate Engineering (DAE)** programs after obtaining registration with the **Punjab Board of Technical Education (PBTE), Lahore in 2010**. These programs significantly contributed to the preparation of technically competent manpower for Pakistan's industrial and engineering sectors.

In 2012 with the growing importance of vocational and skill-based education, the institute further expanded its academic portfolio by becoming a registered training partner of the **Pakistan Skill Development Fund (PSDF)**. After that in 2020, the institute get registered with **National Vocational and Technical Training Commission (NAVTTTC)**. Through these collaborations, Buraq successfully offered numerous demand-driven professional and technical short courses aimed at improving employability and workforce readiness.

Entering a new phase of institutional growth, Buraq Institute established an academic affiliation with **Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi (PMAS-AAUR)** in 2026 to offer modern undergraduate degree programs in response to the rapidly changing needs of industry and society. Under this affiliation, the institute launched programs in **Computer Sciences, Management Sciences, and Sciences**, emphasizing quality education, practical learning, research, innovation, entrepreneurship, and industrial engagement.

INSTITUTIONAL MILESTONES



LEARN TODAY | LEAD TOMORROW | SUCCEED ALWAYS

Institutional Profile

Buraq Institute of Science & Technology (BIST) is a multidisciplinary institution of higher learning dedicated to fostering academic excellence, professional competence, research, innovation, and community engagement. The institute offers quality education through contemporary curricula that integrate theoretical knowledge with practical application, preparing students to meet the challenges of an increasingly technology-driven and knowledge-based economy.

Affiliated with **Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi**, BIST provides undergraduate education through three academic departments:

- **Buraq Department of Computer Sciences**
- **Buraq Department of Management Sciences**
- **Buraq Department of Sciences**

The institute complements its academic programs with modern teaching methodologies, project-based learning, industrial exposure, internships, research activities, entrepreneurship development, and student support services. Buraq maintains a student-centered learning environment characterized by qualified faculty, modern classrooms, computer laboratories, science laboratories, digital learning resources, and a strong commitment to continuous quality improvement. The institute actively promotes research, innovation, leadership development, professional ethics, and social responsibility, ensuring that graduates are prepared to become lifelong learners and responsible citizens.

Vision

To become a nationally recognized institution of higher education distinguished by academic excellence, research, innovation, industry collaboration, and community engagement, producing graduates who lead with integrity, creativity, and professional competence while contributing to sustainable socio-economic development.

Mission

Buraq Institute of Science & Technology is committed to providing accessible, affordable, and quality education through innovative teaching, research, industry collaboration, and experiential learning. The institute seeks to develop intellectually competent, ethically responsible, and socially conscious graduates equipped with the knowledge, skills, and leadership qualities necessary to excel in a rapidly evolving global environment.

Learn Today, Lead Tomorrow

BURAQ SALIENT FEATURES



AI-Enabled Smart Classrooms



Advanced High-Tech Laboratories



Foreign Qualified & Research-Oriented PhD Faculty



Industry-Led Curriculum with Practical Learning



International Internship & Exchange Opportunities



Career-Focused Learning with During-Degree Job Placement



Merit & Need-Based Scholarships



Project-Based & Experiential Learning Environment



Innovation, Entrepreneurship & Startup Support



Strong Industry Linkages & Corporate Collaborations



Digital Learning Resources & Smart Campus Facilities



Professional Skill Development & Career Readiness Programs



Outcome-Based Education (OBE) Framework



Research, Innovation & Technology-Driven Education



Internship-to-Employment Career Pathways



Student-Centered Learning with Academic Mentorship



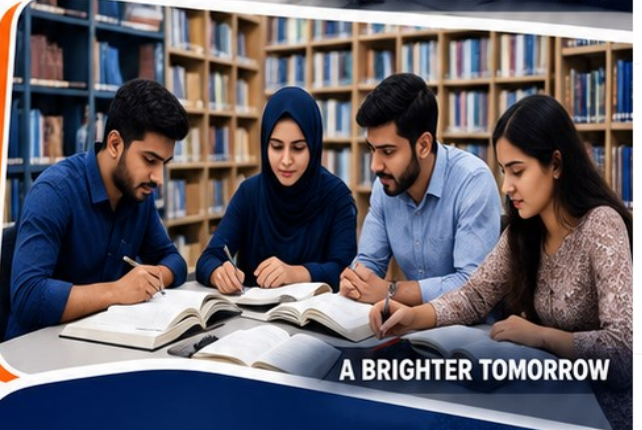
Metro Bus Service Being Served at 6th Road Metro Bus Station



MODERN CLASSROOMS



HANDS-ON LEARNING



A BRIGHTER TOMORROW

BUILD YOUR FUTURE AT BURAQ



Quality
Education



Practical
Learning



Innovation



Industry
Exposure



Career
Development



BURAQ DEPARTMENT OF COMPUTER SCIENCES (BDCS)

Innovate Today. Code Tomorrow. Change the World.

BS PROGRAMS



BS Artificial Intelligence (AI)

Build intelligent systems.
Shape the future with AI.



BS Software Engineering (SE)

Design. Develop. Deploy.
Build innovative software solutions.



BS General Computing (GC)

Explore computing fundamentals.
Create. Solve. Innovate.



Highly Qualified Faculty

Learn from experienced and research-oriented faculty dedicated to your success.



Modern Labs & Facilities

State-of-the-art labs with the latest technologies and tools.



Industry Relevant Curriculum

Designed in collaboration with industry experts to meet global standards.



Industry Linkages

Strong partnerships with leading companies for real-world exposure.



Internships & Job Placements

Internships, career support and job placement assistance.



Project Based Learning

Hands-on projects to enhance practical skills and problem-solving.



Hackathons & Tech Events

Participate in hackathons, competitions and tech events.

**CODE.
CREATE.
INNOVATE.
LEAD.**



Conceptual
Learning



Analytical &
Problem Solving



Research
Opportunities



Sustainability
Awareness



Mentorship &
Guidance



Pathway to
Higher Studies

Department of Computer Sciences

The **Buraq Department of Computer Sciences** is dedicated to producing competent computing professionals equipped with the knowledge, technical expertise, and innovative mindset required to excel in the rapidly evolving digital world. Established under the academic affiliation of **Pir Mehr Ali Shah Arid Agriculture University (PMAS-AAUR), Rawalpindi**, the department offers contemporary undergraduate programs designed in accordance with national academic standards and emerging global trends in computing and information technology.

The Department provides an intellectually stimulating environment where students develop a strong theoretical foundation alongside extensive practical experience through modern laboratories, project-based learning, industrial internships, research activities, and collaborative learning experiences. Emphasis is placed on analytical thinking, software development, artificial intelligence, cybersecurity awareness, cloud computing, data science, and emerging digital technologies to prepare graduates for the Fourth Industrial Revolution (Industry 4.0) and the rapidly expanding digital economy.

Vision

To become a leading department of computer sciences recognized for excellence in education, research, innovation, and industry engagement by producing highly skilled computing professionals capable of driving technological advancement and digital transformation.

Mission

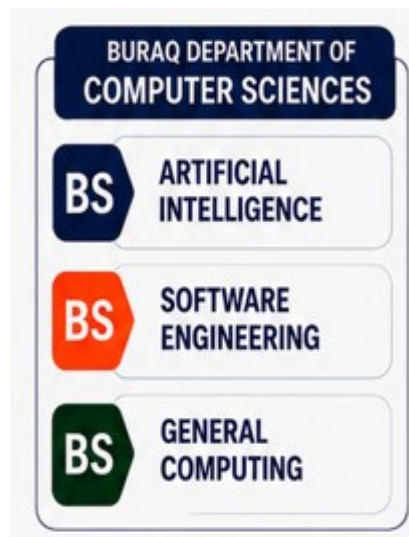
The mission of the Buraq Department of Computer Sciences is to provide quality computing education through innovative teaching, research, practical learning, and industry collaboration. The department is committed to developing graduates who possess technical competence, analytical thinking, ethical responsibility, leadership skills, and entrepreneurial

capabilities to address complex computing challenges and contribute to sustainable technological development.

