



BUITEMS

Years

20

Retrospection

Welcome

2022

Welcome to the 20th anniversary celebration booklet of BUITEMS! It is an honor for us to present to you a retrospective of the past two decades of academic excellence and growth at our institution.

As we look back on the past 20 years, we are reminded of the incredible achievements and milestones that have been accomplished by our faculty, staff, students, and alumni. From groundbreaking research to inspiring community service, the impact of BUITEMS has been felt far and wide.

We are also proud to reflect on the diversity and inclusivity that has been a cornerstone of our community. Our students, faculty

and staff come from all walks of life, and we believe that this diversity is what makes us stronger and more innovative.

As we move forward, we are excited to continue building on the legacy that has been established over the past two decades. We look to the challenges and opportunities that lie ahead, and we are committed to providing the highest quality education and research in an inclusive and welcoming environment.

Thank you for joining us in this celebration of 20 years of excellence at BUITEMS. We hope you enjoy going through the pages of this booklet.



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Inception



“The greater part of progress is the desire to progress.”

ESTABLISHING BUITEMS

In the late 1990s, many developing nations recognized the significance of Information Technology (IT) in boosting their economic growth, and subsequently made investments in this area. This strategic move proved to be advantageous, leading to improvements in governance, an increase in software exports, job creation, and an enhancement in the global competitiveness of their trade and industry. Pakistan, too, could not remain immune to this trend and took decisive steps to adopt and advance in the revolutionary field of IT. To quickly capitalize on this opportunity, a comprehensive plan, in the form of a National IT Policy and Action Plan, was devised. The foundation of this plan was that the government would serve as a facilitator for the private sector, which would take the lead in promoting IT within Pakistan.

In this regard, the Chief Executive's Secretariat tasked the IT Commission of Pakistan to lead the initiative. On April 1st 2000, the IT Commission brought together over 100 IT professionals and service providers for a meeting in Islamabad, during which it was decided to establish eleven working groups to examine and propose solutions for specific areas of IT development, promotion, and implementation in Pakistan. Under the direction of Prof. Atta-ur-Rahman, the IT Commission assembled a team of over 250 dedicated and committed individuals from within Pakistan and abroad to contribute to this effort.

With tremendous efforts and a voluntary spirit, this group worked tirelessly on their assigned duty. Thanks to the strong commitment from government leadership, a well-designed implementation, monitoring and review process, this team was able to frame the National IT Policy and Action Plan within

two months. The greatest strength of this work was the willingness and dedication of this team of Pakistanis who came together for this important task.

This document was the result of the collective effort of these individuals, who worked under a tight deadline. With contributions from expert and the support of various government organizations such as Ministry of Science and Technology, NDO (now NADRA), Computer Society of Pakistan and the National Telecommunication Corporation, they were able to produce a comprehensive and viable plan.

As per one of the primary guidelines of the National IT Policy and Action Plan 2000, the Government of Pakistan aimed to establish IT Universities of international standards in its three provinces viz. Balochistan, Sindh and Khyber-Pakhtunkhwa. This policy served as the catalyst for the creation of the Balochistan University of Information Technology, Engineering, and Management Sciences (BUITEMS) in Quetta. BUITEMS was the first public sector university established in Balochistan under the National IT Policy and Action Plan in 2001.

The Beginning

"Progress lies not in enhancing what is, but in advancing towards what will be."



FOCUS

Our purpose is to ensure that all students leave our University well prepared for their future; have opportunities to develop; and are nurtured in a learning environment that encourages self-acceptance and the acceptance of others and their differences. The establishment of quality personal relationships provides stability, trust and care which increases sense of belonging, self-respect and respect for others and provides a positive climate for learning.

THE ONSET

In March 2001, the President of Pakistan General Pervez Musharraf and the Federal Minister for Science and Technology Prof. Dr. Atta-ur-Rahman, announced the establishment of an IT University for Balochistan during a visit to Quetta. The University was initially named "Balochistan University of Information Technology and Management Sciences (BUIITMS)."

In April 2001, the Provincial Cabinet approved the allocation of a building previously used for the Primary Education Directorate for the establishment of BUIITMS. Following this approval, the building was officially transferred and handed over to the management of the

University.

The Balochistan Provincial Cabinet gave its formal stamp of approval to the Charter/Ordinance for BUIITMS on July 18th, 2002.

Following this, the groundwork for the University's launch was initiated and actualized in September 2002, when the first Vice Chancellor, Prof Dr. Mhammad Abbas Chaudhary, officially assumed his duties.

On October 5th, 2002, the phase-I of the BUIITMS project officially began.

With its Chancellor, the then Governor of

Balochistan Mr. Ameer-ul-Mulk Mengal inaugurated the University in front of the first cohort of students, their families, recently appointed faculty members, administrative staff, and other dignitaries in attendance.

As it began its journey, the new University embarked on a steady and measured path, carefully navigating the initial stages of its development. However, this path was not without its challenges as the University faced various financial, developmental, academic and administrative hurdles to overcome.

Vision & Mission Statements

VISION

With a clear direction for its goals and renewed focus, a vision statement was crafted and submitted to the University's leadership for approval. This vision now serves as a roadmap, guiding the University towards the realization of its aspirations.

The vision is:

“To be among the leading universities of the world – accessible to all, imparting quality education and promoting cutting edge research”.

MISSION

The mission of the University states that :

“At BUITEMS, we are committed to providing excellent education with focus on research and to equip students with art of living and become productive members of society, contributing to the socio-economic uplift of Pakistan in general and Balochistan in particular”.

QUALITY POLICY STATEMENT

“BUITEMS contributes in defining standards and systems for the up-lift of socio-economic order through quality education and services by:

- *Providing an environment conducive to learning, teaching, academic inquiry and innovation;*
- *Maintaining academic excellence and professionalism;*
- *Adhering to established systems for ensuring good governance for management and transfer of knowledge;*
- *Benchmarking with other leading institutions of higher education for improvement;*
- *Enhancing efficient and effective operations by encouraging participation of stake holders;*
- *Pursuing continuous improvement through creativity, team work and adaptation to change;*

For Playing a catalytic role to achieve the national, regional and global harmony”.

Goals & Objectives, and Core Values

GOALS AND OBJECTIVES

1. To provide outstanding academic programs that further strengthen our performance, pre-eminence and efficiency.
2. To provide an excellent teaching and learning environment for students to reach a level that matches the best universities in the world.
3. To raise revenues from partnerships, research grants and technology transfers while strengthening our ability to more effectively invests and allocate resources for education.

CORE VALUES

Accountability

We are committed stewards of the loyalty and goodwill of our alumni and friends of the human, fiscal and physical resources entrusted to us.

Diversity

We recognize that diversity leads to excellence, enhancing our teaching, scholarship and services as well as our ability to respect and interact with people.

Integrity

We practice honesty, truth and integrity in all that we do

Respect

We treat each other with civility, dignity and respect.

Social Responsibility

We contribute to the intellectual, cultural, spiritual and economic well-being of the society.



Three Core Areas of BUITEMS Progress

“Progress is impossible without change, and those who cannot change their minds cannot change anything.”

EXCELLENCE IN EDUCATION

1

When it comes to delivering excellence in education, BUITEMS is unwavering in its commitment to providing students with the best possible learning experience. This starts with staying at the forefront of pedagogy and curriculum development, as we believe that the most effective way to prepare students for the future is by constantly innovating and adapting to new trends and technologies.

To that end, we invest in the latest tools and resources to enhance students' learning experience. This includes state-of-the-art classrooms and labs, access to cutting-edge technology, and a wide range of extracurricular and co-curricular activities. We also provide students with various opportunities to gain hands-on experience in their field, such as internships, research opportunities, and foreign exchange programs.

But providing an excellent education is about more than just access to resources; it also requires fostering a culture of curiosity and lifelong learning.

In short, when it comes to delivering excellence in education, we believe in going above and beyond to ensure that our students graduate with the skills, knowledge, and experience they need to succeed in the 21st century.

EXCELLENCE IN RESEARCH

2

At BUITEMS, we recognize that cutting-edge research is an essential part of fulfilling our mission. That's why we are dedicated to fostering an environment where our faculty, staff, and students can explore new ideas, push the boundaries of their fields, and make meaningful contributions.

To support this, we invest in state-of-the-art facilities and resources. We are constantly updating our labs, libraries and equipment to ensure our researchers have access to the latest technology and tools. Additionally, we provide our researchers with competitive funding opportunities and support to attend conferences and workshops to present their work.

Research is not just about the resources and funding; it's also about fostering collaboration and interdisciplinary work. We believe that by bringing together researchers from different fields and backgrounds, we can spark new ideas and make breakthrough discoveries. We encourage and support cross-disciplinary collaborations between researchers, which often lead to new and innovative solutions to complex problems.

VISION FOR A TRUE GLOBAL UNIVERSITY

3 Being a truly global university is a key aspect of BUITEMS mission, and we are committed to fostering an inclusive and interconnected community that embraces diversity and promotes understanding of the world.

One of the ways we do this is by creating opportunities for our students and faculty to gain cross-cultural experience, which allows them to immerse themselves in different cultures and gain a unique perspective. Additionally, we also provide opportunities for foreign students to come and study at our institution, which helps to create a diverse and inclusive campus community.

We also aim to expand our global outreach and partnerships with universities and organizations around the world. These partnerships allow us to collaborate on research, academic programs, and cultural exchange initiatives, which helps to foster a sense of interconnectedness and understanding.

