

EXECUTIVE SUMMARY OF THE UNIVERSITY REPORT

Brief History of the University.

Initially an institute was established in Khairpur Mirs state with the name of Sir Ali Murad Technical Institute in 1895, it was converted from technical institute to the Polytechnic Institute by the Government of West Pakistan in year 1962. Afterwards it was upgraded as Government College of Technology (GCT) in the year 1974 to offer B.Tech degree Programs.

Govt. College of Technology was then upgraded into The Benazir Bhutto Shaheed University of Technology and Skill Development (BBSUTSD), Khairpur Mirs and Petroleum Technical Training Institute was merged into BBSUTSD through Act XIX of the Provincial Assembly of Sindh on 22nd April, 2016.

The University has Two Academic Faculties

1. Faculty of Engineering Technology

2. Faculty of Skill Development.

In 2018, the University announced the first admissions in 4-year BSc Engineering Technology Program in the following departments after getting permission from National Technology Council (NTC) Islamabad and NOC from Higher Education Commission (HEC), Islamabad.

- Civil Engineering Technology
- Mechanical Engineering Technology
- Electrical Engineering Technology
- Electronics Engineering Technology

NTC issued permission to start programs after the zero visit and the Interim & Accreditation visits are scheduled to be held on 03 & 04 February, 2022

The University offers 3-year Diploma of Associate Engineer (DAE) in 09 Technologies and various short courses under the umbrella of Faculty of Skill Development.

University has constituted all the statutory bodies and their meetings are held regularly as per act of the University. The University has appointed Faculty as per criteria prescribed by HEC and appointed minimum number of officers and staff to manage the University affairs. The University has also acquired additional 28 Acres of land for extension of campus. The development work on newly acquired land and renovation work of old building infrastructure funded by PSDP & ADP respectively is in full swing.

The University has established the laboratory infrastructure & a smart class room through Sindh Higher Education Commission funding. IT infrastructure including PERN Network is in installation phase through funding by HEC, Islamabad. The University Student Buses are plying on various routes throughout remote areas of Khairpur, Sukkur & Naushehro Feroze districts. The University has separate hostels for boys and girls students along with a faculty and officers hostel.

The University has signed Memorandum of Understanding (MoUs) with various organizations and Universities. Furthermore University students have participated in various events and competitions and won awards. Students participated in various sports events organized by HEC. The University has a Library with sufficient No. of books of Engineering Technology and subscribed 20 impact factor research journals and has well established computer laboratories.

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MESSAGE OF PRO CHANCELLOR

It is an honour for me to Chair the second meeting of Senate of The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs on behalf of honourable Chief Minister Sindh.

It is a moment of pleasure to be in company of senior academicians from different parts of Sindh. I have been informed that this is the first public sector Technical University of Sindh, established in 2016.

It is need of the time to equip our young people with technology and skill in novel fields beyond a 3-year diploma, so that they can grow in career and create new ideas for advancement of society.

The Government of Sindh has been graciously spending in health & education sectors for welfare of people. Establishment of Universities in different districts of Sindh including Khairpur Mirs, is the evidence of our pledge to the promotion of quality higher education.

The Government of Sindh would emphasize the faculty members serving in the universities of Sindh to impart quality education and ignite innovative thinking among students and offer solutions to the challenges that the nation are facing today.

Universities being natural think tanks throughout the world, should also be instrumental in achieving UN Sustainable Development Goals. The Government and researchers need to mutually focus and address the challenges of changing climate effects in our region on agriculture productivity and clean water availability.

I expect that the University will soon introduce the Postgraduate and Doctorate research studies in the field of Engineering Technology and will launch new teaching departments in emerging engineering technologies.

In the end, I will appreciate the Vice Chancellor, Faculty and Administration of The Benazir Bhutto Shaheed University of Technology and Skill Development for striving hard consistently to achieve the aim & objectives of the University. I congratulate the Vice Chancellor and his team for successfully organizing 2nd meeting of Senate of the University and also assure all possible support of Government of Sindh in developing the University.

Muhammad Ismail Rahoo

Pro Chancellor

MESSAGE OF VICE CHANCELLOR

I am grateful to all the stakeholders who helped in establishing and strengthening The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs as first Public Sector Technical University of Sindh in the field of engineering technology including the Government of Sindh, Higher Education Commission Islamabad, Sindh Higher Education Commission and National Technology Council, Islamabad.

I also appreciate the presence and valuable input of Senior Educationists, Industrialists, eminent citizens & Government functionaries during meetings of statutory bodies of the University.

In the light of Vision of the University, the University management is working towards achieving the status of an internationally recognized university of engineering technology, a destination of choice for outstanding students and a University that provides a congenial academic environment.

Despite operating in a fiscally constrained environment, the management is trying to fast reach the academic & administrative targets. We are focusing on exploring financial resources beyond HEC and Sindh Government funding, by establishing partnerships with industry, developing incubators and getting support from philanthropists and angel investors.

We recruited competent & qualified faculty and administrative staff purely on merit to impart higher quality education. In addition to that the construction of new infrastructure and renovation of existing infrastructure is in progress.

Our future plans are to up-grade to the next academic level i.e. Postgraduate & Doctorate studies in Engineering Technology and establish teaching departments in the Computer and Garments & Fashion Design technologies.

I have faith in the capabilities of our young generation and I am very much confident about the bright future of Technology Education at the first Public Sector Technical University of Sindh.

Engr Prof. Dr Madad Ali Shah
Vice Chancellor

HISTORY OF KHAIRPUR MIRS



Khairpur also called Khairpur Mirs is located at south-central region of Pakistan. The city lies on the bank of Khairpur East Canal, 18 km south of the Indus River. It was founded in 1783 by Mir Sohrab Khan Talpur. The city had industries of textile, silk, leather & carpet. Amenities include several parks, the mir's palace, hospitals, a library, and a stadium.

The former princely state of Khairpur was recognized in 1832 by the British, who allowed it to retain its political existence after the British annexation of Sindh in 1843. In October 1955 the Khairpur state acceded to Pakistan



HISTORY OF UNIVERSITY

Originally, this was a Technical Institute named as Sir Ali Murad Technical Institute, upgraded as Polytechnic Institute by the Government of West Pakistan in 1962. Later further upgraded as Government College of Technology, Khairpur in 1974 to offer the B. Tech degree in different Technologies. Petroleum Technical Training Institute (PTTI) was established in 2009 within GCT premises.