Degree Programs

The Department currently offers the following undergraduate degree programs under the academic framework of PMAS Arid Agriculture University.

- BS Computer Science (Artificial Intelligence)
- BS Computer Science (Software Engineering)
- BS Computer Science (General Computing)



Eligibility Criteria for Admission

- The candidate must have passed the Higher Secondary School Certificate (**HSSC**)/A- Levels (involving a minimum of 12 years of schooling) or an IBCC-equivalent qualification with at least 50% marks.
- Studying Mathematics at the Intermediate level is the basic eligibility requirement for admission to all BS Computer Science programs.
- Students who have not studied Mathematics at the Intermediate level are required to pass deficiency courses in Mathematics (06 credit hours) during the first year of their degree program.
- The candidate must have secured at least 50% marks in Intermediate (Part-I) in one of the following streams: Pre-Engineering, Pre-Medical, ICS, DAE Or an equivalent qualification recognized by IBCC.

- A candidate must not be more than 25 years of age at the time of admission.

BS Computer Science (Artificial Intelligence)

The **BSCS Artificial Intelligence** program prepares students to develop intelligent systems capable of learning, reasoning, and decision-making. The curriculum covers machine learning, deep learning, computer vision, natural language processing, robotics, intelligent agents, data analytics, and AI ethics. Students engage in hands-on projects using modern AI frameworks and datasets to solve real-world challenges.

Career Opportunities

- AI Engineer
- Machine Learning Engineer
- Data Scientist
- NLP Engineer
- Robotics Engineer
- AI Researcher

Scheme of Study: Bachelor of Science in Computer Science (BSCS) Specialization In Artificial Intelligence (AI)

Semester 1

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-110	Discrete Structures (Quantitative Reasoning-I)	3(3-0)
2	ENG-101	Functional English	3(3-0)
3	CSC-100	Applications of Information and Communication Technologies	3(2-3)
4	SSH-303	Pakistan Studies	2(2-0)
5	CSC-101	Programming Fundamentals	4(3-3)

S. No.	Course Code	Course Title	Credit Hours
6	MTH-101	Calculus & Analytical Geometry	3(3-0)

Semester 2

21 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MTH-102	Multivariable Calculus (Quantitative Reasoning-II)	3(3-0)
2	CSC-103	Database Systems	4(3-3)
3	SOS-302	Seerat Studies	2(2-0)
4	FQ-301	Fehm-e-Quran I	1(0-3)
5	CSC-102	Object Oriented Programming	4(3-3)
6	CSC-111	Digital Logic Design	4(3-3)
7	MTH-103	Linear Algebra	3(3-0)

Semester 3

19 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-204	Computer Networks	3(2-3)
2	CSC-202	Information Security	3(2-3)
3	CSC-203	Artificial Intelligence	3(2-3)
4	CSC-201	Data Structures	4(3-3)
5	CSC-205	Software Engineering	3(3-0)
6	STT-101	Probability & Statistics	3(3-0)

Semester 4

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-302	Theory of Automata	3(3-0)
2	—	Elective I	3(2-3)
3	ENG-201	Expository Writing	3(3-0)
4	IS-201	Islamic Studies	2(2-0)
5	—	Elective II	3(2-3)

S. No.	Course Code	Course Title	Credit Hours
6	CSC-212	Computer Organization & Architecture	3(2-3)

Semester 5

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	PHY-201	Applied Physics (Natural Science)	3(2-3)
2	—	Elective III	3(2-3)
3	—	Elective IV	3(2-3)
4	CSC-311	Operating Systems	4(3-3)
5	MGT-335	Digital Marketing & E-Commerce	3(3-0)
6	SSH-404	Ideology & Constitution of Pakistan	2(2-0)

Semester 6

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-355	Cloud Computing	3(2-3)
2	CSC-402	Design & Analysis of Algorithms	3(3-0)
3	—	Elective V	3(2-3)
4	—	Elective VI	3(2-3)
5	—	Elective VII	3(2-3)
6	SSH-401	Entrepreneurship	2(2-0)

Semester 7

13 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-498	Final Year Project I	2(0-6)
2	—	Elective - VIII	3(2-3)
3	SSH-301	Introduction to Management (Social Science)	2(2-0)
4	FQ-302	Fehm-e-Quran II	1(0-3)
5	SSH-403	Civics and Community Engagement	2(2-0)
6	CSC-497	Professional Certification	3(3-0)

Semester 8
9 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-499	Final Year Project II	4(0-12)
2	CSC-399	Field Experience	3(3-0)
3	SSH-402	Professional Practices (Arts & Humanities)	2(2-0)

BS Computer Science (Software Engineering)

The **BSCS Software Engineering** program equips students with the knowledge and practical skills required to engineer reliable, scalable, and secure software systems. The curriculum emphasizes software design, requirements engineering, testing, quality assurance, DevOps, cloud-native development, software project management, and user-centered design.

Career Opportunities

- Software Engineer
- Full-Stack Developer
- Mobile Application Developer
- DevOps Engineer
- QA Engineer
- Software Architect
- Product Engineer

Scheme of Study
Bachelor of Science in Computer Science (BSCS)
Specialization in Software Engineering (SE)
Semester 1
16 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-110	Discrete Structures	3(3-0)
2	ENG-102	Functional English	3(3-0)
3	CSC-100	Application of Information & Communication Technologies	3(2-3)
4	SSH-303	Pakistan Studies	2(2-0)
5	CSC-101	Programming Fundamentals	4(3-3)
6	MTH-101	Calculus and Analytic Geometry	3(3-0)

Semester 2

21 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MTH-102	Multivariable Calculus (Quantitative Reasoning-II)	3 (3-0)
2	CSC-103	Database Systems	4 (3-3)
3	SOS-302	Seerat Studies	2 (2-0)
4	FQ-301	Fehm-e-Quran – I	1 (0-3)
5	CSC-102	Object Oriented Programming	4 (3-3)
6	CSC-111	Digital Logic Design	4 (3-3)
7	MTH-103	Linear Algebra (Interdisciplinary/Allied – II)	3 (3-0)

Semester 3

19 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-204	Computer Networks	3 (2-3)
2	CSC-202	Information Security	3 (2-3)
3	CSC-203	Artificial Intelligence	3 (2-3)
4	CSC-201	Data Structures	4 (3-3)
5	CSC-205	Software Engineering	3 (3-0)
6	STT-101	Probability & Statistics (Interdisciplinary/Allied – III)	3 (3-0)

Semester 4**17 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	CSC-302	Theory of Automata	3 (3-0)
2	—	Elective-I	3 (2-3)
3	ENG-201	Expository Writing	3 (3-0)
4	IS-201	Islamic Studies	2 (2-0)
5	—	Elective-II	3 (2-3)
6	CSC-212	Computer Organization & Architecture	3 (2-3)

Semester 5**18 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	PHY-201	Applied Physics (Natural Science)	3 (2-3)
2	—	Elective-III	3 (2-3)
3	—	Elective-IV	3 (2-3)
4	CSC-311	Operating Systems	4 (3-3)
5	MGT-335	Digital Marketing & E-Commerce (Interdisciplinary/Allied – IV)	3 (3-0)
6	SSH-404	Ideology & Constitution of Pakistan	2 (2-0)

Semester 6**17 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	CSC-355	Cloud Computing	3 (2-3)
2	CSC-402	Design & Analysis of Algorithms	3 (3-0)
3	—	Elective-V	3 (2-3)
4	—	Elective-VI	3 (2-3)
5	—	Elective-VII	3 (2-3)
6	SSH-401	Entrepreneurship	2 (2-0)

Semester 7**13 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	CSC-498	Final Year Project I	2 (0-6)
2	—	Elective-VIII	3 (2-3)
3	SSH-301	Introduction to Management (Social Science)	2 (2-0)
4	FQ-302	Fehm e Quran II	1 (0-3)
5	SSH-403	Civics and Community Engagement	2 (2-0)
6	CSC-497	Professional Certification	3 (3-0)

Semester 8

9 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-499	Final Year Project II	4 (0-12)
2	CSC-399	Field Experience	3 (3-0)
3	SSH-402	Professional Practices (Arts & Humanities)	2 (2-0)

BS Computer Science (General Computing)

The **BSCS General Computing** program provides a comprehensive foundation in computer science, enabling students to pursue careers across multiple computing domains. The curriculum balances theory and application, covering programming, algorithms, operating systems, databases, networking, cybersecurity, cloud computing, and emerging technologies. Graduates are equipped with the flexibility to adapt to diverse technological environments and evolving industry needs.