We also believe that it's important to educate our students on global issues and prepare them to be leaders in the global community. We have various programs and initiatives that focus on sustainability, social justice, and cultural awareness, which helps our students to understand the complexities of the world and develop skills to address them.



Excellence in Education

“Progress is not achieved by luck or accident, but by working on yourself daily.”

Despite the daunting obstacles facing the University from the start, the leadership rose to the occasion by fostering a sense of unity and a clear vision for its future. By identifying key objectives and drawing upon the collective wisdom of the team, priorities were established without compromising the University's ultimate goal: to excel in both academics and research.

Effective governance is vital for the management of any forward-thinking institution. The University's leadership instilled this principle and emphasized the importance of fostering efficient, ethical attitudes and a strong commitment to serving the community. Through tireless efforts, the University has become a renowned and progressive center of higher learning, respected both nationally and internationally.

BUIITEMS faced significant challenges, including financial discipline, academic organization, administrative reform, and development projects. Despite these obstacles, the University pressed forward with a determined, steady pace to meet contemporary challenges, and provide for the ongoing needs of higher education and the improvement of educational standards in society.

INTRODUCTION TO GOOD GOVERNANCE PRACTICES

01

Vision of the University

Balochistan University of Information Technology, Engineering, and Management Sciences needed a clear vision. For the reason, significant effort was put into creating a vision statement that was subsequently proposed to the University's Syndicate and Senate for approval. The vision serves as a guiding principle for the University in achieving its goals. It now serves as the University's resolve and direction.

“To be among the leading universities of the world – accessible to all, imparting quality education and promoting cutting edge research”.

02

Mission Statement of the University

A new and revised Mission Statement was crafted and presented to the University's governing bodies, where it was subsequently approved. The University's mission statement now clearly states that:

“At BUIITEMS, we are committed to providing excellent education with focus on research and to equip students with art of living and become productive members of society, contributing to the socio-economic uplift of Pakistan in general and Balochistan in particular”.

03

Goals, Objectives and Core Values of the University

The establishment of a managerial philos-

ophy serves as the foundation for setting clear and defined goals for the University. The management came together to determine specific objectives, goals, and core values, which serve as the foundation for a result-focused management philosophy.

Goals / Objectives

1. To provide outstanding academic programs that further strengthen our performance, pre-eminence and efficiency.
2. To provide an excellent teaching and learning environment for students to reach a level that matches the best universities in the world.
3. To raise revenues from partnerships, research grants and technology transfers while strengthening our ability to more effectively invests and allocate resources for education.

Core Values

Accountability

We are committed stewards of the loyalty and goodwill of our alumni and friends of the human, fiscal and physical resources entrusted to us.

Diversity

We recognize that diversity leads to excellence, enhancing our teaching, scholarship and services as well as our ability to respect and interact with people.

Integrity

We practice honesty, truth and integrity in all that we do

Respect

We treat each other with civility, dignity and respect.

Social Responsibility

We contribute to the intellectual, cultural, spiritual and economic well-being of the society.

04

Establishing the Quality Policy Statement of the University

"Excellence in Education" has been the catchphrase of BUITEMS. This goal has been exemplified by accomplishments such as gaining ISO 9001-2008 certification, accreditation by PEC, and

recognition as a Professional Engineering Training/Development Institute for Professional Engineers at the national level. In line with this, BUITEMS has established a Quality Policy Statement, as is standard in internationally renowned organizations and educational institutions. This policy serves as a roadmap for the University in the years to come and is articulated as follows:

"BUITEMS contributes in defining standards and systems for the up-lift of socio-economic order through quality education and services by:

- Providing an environment conducive to learning, teaching, academic inquiry and innovation;
- Maintaining academic excellence and professionalism;
- Adhering to established systems for ensuring good governance for management and transfer of knowledge;
- Benchmarking with other leading institutions of higher education for improvement;
- Enhancing efficient and effective operations by encouraging participation of stake holders;
- Pursuing continuous improvement through creativity, team work and adaptation to change;

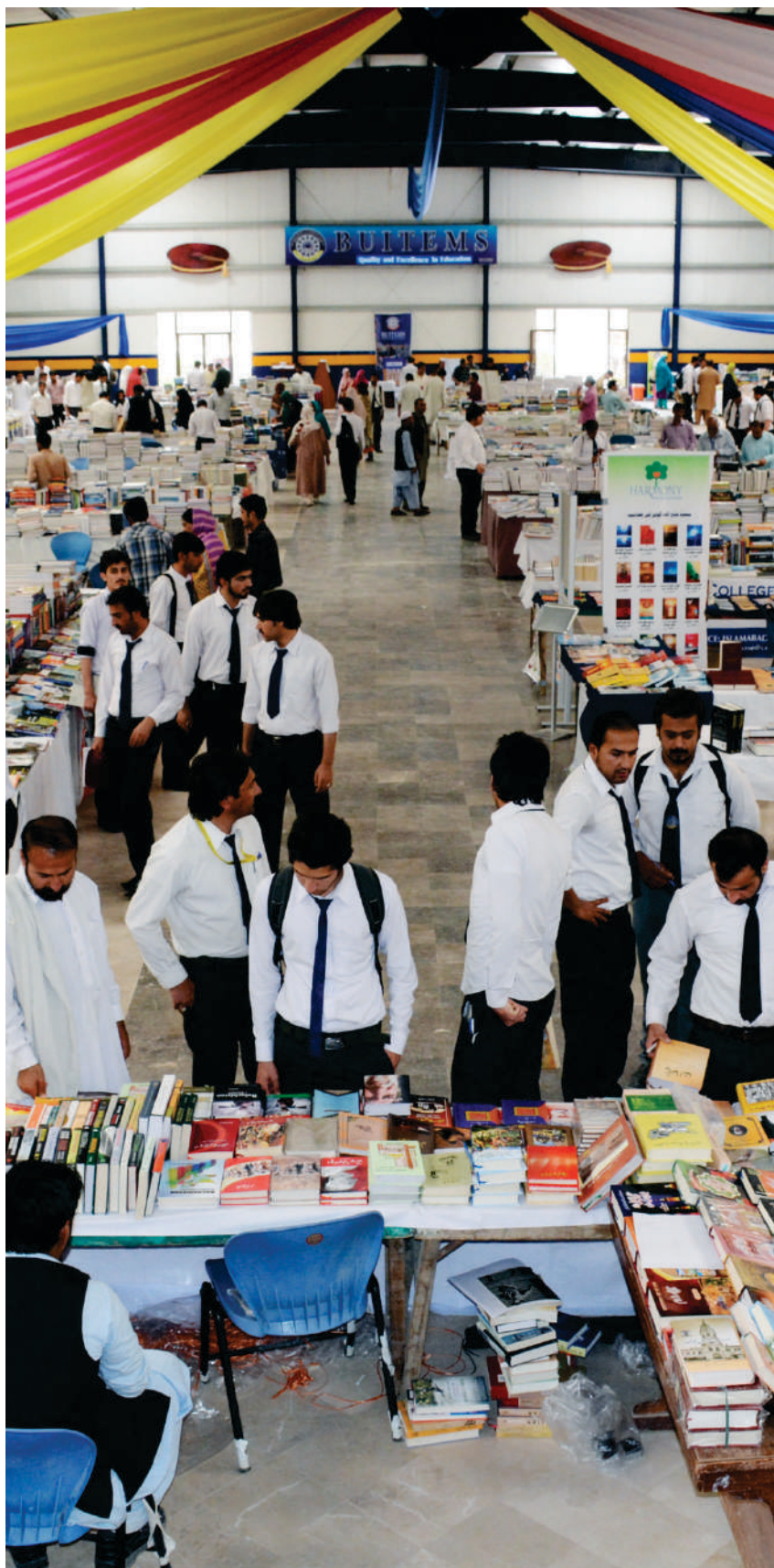
For Playing a catalytic role to achieve the national, regional and global harmony".

05

Introducing a culture for performance based rewards

One of the central values of the University is "Accountability." To ensure that this value is upheld, the operations of every administrative and academic unit have been structured in a cross-functional manner, allowing for interlinked activities that can be closely monitored. Additionally, to reinforce accountability, the University holds an annual prize distribution ceremony to recognize and reward employees who have demonstrated exceptional performance throughout the year as "Best Employee of the Year." This approach not only motivates employees to improve their performance but also fosters a sense of healthy competition, which ultimately leads to an overall improvement in the University's performance and operations.





06

Decentralization of Academic and Administrative matters

The University administration has undergone a transformation and become a collaborative academic governance unit that involves the participation of faculty, students, and non-academic staff. This has led to the decentralization of academic and administrative matters. To facilitate this, specialized committees have been established to provide solutions and recommendations on various issues. These recommendations are then submitted to the University's governing bodies for approval, after being reviewed and evaluated by the Vice Chancellor. Listed below are some of the committees and their respective roles:

- **Employees Discipline / Performance Review Committee:** Lead by the senior academicians, this Committee looks into different discipline related matters of the University employees, and makes certain recommendations.
- **Students' Discipline Committee:** It has been constituted in accordance with provisions of the University Ordinance. This committee meets for resolving on discipline matters relating to the students.
- **Purchase Committees / Inspection Committee:** This Committee is responsible for materializing purchases both in bulk and day to day routine matters. It also conducts inspection of goods / items purchased for the University. This has ensured flaw-less purchases, and good quality procurements.
- **Technical Purchase Committee:** For the technical purchases like computers and equipment, this Committee makes recommendations. This comprises of technical experts.