Govt. of Sindh up-graded GCT / PTTI Khairpur into The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs through bill passed by the Provincial Assembly of Sindh on 22nd April, 2016.

VISION

To lead global technological education and embed the market-driven employable and entrepreneurial skills to empower community.

MISSION

To empower community with the hands-on technological knowledge through high quality teaching & research environment, innovative tools & techniques, and entrepreneurial & global leadership skills with the consciousness of ethical norms & values.

AIM & OBJECTIVES

The main aim of the University is to produce high quality technology graduates equipped with practical hands-on experience needed to serve the community. The specific objectives of the University are:

- To produce the skilled personnel to eradicate poverty and uplift the morale of the community
- To provide technical knowledge to the graduates with the state of the art practical skills required for market commercialization
- To equip graduates with technical entrepreneurial skills
- To produce workforce with global market employability
- To embed latest market-driven skills needed to uplift the society
- To produce skilled workers conscious of ethical norms & cultural values

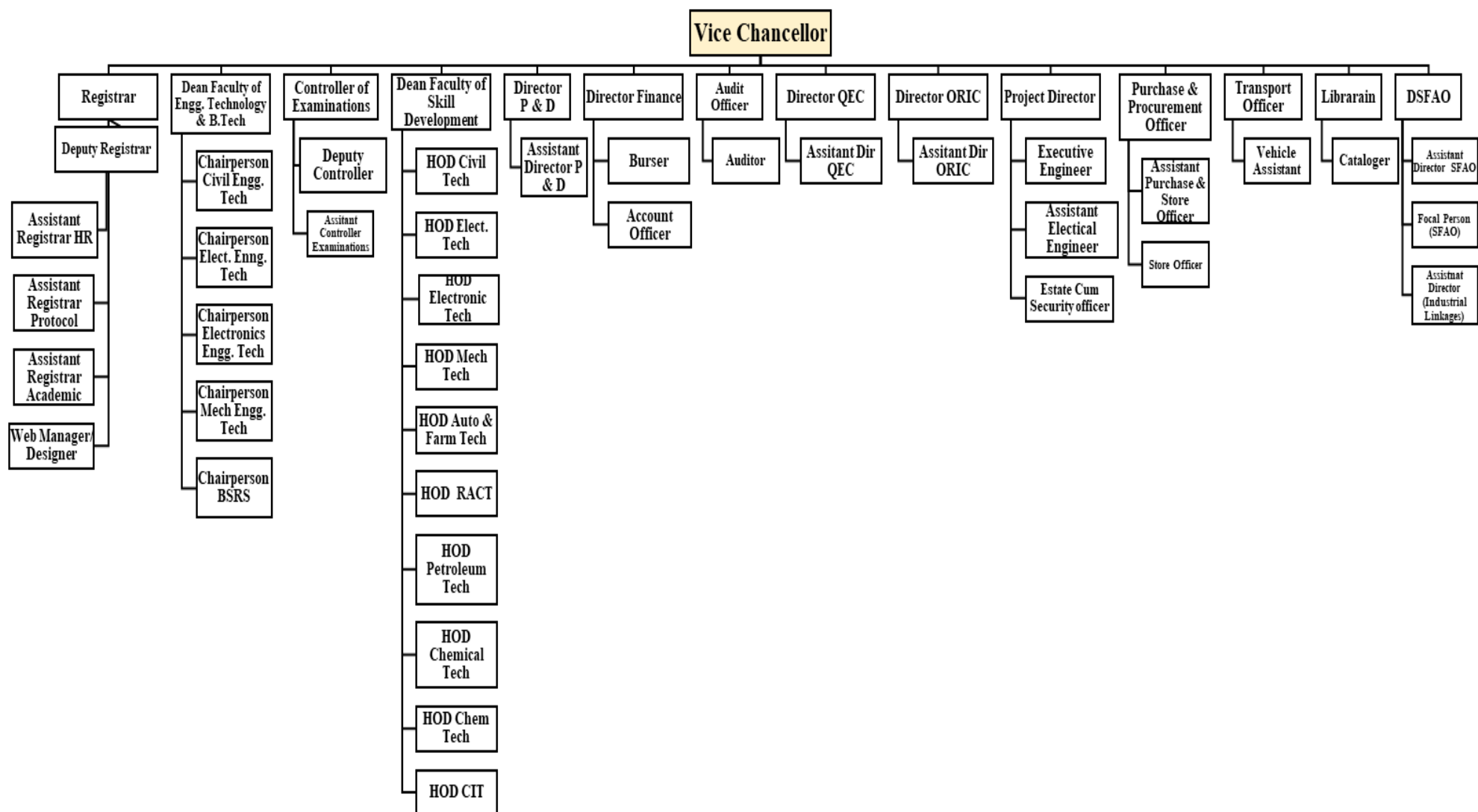
FACULTIES OF UNIVERSITY

Faculty of Engineering Technology
Faculty of Skill Development

AUTHORITIES OF UNIVERSITY

- i. Senate
- ii. Syndicate
- iii. Academic Council
- iv. Boards of Faculties
- v. Boards of Studies
- vi. Selection Board
- vii. Advanced Studies and Research Board
- viii. Finance and Planning Committee
- ix. Affiliation Committee
- x. Disciplinary Committee

ORGANOGRAM



UNIVERSITY MILESTONES

2016 - Established as 1ST Technical University of Sindh

2017 - PC-I for establishment of University approved by CDWP

2018 - Faculty appointed

2018 - First BSc Engineering Technology batch enrolled

2019 - Officers and Staff appointed

2020 - Transport fleet purchased

2021 - Smart class room established

PROGRAMS OFFERED

Faculty of Engineering Technology

- Department of Civil Engineering Technology
- Department of Electrical Engineering Technology
- Department of Mechanical Engineering Technology
- Department of Electronics Engineering Technology

Faculty of Skill Development

- 03-Years Diploma
- 06-Months Short Course
- 03-Months Short Course

HUMAN RESOURCE

Teaching

PhD		18 Year Education		16 Year Education		Total		Grand Total
Male	Female	Male	Female	Male	Female	Male	Female	
12	0	23	05	10	0	45	05	50