BSCS

GENERAL COMPUTING

CODE TOMORROW.
CREATE LIMITLESS POSSIBILITIES.



MODERN
LEARNING



FUTURE
TECHNOLOGIES



PRACTICAL
EXPOSURE



BRIGHT
FUTURE



ADMISSIONS
OPEN
ENROLL TODAY!



IN-DEMAND
SKILLS



EXCITING
CAREERS



ENDLESS
OPPORTUNITIES



SHAPING
TOMORROW



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info@buraqinst.edu.pk



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Buraq Center, 1st-D, 6th Road,
Satellite Town, Rawalpindi

Scheme of Studies**Bachelor of Science in Computer Science (BSCS)****Specialization in General Computing (GC)****Semester 1****18 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	CSC-110	Discrete Structures (Quantitative Reasoning-I)	3(3-0)
2	ENG-101	Functional English	3(3-0)
3	CSC-100	Applications of Information and Communication Technologies	3(2-3)
4	SSH-303	Pakistan Studies	2(2-0)
5	CSC-101	Programming Fundamentals	4(3-3)
6	MTH-101	Calculus & Analytical Geometry	3(3-0)

Semester 2**21 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	MTH-102	Multivariable Calculus (Quantitative Reasoning-II)	3(3-0)
2	CSC-103	Database Systems	4(3-3)
3	SOS-302	Seerat Studies	2(2-0)
4	FQ-301	Fehm-e-Quran I	1(0-3)
5	CSC-102	Object Oriented Programming	4(3-3)
6	CSC-111	Digital Logic Design	4(3-3)
7	MTH-103	Linear Algebra	3(3-0)

Semester 3**19 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	CSC-204	Computer Networks	3(2-3)
2	CSC-202	Information Security	3(2-3)
3	CSC-203	Artificial Intelligence	3(2-3)
4	CSC-201	Data Structures	4(3-3)
5	CSC-205	Software Engineering	3(3-0)

S. No.	Course Code	Course Title	Credit Hours
6	STT-101	Probability & Statistics	3(3-0)

Semester 4

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-302	Theory of Automata	3(3-0)
2	—	Elective I	3(2-3)
3	ENG-201	Expository Writing	3(3-0)
4	IS-201	Islamic Studies	2(2-0)
5	—	Elective II	3(2-3)
6	CSC-212	Computer Organization & Architecture	3(2-3)

Semester 5

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	PHY-201	Applied Physics (Natural Science)	3(2-3)
2	—	Elective III	3(2-3)
3	—	Elective IV	3(2-3)
4	CSC-311	Operating Systems	4(3-3)
5	MGT-335	Digital Marketing & E-Commerce	3(3-0)
6	SSH-404	Ideology & Constitution of Pakistan	2(2-0)

Semester 6

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-355	Cloud Computing	3(2-3)
2	CSC-402	Design & Analysis of Algorithms	3(3-0)
3	—	Elective V	3(2-3)
4	—	Elective VI	3(2-3)
5	—	Elective VII	3(2-3)
6	SSH-401	Entrepreneurship	2(2-0)

Semester 7

13 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-498	Final Year Project I	2(0-6)
2	—	Elective VIII	3(2-3)
3	SSH-301	Introduction to Management	2(2-0)
4	FQ-302	Fehm-e-Quran II	1(0-3)
5	SSH-403	Civics and Community Engagement	2(2-0)
6	CSC-497	Professional Certification	3(3-0)

Semester 8

9 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-499	Final Year Project II	4(0-12)
2	CSC-399	Field Experience	3(3-0)
3	SSH-402	Professional Practices	2(2-0)

Department of Management Sciences

Department of **MANAGEMENT SCIENCES**

BBA BACHELOR OF BUSINESS ADMINISTRATION

- Marketing
- Human Resource Management (HRM)
- Entrepreneurship
- Supply Chain Management (SCM)
- Finance
- Quality Management
- Islamic Banking and Finance

BS BACHELOR OF SCIENCE

- Accounting & Finance

**1****Foreign Qualified
PhD Faculty****2****Abroad
Internships****3****Strong Industry
Linkages****4****During Degree
Job Placements****5****Industry Driven
Knowledge****Quality Education
with Ethics****Industry Oriented
Curriculum****Experienced
Faculty****Global Exposure
& Internships****Career Support
& Placement****LEARN • LEAD • SUCCEED**

Buraq Department of Management Sciences is committed to developing academically competent, professionally skilled, ethically responsible, and entrepreneurial graduates capable of responding effectively to the changing requirements of business, industry, government, and society. The Department provides a multidisciplinary learning environment that integrates contemporary management theories with practical business applications, enabling students to understand organizations, markets, financial systems, human behavior, operations, and strategic decision-making.

Vision

“To become a leading center of management education that develops innovative, ethical, entrepreneurial, and professionally competent graduates capable of creating value for organizations, economies, and society in a dynamic global environment”.

The Department aspires to establish a learning culture in which students combine **business knowledge, technological awareness, analytical thinking, leadership, creativity, and ethical responsibility** to address contemporary organizational and socioeconomic challenges.

Mission

“To provide quality, industry-oriented management education through contemporary curricula, experiential learning, research, entrepreneurship, technology integration, and professional development, enabling students to become competent, ethical, innovative, and socially responsible business professionals and leaders.”

Degree Programs

The department is currently offering the following degree programs.

- Bachelor of Business Administration (BBA)
- BS Accounting & Finance
- BS Economics

BURAQ DEPARTMENT OF

MANAGEMENT SCIENCES

- HRM
- MARKETING
- FINANCE
- SCM
- ENTREPRENEURSHIP
- QUALITY MANAGEMENT
- ISLAMIC BANKING AND FINANCE

ACCOUNTING & FINANCE

ECONOMICS

Eligibility Criteria for Admission

A person (male/female) holding Intermediate Certificate, A-Level or equivalent certificate from any recognized institute with at least, 50% marks for admission in BBA and BS Accounting and Finance and 45% marks for admission in BS Economics. A candidate must not be more than 25 years of age at the time of admission.

Bachelor of Business Administration (BBA)

The **Bachelor of Business Administration (BBA)** is designed to provide students with a comprehensive understanding of contemporary business and management. The program develops a strong foundation in management principles while enabling students to develop specialized knowledge in areas relevant to their professional interests.

The curriculum is intended to integrate **management theory, business analytics, communication, technology, entrepreneurship, leadership, and practical learning**. Students are encouraged to develop the ability to understand organizational challenges, formulate solutions, communicate effectively, and make responsible business decisions.