- House Allotment and Control Committee: This Committee is responsible for allotment of residential colony houses of the University, their control and related issues.
- Transfers and Postings Committee: Job-rotations/ transfers and postings are proposed by this committee in order to keep the support staff rotated in different sections to serve, which is beneficial both for the University as it has experienced workers for all sections and faculties, as well as for the employees who are in-turn enriched with job enlargement as they are familiar with different jobs through postings in different sections / units of the University.
- Transport Committee: It looks into different transport matters of the University which include routes of the fleet, service of vehicles, Drivers , and P.O.L issues.
- Grievance Redressal Committee: It has been formed with approval of the BUIEMS Syndicate, which considers the applications and grievances of the University employees, and make recommendations on case to case basis.
- Sexual Harassment Committee: BUIEMS has adopted Protection Against Harassment of Women at Workplace Act, 2009. In this context, a Committee comprising of senior professors, and three female staff members is in place. BUIEMS is also enlisted as a complying institution through the monitoring organization "Sexual Watch".

RE-STRUCTURING OF ACADEMIC ORGANIZATION, AND STEPS TOWARDS ACADEMIC EXCELLENCE

01

Academic Rules of the University

The Academic Rules proposed by the Higher Education Commission were evaluated in accordance with BUIEMS practices by the Deans Committee and in-house committees in multiple sessions. Once reviewed, these rules were presented to the Academic Council, Syndicate, and Senate for approval, and were subsequently passed. These rules have been put into action to improve the management of the University's academic programs and studies.

02

Establishment of Academic and Administrative Organograms

Organogram of any university provides a clear hierarchical structure for its administrative and academic units and their respective responsibilities. To address this, a comprehensive evaluation of the University's administrative and academic functionaries was conducted, and a detailed Organogram outlining defined administrative and faculty functions was introduced. The Organogram was approved by the University Senate and has been implemented to promote good governance. This has led to increased clarity in structural direction and improved performance both administratively and academically.

03

Establishment of important Academic and Administrative Units

To ensure the efficient management of the University's services, several vital academic and administrative units have been established, including Directorate of Quality Enhancement and Accreditation, Directorate of Training and Development, Directorate of Procurements, Career Planning Cell, and Directorate of Information Technology. These units are commonly found in the best universities around the world and are responsible for carrying out specific functions.

- Directorate of Quality Enhancement and Accreditation: The Directorate is fully functional for teachers performance evaluation and accreditation matters of the University. With its active contribution all the academic offerings in Engineering discipline have been accredited as it took its due process.
- Directorate of Human Resource Development: It conducts Training Need Assessment and identifies trainings and development opportunities and programs for its staff and faculty through sophisticated training modules. It also arranges for orientation of the new employees. Arrangements of in-house trainings for different categories of employees are also looked after, which it deals with the Faculty Development Programs / Scholarships of the University.
- Student's Counseling & Career Planning Cell: This Cell has been established to cater for the rapidly demanding challenges of the job market, as it provides

the students and the alumni benefits of counseling on course works and their career planning. The students have the choice of course selection in consultation with expert advisors. The graduands will have various options for choosing the best career among a range of varieties of fast changing world.

- Directorate of Students Affairs: The University management instilled a new life into the healthy activities on the part of the students by establishing the Directorate of Students Affairs. The directorate arranges and supervises the activities of various student societies like (i) Environmental society (ii) Debating society (iii) Literary society (iv) Dramatic Society etc. These societies have been producing results at various programs/ events at provincial and national level.
- Directorate of Information Technology: The Directorate has been established with the objectives of putting in centralized command and control on the IT Infrastructure of the University, coordination among all the technical staff to maximize the productivity, ensuring continuous provision of services like internet, email, web site etc. to staff and students round the clock, carry out all the IT projects and facilitating other departments in any IT related tasks of the University.

This Directorate achieved the following landmarks:

Implementation of Lotus Notes

- State-of-the-art emailing solution with advanced and highly useful features
- Improved and efficient communication and paper less environment
- Implementation of workflows to avoid manual files
- First implementation of Lotus Notes 8.0 in Asia

Deployment of CMS (Campus Management Solution)

- Centralized administration of all student affairs such as admission, registration, attendance, quizzes, examination, grades, transcripts, financial records
- Installed state-of-the-art servers having Unix environment and SAN (Storage Area Network)

Establishment of Data center at Takatu Campus

- Data center with modern facilities and standards

Implementation of PERN-2 project

- Pakistan Educational Research Network (PERN) – 2, interconnecting BUITEMS with all the universities of Pakistan
- Bandwidth of 1 Gigabit (1000 Megabit approx.)

Interconnectivity of the Campuses

- Both the campuses of BUITEMS interconnected using a 100 Mbps wireless link

Re-designing of the University website

- University web site redesigned
- Updated on regular basis
- Reflects the face of BUITEMS

Deployment of Wireless network at Takatu Campus

- Interconnectedness of all departments of Takatu Campus to boost the capabilities

Heavy duty UPS

- Backup power to the servers and other critical network equipment
- 24/7 availability of internet facility for all the campuses

04

Establishment of Central Engineering Laboratory and Central Library

A state-of-the-art Central Engineering Laboratory has been established at the University's Takatu Campus, equipped with advanced machinery and the latest related equipment. This lab is designed to support the practical component of the University's engineering programs. It is fully outfitted with all necessary tools and equipment. Additionally, the University has established a Central Library at its Takatu Campus, which is being continuously updated with relevant books and journals to aid students in their studies.

05

Research Focus

In line with the University's corporate mission, academic pursuits are conducted in a rationalized manner, with a strong emphasis on research. Both students and teachers are encouraged to actively engage in research while at the University. Faculty members are advised and supported in applying for scholarships from various sponsors, which serves as an incentive for them. To date, fifteen faculty members of the University have won Fulbright Scholarships, which attests to the high level of competence among the University's teachers. Several other faculty members have won fully-funded scholarships under various faculty development programs. The University also regularly publishes a research journal, which encourages and enables students and faculty members to engage in creative thinking and the advancement of knowledge.



06

Admissions Policy of the University

The admissions policy of BUITEMS is highly selective and ensures that only the most qualified and promising students are accepted. The admissions process at BUITEMS is fair, transparent, and designed to identify the best fit students for the institution. The University's admissions team is highly dedicated and works tirelessly to ensure that each applicant is given a fair and thorough review. The policy is designed to provide equal opportunities to all students, regardless of their background or circumstances. It is rigorous and thorough, which guarantees that the admitted students are well-prepared and capable of succeeding in their chosen field of study. The admissions criteria used by BUITEMS are highly relevant and geared towards identifying students with the potential to excel academically and become leaders in their field. The policy is regularly reviewed and updated to ensure that it remains competitive and in line with the industry standards.

07

Directorate of University Advancement and Students Financial Assistance

Given the current financial constraints and the limited reliance of public sector universities on government funding, universities have been seeking new avenues for generating funds. The Federal Government has long encouraged universities to improve their financial situation and reduce dependence on government funding by securing funding from various agencies, both national and international. With the present stringent budgetary conditions of the federal government, including cuts in grants to PSDP annual allocations, it has become imperative for public sector universities to pursue policies of procuring financial assistance from private sector funding agencies.

With this in mind, BUITEMS has set up the Directorate of University Advancement and Students Financial Assistance (UA&FA). This unit is dedicated to fostering mutually beneficial relationships with alumni, trusts/foundations, the corporate sector, international partners, officials, the media, and the general public, with the goal of raising funds for the advancement of the University. The UA&FA has the objective to provide financial assistance and career counseling to students, in order to increase access to higher education.

The main function of this Directorate is to cultivate relationships with friends and supporters of BUITEMS and to promote a strong, positive image of the University. To achieve this, it is developing strategies for fundraising to support and enhance the University's programs. Additionally, it provides various forms of financial assistance to students and offers guidance with regard to career counseling and other support services to help students secure employment after graduation.

“Excellence without effort is as futile as progress without preparation.”





08

New Degree Programs offered

The University is committed to continuous growth in its academic offerings, which are based on market demand. With an emphasis on the quality and standards of its current programs of study, BUITEMS has introduced the following programs of study based on demand:

- BS Degree in Architecture (5 years degree program): Introduced first time in Balochistan, under the Faculty of Engineering.
- BS Degree in Food Technology & Science (4 years degree program): Introduced first time in the province under the Faculty of Life Sciences and Informatics. Research laboratories and qualified researchers have added value to its credit, and the influx of the admissions is commendable.
- BS Degree in Fine Arts (4 years degree program): The Degree program in Fine Arts had also been introduced.
- BS Degree in Plant Sciences & Informatics: Linked with the Biotechnology and Informatics, this degree program had been introduced as an initiative for research and studies in the plant sciences.
- BS Degree in Microbiology: As a major field of life sciences, the Microbiology covers important features like DNA Testing and related microbiology discipline of studies.
- BS Degree in Geological Engineering: To cater for the demand arising in the engineering fields, the University started the engineering program of Geological Engineering.
- BS Degree in Mining Engineering: With special focus on mines and minerals of Balochistan where quality human resource is required to operationalize various projects of Government, the University started BS Program in Mining Engineering, which opened new opportunities for the students.
- BS Degree in Civil Engineering: In view of the job market, the University took the initiative and offered BS in Civil Engineering. The program is running successfully and the graduates are contributing to the development of the province and country.
- BS Degree in Mechanical Engineering: BS in Mechanical Engineering was offered by the University in 2013.
- BS Degree in Education: For ensuring supply of quality human resource in the field of education, the BS degree in Education has been offered. The education field at primary, middle, tertiary and secondary level will benefit by having qualified resources accordingly.
- BS Degree in Environmental Sciences: Linked with studies of environment and biotechnology, the BS degree in Environmental Sciences has been offered and University has a sizable influx in the same.
- BS Degree in Mass Communication: With growth in the field of media and journalism, this program of study is responded well by the students.