Non-Teaching

Officers		Officials		Grand Total
Male	Female	Male	Female	
16	01	71	05	93

STATUARY BODIES MEETINGS

SENATE

1ST HELD ON 16-02-2019

2ND HELD ON 31-01-2022

SYNDICATE

1ST MEETING HELD ON 08-09-2018

2ND MEETING HELD ON 29-08-2019

3RD MEETING HELD ON 01-02-2020

4TH MEETING HELD ON 17-12-2021

SELECTION BOARD

1ST MEETING HELD ON 10-02-2018

2ND MEETING HELD ON 18-02-2018

3RD MEETING HELD ON 19-04-2019

4TH MEETING HELD ON 13-01-2020

5TH MEETING HELD ON 06-11-2021

FINANCE & PLANNING COMMITTEE

1ST MEETING HELD ON 19-05-2018

2ND MEETING HELD ON 05-09-2018

3RD MEETING HELD ON 06-07-2019

4TH MEETING HELD ON 03-08-2019

5TH MEETING HELD ON 25-01-2020

6TH MEETING HELD ON 30-11-2020

7TH MEETING HELD ON 27-02-2021

8TH MEETING HELD ON 23-10-2021

ACADEMIC COUNCIL

1ST MEETING HELD ON 01-09-2018

2ND MEETING HELD ON 06-03-2021

BOARD OF FACULTY

1ST MEETING HELD ON 25-08-2018

2ND MEETING HELD ON 23-01-2021

STUDENTS' ENROLLMENT IN FACULTY OF ENGINEERING TECHNOLOGY**BSc Engineering Technology**

Year	18 Batch	19 Batch	20 Batch	F-20 Batch	21 Batch	Total Enrollment
2017-18	200	-	-	-	-	200
2018-19	72	193	-	-	-	265
2019-20	47	105	141	-	-	293
2020-21	46	79	105	169	-	399
2021-22	46	75	100	111	145	477

STUDENTS' ENROLLMENT IN FACULTY SKILL DEVELOPMENT**Diploma of Associate Engineer (DAE)**

Summary of DAE 1st, 2nd and 3rd Year Academic Year 2018-19				
S #	Technology	Total Enrolled in 1st Year (session 2018-19)	Total Enrolled in 2nd Year (session 2017-18)	Total Enrolled in 3rd Year (session 2016-17)
1	Civil	39	31	28
2	Electrical	40	32	22
3	Mechanical	43	28	21
4	Petroleum	19	18	7
5	CIT	10	-	-
6	Chemical	6	8	6
7	Civil (Evening)	23	47	40
8	RAC	-	11	13
9	A&D	-	9	3
10	Electronics	11	10	15
11	RAC (Evening)	-	1	-
12	Mechanical (Evening)	-	-	1
13	Electrical (Evening)	-	8	8
Total		191	203	164
Grand Total				558

Summary of DAE 1st, 2nd and 3rd Year Academic Year 2019-20				
S #	Technology	Total Enrolled in 1st Year (session 2019-20)	Total Enrolled in 2nd Year (session 2018-19)	Total Enrolled in 3rd Year (session 2017-18)
1	Civil	49	30	28
2	Electrical	41	21	23
3	Mechanical	24	29	23
4	Petroleum	17	6	15
5	CIT	16	8	
6	Chemical	13	5	8
7	Civil (Evening)	12	16	46
8	RAC	9	2	8
9	A&D	-	-	4
10	Electronics	-	6	8
11	RAC (Evening)	-	-	1
12	Mechanical (Evening)	-	-	1
13	Electrical (Evening)	-	-	8
Total		181	123	173
Grand Total				477

Summary of DAE 1st, 2nd and 3rd Year Academic Year 2020-21				
S #	Technology	Total Enrolled in 1st Year (session 2020-21)	Total Enrolled in 2nd Year (session 2019-20)	Total Enrolled in 3rd Year (session 2018-19)
1	Civil	49	43	29
2	Electrical	50	31	21
3	Mechanical	26	21	29
4	Petroleum	6	15	6
5	CIT	19	8	7
6	Chemical	4	10	5
7	Civil (Evening)	14	10	17
8	RAC	12	6	1
9	A&D	2	-	-
10	Electronics	6	-	5
Total		188	144	120
Grand Total				452

Summary of DAE 1st, 2nd and 3rd Year Academic Year 2021-22

S #	Technology	Total Enrolled in 1st Year (session 2021-22)	Total Enrolled in 2nd Year (session 2020-21)	Total Enrolled in 3rd Year (session 2019-20)
1	Civil	47	50	32
2	Electrical	47	39	21
3	Mechanical	19	15	16
4	Petroleum	11	4	10
5	CIT	22	17	7
6	Chemical	6	3	7
7	Civil (Evening)	6	13	7
8	RAC	5	11	3
9	A&D	0	2	-
10	Electronics	7	5	-
Total		170	159	103
Grand Total				432

Direct DAE 2nd Year Admission Detail

S #	Technology	Total Enrolled in 2nd Year
1	Civil	9
2	Electrical	2
3	Civil (Evening)	3
4	C.I.T	5
5	Petroleum	1
6	Chemical	1
		21

Short Courses

Year	2019-20	2020-21	2021-22	Total
Enrollment	225	140	125	490



PERFORMANCE REPORT OF TEACHING DEPARTMENTS

DEPARTMENT OF CIVIL ENGINEERING TECHNOLOGY

1. FACULTY TRAININGS:

- Strengthening Institutional Capacity on Vocational Qualification. 13-12 December 2021.
- Training on Incubation Management. 6-7 January 2022.
- Online Training on Research Methodology.
- Skills Up-gradation of Teaching Staff Through Workplace-Based Training Delivery. 04-10-2021 to 04-11-2021.
- Two Days Training on GIS and Remote Sensing.
- Training On Building Code Awareness Organized by PDMA at Sukkur.
- OBE training Workshop Organized by QEC Office BBSUTSD.

2. FACULTY PUBLICATIONS / CONFERENCE PARTICIPATIONS

- Keerio, Hareef Ahmed, Sallahuddin Panhwar, Sabab Ali Shah, Abdul Muntaqim Naji, Asim Ali, and Adnan Aftab. "INVESTIGATION OF CLIMATE CHANGE VARIABILITY UNDER CLIMATE CHANGE CONDITIONS OVER THE SEMI-ARID REGION."
- Siddiqui, Jawad Akhter, Rabindar Kumar, and Manthar Ali Keerio. "EFFECT OF POZZOLANIC MATERIAL OF DISTRICT DADU ON PROPERTIES OF CONCRETE."
- Kumar, Arun, Rabindar Kumar, and Manthar Ali Keerio. "EFFECT OF METAKAOLIN AND SILICA FUME ON PROPERTIES OF CONCRETE."
- Engr. Jabir Ali Keerio. Groundwater Quality Evaluation of Taluka Kotdiji, Sindh, Pakistan. ENGINEERING SCIENCE AND TECHNOLOGY INTERNATIONAL RESEARCH JOURNAL, Vol 5, Issue 1, pp-115-119. (2021)
- EVALUATION OF IRRIGATION EFFICIENCIES BY USING MODELLING APPROACHES, 2nd International Conference on Sustainable Development in Civil Engineering (ICSDC 2019) at Mehran UET, Jamshoro. No. 96 (Ms. Shamotra Oad)
- 2nd International Multidisciplinary digital conference (2nd IMDC) on social engineering and Environmental issues November 13-14, 2021, MUET, SZAB Campus Khairpur Mir's Sindh Pakistan on 'Effects of calcined clay and silica fume on the properties of concrete (Ms. Shamotra Oad).