Major Areas of Study

The BBA provides exposure to areas including:

1. Finance
2. Marketing
3. Human Resource Management
4. Entrepreneurship
5. Supply Chain Management
6. Quality Management
7. Islamic Banking and Finance

Scheme of Studies
Business Administration (BBA)
Semester 1
17 Credit Hours

S.No	Code	Course Title	Cr. Hr.
1	ENG-301	Functional English	3 (3-0)
2	IS-302	Islamic Studies / Ethics	2 (2-0)
3	QR-401	Quantitative Reasoning-I	3 (3-0)
4	SOS-301	Moral Foundation of Education	2 (2-0)
5	MGT-321	Fundamentals of Accounting	3 (3-0)
6	MGT-411	Principles of Management	3 (3-0)
7	FQ-301	Fehm-e-Quran-I	1 (1-0)

Semester 2

17 Credit Hours

S.No	Code	Course Title	Cr. Hr.
1	ENG-302	Expository Writing	3 (3-0)
2	SSH-100	Ideology and Constitution of Pakistan	2 (2-0)
3	QR-1	Quantitative Reasoning-II	3 (3-0)
4	NS-402	The Science of Global Challenges	3 (2-1)
5	MGT-351	Principles of Marketing	3 (3-0)
6	MGT-407	Business Ethics and CSR	3 (3-0)

Semester 3

16 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	SSH-303	Pak Studies	2 (2-0)
2	CS-100	Application of Information and Communication Technologies (ICT)	3 (2-1)
3	SSH-301	Civics and Community Engagement	2 (2-0)
4	STAT-511	Statistical Inference	3 (3-0)
5	MGT-452	Marketing Management	3 (3-0)
6	MGT-574	International Business	3 (3-0)

Semester 4**18 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	ANTH-401	Social Psychology	2 (2-0)
2	FL-302	Foreign Language	2 (2-0)
3	MGT-317	Entrepreneurship	2 (2-0)
4	MGT-512	Organizational Behavior	3 (3-0)
5	MGT-322	Financial Management	3 (3-0)
6	MGT-663	Digital Marketing & Social Media Strategy	3 (3-0)
7	MGT-571	Intro to SCM	3 (3-0)

Semester 5**15 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	MGT-583	Islamic Finance	3 (3-0)
2	MGT-504	Managerial Accounting	3 (3-0)
3	MGT-515	Human Resource Management	3 (3-0)
4	MGT-616	Total Quality Management	3 (3-0)
5	MGT-513	Business Law & Taxation	3 (3-0)

Semester 6**15 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	MGT-580	Strategic Management	3 (3-0)
2	MGT-696	Production Operations Management	3 (3-0)
3	MGT-584	SDGs and Business	3 (3-0)
4	—	Elective-I	3 (3-0)
5	—	Elective-II	3 (3-0)

Semester 7**18 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	MGT-493	Business Research Methods	3 (3-0)
2	MGT-474	AI in Business	3 (3-0)

S. No.	Course Code	Course Title	Credit Hours
3	—	Elective-III	3 (3-0)
4	—	Elective-IV	3 (3-0)
5	MGT-698	Internship	3 (0-6)
6	MGT-493	Business Research Methods	3 (3-0)

Semester 8

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MGT-697	Business & Management Relevant Certification	3 (3-0)
2	MGT-644	E-Commerce and Digital Business	3 (3-0)
3	—	Elective-V	3 (3-0)
4	—	Elective-VI	3 (3-0)
5	MGT-699	Capstone Project	3 (3-0)

BS Accounting & Finance

The **BS Accounting & Finance** program is designed to develop graduates with strong competencies in accounting, financial management, financial analysis, reporting, taxation, auditing, investment, and corporate financial decision-making. The program combines accounting principles with modern financial management concepts and emphasizes the development of analytical and technological skills required in contemporary financial environments.

Scheme of Study of BS A&F

Semester 1

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	QR-401	Quantitative Reasoning-I	3 (3-0)
2	ENG-301	Functional English	3 (3-0)

S. No.	Course Code	Course Title	Credit Hours
3	CS-100	Applications of Information and Communication Technologies	3 (2-1)
4	MGT-411	Principles of Management	3 (3-0)
5	MGT-321	Principles of Accounting	3 (3-0)
6	ECON-301	Principles of Economics	3 (3-0)

Semester 2

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	QR-402	Quantitative Reasoning-II	3 (3-0)
2	ANTH-401	Social Psychology	2 (2-0)
3	ENG-302	Expository Writing	3 (3-0)
4	SSH-301	Civics and Community Engagement	2 (2-0)
5	FQ-301	Fehm-e-Quran – I (for Muslim Students)	1 (0-1)
6	MGT-351	Principles of Marketing	3 (3-0)
7	MGT-322	Financial Accounting	3 (3-0)

Semester 3

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MGT-317	Entrepreneurship	2 (2-0)
2	SSH-303	Pakistan Studies	2 (2-0)
3	FQ-302	Fehm-e-Quran – II (for Muslim Students)	1 (0-1)
4	MGT-512	Organizational Behavior	3 (3-0)
5	MGT-473	Managerial Accounting	3 (3-0)
6	MGT-475	Digital Transformation and Innovation	3 (3-0)
7	MGT-409	CSR and Ethical Governance	3 (3-0)

Semester 4

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	NS-402	Science of Global Challenges	3 (3-0)

S. No.	Course Code	Course Title	Credit Hours
2	SSH-302	Ideology and Constitution of Pakistan	2 (2-0)
3	FL-302	Foreign Language	2 (2-0)
4	IS-302	Islamic Studies	2 (2-0)
5	MGT-424	Business Finance	3 (3-0)
6	MGT-599	Financial Reporting	3 (3-0)

Semester 5

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MGT-597	Financial Markets & Institutions	3 (3-0)
2	MGT-525	Financial Management	3 (3-0)
3	MGT-595	Inferential Statistics	3 (3-0)
4	MGT-662	Digital Marketing	3 (3-0)
5	MGT-526	Money and Banking	3 (3-0)

Semester 6

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MGT-600	Corporate Governance	3 (3-0)
2	MGT-697	Business & Management Relevant Certification*	3 (3-0)
3	MGT-513	Business Law and Taxation	3 (3-0)
4	—	Elective-I	3 (3-0)
5	—	Elective-II	3 (3-0)

Semester 7

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MGT-493	Business Research Methods	3 (3-0)
2	MGT-583	Islamic Finance	3 (3-0)
3	MGT-580	Strategic Management	3 (3-0)
4	—	Elective-III	3 (3-0)
5	—	Elective-IV	3 (3-0)
6	MGT-698	Internship/Field Experience	3 (3-0)

Semester 8
15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MGT-574	International Business	3 (3-0)
2	MGT-592	Investment and Portfolio Management	3 (3-0)
3	—	Elective-V	3 (3-0)
4	—	Elective-VI	3 (3-0)
5	MGT-699	Capstone Project	3 (3-0)

BS Economics

The **Bachelor of Science in Economics (BS Economics)** program at Buraq Institute of Science & Technology is designed to equip students with a robust foundation in economic principles, quantitative reasoning, and policy analysis. Over eight semesters, the curriculum balances theoretical models with practical applications in areas such as econometrics, financial systems, public policy, and global markets, allowing students to systematically evaluate real-world socio-economic issues. By combining academic rigor with hands-on research and data-driven problem solving, the program fosters critical thinking and ethical leadership, preparing graduates to thrive in high-impact careers across banking, corporate finance, economic research, public policy, and government sectors.