09

Accreditation of the Engineering programs offered by BUITEMS

Being member of the Governing Body of Pakistan Engineering Council, the Vice Chancellor took the important matter of accreditation of the engineering programs offered by BUITEMS. The following academic offerings in Engineering discipline have been accredited:

- Civil Engineering
- Petroleum and Gas Engineering
- Textile Engineering
- Chemical Engineering
- Computer Engineering
- Electronics Engineering
- Telecommunications Engineering
- Geological Engineering
- Mining Engineering
- Mechanical Engineering

10

Accreditation of Degree Programs from relevant Bodies

The following degree programs offered by BUITEMS have been recognized and accredited by the relevant bodies after having fulfilled all the requirements:

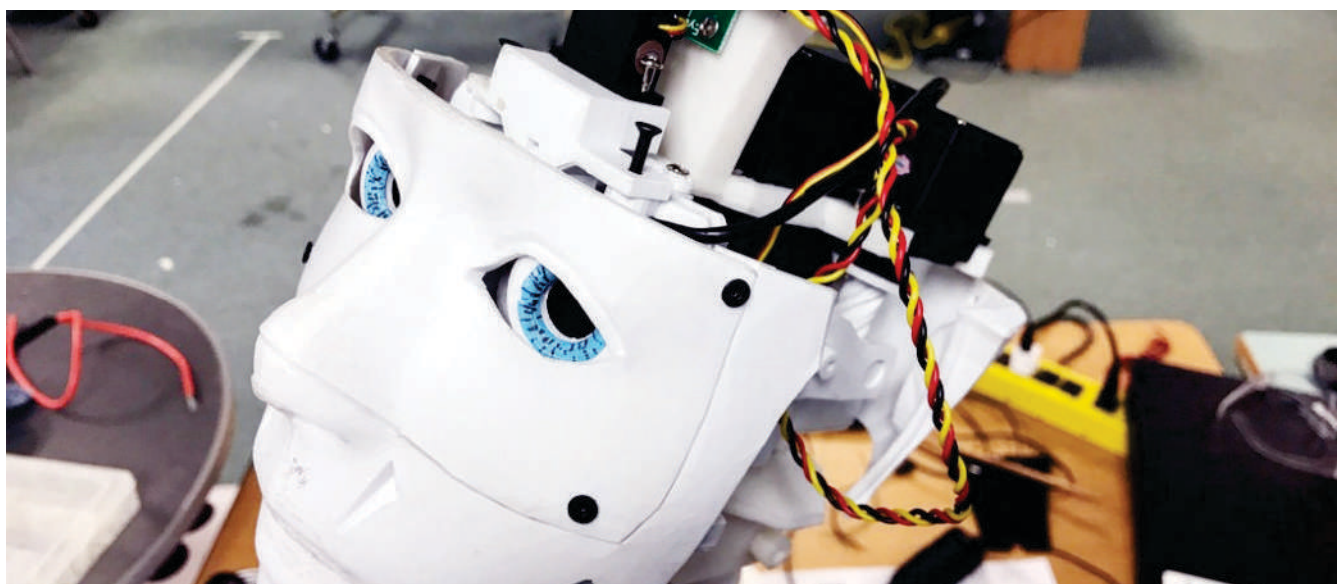
- All Engineering degree programs are accredited by Pakistan Engineering Council (PEC).
- The degree of BS in Computer Sciences is accredited by National Computing Education Accreditation Council (NCEAC).
- The degrees of BS and Master in Business Administration is accredited by National Business Education Accreditation Council (NBEAC).
- The degree of BS in Architecture is accredited by Pakistan Council of Architects and Town Planners (PCATP).

11

Offering new MPhil / MS and PhD programs

BUITEMS is offering following MS and PhD programs in the fields of Engineering, Management, Computing Studies and Biotechnology. These offerings are as follows:

- MS Civil Engineering
- MS Electrical Engineering (Power)
- MS Management Sciences
- MS Computer Science
- MS Environmental Management & Policy
- MS Computer Engineering
- MS Biotechnology
- MS Economics
- MS Electronics Engineering
- MS Telecommunications Engineering
- MS Physics
- MS Chemistry
- MS Textile Engineering
- PhD Electrical & Computer Engineering
- PhD Management Science



- PhD Computer Science
- PhD Biotechnology

12

Declaring BUITEMS as Engineering University

All engineering study programs at BUITEMS have been accredited by the Pakistan Engineering Council and resultant BUITEMS has been recognized as an Engineering University.

13

Registration of BUITEMS as Professional Engineering Body

Given the availability of state-of-the-art engineering labs, the recognition/chartering of BUITEMS as an Engineering University, and the accreditation of all its engineering programs by the Pakistan Engineering Council, the University has been registered as a Professional Engineering Body for Continuing Professional Development (CPD) programs/activities by the Pakistan Engineering Council. The Council acknowledged BUITEMS continuous growth in terms of providing quality education, particularly in the field of engineering, and chartered it as a Professional Engineering Body to conduct CPD activities for Registered Engineers and Professional Engineers under Bylaw 16 of the Professional Development of Engineers Bylaws-2008.

14

Introduction of Work and Study Scholarship Program

The University has revamped its scholarship policy by introducing "Work and Study Scholarship" program. This allows students to earn scholarships to cover their educational and tuition expenses by working for 10 hours a week in any of the University's offices, teaching departments, laboratories, or research projects. The aim is to support financially challenged and talented students while also providing academic, administrative, and research-related services with additional human resources. The Higher Education Commission's Foreign Academic Collaboration (HEC-FAD) has recognized BUITEMS initiative on both national and international level, and it is being used as a case study for other partner universities.

15

Recognition of BUITEMS Research Journal

In 2004, BUITEMS began publishing its research journal, "Journal of Applied and Emerging Sciences". After publishing 7 issues, the case for recognition of the journal was forwarded to HEC on the recommendations of the Advanced Studies and Research Board and BUITEMS Academic Council. The HEC recognized the "BUITEMS Journal of Applied and Emerging Sciences" (ISSN: 1814-070X) in the "Z" category through letter No. 1-2/DD-QA/HEC/EEJ/2013/129 dated December 24, 2013. BUITEMS is the first public sector university in Balochistan to have a research journal recognized by HEC.

16

Establishment of Office of Graduate Studies at BUITEMS

BUITEMS offers graduate degree programs in various departments. The administration and management of these programs were previously handled by the Registrar Office (Academic Section) in conjunction with the Dean of the respective department. The University proposed the establishment of a Graduate Studies Office to improve academic management and proper administration of graduate programs. The Syndicate approved this proposal, and the office has been in operation since 2014.

17

Publishing the University Prospectus and Brochures

The University has created informative brochures and printed materials for all of its faculties and degree program offerings. These include information on the requirements for admission to undergraduate and graduate programs, the scope of each program, the number of credit hours required, and the profiles of the instructors. These brochures and materials are also available on the University's official website.

18

Academic Expansion

As the University has seen a steady increase in student enrollment since 2007, the need for academic expansion has arisen. To meet this need, new academic positions have been created based on the requirements of different faculties, and appointments to these positions have been made in accordance with the University's charter and established procedures.

Student Enrollment

The students of BUIITEMS are taught to think critically, analyze and evaluate, and are encouraged to explore new areas of knowledge and emerging trends in their chosen fields. They are developed to harness their intellectual abilities and honed skills to achieve a wide range of growth and excellence. Admissions are open to eligible students from all over the country, including the province, who meet the academic requirements of the university.

Faculty Strength

In order to meet the academic needs of the University and its yearly enrollment in various programs, the University has made a concerted effort to recruit and retain highly qualified faculty members by providing them with favorable working conditions. As a result of these efforts, the faculty at the University has grown to 572 members, including 71 PhDs and more than 250 MS degree holders.

STUDENT ENROLLMENT

Year	Bachelors	MS/MPhil	PhD	Total
2013 - 2014	6288	1209	26	7523
2014 - 2015	7505	1356	29	8890
2015 - 2016	7738	1423	36	9197
2016 - 2017	8250	1782	43	10075
2017 - 2018	8819	2004	81	10904
2018 - 2019	9366	1987	52	11405
2019 - 2020	9772	1975	60	11807
2020 - 2021	9769	2007	83	11859
2021 - 2022	10537	1053	98	11687

FACULTY STRENGTH

Year	PhD Faculty	MS/M.Phil Faculty	Masters Degree/BS Degree Faculty Holders	Total
2013 - 2014	36	135	217	388
2014 - 2015	42	132	238	422
2015 - 2016	47	172	260	479
2016 - 2017	71	250	251	572
2017 - 2018	108	283	237	628
2018 - 2019	123	343	163	629
2019 - 2020	139	334	139	612
2020 - 2021	162	337	123	622
2021 - 2022	172	633	107	642
2021 - 2022 (UCOZ)	8	17	2	27
2021 - 2022 (Muslim Bagh)	1	11	1	13

19

BUIITEMS Alumni Association

BUIITEMS is proud to have alumni who are making significant contributions to national development. The first meeting of the BUIITEMS Alumni Association was held on December 5, 2008, and it has since become an ongoing event. Many alumni who are serving in various fields of society attend these meetings and contribute to the intellectual and moral development of the University. The success stories and achievements of BUIITEMS alumni are regularly featured in the University's quarterly newsletters and other publications, to showcase their accomplishments to the world.