DEPARTMENT OF MECHANICAL ENGINEERING TECHNOLOGY



PUBLICATIONS:

Sr. No.	Name of Teacher	No. of Publications	Publication Year
1	Prof. Dr. Hussain Bux Marri (Professor)	Total = 05 (International Journal =05)	2020, 2021
	“Application Of Multi-Server Queuing Model To Analyze the Queuing System Of OPD During Covid-19 Pandemic: A Case Study”, Journal of Contemporary Issues in Business and Government Vol. 27, No. 05, 2021		
	“Applications of Queuing Theory and Discrete Event Simulation in Health Care Units of Pakistan” International Journal of Science and Engineering Investigations, Vol. 10, issue 109, February 2021		
	“Improving the Performance of Reception and OPD by Using Multi-Server Queuing Model in Covid-19 Pandemic” International Journal of Science and Engineering Investigations, Vol. 10, issue 109, February 2021		
	“Performance Improvement Of Sale Order Detail Preparation By Using Visual Basic Applications: A Case Study Of Footwear Industry” International Journal Of Business Education And Management Studies (IJBEMS), Vol.3. Issue 1. 2021		
	“Process-based common supply chain management practices in manufacturing firms” International Journal of Logistics Systems and Management, 2020		
2	Engr. Abdul Shakoor Shaikh (Assistant Professor)	Total = 01 (International Journal)	2019
	“An experimental study on performance investigation of solar dish stirling engine in Pakistan” International Journal of Innovative Science and Research Technology, Vol 04, No. 02, 2019		
3	Engr. Uhamir Patrick (Lecturer)	Total = 01 (International Journal =01)	2019
	“Identification of suitable baffle configuration for better performance output of laboratory shell and tube heat exchanger using computer aided modeling and simulation analysis” International Journal of Innovative Science and Research Technology, Vol 06, No. 06, june2021		
4	Engr. Sayed Ali Mustafa Shah (Lecturer)	Total = 01 (International Journal)	2021
	“Thermodynamics modeling and parametric analysis of 512 MW Steam Power Plant with feed water heaters”. International Research Journal Of Modernization in Engineering Technology and Science, Volume:03, Issue:12, December-2021 Impact Factor- 6.752		
5	Engr. Abdul Qadir Channa (Lecturer)	Total = 01 (International Journal)	2019
	“Parametric gasification process of sugarcane bagasse for syngas production” International Journal of Hydrogen Energy Volume 44, Issue 31, 21 June 2019, Pages 16234-16247.		

6	Engr. Sameeullah Khan (Transport Officer)	Total = 1 (International Journal)	2019
	“An experimental study on performance investigation of solar dish stirling engine in Pakistan” International Journal of Innovative Science and Research Technology, Vol 04, No. 02, 2019		
7	Engr. Shafquat Hussain Solangi (Visiting Teacher)	Total = 5 (International Journal = 03, Conference = 02)	2019, 2021
	“Numerical investigation of thermohydraulic performance of triple concentric tube heat exchanger with longitudinal fins”, Journal of Mechanics of Continua and Mathematical Sciences, vol 16, no 08, aug 2021.		
	“Analysis of CO ₂ , CO, NO, NO ₂ & PM particulates of diesel engine exhaust” Engineering, Technology and Applied Science Research, 2019, vol 09, no. 6, 4912-4916		
	“Development of vinyl ester and read composite material with weight fraction of 10% and reinforcement at different orientation” Engineering, Technology and Applied Science Research, 2019, vol 09, no.03, 4306-4309		
	“Design and fabrication of automatic single axis solar tracker for solar panel” International conference on computing Mathematics & Engineering Technologies- iCoMET 2019 at Sukkur IBA University		
	“A CFD analysis of static mixer to study its impact on SCR performance on marine diesel engine” International conference on computing mathematics & engineering technologies- iCoMET 2019 at Sukkur IBA University		

WORKSHOPS AND SEMINARS:

A). Outcome Based Education (OBE) Awareness Workshop.

Resource Person: Engr. Abdul Qadir Channa, Lecturer

- For Faculty and Students (2021)

B). One Day Seminar on Modern Trends and Techniques in Fluids Mechanics.

Resource Person: Engr. Zeeshan Qadir Memon, Assistant Professor QUEST Campus Larkana

TRAININGS:

- Skills up-gradation for Teaching Staff through Workplace based Training delivery by GIZ at NED University Karachi (2021)
- Incubation Management through Modern Tools at DHA Suffa University Karachi (2021)
- Research Methodologies & Techniques for Development at AHKNCRD, Islamabad (2021)
- Introduction of GIS and Remote sensing with data processing techniques in GIS Software at

ESTABLISHMENT OF AMERICAN SOCIETY OF MECHANICAL ENGINEERS BBSUTSD CHAPTER

1. Established American Society of Mechanical Engineers (ASME) BBSUTSD, on 24-04-2021.
2. Signed MoU between ASME BBSUTSD Chapter and ASME QUEST Chapter.
3. Organized Seminar on Outcome Based Education (OBE) on 14-10-2021 from the platform of ASME, BBSUTSD (Resource Person: Engr. Abdul Qadir Channa).
4. Organized Seminar on Guide to Final Year Project (FYP) on 10-11-2021 from the platform of ASME BBSUTSD (Resource Person: Dr. Muhammad Hanif A K Khushik, Director ORIC).
5. Elected new body of ASME BBSUTSD Chapter for the year of 2022 on 20-11-2021.