Scheme of Study BS Economics
Semester 1
19 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	SOC-301	Introduction to Sociology	2 (2-0)
2	ENG-301	Functional English	3 (3-0)
3	QR-401	Quantitative Reasoning-I	3 (3-0)
4	IS-301	Islamic Studies	2 (2-0)
5	CS-301	Introduction to Computing	3 (3-0)

S. No.	Course Code	Course Title	Credit Hours
6	SCS-301	Social and Civic Services	3 (3-0)
7	ECON-301	Introduction to Economics	3 (3-0)

Semester 2

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	QR-402	Quantitative Reasoning-II	3 (3-0)
2	SSH-302	Ideology and Constitution of Pakistan	2 (2-0)
3	ENG-302	Communication Skills	3 (3-0)
4	ANTH-506	Economic Anthropology	3 (3-0)
5	MGT-444	Digital Entrepreneurship	3 (3-0)
6	ECON-303	Economy of Pakistan	3 (3-0)

Semester 3

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ECON-401	Introduction to Microeconomics	3 (3-0)
2	ECON-403	Introduction to Macroeconomics	3 (3-0)
3	ECON-405	Islamic Economics	3 (3-0)
4	ECON-409	Environmental Economics	3 (3-0)
5	MGT-351	Introduction to Marketing	3 (3-0)
6	ECON-407	Introduction to Banking and Finance	3 (3-0)

Semester 4

17 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ECON-404	Agricultural Economics	2 (2-0)
2	ECON-402	Institutional Economics	3 (3-0)
3	ECON-408	Development Economics-I	3 (3-0)
4	ECON-406	Mathematics for Economist	3 (3-0)
5	MGT-322	Financial Accounting	3 (3-0)
6	ECON-410	Marketing System Analysis	3 (2-2)

Semester 5

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ECON-501	Advanced Microeconomics	3 (3-0)
2	ECON-503	Advanced Macroeconomics	3 (3-0)
3	ECON-505	Economic Problems of Pakistan	3 (3-0)
4	ECON-507	Development Economics-II	3 (3-0)
5	ECON-509	Econometrics-I	3 (2-2)
6	ECON-511	Political Economy of Pakistan	3 (3-0)

Semester 6**18 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	ECON-502	International Economics	3 (3-0)
2	ECON-504	Production Economics	3 (3-0)
3	ECON-506	Public Finance	3 (3-0)
4	ECON-510	Econometrics-II	3 (2-2)
5	MGT-514	Introduction to Project Management	3 (3-0)
6	MGT-644	Introduction to E-Commerce	3 (3-0)

Semester 7**17 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	ECON-603	Monetary Economics	3 (3-0)
2	ECON-607	Natural Resource Economics	3 (3-0)
3	ECON-605	Human Resource Development	2 (2-0)
4	ECON-609	Health Economics	3 (3-0)
5	ECON-611	Research Methods in Economics	3 (1-4)
6	ECON-609	Operation Research	3 (3-0)
7	ECON-613	Topics in Economic Analysis	2 (1-2)

Semester 8**6 Credit Hours**

S. No.	Course Code	Course Title	Credit Hours
1	ECON-610	Capstone Project	3 (0-6)

S. No.	Course Code	Course Title	Credit Hours
2	ECON-612	Internship	3 (0-6)

Department of Sciences



BS MATHEMATICS

- ✓ Build analytical and problem-solving skills.
- ✓ Master real-world mathematical concepts.
- ✓ Create a strong foundation for advanced studies and careers.



BS ENVIRONMENTAL SCIENCES

- ✓ Explore and understand our environment.
- ✓ Promote sustainability and environmental responsibility.
- ✓ Create innovative solutions for a better tomorrow.



Highly Qualified Faculty

Learn from experienced and dedicated faculty committed to academic excellence.



State-of-the-Art Laboratories

Gain practical experience through modern laboratories designed for hands-on learning and research.



Research & Innovation Focus

Participate in research projects, explore innovative ideas and develop academic expertise.



Field Trips & Practical Exposure

Enhance your learning through field visits, industry exposure, and real-world environmental studies.



Scholarships & Merit Support

Access merit-based scholarships and financial assistance opportunities for deserving students.



Career & Higher Studies Pathway

Prepare for careers in academia, research, industry, government, and further higher education.

LEARN TODAY • LEAD TOMORROW



Conceptual
Learning



Analytical &
Problem Solving



Research
Opportunities



Sustainability
Awareness



Mentorship &
Guidance



Pathway to
Higher Studies

The **Buraq Department of Sciences** is dedicated to developing scientific understanding, analytical thinking, quantitative competence, environmental awareness, and research capabilities among students. The Department provides an academically rigorous learning environment in

which students are encouraged to understand scientific principles, investigate real-world problems, interpret evidence, and apply scientific knowledge to contemporary challenges.

Buraq Department of Sciences currently provides academic pathways in **Mathematics and Environmental Sciences**, two disciplines that are increasingly important in a technology-driven and rapidly changing world. Mathematics provides the theoretical and analytical foundation for fields such as computing, artificial intelligence, data science, economics, finance, engineering, and scientific research, while Environmental Sciences addresses critical challenges related to climate change, natural-resource management, pollution, biodiversity, sustainability, and environmental governance.

Vision

“To become a center of excellence in scientific education and research that develops analytically capable, innovative, environmentally responsible, and research-oriented graduates equipped to address contemporary scientific and societal challenges”.

Mission

“To provide quality, student-centered science education through rigorous academic instruction, practical learning, laboratory and field experiences, research, technology integration, and professional development, preparing graduates to pursue advanced education and meaningful careers in science and related fields.”

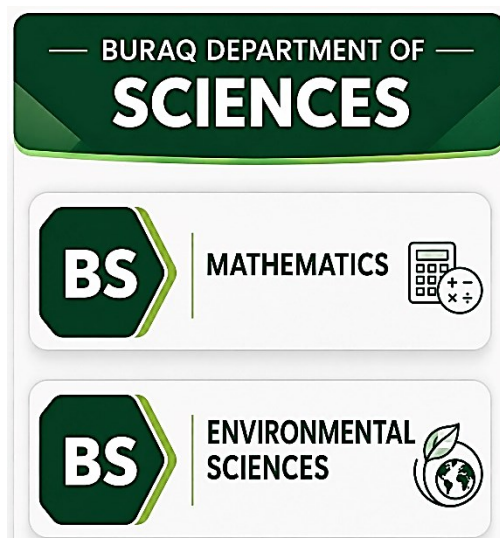
Degree Programs

Buraq Department of Sciences currently offering the following degree programs.

- BS Mathematics
- BS Environmental Sciences

Eligibility Criteria for Admission

- The candidate must have passed the Higher Secondary School Certificate (HSSC)/A- Levels (involving a minimum of 12 years of schooling with science group) or an IBCC-equivalent qualification with at least 45% marks.
- Studying Mathematics at the Intermediate level is the basic eligibility requirement for admission to BS Math.
- Studying Biology at the Intermediate level is the basic eligibility requirement for admission to BS Environmental Science.
- A candidate must not be more than 25 years of age at the time of admission.



BS Mathematics

Mathematics is one of the fundamental disciplines underlying modern science, technology, economics, finance, engineering, artificial intelligence, and data-driven decision-making. The **BS Mathematics program at Buraq** is designed to develop strong mathematical reasoning, logical thinking, quantitative analysis, and problem-solving abilities.