- Spring Festival
- Paper Festival
- Book Fairs

21

Mega Events of Convocation

University convocations are a time-honored tradition that marks the end of a student's academic journey and the beginning of their professional one. Convocations also serve as an opportunity for the university to recognize and honor the achievements of its students and faculty, and to showcase its commitment to providing a high-quality education. They are a time of pride, joy and accomplishment.

As a testament to its academic achievements, BUIITEMS has held grand convocations since 2007, with the most recent one held in December 2022. These events, which take place annually, have seen graduates receive their degrees. These convocations have been widely praised and demonstrate the University's progress towards reaching its academic goals.

20

Sports - Activities and Achievements

The University places a strong emphasis on the importance of sports and physical activities in fostering healthy minds among students. The Sports Committee is encouraged to make extra efforts to promote sports on the campuses. The Sports Section of the University is working to improve the facilities and environment for sports activities. For this mega sports events are held like the Annual Sports Gala/Olympiad, Sports Week and other tournaments. An international standard Cricket Stadium was built on the University's campus by the Pakistan Cricket Board in 2008. Additionally, a modern fitness center was opened in collaboration with the Higher Education Commission. A multi-purpose sports complex was completed in 2014 with the cost of PKR 38.491 million, which was inaugurated by the Chancellor of BUIITEMS, and opened new opportunities for sports to students. The University is working on expanding this facility with the support of the Chancellor's Secretariat. The University also holds a series of events as a part of its Curricular and Co-curricular activities, like:

ADMINISTRATION REFORMS FOR BETTER MANAGEMENT

01

Regularization of University Employees

The University, in the past, faced a significant challenge in retaining its staff and faculty due to the insecurity caused by their contract-based employment. The leadership recognized this issue as a priority and proposed regularizing all employees, which was approved by the Senate. As a result, from July 2007, all employees have been regularized and the University has seen a reduction in the loss of valuable human resources and a reversal of brain-drain, thanks to the improved job security and working conditions.

02

Service Rules of University

Insecurity and high turnover among employees triggered the need for established rules for regulating the services of staff at BUITEMS. Comprehensive Service Rules were created and implemented, providing clear guidelines for managing staff and improving job security. This has led to a more stable and efficient workforce and a reduction in brain-drain from the University.

03

Introduction of GP Fund, Group Insurance and Benevolent Fund Schemes

The regularization of the services of the University employees, both faculty members and administrative staff, led to the need for group insurance, GP Fund, and benevolent fund benefits. In response to this, rules for these benefits were proposed and approved by the Senate. And implemented since 2010-11 financial year.

04

Creation of Pension Fund for BUITEMS Employees

In order to provide financial security for its employees at their retirement, BUITEMS established a Pension fund with the approval of its Finance and Planning Committee and Syndicate. The University made an initial contribution of PKR 30 million to the fund, which will be invested in savings schemes for maximum returns. The University continues to seek additional funding from the government and other sources to grow the fund over time, thus motivating its employees to work towards the University's mission of achieving academic excellence.

05

Formation and Meetings of Statutory Bodies of the University

In order to ensure compliance with legal requirements, the governing bodies of the University were reorganized in accordance with the BUITEMS Ordinance of 2002. The academic and administrative matters of the University were regularly brought before these bodies for review and approval, and actions were taken accordingly. The statutory bodies are:

- Senate
- Syndicate
- Academic Council
- Selection Board
- Board of Studies/Board of Advance Studies/Board of Faculties

06

Unity of Command and Direction

The University strictly adheres to its Act and the guidelines provided by the Chancellor/Governor of Balochistan regarding the rules and responsibilities of its statutory bodies, ensuring a smooth operation of the functions and avoiding any conflicts of interest for the betterment of the institution.

07

**Establishment of
Directorate of Procurement**

Before 2007, all purchasing matters were handled by the Registrar's Office. To address audit observations a specialized Directorate of Procurement was established to handle all purchasing and ensuring proper record-keeping and adherence to standard public procurement rules and procedures. This office plays an important role in enabling the University's educational activities by efficiently managing day-to-day purchases.

***“Continuous
improvement
is better than
delayed
perfection.”***





STEPS FOR ENSURING FINANCIAL MANAGEMENT AND MONITORING

01

Adoption of Government Procurement / Financial Rules

A set of standard Public Procurement Rules and Government Financial Rules were proposed and approved by the Senate in order to ensure proper financial management and adherence to regulations in the procurement process of the University.

02

Annual Audit on accounts of the University by Auditor General Balochistan and Federal Government

To ensure proper monitoring of University funds and financial management, the University conducts several annual audits on its accounts. Any observations made during these audits are promptly addressed to ensure compliance.

The University has undergone annual audits by the audit team of the Auditor General of Balochistan since 2007. The observations made during audits are presented to the Departmental Accounts Committee and are addressed accordingly to ensure proper monitoring and management of University funds.

To ensure proper monitoring of University funds and financial management, two types of annual audits are conducted on the accounts of the University: one by the audit team of the Auditor General Balochistan on a yearly basis, and the other by the audit team of the Auditor General Pakistan, which focuses specifically on the accounts of federally

funded development projects.

03

Strengthening the Directorate of Finance

The Directorate of Finance has been strengthened in terms of the following attributes, which has ensured proper record keeping, budgeting and smooth functioning of all financial matters of the University:

- Portfolios have been designed in the Directorate i.e. Banks, Fee, Receipts, Budget and Pay etc which are looked-after by Assistant Director Finance, and staff has been posted in each section.
- The Assistant Directors are monitored by Deputy Director and Additional Director. The officers report to Director Finance.
- Internal Audit Section is in place and staffed, and it supports the financial operations in accordance with prescribed rules and regulations.
- S.O.Ps have been devised for every single step involved in financial operations of the University.
- Trainings and development sessions are arranged for professional development of the staff of this Directorate.

STRIDES FOR INFRASTRUCTURE DEVELOPMENT

01

Infrastructure Development Projects undertaken

Various development initiatives are launched and successfully implemented to address the University's academic and administrative needs. These projects have significantly contributed to the University's current infrastructure and facilities.

- Multipurpose Sports Complex: With a capital cost of PKR 38.491 million, this facility has been completed in the year 2014. The then Chancellor BUIITEMS inaugurated the said facility and witnessed the Sports Olympiad as its chief guest. This facility has further open new vistas for the sports to the students of the University.
- Establishment of Central Engineering Laboratory: To meet requirements of studies and specifically Pakistan Engineering Council for accreditation of the engineering programs offered, important engineering labs were required to be made functional. The Central Engineering Laboratory was established with a cost of PKR 38.9742 million.
- Construction of Academic Block (100,000 sqft): For catering to the academic needs of the University including requirements of classrooms, conference halls, training halls, and related academic facilities, the University completed construction of the Academic Block (100,000 sq ft) at a cost of PKR 78.00 million.
- International Cricket Stadium: For providing the students with sports facilities, the University developed an International Standard Cricket Ground in collaboration with Pakistan Cricket Board.
- Fitness Centre: A modernized Fitness Centre has also been opened in collaboration with the Higher Education Commission. The facility is in use of staff, students and dependants of the residents of University residential colony.
- Development of Vice Chancellor's Secretariat: The residential bungalow of the Vice Chancellor was re-designed to be used as Vice Chancellor's Secretariat. This facility houses offices of the Vice Chancellor, Registrar, Additional Registrar and the Human Resource Management Section of the University.
- Construction of New Academic Block (150,000 sqft): Meeting functional requirements of a new academic building for increasing strength of students, construction of academic building was deemed necessary. The University initiated the work under development Project of BUIITEMS titled "Strengthening & Development of BUIITEMS" approved by Planning Commission Islamabad. Construction of the academic building concluded in 2015.

- Construction of Boundary Wall at Takatu Campus: Having capital cost of PKR 54.620 million, the work of construction of Boundary wall around BUITEMS Takatu Campus was undertaken by Government of Balochistan, C&W Department. Completion of the same ensured security of the students, staff and the campus.
- Construction of Medical Centre at BUITEMS: This facility is providing the students and staff with health facilities in normal circumstances and emergency treatment in case of any unforeseen situation.
- Establishment of Advanced Computer Lab, through BUITEMS-HBL collaboration: Habib Bank Limited Foundation supported BUITEMS in establishment of state of the art Advanced Computer Laboratory with a cost of PKR 15.00 million. The facility is in use of students for their studies and research activities.
- Construction of Auditorium at BUITEMS: The work for construction of Auditorium required a capital cost of PKR 46.385 million. It was undertaken by Government of Balochistan, C&W Department. This facility ensures that the students are facilitated with academic and co-curricular activities on campus.
- Academic Building constructed under BUITEMS-JICA Collaboration: BUITEMS secured a fully-funded project from Japan International Cooperation Agency for establishment of laboratories, development of infrastructure and human resource development. The project with a capital cost of PKR 213 million focused on three main engineering departments that

Facilities for smooth functioning of academic and administration

FACILITIES	NUMBERS
Professors Offices	16 Rooms
Lecturers Offices	16 Rooms
Meeting Rooms	02 Nos.
Class Rooms	28 Nos.
Seminar Halls	02 Nos.
Laboratories	14 Nos.
Library	01 No.
General Offices (Administrative / Support)	06 Rooms
Business Incubation Centers	02 Nos.
Faculty Lounges	08 Nos.