DEPARTMENT OF ELECTRICAL ENGINEERING TECHNOLOGY



INTERNATIONAL AND NATIONAL PUBLICATIONS:

Author	Title of Paper	Journal/Conference Name	Publication Year
Engr. Safdar Ali Abro	Mini Rover-Object Detecting Ground Vehicle (UGV)	University of Sindh Journal of Information and Communication Technology (USJICT)	2019
Dr. Munsif Ali Jatoi	A Review Study of Technical Methods for Distributed Systems with Distributed Generations	International Conference on Computing, Mathematics and Engineering Technologies, IEEE-iCoMET 2019	2019
Dr. Munsif Ali Jatoi	Brain Mapping of Cortical Epileptogenic Zones and Their EEG Source Localization	International Conference on Computing, Mathematics and Engineering Technologies, IEEE-iCoMET 2019	2019
Dr. Ghulam Jawad Sirewal	Cost-Effective Single-Inverter-Controlled Brushless Technique for Wound Rotor Synchronous Machines	IEEE Access Journal	2020
Dr. Ghulam Jawad Sirewal	Simplified Brushless Wound Field Synchronous Machine Topology Based on a Three-Phase Rectifier	IEEE Access Journal	2021
Dr. Ghulam Jawad Sirewal	Novel Single Inverter-Controlled Brushless Wound Field Synchronous Machine Topology	MDPI Mathematics	2021
Dr. Ghulam Jawad Sirewal	Cost-Effective Scheme for a Brushless Wound Rotor Synchronous Machine	MDPI WEVJ	2021
Engr. Sayed Ali Shan	Optimization of renewable energy based microgrid for Mehran UET Jamshoro	International Conference on Applied and Practical Sciences ICAPS (2021)	2021
Engr. Sayed Ali Shan	An effective MPPT Controller for Power Optimization of PMSG based Wind Turbine	International Conference on Computing, Electronic & Electrical Engineering (ICE Cube).	2021
Engr. Muzamil Hussain Wadho	A comprehensive assessment of the wind power potential of Nokundi Balochistan and its integration with the local electrical grid	International Academic Conference on Energy Conservation, Environmental Protection and Energy Science	2021

Prof. Dr. Madad Ali Shah	Investigation of duct augmented system effect on the overall performance of straight blade Darrieus hydrokinetic turbine	Renewable Energy	2020
Prof. Dr. Madad Ali Shah	Estimation of Phase Angle Jump (PAJ) for Different Types of Faults and Unbalancing in Distribution System	International Journal of Engineering & Technology	2018

WORKSHOPS ARRANGED

Workshop was arranged on Repair and Maintenance of Pole-mounted Transformer at Shah Abdul Latif Engineering Works (Pvt.) Khairpur in February 2021.

TRAININGS:

- Certification Course in Teaching through English by SIBA University organized by HEC, (2019)
- National Certified Assessors training by TEVTA sector support program (2019)
- Training Course on Leadership and Management Skill for Development Practitioners at AHK NCRD, Islamabad (2021)
- Online training course on strengthening institutional capacity on vocational qualifications by Statistical Economic and Social Research and Training Center for Islamic countries (SESRIC), Qatar (2021)
- Skills up-gradation for Teaching Staff through Workplace based Training delivery by GIZ at NED University Karachi (2021)
- Incubation Management through Modern Tools at DHA Suffa University Karachi (2021)
- Research Methodologies & Techniques for Development at AHK NCRD, Islamabad (2021)
- Introduction of GIS and Remote sensing with data processing techniques in GIS Software at BBSUTSD (2021)

INDUSTRY ACADEMIA LINKAGE

- Industrial Advisory Committee (IAC) was formed with Faculty of Department of Electrical Engineering Technology and Industry in 2020
- First meeting of the IAC was held on 28th November 2020.

COURSE REVIEW OF BSc ELECTRICAL ENGINEERING TECHNOLOGY PROGRAM

- Meetings of Industrial Advisory Committee and Board of Studies were conducted to review the course of BSc program in 2020.
- The reviewed course was presented and was approved by Board of Faculty and Academic Council in 2021

DEPARTMENT OF ELECTRONICS ENGINEERING TECHNOLOGY



The Department of Electronics Engineering Technology has following dedicated laboratories:

1. Electronic Device and Circuit Laboratory
2. Instrumentation and Control Laboratory
3. Modeling and Simulation Laboratory
4. Project Development Laboratory

Achievements of Faculty

1. Scholarship won by Faculty for Higher Education. Engr. Ronak Ali Baladi – Assistant Professor has won **Full Bright Scholarship** to pursue PhD from Kentucky University, USA.
2. Trainings Imparted by Faculty of Electronics Engineering Technology

S. No	Training Title	Organizer	Conducted by	Time/Date	Participants
01	Awareness about OBE (Phase-I)	ORIC, BBSUTSD	Engr Kundan Kumar	5-7-2018	Faculty
02	Awareness about OBE (Phase-II)	ORIC, BBSUTSD	Engr Kundan Kumar	25-7-2018	Faculty
03	Traditional Education versus OBE	ORIC, BBSUTSD	Engr Kundan Kumar	28-10-2018	Students of 18-Batch
04	Students Perception on OBE	ORIC, BBSUTSD	Engr Kundan Kumar	15-11-2018	Students of 18-Batch
05	Assessment Mechanism Through OBE	ORIC, BBSUTSD	Engr Kundan Kumar	20-12-2018	Faculty Members
06	OBE and OBA	QEC, BBSUTSD	Engr Kundan Kumar	11-04-2019	Students of 19-Batch
07	Real time Interactive Simulation for Physics Learning	Electronics Engineering Technology	Engr. Arif	09/03/2021	Students of 18,19 and 20-Batch

3. Trainings participated

S. No	Name Faculty /Staff member	Training Title	Organizer	Conducted by	Time/Date	Venue
01	Engr. Ghalib Raza	Faculty development Program	SWEC, India	Dr. A. Gautami Latha	22-16.05.2021	Online
02	Engr. Ghalib Raza	Skill Up gradation of Teaching Staff	STETVA	NED Academy	04.11.2021 to 05.12.2021	NED UET, Karachi

4. Funding Secured or applied to strengthen laboratories

S. No	Funding Tittle	Funding agency	Amount	Status
1	Laboratory Strengthening Program	Sindh HEC, Government of Sindh	05.00 Million	Established Modeling & Simulation Lab Fully functional on 21.01.2022
2	Sindh Laboratory Strengthening Program for Public Sector Universities	Sindh HEC, Government of Sindh	05.00 Million	A proposal for up-gradation of Project Development Lab has been submitted on 25.11.2021 for further process.