Scheme of Study, BS Mathematics

Semester 1

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENG-102	Functional English	3(3-0)

S. No.	Course Code	Course Title	Credit Hours
2	IS-301 / ET-302	Islamic Studies / Ethics	2(2-0)
3	SSH-403	Civics and Community Engagement	2(2-0)
4	SSH-404	Ideology and Constitution of Pakistan	2(2-0)
5	MTH-111	Calculus and Analytical Geometry-I	3(3-0)
6	MTH-112	Set Theory and Logic	3(3-0)

Semester 2

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENG-201	Expository Writing	3(3-0)
2	SSH-401	Entrepreneurship	2(2-0)
3	SOS-301	Moral Foundation of Education	2(2-0)
4	SOC-301	Introduction to Sociology	2(2-0)
5	MTH-113	Calculus and Analytical Geometry-II	3(3-0)
6	MTH-114	Discrete Mathematics	3(3-0)

Semester 3

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	CSC-100	Application of Information and Communication Technologies	3(2-3)
2	QR-I-401	Quantitative Reasoning-I	3(3-0)
3	MTH-211	Vector Calculus and Complex Numbers	3(3-0)
4	MTH-212	Algebra	3(3-0)
5	MTH-213	Topology	3(3-0)
6	PHY-408	Introduction to Mechanics	3(3-0)

Semester 4

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	PHY-301	Applied Physics	3(2-1)
2	QR-II-402	Quantitative Reasoning-II	3(3-0)

S. No.	Course Code	Course Title	Credit Hours
3	MTH-214	Introduction to Ordinary Differential Equations	3(3-0)
4	MTH-215	Real Analysis-I	3(3-0)
5	MTH-216	Group Theory	3(3-0)
6	CSC-203	Artificial Intelligence	3(2-3)

Semester 5

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MTH-311	Vector and Tensor Analysis	3(3-0)
2	MTH-312	Linear Algebra	3(3-0)
3	MTH-313	Ordinary Differential Equations	3(3-0)
4	MTH-314	Complex Analysis	3(3-0)
5	MGT-391	Business Mathematics	3(3-0)

Semester 6

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MTH-315	Real Analysis-II	3(3-0)
2	MTH-316	Partial Differential Equations	3(3-0)
3	MTH-317	Numerical Analysis	3(3-0)
4	MTH-318	Differential Geometry	3(3-0)
5	STAT-301	Introductory Statistics	3(3-0)

Semester 7

15 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MTH-411	Functional Analysis	3(3-0)
2	MTH-412	Mathematical Physics	3(3-0)
3	MTH-413	Rings and Fields	3(3-0)
4	MTH-414	Fluid Mechanics	3(3-0)
5	MTH-299	Field Experience / Internship	3(0-3)

Semester 8
9 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	MTH-415	Number Theory	3(3-0)
2	MTH-416	Modeling and Simulation	3(2-2)
3	MTH-399	Capstone Project	3(0-3)

BS Environmental Sciences

The **Environmental Sciences program** addresses the scientific, social, and technological dimensions of environmental challenges. With increasing concerns related to climate change, pollution, biodiversity loss, water scarcity, waste management, and sustainable development, environmental knowledge has become essential for governments, industries, communities, and organizations.

The program provides students with an interdisciplinary understanding of the interaction between **natural systems, human activities, resources, and the environment**. Students develop the ability to examine environmental problems scientifically and explore practical approaches for environmental protection and sustainable development.

Scheme of Study BS Environmental Science
Semester I
21 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-301	Introduction to Environmental Science	3 (3-0)
2	NV-302	Soil and Environment	3 (3-0)
3	RSG-303	Introduction to Geographic Information Systems	3 (2-1)
4	SOS-301	Moral Foundation of Education	2 (2-0)
5	SSH-301	Civic and Community Engagement	2 (2-0)
6	ENG-301	Functional English	3 (3-0)

S. No.	Course Code	Course Title	Credit Hours
7	BIOL-301	Biology	3 (2-2)
8	SOS-302	Seerat Studies	2 (2-0)
9	Audit-1	Translation of Holy Quran-I	Non-Credit

Semester 2

20 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-303	Environmental Chemistry	3 (2-2)
2	FR-306	Forestry and Climate Change	3 (3-0)
3	ENG-302	Expository Writing	3 (3-0)
4	SOC-302	Introduction to Sociology	2 (2-0)
5	SSH-302	Ideology and Constitution of Pakistan	2 (2-0)
6	SSH-303	Pakistan Studies	2 (2-0)
7	IS-302/ET-302	Islamic Studies/Ethics	2 (2-0)
8	CSC-100	Applications of Information and Communication Technologies (ICT)	3 (2-2)
9	TOQ-302	Translation of Holy Quran-II	Non-Credit

Semester 3

20 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-401	Environmental Microbiology	3 (2-2)
2	ENV-402	Biodiversity and Conservation	3 (3-0)
3	ENV-403	Environmental Toxicology	3 (3-0)
4	ENV-404	Environmental Law and Policy	3 (3-0)
5	ENV-405	Solid Waste Management	3 (3-0)
6	QR-401	Quantitative Reasoning-I	3 (3-0)
7	MGT-402	Entrepreneurship	2 (2-0)

Semester 4

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-406	Fundamentals of Ecology	3 (3-0)

S. No.	Course Code	Course Title	Credit Hours
2	ENV-407	Air and Noise Pollution	3 (3-0)
3	ENV-408	Natural Resource Management	3 (3-0)
4	ENV-409	Environmental Physics	3 (3-0)
5	QR-402	Quantitative Reasoning-II	3 (1-2)
6	STAT-402	Experimental Design	3 (2-2)
7	TOQ-402	Translation of Holy Quran-IV	Non-Credit

Semester 5

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-501	Environmental Impact and Risk Assessment	3 (3-0)
2	ENV-502	Introduction to GIS and Remote Sensing	3 (3-0)
3	ENV-503	Environmental Profile of Pakistan	3 (3-0)
4	ENV-504	Occupational Safety, Health & Environment	3 (3-0)
5	ENV-505	Climatology	3 (3-0)
6	SS-505	Land Degradation and Management	3 (3-0)

Semester 6

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-506	Environmental Economics	3 (3-0)
2	ENV-507	Introduction to Wastewater Treatment Processes	3 (3-0)
3	ENV-508	Environmental Management Systems	3 (3-0)
4	ENV-509	Climate Smart Agriculture	3 (3-0)
5	ENV-510	Environmental Analytical Techniques	3 (3-0)
6	FMPE-504	Precision Agriculture	3 (2-1)

Semester 7

18 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-601	Environmental Nanotechnology	3 (3-0)
2	ENV-602	Energy and Environment	3 (3-0)
3	ENV-603	Ecotourism	3 (3-0)

S. No.	Course Code	Course Title	Credit Hours
4	ENV-604	Toxic Organics and Trace Metals in Ecosystem	3 (2-2)
5	ENV-605	Cleaner Production Technology	3 (3-0)
6	ENV-606	Disaster Risk Management	3 (3-0)

Semester 8

6 Credit Hours

S. No.	Course Code	Course Title	Credit Hours
1	ENV-609	Field Experience / Internship	3 (0-3)
2	ENV-610	Capstone Project	3 (0-3)

Buraq Fee Structure

Department	Computer Science	Management Science			Sciences	
Programs	BS (CS)	BBA	BS (Acc & Fin)	BS (Economics)	BS (Envi Sci)	BS (Math)
Admission Fee	15,000	15,000	15,000	15,000	15,000	15,000
Semester Fee	75,000	50,000	40,000	40,000	40,000	40,000
Total Fee of First Semester	90,000	65,000	55,000	55,000	55,000	55,000
Scholarships						
Above 80% Marks in Intermediate, 100% of Admission Fee	15,000	15,000	15,000	15,000	15,000	15,000
Net Payable	75,000	50,000	40,000	40,000	40,000	40,000
70-79 % Marks in Intermediate, 75% of Admission Fee	11,250	11,250	11,250	11,250	11,250	11,250
Net Payable	78,750	53,750	43,750	43,750	43,750	43,750
60-69 % Marks in Intermediate, 50% of Admission Fee	7,500	7,500	7,500	7,500	7,500	7,500
Net Payable	82,500	57,500	47,500	47,500	47,500	47,500
Siblings Discount						
For Siblings, 100% of Admission Fee of one sibling	15,000	15,000	15,000	15,000	15,000	15,000
Net Payable	75,000	50,000	40,000	40,000	40,000	40,000

Buraq Offices

The academic support ecosystem of Buraq Institute of Science & Technology, including research, quality enhancement, entrepreneurship, student societies, support offices, campus facilities, admissions, industry collaboration, and alumni engagement. Together, these services are designed to create a student-centered, research-oriented, professionally connected, and intellectually vibrant academic environment.