Facilities provided in Academic Hall

FACILITIES	NUMBERS
Total covered area	35900 Sq. ft.
Lecture Rooms	06 Nos.
Laboratories	12 Nos.
Offices	12 Nos.
Common room for female students	01 No.
Staff room for teachers	01 No.
Wash rooms	12 Nos.
Kitchen	01 No.
Store	01 No.
Library	01 No.
Computer room	01 No.

include Civil Engineering, Petroleum and Gas Engineering and Mining Engineering. Under the mentioned project, JICA provided for establishment of equipped laboratories in the referred areas of studies, and trained the human resource with regard to technical attributes of the same. Commitments from JICA required parallel support of infrastructure including lecture rooms, offices, libraries, computer rooms and other related amenities for making the project function according to its goals. For infrastructure development, BUITEMS committed its share by allocating PKR 40.00 million from out of its own resources' savings. The BUITEMS Syndicate approved the proposal accordingly. For this, a defunct hall of Bolan Textile Mills was renovated and converted into an Academic Building having mentioned facilities. This facility/ academic hall has provided facilities to the University.

OTHER ACHIEVEMENTS

01

Annual Reports of the University

Annual reports of a university are a crucial tool for communicating the institution's achievements, goals, and challenges to key stakeholders such as faculty, staff, students, alumni, donors, and the general public. The reports provide valuable information on academic programs, research initiatives, financial performance, and infrastructure development, among other things. They also serve as a record of the University's progress and growth over time, and provide a benchmark for future planning and decision-making. Additionally, annual reports are a way for the university to be transparent and accountable to its stakeholders, and demonstrate its commitment to excellence and continuous improvement. Overall, annual reports play a significant role in building trust and maintaining positive relationships between the University and its various stakeholders. The first Annual Report publishing started from 2007.

02

Quarterly Newsletter of BUITEMS

The University Newsletter, which is published regularly, has been given a new and improved appearance. It covers ongoing academic and administrative activities, as well as achievements of the University. It is distributed quarterly to all universities in Pakistan, educational institutions, dignitaries, and members of the University's statutory bodies, to keep them informed about the University's developments.

03

Launch of BUITEMS Journal of Social Sciences and Humanities

BUITEMS launched the "BUITEMS Journal of Social Sciences and Humanities (BJSSH)", which provided researchers of social sciences and humanities an opportunity to publish their academic research works.

04

Establishment of University Endowment Fund

In a relatively short period of time, BUITEMS has established itself as a reputable and respected institution, evidenced by the high demand for admissions among the masses. However, the University recognizes that not all students have the financial means to pursue higher education, especially at a technical university like BUITEMS. Despite this, there are many talented and hardworking students who are held back by their financial constraints, and are unable to access the high-quality education that BUITEMS offers. In order to make education more accessible to these students, BUITEMS has made efforts to extend its resources to those in need.

In an effort to support and empower the financially disadvantaged but academically gifted students, BUITEMS established an Endowment Fund. The proposal for its creation was approved by the University's Syndicate, and an initial investment of PKR 30.00 million from BUITEMS' resources was made to launch the fund. This fund has been actively providing fee waivers to deserving and talented students of the University.

05

Implementation of BUITEMS Health Policy

BUITEMS, with the approval of its Syndicate, created a Health Policy for its staff on a contributory basis, to provide them with access to indoor and outdoor medical treatment. This policy allows registered staff members and their dependent family members to receive healthcare from designated hospitals by making monthly contributions to the Health Fund. This policy has served as a motivation for the University's employees.

06

BEEC - Trainings for Government Officials through BUITEMS-PIM collaboration

In today's fast-paced business environment, it's essential for executives to possess a set of skills that can help them meet the demands of the industry. The market is constantly evolving and requires professionals who can adapt and excel in their roles. To meet this need, Executive Education Centers play a crucial role in providing training and development programs that help executives acquire new knowledge, skills, and attitudes. BUITEMS Executive Education Center (BEEC) is the first of its kind in Balochistan and the third in Pakistan, catering to the needs of the corporate sector. The center helps organizations to enhance their management capabilities by offering specialized programs that combine the principles of business and performance management.

As a means of expanding its educational offerings, BUITEMS entered into a partnership with the Pakistan Institute of Management (PIM) to offer joint management trainings in Balochistan. This collaboration resulted in the creation of the BUITEMS Executive Education Center (BEEC), which provides opportunities for international-level management training to BUITEMS students,

staff, and government officials in Quetta. The center covers a wide range of topics including:

- Workshops on Project Management
- Management Course for Junior Executives
- Skills in Administration
- Effective Letters, Reports & Presentations
- Effective Project Proposals
- Effective Communication Skills
- Finance and Accounting for Non-Financial Executives
- Enhancing Leadership Skills etc.

07

Special Focus on Training and Development Activities

BUITEMS recognizes the importance of ongoing development of its human resources through practical training that produces tangible results in line with the University's strategy. To this end, the University has placed a special emphasis on training and development activities for both its teaching and administrative staff. Some of these activities are highlighted below:

- Newly inducted teachers are to undergo a month-long Professional Development Training Program on their joining the University on mandatory basis.
- Teachers attend Curriculum Review trainings/ workshops in every semester of studies.
- Teachers and staff are enrolled in professional development programs arranged by the Directorate of Human Resource Development BUITEMS. This is a regular feature on mandatory basis, so that, their professional development is on constant increase and updated.
- Administrative staff are nominated in trainings arranged by BUITEMS

Executive Education Center (BEEC) on quarterly basis, and a policy has been devised for them regarding training fee concession in the same.

- Staff members and teachers keep attending training programs of "Continuing Professional Development (CPD)" arranged by Directorate of HRD in coordination with Pakistan Engineering Council, Higher Education Commission, Pakistan Audit and Accounts – both inland and abroad. These programs are also arranged in-house and the BUITEMS resource persons are invited at other institutions for arranging the same.
- BUITEMS arranges customized training programs for its staff and other sister Universities/ organizations to strengthen executive skills of its officials in specific areas.
- BUITEMS staff and teachers are nominated for trainings under ASP-LUMS Trainings Programs, which serves for improvement of their knowledge on the subject, acquaint them to the recent developments and updates, developed team work to assist them to perform effectively as a team-player and emphasized skills by focusing on the best practices.
- These trainings have also been helpful for faculty in realizing the importance of course content and its compilation.

08

BUITEMS innovative idea of establishing Business Incubation Centre

The BUITEMS Business Incubation and Entrepreneurship Center (BBIEC) was established as an innovative approach to supporting its alumni and students in the development of successful start-up companies that create jobs, revitalize communities, commercialize new technology, and strengthen local and national economies.

The center offers incubated firms various

resources, including furnished office space, conference rooms, and access to communication and internet services, industry connections, business coaching, investment opportunities, and marketing support, all under agreed upon terms and conditions.

This approach has been implemented to cultivate an entrepreneurial mindset among young students and graduates by providing them with the necessary tools and resources to start their own profitable businesses. This includes management guidance, technical assistance, and consulting services specifically tailored to the needs of new and young companies. The pilot project was launched in 2015.

09

Membership of Academic Associations

BUITEMS has achieved membership of the following Academic Associations, which add to the academic services of the University :

- United Nations Academic Impact (UNAI)
- International Associations of Universities
- Association of Quality Assurance Agencies of the Islamic World
- The Tailors Network
- ASQ
- Association of Commonwealth Universities (ACU) Council

10

Establishment of National Incubation Center at BUITEMS

The National Incubation Center (NIC) in Quetta is founded on the success of BUITEMS Business Incubation & Entrepreneurship Center (BBIEC). National Incubation Center (NIC) in Quetta is an innovative initiative established as a joint venture of BUITEMS and LUMS Lahore.

Its primary objective is to act as a center of innovation in the region, promoting creative approaches that positively impact people's lives and raise living standards. By fostering an environment of innovation and entrepreneurship, NIC is dedicated to supporting and nurturing startups and emerging technology companies to create and/or commercialize knowledge-intensive products and services through the incubator. NIC aims to encourage entrepreneurship in the region by offering training and mentorship programs, connecting entrepreneurs with investors and industry experts, and providing access to resources and facilities to help startups grow and succeed.

NIC offers a platform for entrepreneurs to showcase their talent and innovative ideas in various fields such as information and communication technology, agriculture, and many more. The center provides a comprehensive range of facilities and services, including mentorship programs, networking opportunities, seed funding, and training workshops that help entrepreneurs to succeed in today's competitive market.

BUITEMS envisions that NIC Quetta will become a leading incubator in the region that offers a supportive environment for the development of innovative, high-growth, and ICT-based start-ups. By nurturing an ecosystem of entrepreneurship, creativity, and innovation, NIC Quetta aims to create a platform where entrepreneurs can turn their dreams into reality and contribute to the socio-economic development of the region.

11

Balochistan Think Tank Network

Balochistan Think Tank Network (BTTN) was established at Quetta, on March 1, 2021. It is an autonomous, non-profit, non-partisan and multidisciplinary Research Center with focus not limited to Balochistan only, but the regional and global dynamics which can influence Pakistan.