A) Achievements of Students of ESET

1. IGNITE Funding for Final Year Projects:

All three Final Year Projects (FYPs) of students of Batch-18 are funded by National Grassroots ICT Research Initiative (NGIRI) 2020-2021.

S. No	FYP Code	University	Campus	Department	Project Title
1	NGIRI-2021-9607	Benazir Bhutto Shaheed University of Technology & Skill Development	Main	Electronics Engineering Technology	Solar powered intelligent composting machine for Agricultural waste.'
2	NGIRI-2021-10083	Benazir Bhutto Shaheed University of Technology & Skill Development	Main	Electronics Engineering Technology	Design a wireless controlled moveable robot to measure precautions of covid-19 with real time camera surveillance'
3	NGIRI-2021-10099	Benazir Bhutto Shaheed University of Technology & Skill Development	Main	Electronics Engineering Technology	Design a wireless controlled moveable robot to measure precautions of covid-19 with real time camera surveillance'

2. Industrial Visits

S. No.	Visit to	Place	Time/Date	Participants
1	Metro Wind Power Limited	Jhampir, Thatta	22/03/2021	Students of 18 and 19 batch
2	Pakistan Meteorological Department Camp office Karachi	Karachi	28/11/2021	Students of 19 and 20 batch

3. Industrial Supervisory Training

S. No.	Visit to	Place	Time/Date	Participants
1	Pakistan Meteorological Department Camp office Karachi	Karachi	15.02.2021	Students of 18 Batch

BASIC SCIENCES & RELATED STUDIES

Research Publications

- 1) IJCSNS International Journal of Computer Science and Network Security, VOL.18 No.9, September 2018
Computational and Analytical solution of Fractional order Linear Partial Differential equations using Sumudu Transform and its properties Kashif Ali Dharejo
- 2) Implementation of law of blasphemy in the period of Prophet, Jan-June 2019
Bilawal Hussain

International Journal on Emerging Technologies 11(5): 531-535(2020), Intelligent System for Classification of Residential Areas in Forest, Shagufta Naz

Trainings

Mr Kashif Ali Dharejo lecturer Mathematics, Ms Shagufta Naz lecturer Computer Science were part of training organized by HEC, at Institute of Business Administration, University (IBA) Sukkur on “Teaching Through English” during 28th Jan – 2nd Feb 2019

- Skill up-gradation of Teaching Staff Through Workplace-Based Training Delivery
- Workshop on Art of Writing Research Article



PERFORMANCE REPORT OF NON-TEACHING DEPARTMENTS

QUALITY ENHANCEMENT CELL

1-INTRODUCTION

Quality Enhancement Cell (QEC) was established on 5th April 2018. The purpose of QEC is to enhance the academic standards of the institute by assisting in designing market-oriented curriculum, providing quality education on modern teaching lines, and creating research-based congenial environment which could support faculty in strengthening their skills. The role of the QEC is to monitor and enhance existing academic processes and practices implemented within academic departments in compliance with quality assurance networks.

2-FUNCTIONS OF QEC

- Preparation of University Portfolio Report (UPR) on the basis of HEC criteria.
- Conducting Self-Institutional Performance Evaluation (Self-IPE) and action taken on Self IPE report.
- Coordination with QAA HEC for conducting of IPE.
- Facilitating departments in preparation of Self-Assessment Reports (SARs)
- Assessment of each program on the basis of written SARs by Assessment Team
- Evaluating faculty performance through “Online Teacher/Course Evaluation”
- Organizing training sessions/workshops for faculty and support staff from time to time.
- Assisting different departments in accreditation processes, both nationally and internationally.
- Conducting faculty satisfaction survey with institutional facilities
- Conducting students’ satisfaction survey with institutional facilities
- Conducting Alumni and Employer Survey to assess overall academic standards.

3- ACHIEVEMENTS OF QEC

- Evaluation of Teaching Quality assessed through manual process since establishment of QEC from 2018.
- Yearly Performance Report (YPR) 2017-18 has been prepared and submitted to QAA HEC.
- Yearly Performance Report (YPR) 2018-19 has been prepared and submitted to QAA HEC.
- Higher Education Statistics 2018-19 Proforma (P-I and P-II) has been prepared and submitted to Higher Education Data Repository (HEDR).
- Higher Education Statistics 2019-20 Proforma (P-I and P-II) has been prepared and submitted to Higher Education Data Repository (HEDR).
- Evaluation of Teaching Quality Assessed Online established in October 2020 and the process continued for Quality of Teaching up-to-date.
- Self-Assessment Report of each program prepared and Evaluated for each program.
- University Portfolio Report (UPR) has been prepared and submitted to QAA HEC along with (YPR) 2019-20 & 2020-21.
- Yearly Performance Report (YPR) 2019-20 & 2020-21 has been prepared and submitted to QAA HEC.
- Self-Institutional Performance Evaluation (Self IPE) conducted on 29th June 2021.
- Online Canteen Survey conducted for improvement of canteen service.

- University Vision, Mission, PEOs and PLOs boards has been prepared and displayed publically in each BSc Engineering Departments.
- Health Safety Equipment has been purchased and distributed/fixed into laboratories.
- Higher Education Statistics 2020-21 Proforma (P-I and P-II) has been prepared and submitted to Higher Education Data Repository (HEDR).
- Tentative QEC Activity Calendar (2021-22) BBSUTSD Khairpur Mirs has been prepared.
- Safety Rules and Safety signs has been purchased and displayed in the laboratories for protection of entities in the working environment.