1. Buraq Research Center (BRC)

Buraq Research Center (BRC) serves as a platform for promoting research, innovation, knowledge creation, and scholarly collaboration across the Institute. The Center encourages faculty members and students to engage in meaningful research addressing contemporary academic, technological, business, environmental, and social challenges. BRC aims to establish a culture in which research is integrated into teaching and learning and where students are encouraged to move beyond classroom knowledge toward inquiry, investigation, innovation, and evidence-based problem solving.

2. Buraq Quality Enhancement Cell (QEC)

Buraq Quality Enhancement Cell (QEC) is responsible for supporting the Institute's commitment to continuous academic and institutional improvement. QEC promotes quality assurance mechanisms across teaching, learning, assessment, academic programs, faculty development, student services, and institutional processes.

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LEARN
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PRACTICE
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INNOVATE
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3. Buraq Alumni Office

The Buraq Alumni Office seeks to maintain long-term relationships between graduates and the Institute. Buraq encourages all former students to register with the Alumni Network. Registration enables the Institute to maintain communication and develop a strong graduate community.

The Alumni Association can serve as a platform connecting former students with each other and with the Institute.

Potential activities include:

- Networking.
- Mentorship.
- Career support.

- Professional events.
- Social gatherings.
- Community initiatives.

4. Buraq Incubation Center (BIC)

Buraq Incubation Center (BIC) promotes entrepreneurship, innovation, startup development, and commercialization of ideas. It provides students and aspiring entrepreneurs with a platform to transform innovative concepts into potentially viable ventures.

Startup Development

BIC may assist students in moving through the startup-development cycle:

Idea → Validation → Business Model → Prototype → Pitch → Market Testing → Growth

Support may include business planning, market research, financial planning, branding, digital marketing, and venture development.

Entrepreneurs may be connected with faculty members, business professionals, entrepreneurs,



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5. Buraq Placement Office (BPO)

The **Buraq Placement Office** assists students in transitioning from academic life to professional careers.

Core Services

- Career counseling.
- CV and resume development.
- Interview preparation.
- Job vacancy dissemination.
- Recruitment drives.
- Employer networking.
- Internship coordination.
- Career workshops.
- Employability training.
- Job-placement support.

The Office seeks to establish relationships with employers and connect qualified students and graduates with relevant career opportunities.

6. Buraq Industry Linkages Office (BILO)

The Industry Linkages Office serves as a bridge between **Buraq and the professional community**.

Major Functions

- Develop industry relationships.
- Facilitate MoUs.
- Coordinate industrial visits.
- Support internships.
- Facilitate industry projects.
- Invite industry experts.
- Organize employer engagement activities.
- Identify industry skill requirements.
- Support collaborative research.

The Office ensures that academic activities remain responsive to evolving professional and industry needs.

7. Buraq Office of Student Affairs

The Office of Student Affairs serves as a central support point for student life and non-academic activities.

Services

- Student societies.
- Events and activities.
- Student welfare.
- Student engagement.
- Counseling coordination.
- Discipline and conduct.
- Student grievances.
- Community activities.
- Cultural activities.

The Office promotes a safe, inclusive, respectful, and engaging student environment.

8. Buraq Examination Cell

The Examination Cell supports the administration of academic assessment and examination activities.

Responsibilities

- Examination scheduling.
- Date sheets.
- Examination coordination.
- Student examination records.
- Results coordination.
- Examination documentation.

- Communication of examination instructions.
- Coordination with relevant academic authorities.

Students are expected to comply with all examination regulations and academic integrity requirements.

9. Buraq Admission Office

The Admission Office facilitates the student admission process from initial inquiry through enrollment.

Services

- Program information.
- Eligibility guidance.
- Application support.
- Document verification.
- Admission processing.
- Fee guidance.
- Student counseling.
- Orientation coordination.

The Office aims to provide applicants with clear, accessible, and timely admission information.



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Student
Friendly Environment



Dedicated
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Professional &
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10. Buraq Library

Buraq library provides students and faculty with resources supporting teaching, learning, research, and independent study.

- Textbooks.
- Reference materials.
- Academic journals.
- Digital resources.
- Research databases where available.
- Online learning resources.
- Reading areas.
- Research support.
- Reference assistance.

Students are encouraged to develop regular reading and research habits and make effective use of library resources.



11.Buraq IT Services

Buraq IT Services supports the Institute's digital academic and administrative environment.

Major Services

- Campus connectivity.
- Computer laboratory support.
- Internet and Wi-Fi services.
- Digital learning platforms.
- Technical support.
- Academic software.
- Student digital services.
- IT infrastructure maintenance.



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- SKILL DEVELOPMENT**
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Buraq Students Societies

1. Buraq Computing Society

Buraq Computing Society provides a platform for students interested in computing, software development, programming, cybersecurity, web technologies, and emerging digital technologies.

Activities

- Coding competitions.
- Hackathons.
- Programming workshops.
- Web-development sessions.
- Software-development projects.
- Technology talks.
- Technical quizzes.

2. Buraq Markovation Society

Buraq Markovation Society combines marketing and innovation to encourage students to explore creative approaches to branding, communication, consumer engagement, and business growth.

Activities

- Marketing competitions.
- Advertising challenges.
- Branding projects.
- Digital marketing workshops.
- Social media campaigns.
- Market research activities.

3. Buraq Society for Human Resource Management

The Society provides students with practical exposure to human resource management and organizational behavior.

Activities

- Mock interviews.
- Recruitment simulations.
- HR case studies.
- Leadership workshops.
- Career sessions.
- Organizational behavior activities.

4. Buraq Society for Supply Chain Management

The Society promotes awareness and practical understanding of procurement, logistics, operations, inventory, transportation, and supply-chain management.

Activities

- Supply-chain simulations.
- Logistics workshops.
- Procurement case studies.
- Industrial visits.
- Inventory-management exercises.
- Expert sessions.

5. Buraq Entrepreneurs Society

The Buraq Entrepreneurs Society encourages students to become opportunity creators and future entrepreneurs.

Activities

- Startup workshops.
- Business-plan competitions.
- Pitch sessions.
- Entrepreneur talks.
- Idea-generation challenges.
- Startup networking.

6. Buraq Society for Artificial Intelligence

The Society provides a platform for students interested in Artificial Intelligence, machine learning, data science, automation, and emerging technologies.

Activities

- AI workshops.
- Machine-learning projects.
- AI competitions.
- Data-analysis sessions.
- Research talks.
- AI demonstrations.

7. Buraq CSR Society

The Buraq CSR Society promotes social responsibility and community engagement among students.

Activities

- Community service.
- Awareness campaigns.
- Tree plantation.
- Donation drives.
- Educational outreach.
- Environmental campaigns.

Annual Events

CSR Week, Community Service Day, Green Campus Campaign, Social Impact Campaign.

Membership

Open to students from all departments. Students develop empathy, leadership, teamwork, communication, and community-service experience.

8. Buraq Student Counseling & Grooming Society

The Society supports students' personal, interpersonal, academic, and professional development.

Activities

- Personality-development sessions.
- Communication workshops.
- Public-speaking activities.
- Interview preparation.
- Career grooming.
- Leadership activities.

9. Buraq Sports Club

The Buraq Sports Club promotes physical fitness, teamwork, discipline, healthy competition, and student wellbeing.

Activities

- Cricket.
- Football.
- Volleyball.
- Badminton.
- Table tennis.
- Athletics.
- Indoor games.

Activities and Events at Buraq



1. Cultural Events

Buraq encourages students to participate in cultural and national events that promote unity, creativity, respect, and social interaction.

Activities may include:

- Independence Day celebrations.
- Cultural days.
- Literary events.
- Debates.
- Speech competitions.
- Art and creative activities.

2. Sports Activities

Sports activities promote:

- Physical fitness.
- Teamwork.
- Discipline.
- Leadership.
- Healthy competition.

Inter-departmental and campus-level competitions may be organized throughout the academic year.