Broadly, BTTN endeavors to undertake in-depth research of provincial issues

with a view of socio, political, and economic development of the province. Its interests include issues of Energy, Regional Stability, Strategic Stability, Peace and Security, Arms Control and Disarmament, Non-Proliferation, Peaceful Uses of Nuclear Technology and Energy, Conflict Resolution, Regional Connectivity and Socio-economic Development at national level. Geopolitically, besides South Asia, BTTN's research areas include Europe and Africa.

There was a need to foster a knowledge pool involving young scholars from universities in Balochistan to present unbiased and accurate narratives of development and national integration. It provides a forum for national and international think tanks to debate policies and practices on provincial, regional and strategic domains within the ambit of the larger national narrative and will provide timely policy suggestions to provincial/national decision-makers. It is a platform for various segments of the society to jointly work for the socio, political, and economic uplifting of Pakistan. BTTN envisions to be the leading policy-oriented think tank in Balochistan that promotes research culture focused on development, stability and national integration by mapping pathways for sustainable policy solutions. It aims to pursue quality research, based on knowledge and investigation that earns credible status for BTTN amongst the academia, intellectuals and stakeholders/decision-makers of Pakistan in general and Balochistan in particular.

Objectives

The prime objective of BTTN is to focus on research, development, and national integration with an aim to attain the status of "Center of Excellence" in Balochistan. To provide a platform for researchers, academia, and civil society to germinate new concepts and ideas on strategic issues in Pakistan's national security interest. It aims at nurturing and training young, budding scholars to become Pakistan's effective and credible voice in both, national and international arenas and become a leading institution to project Pakistan's strategic narrative.

Excellence in Research

The journey of BUITEMS began with the goal of providing a conducive learning environment for young people. Over the course of 20 years, the efforts of many individuals have contributed to the growth and success of the university, elevating its reputation, academic standards, and overall standing.

Over the course of two decades, BUITEMS has established itself as a leader in research and education. Despite facing obstacles, the university has made a concerted effort to foster a culture of research and scholarship that aligns with its values and goals. This unwavering dedication to knowledge-generation has enabled BUITEMS to maintain its position at the forefront of higher education in the region.

The leadership at BUITEMS understands that the defining characteristics of an entrepreneurial university include a strong leadership core, a broad range of development opportunities, a diverse funding base, a thriving academic environment, and a culture of entrepreneurship. The University has a clear mission to instill values of integrity, respect, and critical thinking in its students, in order to foster a responsible and well-rounded society, which is the ultimate goal of higher education.

01 ORIC

The creation of the office of research, innovation and commercialization (ORIC) at BUITEMS in 2011 was a result of the Higher Education Commission's (HEC) policy to prioritize research within universities as a means of promoting sustainable economic growth and a future knowledge economy. The ORIC serves as a central hub for all research-related activities, from proposal development to commercialization, and is dedicated to utilizing the talents of a diverse and interdisciplinary group of scholars to strengthen the connections between research, practice, and policy, under one unified structure.

ORIC at BUITEMS was established with the goal of making research a top priority for sustainable economic growth and a future knowledge economy. The ORIC focuses on addressing pressing societal issues such as racial/societal injustice, rising cost of living, population growth, water scarcity, and climate change by fostering a collaborative approach that brings together academia, the private sector, and government institutions to find solutions.

The aim of ORIC at BUITEMS is to foster

collaboration between faculties, industry and government entities, with the goal of advancing research and facilitating its commercialization. By creating a supportive environment for scholars, students, and professionals, ORIC aims to drive policy changes and spark new innovations for society's benefit.

Since 2013, the office of research, innovation and commercialization (ORIC) at BUITEMS has organized a variety of conferences and workshops to empower faculty and graduate students to share their research and innovations on a global scale, ultimately making a positive impact on the community and society both locally and nationally.

02 Research Policy, TISC and Patents

Over the past few years, BUITEMS has made significant strides in its research and innovation initiatives. In 2018, the University established a Research Policy and created a Technology and Innovation Support Centre (TISC) to assist innovators in protecting and managing their intellectual property rights. As a result, nine patents

have been registered at the International Patent Organization Pakistan, solidifying BUITEMS' reputation as a leader in growth and innovation. In 2019, the ORIC Steering Committee was also formed to further promote and guide research efforts at the university.

03 Research Projects and Publications

The ORIC at BUITEMS has seen significant growth and success in the past decade. With over 1,000 research publications, 130 poster presentations, and 20 book publications, the researchers at BUITEMS have made valuable contributions to the generation of new knowledge. Additionally, ORIC funding has directed PKR 25 million towards various research projects. The trends in publications and funding for research at BUITEMS have been on the rise.

04

Funding Success

ORIC prioritizes the support and empowerment of its researchers to boost their performance and exposure. 2020-21 was a remarkable year as it marked the highest funding and publications record in the history of the office. Through ongoing efforts to refine and clarify its goals and outcomes, the researchers at BUITEMS have grown increasingly confident in ORIC's ability to guide and aid them.

The significant increase in research income is attributed to a diverse range of external funding sources, including government agencies, non-government organizations, and industrial support.

05

National Laboratory Consortia

Control, Automotive & Robotics Lab (CARL 2019)

The CARL lab is part of a consortium of eleven Labs in thirteen universities under the name National Center of Robotics & Automation (NCRA). CARL is currently working on a project worth PKR 80 million funded by the NCRA to find solutions to pressing problems of Pakistan, and particularly Balochistan, using Robotics and Artificial Intelligence.

Spatial Decision Support System Lab (SDSSL 2020)

The SDSSL is one of seven labs amongst seven universities under the Establishment of the National Centre of GIS and Space Applications (NCGSA). The lab has received PKR 69.5 million funded by NCGSA to focus on three different domains—Geo-Health, Geo-Forensics, and Minerals Inventory.

06

Awards and Honors

In 2019, BUITEMS was recognized as one of Pakistan's top universities for research in internal and external surveys

and rankings. The QS Asian University Rankings placed BUITEMS among the top 600 universities in Asia, which confirms that the University's research efforts are making significant progress.

National and International Recognition

According to 2015 Higher Education Commission HEC Rankings, BUITEMS was ranked 5th in Pakistan for Computer Sciences & Information Technology and 12th in Pakistan for Engineering & Technology. Furthermore, BUITEMS is one of only three Pakistani universities to be included in the 2016 rankings of U-Multirank, an independent ranking system funded by the European Commission under the Erasmus Program that evaluates universities based on various education-specific indicators.

BUITEMS currently holds memberships and affiliations with several national and international organizations:

- International Association of Universities (IAU)
- United Nations Academic Impact (UNAI)
- Association of Quality Assurance Agencies of the Islamic World (AQAAIW)
- The Talloires Network
- Association of Commonwealth Universities (ACU)
- American Society for Quality (ASQ)
- World Confederation of Businesses (WORLD COB)

07

Research Infrastructure

Research and Development (R&D) is at the heart of everything at BUITEMS. As a leading institution of higher learning, BUITEMS is constantly investing its efforts and resources into R&D initiatives. To facilitate this, BUITEMS has a designated research center located within the Sir Syed Ahmed Block of the university. This center serves as a dedicated space for MS and PhD researchers to conduct their research individually or in groups. The center is designed to provide a distraction-free envi-

ronment that is conducive to high-computing activities. Additionally, a conference room is soon to be added to the center as part of an expansion plan that also includes the establishment of two more research centers on campus. This will help accommodate the growing number of researchers at BUITEMS. The University also boasts a central library that is stocked with over 50,000 books, CDs, DVDs, students' final year project reports, MS and PhD theses, national and international journals and newspapers, periodicals, BUITEMS newsletters, HEC newsletters, and e-books. The library also provides students with free access to a wide range of digital books through its digital library access. All the books in the central library are managed through a fully automated library management system that makes it easy for students to find any book from anywhere on campus.

08

Collaborations

BUITEMS fosters a collaborative and cohesive environment among its faculty, driving opportunities for research and innovation in education. The University has established partnerships with national and international institutions, as well as organizations and governments, to promote quality education and problem-solving in the local community.

A True Global University



"Be not afraid of going slowly, be afraid only of standing still."

HARNESSING THE POWER WITHIN

The Balochistan University of Information Technology, Engineering and Management Sciences, or BUIITEMS for short, is a reputable public sector university located in the Balochistan region of Pakistan. It was established in 2002 and has been at the forefront of providing education in cutting-edge fields ever since.

The University has been dedicated to meeting the ever-changing needs of higher education and has played a crucial role in promoting the provision of quality education in the region. Over the years, the student population has grown significantly, from 90 students in 2002 to 11,344 students in 2019.

As a member of the Association of Commonwealth Universities (ACU), BUIITEMS has been certified as an ISO 9001:2015 educational institution. It is widely recognized among the academic community in Pakistan as an institution that has achieved a high level of academic and



administrative excellence, setting an example for other institutions to follow.

Through a dedicated team, innovative practices, and a commitment to academic excellence, BUITEMS aims to produce future leaders who will make a positive impact in the region and beyond.

BUITEMS is a well-equipped institution with modern facilities and resources. It features a variety of specialized spaces including state-of-the-art laboratories, seminar rooms, lecture halls, and training rooms. Additionally, it has advanced technology such as video conferencing and an auditorium. It also boasts an Expo Center, sports complex, cricket ground, medical center, art gallery, and housing for both students and staff.