4-SEMINARS, WORKSHOPS AND TRAININGS CONDUCTED BY QEC

S. N	Title of Seminar	Name of Resource Person	Designation	Date of seminar
1	OBE awareness for Implementation and designing of final Examination paper of BSc Engineering Technologies	Engr. Kundan Kumar	Assistant Professor (Electronics)	5/7/2018
2	OBE based workshop	Engr. Kundan Kumar	Assistant Professor (Electronics)	21/7/2018
3	Key Language Skills for Enhanced Student Performance	Mr. Muhammad Fazzul Ali Bozdar	Jr. Instructor	28/3/2019
4	Course in Teaching through English	Ms. Shagufta Naz	Lecturer (BSRS)	8/4/2019
5	Course in Teaching through English	Engr. Sameeullah Khan	Lecturer (MET)	8/4/2019
6	Outcome Based Education (OBE) & Outcome Based Assessment (OBA)	Engr. Kundan Kumar	Assistant Professor (Electronics)	11/4/2019
7	Outcome Based Education (OBE) & Outcome Based Assessment (OBA)	Engr. Kundan Kumar	Assistant Professor (Electronics)	14/5/2019
8	Outcome Based Education (OBE) & Outcome Based Assessment (OBA)	Engr. Kundan Kumar	Assistant Professor (Electronics)	14/11/2019
9	Occupation Health Safety and Disaster Management	Engr. Abdul Shakoor Sheikh	Assistant Professor (MET)	04/01/2020, 06/01/2020, 08/01/2020 10/01/2020
10	How to teach online	Engr. Izhar Ali Memon	Lecturer- Electronics	6/5/2020
11	Outcome Based Education (OBE) & Outcome Based Assessment (OBA)	Engr. Abdul Qadir Channa	Lecturer (MET)	11/11/2020
12	Workshop on OBE& A System for Engineering Technology Programs	Dr. Awais Khatri	Associate Professor MUET Jamshoro	9/04/2021 and 10/04/2021
13	Outcome Based Education & Assessment (OBE&A)	Dr. Aftab Ahmed Soomro	Associate Professor (MET)	03/09/2021
14	Virtual Open Day 2021/2022 from UTP Malaysia	Engr. Ghulam-e-Mustafa	UTP Malaysia	07/12/2021

12-QEC ACTIVITY CALENDAR (2021-2022)

QEC Activity Calender (2021-22)		
Month	Task	Day & Date
July	Sharing of Teacher/Course Evaluation Results Batch-18 (5th Semester) of all Departments	1st July 2021
	Online Teacher/Course Evaluation by Students (Batch-F-20) Mechanical & Electrical Technology	7th July, 2021
	Online Teacher/Course Evaluation by Students (F-20) Civil & Electronics Technology	14 & 15 July, 2021
August	Prepare SOPs for QEC Processes	5th Aug, 2021
	Submission of YPR (2020-21)	10th Aug, 2021
	Compilation of Evaluation Results - Batch-18 (6th Semester) of all Departments	25th Aug, 2021
September	Compilation of Evaluation Results - Batch-19 (4th Semester) of all Departments	1st Sep, 2021
	Compilation of Evaluation Results - Batch-20 (2nd Semester) of all Departments	10th Sep, 2021
	Sharing of Teacher/Course Evaluation Results Batch-19 (4th Semester) of all Departments	20th Sep, 2021
	Working on installation of the Health and Safety equipment for the BBSUTSD Khairpur Mir's	15th Sept, 2021
	Sharing of Teacher/Course Evaluation Results Batch-20 (2nd Semester) of all Departments	21st Sep, 2021
October	Compilation of Evaluation Results - Batch-F20 (1st Semester) of all Departments	1st Oct, 2021
	Sharing of Teacher/Course Evaluation Results Batch-F20 (1st Semester) of all Departments	11th Oct, 2021
	Planning of Teacher/Course Evaluation of all Batches	20th Oct, 2021
	Compilation of Evaluation Results - Batch-19 (5th Semester) of all Departments	22th Oct, 2021
	Compilation of Evaluation Results - Batch-20 (3rd Semester) of all Departments	26th Oct, 2021
	Sharing of Teacher/Course Evaluation Results Batch-18 (6th Semester) of all Departments	29th Oct, 2021
November	Online Teacher/Course Evaluation by Students Batch-18 (7th Semester)	1st Nov, 2021
	Meeting with AMANTECH of the hiring of consultancy services for Development of strategy and plan for BBSUTSD Khairpure Mir's.	2nd & 3rd, Nov 2021
	Online Teacher/Course Evaluation by Students Batch-F-20 (2nd Semester)	4th Nov, 2021
	Graduating Survey (ONLINE)	10th Nov, 2021
	Working for the Installation of PEOs & PLOs Boards for all departments	15th Nov, 2021
	Sharing of Teacher/Course Evaluation Results Batch-19 (5th Semester) of all Departments	25th Nov, 2021
	Sharing of Teacher/Course Evaluation Results Batch-20 (3rd Semester) of all Departments	30th Nov, 2021

QEC Activity Calender (2021-22)		
Month	Task	Day & Date
December	Online Teacher/Course Evaluation by Students Batch-19 (6th Semester)	1st Dec, 2021
	Online Teacher/Course Evaluation by Students Batch-20 (4th Semester)	6th Dec, 2021
	Faculty Course Review Report (2021)	15th Dec, 2021
	Action taken report against S-IPE for 2020-21	25th Dec, 2021
	Review of SAR of all depts	Last week of Dec, 2021
January	Compilation of Evaluation Results - Batch-18 (7th Semester) of all Departments	5th Jan, 2022
	Compilation of Evaluation Results - Batch-F-20 (2nd Semester) of all Departments	15th Jan, 2022
	QEC Awareness Session 1	3rd Week of Jan, 2022
	Sharing of Teacher/Course Evaluation Results Batch-18 (7th Semester) of all Departments	20th Jan, 2022
	Sharing of Teacher/Course Evaluation Results Batch-F-20 (2nd Semester) of all Departments	26th Jan, 2022
	Compilation of Faculty Course Review Report (2021)	28th Jan, 2022
February	Faculty Satisfaction Survey	2th Feb, 2022
	Compilation of Evaluation Results - Batch-19 (6th Semester) of all Departments	10th Feb, 2022
	Compilation of Evaluation Results - Batch-20 (4th Semester) of all Departments	15th Feb, 2022
	Compilation of Graduating Survey Data	25th Feb, 2022
March	Sharing of Teacher/Course Evaluation Results Batch-19 (6th Semester) of all Departments	5th Mar, 2022
	Sharing of Teacher/Course Evaluation Results Batch-20 (4th Semester) of all Departments	10th Mar, 2022
	Online Teacher/Course Evaluation by Students Batch-21 (1st Semester)	15th Mar, 2022
	QEC Awareness Session 2	3rd Week of Mar, 2022
April	Online Teacher/Course Evaluation by Students Batch-18 (8th Semester)	1st April, 2022
	Online Teacher/Course Evaluation by Students Batch-19 (7th Semester)	5th April, 2022
	Online Teacher/Course Evaluation by Students Batch-20 (5th Semester)	11th April, 2022
	Online Teacher/Course Evaluation by Students Batch-F20 (3rd Semester)	15th April, 2022

INTRODUCTION

Office of Research, Innovation & Commercialization ORIC was established in May 2018. Since its inception, ORIC has been pursuing and promoting Research, Innovation & Commercialization activities through Continuous Professional Development (CPD) programs.