3. Community Service

Students are encouraged to participate in community-service activities such as:

- Awareness campaigns.
- Educational outreach.
- Environmental activities.
- Charity initiatives.
- Volunteer programs.

4. Career Development

Career development activities may include:

- CV-writing workshops.
- Mock interviews.
- Career counseling.
- Employer sessions.
- Professional-skills workshops.
- Internship guidance.
- Recruitment drives.

5. Industrial Visits

Industrial visits provide students with opportunities to observe real organizational environments and understand how academic concepts are applied in practice.

Visits may involve:

- Manufacturing organizations.
- Banks.
- Technology companies.
- Corporate offices.
- Environmental organizations.
- Supply-chain operations.
- Research institutions.

6. Study Tours

Study tours may be organized to provide students with educational exposure beyond the classroom, including visits to:

- Universities.
- Research centers.
- Industries.
- Environmental sites.
- Museums.
- Cultural and historical locations.

7. Workshops, Conferences & Seminars

Buraq encourages academic enrichment through:

- Workshops.
- Conferences.
- Seminars.
- Guest lectures.
- Expert talks.
- Training sessions.

These activities expose students to emerging knowledge, professional practices, research, and contemporary issues.

Campus Facilities

Smart Classrooms

Modern teaching environments support:

- Multimedia presentations.
- Digital learning.
- Interactive teaching.
- Audio-visual resources.
- Technology-supported instruction.



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Discover. Learn. Grow.



Learn | Explore | Grow
Building skills for a better future.



Read Today, Lead Tomorrow
Books open minds. Education shapes destiny.

Computer Laboratories

Computing facilities support:

- Programming.
- Software development.
- Data analysis.
- AI and computing education.
- Business applications.
- Digital skills.



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Science Laboratories

Science laboratories provide opportunities for practical experimentation, observation, measurement, and scientific investigation.

Digital Library

Digital learning resources complement conventional library materials and support independent study and research.

Wi-Fi Campus

Campus connectivity supports academic communication, digital learning, research, and access to online educational resources.

Seminar Hall

The seminar hall provides a venue for:

- Seminars.
- Conferences.
- Workshops.
- Guest lectures.
- Academic events.

Prayer Area

A dedicated prayer area supports students and staff in fulfilling their religious obligations during campus hours.

Cafeteria

The cafeteria provides students and staff with a convenient area for refreshments and social interaction.

Student Lounge

The student lounge provides an informal space for students to relax, interact, and collaborate.

Parking

Parking facilities are provided for students, faculty, staff, and visitors subject to campus policies and available capacity.

Security

The Institute maintains appropriate security arrangements to support a safe and secure learning environment.

Transport

Students may benefit from convenient access to public transportation around the campus, including the **6th Road Metro Bus Station**, which provides an important connectivity advantage for students commuting to and from the Institute.

Scholarships and Fee Assistance

Buraq may facilitate eligible students through scholarship and financial-support opportunities subject to applicable policies and available resources.

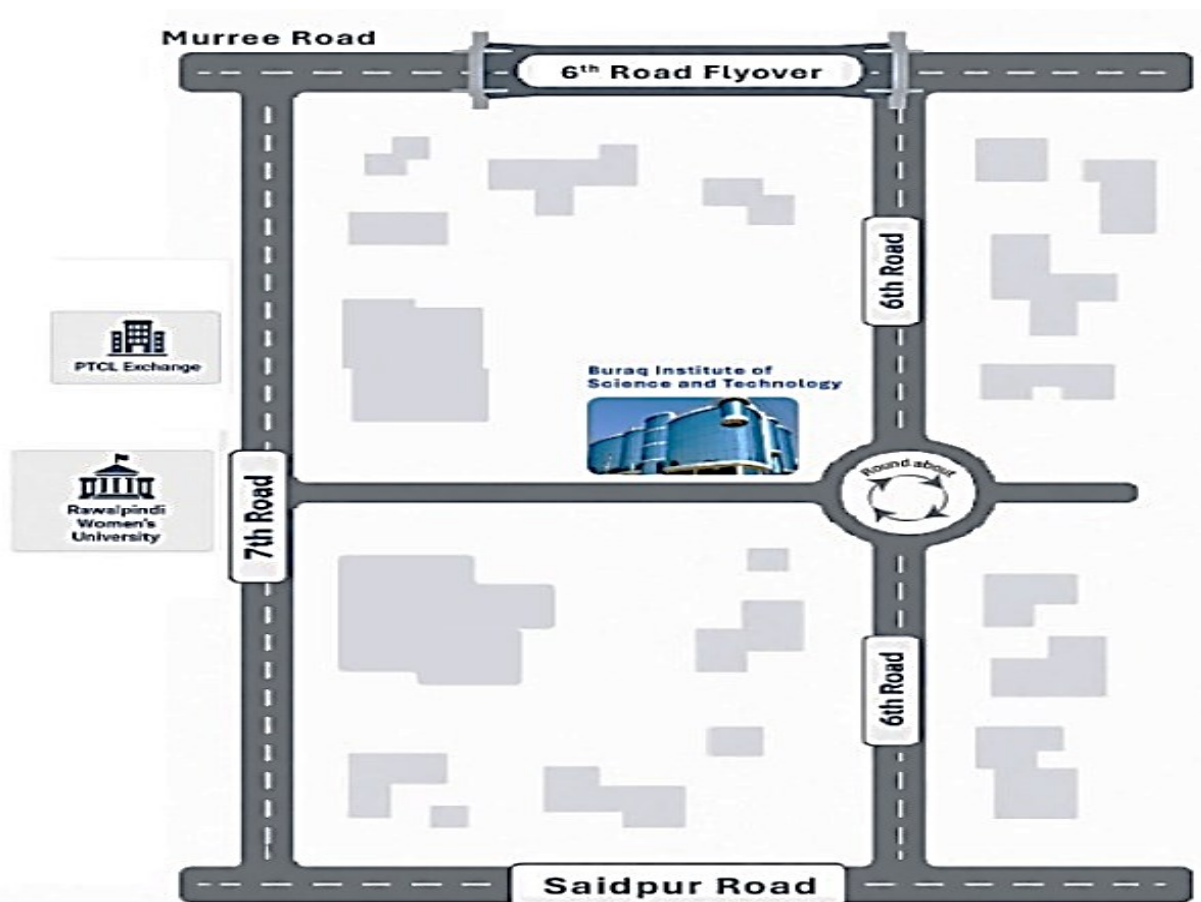
Potential categories may include:

- Merit-based Scholarships.
- Need-Based Assistance.
- Siblings Assistance
- External scholarship opportunities.

Scholarship and Fee Assistance eligibility, continuation, and award conditions are subject to the applicable policy of the Buraq.

Buraq Contact Information

Campus Location



**Buraq Center, 11-D, 6th Road,
Satellite Town, Rawalpindi**

Contact Details

Buraq Institute of Science & Technology

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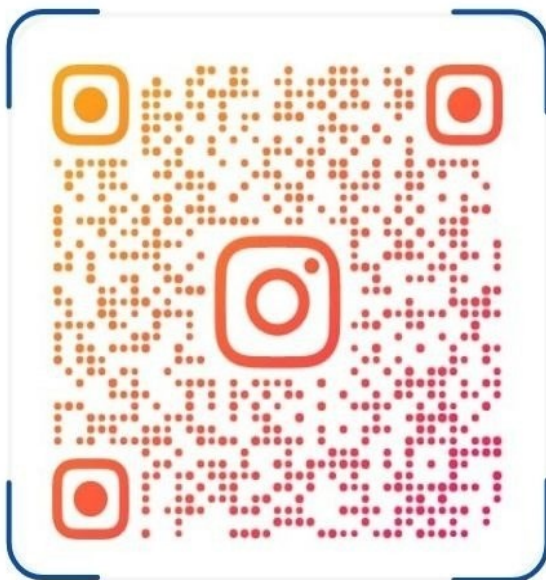


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