The University has been recognized for its outstanding performance in the field of Computer Science and Information Technology. As per the ranking of Higher Education Commission (HEC) of Pakistan, BUITEMS has been declared as the 4th best University in Pakistan in the category of Computer Science and Information Technology. This is a testament to the quality of education and facilities provided by the University, and its commitment to providing students with the resources and knowledge they need to excel in their chosen fields.

As a premier institution of higher learning, BUITEMS recognizes the importance of knowledge creation and the role it plays in fostering a culture of research and innovation. This is reflected in the University's significant growth as a research institution. Over time, the number of research publications produced by BUITEMS has increased significantly and has a noticeable impact factor.

Currently, the faculty of BUITEMS is engaged in a variety of research projects of both national and international significance. These projects are funded by organizations such as the Eurasia Asia-Connect Foundation, United Nations Refugee Agency, Higher Education Commission (HEC) Technology Development Fund, National Research Program for Universities, Startup Research Grant Program, Social Integration Outreach Program, National Centers of Excellence projects, Pakistan Science Foundation and Pakistan Agriculture Research Council.

All of these research endeavors demonstrate the dedication and hard work of BUITEMS in the area of knowledge creation and its commitment to making meaningful contributions to the academic community and society at large.



The faculty at BUITEMS plays an active role in various national and professional organizations, including but not limited to the National Computing Education Accreditation Council (NCEAC), National Technology Council (NTC), Pakistan Engineering Council (PEC), National Curriculum Revision Committee (NCRC), Textbook Board, Institute of Architects Pakistan (IAP), Pakistan Council of Architects and Town Planners (PCATP) and National Business Education Accreditation Council (NBEAC). This participation allows the University to contribute to the development of national education policies and standards and be involved in the decision-making process of these organizations.

In addition, BUITEMS maintains a close working relationship with the Planning Commission of Pakistan and the Provincial Planning and Development Department, providing support and assistance when needed. This ensures the University's role in the development of the Balochistan province and the country as a whole.

Furthermore, the United Nations Academic Impact (UNAI) has recognized BUITEMS as a global hub for Sustainable Development Goal 8: Decent Work and Economic Growth, highlighting its commitment to promoting sustainable economic growth and creating decent work opportunities for all.

Balochistan is a land of untold potential, blessed with an abundance of natural resources waiting to be discovered and utilized. BUITEMS, with its commitment to education, is poised to play a pivotal role in unlocking the region's potential by educating and training the youth in the fields of engineering, technology, science, and life sciences that are most relevant to the region's development and economic growth.

The University is dedicated to providing its students with a well-rounded educational experience that merges rigorous academic study with opportunities for discovery and innovation. It strives to create an environment that nurtures their minds, bodies, and spirits by providing an atmosphere that combines challenging coursework, stimulating research opportunities and the excitement of discovery with the pleasure of recreation and relaxation.

In effect, BUITEMS aims to create a holistic learning experience that not only prepares its students for successful careers but also for fulfilling lives. With BUITEMS, the future leaders of Balochistan will be well-equipped to unlock the region's immense potential and drive its economic growth.

FORTHCOMING ENDEAVORS

BUITEMS School System

Why there is a need for it?

In today's rapidly evolving business environment, employers are not only seeking candidates who possess knowledge and skills in their field, but also those who can analyze, synthesize information, generate new ideas, adapt to change, and communicate effectively in English. Unfortunately, the current local education system is not designed to develop these attributes in students.

This is where internationally recognized qualifications at the secondary school level become crucial. These curriculums are designed to instill knowledge, foster intellectual curiosity, and hone a wide range of soft skills that are essential for success in higher education and the workforce.

By providing students with access to these internationally recognized qualifications, BUITEMS is equipping them with the knowledge, skills, and attributes that are in high demand by employers. This will increase their employability and give them the competitive edge they need to succeed in today's fast-paced business world.

In summary, the internationally accepted qualifications at school level get prime importance because the existing local education system is not experienced or equipped to inculcate the attributes that are required by employers in today's fast-paced changing commercial world. These qualifications are designed to instill knowledge, intellectual curiosity and hone numerous soft skills that are vital for higher education.

Bridging the Gap

BUITEMS has established itself as a premier higher education institution, both at the provincial and national levels. True to its mission of providing education to all, the University has identified a significant gap in the provision of primary and secondary education in the region. To address this need, the University is exploring ways to leverage its resources, including its highly qualified faculty and state-of-the-art infrastructure, to create a quality learning environment that will empower students to become globally engaged citizens.

In other words, BUITEMS has identified that there is a gap in provision of primary and secondary education in the region and it is planning to utilize its faculty and infrastructure to provide quality education to fill that gap and prepare students to be active citizens of the world.

This initiative aims to extend BUITEMS reach beyond the traditional boundaries of higher education and contribute to the development of the region's human capital. By providing access to quality primary and secondary education, the University hopes to create a more equitable and sustainable future for the people of Balochistan.

School System in the offing

BUITEMS is in the process of creating its own school system, which will be part of the global education community. The school will benefit from the expertise of BUITEMS highly qualified Ph.D. and MSc faculty, who will teach a diverse range of subjects including but not limited to science, arts, life sciences, engineering, commerce, and humanities. The school will provide education of international standards from kindergarten to intermediate levels, and will be equipped with technologically advanced learning infrastructure, including training halls, auditoriums, laboratories, and video conferencing facilities.

The primary focus of the school will be to adhere to the guidelines set by the Federal Education and Professional Trainings for "Minimum Standards for Quality Education". By providing education that meets these standards, BUITEMS aims to prepare its students to compete and succeed in a globalized world.

BUITEMS School of Law

Law degrees have long been highly desirable and respected courses of study at the university level. For many students, a law degree is a first step on the path to a career in the legal field, which may involve additional training and study to become a practicing lawyer. However, the study of law at the university level offers much more than just a stepping stone to a legal career. The challenging nature of law degrees attracts many students as it provides a unique blend of intellectual stimulation and human interest.

With a vision to provide education in the fields that are most needed in

Balochistan, BUITEMS is taking the next step in its mission by creating the BUITEMS School of Law. The region is in dire need of good law schools, and this new initiative, which is planned to be established in the next five years, will open new doors of opportunities for the youth of the region to gain a quality education in the field of law.

The Bachelor of Laws (LLB) is an undergraduate degree that provides students with a comprehensive education in the field of law. The abbreviation LLB stands for Legum Baccalaureus, which is Latin for "bachelor of laws." Upon completion of an LLB degree, students can pursue a consecutive Master's program in Law Sciences, which is known as a Master of Laws (LLM). The LLB degree offered by an international law school typically takes 4-5 years to complete.

BUITEMS plans to offer a 5-year LLB degree program that takes an intense study, research and practice approach, to give students a holistic understanding of law and its implications. The program will be designed to engage students in a blend of studying law books, criminal codes, analyzing cases, and learning how to efficiently summarize information. Additionally, the program will emphasize on legal ethics, where students learn about legal principles such as the presumption of innocence, which states that a person is considered innocent until proven guilty, and other related aspects of law.

EXPANDING HORIZONS

Sub-campuses

With a mission to bring quality education to the youth of Balochistan and to expand its academic reach, the BUIITEMS in Quetta is planning to establish sub-campuses in various remote areas of Balochistan. BUIITEMS is currently operating in the five campuses (see Table).

This initiative is aimed at providing access to education to students in far-flung areas, who otherwise would have limited opportunities to pursue higher education. The sub-campuses will not only bring education to the students but also create jobs and boost economic growth in those regions. BUIITEMS goal is to provide equal opportunities to all the students of Balochistan and to help them to achieve their full potential, regardless of their location.

The proposed initiative to establish sub-campuses throughout the province of Balochistan aims to not only provide access to quality education to the youth of the region, but also to expand the academic operations of the University. BUIITEMS plans to take this step as it is aware of the national and international needs, and is capable of preparing students for the new, "globalized" economy.

While universities are primarily focused on academic research and learning, they do have an important role to play in shaping culture and influencing society. By establishing sub-campuses in far-flung areas of the province, BUIITEMS will be able to reach out to the residents of these areas and provide them with access to higher education, breaking down any barriers that may have previously existed.

Current Campuses of BUIITEMS

#	CAMPUS	ESTABLISHED IN	APPROX. AREA (ACRES)	CURRENT SERVICE UTILIZATION
1.	Takatu Campus (Main Campus), Quetta	2005	108	Houses 05 Faculties
2.	City Campus, Quetta	2002	2.5	Houses 01 Faculty
3.	Chiltan Campus, Hazarganji, Quetta	2003	148	Houses Research Farm of the University
4.	Zhob Sub-campus	2018	200	Houses 03 Teaching Departments
5.	Muslim Bagh Sub-campus	2019	70	Faculty and Students induction underway

Sub-campuses Identified as Priorities for Development

#	SUB-CAMPUS
1.	Dalbandin – Chaghi
2.	Kalat
3.	Gwadar
4.	Killa Abdullah
5.	Barkhan

At BUIITEMS, quality and excellence in education is not just a motto, but a way of life. As we expand our academic operations with new sub-campuses, we are committed to maintaining the highest standards of higher education and ensuring that our students receive the same quality of education as they would on our main campus. We are proud of the fact that our alumni have gone on to make valuable contributions to their communities and we will continue to do so by providing the best resources and qualified teachers to our proposed sub-campuses. In our strategic plan for the years 2019-24, we have identified the sub-campuses as priorities for development.







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