Mission Statement of ORIC

“To provide strategic and operational support to research, innovation, and commercialization activities and programs of university, by facilitating research community for research capacity building and productivity, innovation to commercialization, industry-academia linkages, technology transfer, and intellectual property management.”

Aim and Objectives of ORIC

- Build research capacity of researchers and faculty.
- Establish, maintain, and promote research activities and programs.
- Enable congenial and conducive environment for research.
- Promote research publications and products.
- Identify potential sources for research funding.
- Enhance innovation in addressing the problems faced by industry and society at large.
- Cultivate the culture of commercialization.
- Develop industry-academia linkages for RIC activities.
- Extend and energize entrepreneurial initiatives.
- Enable technology transfer programs.
- Manage intellectual property rights.

ORIC Initiatives

Research Policy of ORIC

- Reward policy for publications in Journal of good repute (ISI indexed in Web of Sciences, ISI Impact Factor, Scopus, and HEC indexed journals)
- Conference, Workshops, Symposiums, and Seminars Travel grants policy for researchers to present their empirical research work in national and international conferences, workshops, symposiums and seminars
- Profit sharing policy from the commercial projects/research activities
- Promotion of Research Culture at BBSUTSD through research clusters and consortiums

Continuous Professional Development Activities for Faculty and Students

CPD Activity	Prospect Participants	Objective	Schedule
Outcome Based Education (OBE) System Awareness Seminar	Faculty and Students	To raise awareness on OBE System	March 11, 2021
Geographical Information System (GIS) & Remote Sensing with Data Processing Techniques in GIS Software – Trainer Dr. M. Sohail Memon, SAU, Tandojam	Faculty	To introduce GIS software for remote sensing and GIS data processing	March 24 – 25, 2021
Art of Writing Research Article	Faculty, Staff, and Students	Research Writing Improvement	July 06, 2021
Guide to Final Year Projects	Students	Guideline for students on selection of suitable FYP	November 10, 2021
Nanotechnology and its Applications – Trainer Dr. Syed Ahmed Ali Shah, Sukkur IBA University	Faculty and Students	Introduce the Nanotechnology and its applications	November 11, 2021
Indexing & Selection of Research Journals for Publications – Trainer Dr. Mazhar Hussain Baloch, MUET SZAB Campus, Khairpur	Faculty and Staff	Selection of suitable research journal for publications	December 1, 2021

RESEARCH PROGRESS

Research Publications in Impact Factor Journals Indexed in Journal Citation Report (JCR) in ISI Web of Sciences (WoS)

S#	Department	Author(s) from BBSUTSD	Title	Journal	Impact Factor
1	Electrical Engineering Technology	Dr. Ghulam Jawad Sirewal	A New Small-Scale Self-Excited Wound Rotor Synchronous Motor Topology	IEEE Transactions on Magnetics	1.7
2	Electrical Engineering Technology	Dr. Ghulam Jawad Sirewal	Utilization of reluctance torque for improvement of the starting and average torques of a brushless wound field synchronous machine	Electrical Engineering	1.836
3	Electrical Engineering Technology	Dr. Munsif Ali Jatoi	Comparison of Machine Learning Techniques Based Brain Source Localization Using EEG Signals	Current Medical Imaging	0.858
4	Electronics Engineering Technology	Muhammad Saleem	Robust L Approximation of an LCL Filter Type Grid-Connected Inverter Using Active Disturbance Rejection Control under Grid Impedance Uncertainty	Energies	3.004

Research Publications in HEC National Recognized Journals in HJRS

S#	Department	Author(s) from BBSUTSD	Title	Journal	HEC HJRS Category
1	Basic Sciences & Related Studies	Bilawal Hussain	Equivalence, permissibility and leniency with non-Muslims on socio- economic interactions a point view of Hanafi Jurisprudence	Rahat-Ul-Quloob	Y

Research Publications in other International/National Research Journals

S#	Department	Author(s) from BBSUTSD	Title	Journal	Indexing
1	Electrical Engineering Technology	Dr. Ghulam Jawad Sirewal	Cost-Effective Scheme for a Brushless Wound Rotor Synchronous Machine	World Electric Vehicle Journal	Scopus
2	Mechanical Engineering Technology	Uhamir Patrick	Identification of Suitable Baffle Configuration for Better Performance Output of a Laboratory Shell and Tube Heat Exchanger Using Computer Aided Modeling and Simulation Analyses	International Journal of Innovative Science and Research Technology	Google Scholar
3	Mechanical Engineering Technology	Shafqat Hussain	NUMERICAL INVESTIGATION OF THERMOHYDRAULIC PERFORMANCE OF TRIPLE CONCENTRIC-TUBE HEAT EXCHANGER WITH LONGITUDINAL FINS	JOURNAL OF MECHANICS OF CONTINUA AND MATHEMATICAL SCIENCES	CrossRef

Research Publications in International/National Research Conferences

S#	Department	Author(s) from BBSUTSD	Title	Conference	Venue & Schedule
1	Mechanical & Civil Engineering Technology	Shafeeque ur Rehman, Shakoor Ahmed, Shamotra Oad	A NEW HITCH BY SURGICAL MASKS ON ENVIRONMENT DUE TO COVID-19	International Conference on Energy, Water and Environment – ICEWE-2021	UET, Lahore, Pakistan, March 31, 2021
2	Mechanical & Civil Engineering Technology	Shafeeque ur Rehman, Shamotra Oad, Shakoor Ahmed	ENVIRONMENTAL POLLUTION FROM WASTE BURNING AT LOW TEMPERATURE AND ITS IMPACTS ON AIR QUALITY	International Conference on Energy, Water and Environment – ICEWE-2021	UET, Lahore, Pakistan, March 31, 2021
3	Electrical Engineering Technology	Syed Ali Shan	Optimization of renewable energy based microgrid for Mehran UET Jamshoro	International Conference on Applied and Practical Sciences ICAPS (2021)	February 18- 19, 2021

FINANCE DIRECTORATE

S.No	Description	2019-20	2020-21
1.	Successfully shifted from single entry accounting system in to double entry accounting system		January 01, 2021
2.	Received Sindh HEC grant for establishing Smart class room	5.00 M	5.00 M
3.	Audit of Financial Statements of the University from External Audit firm of M/S Moore Seekha Mufti		FY 2016-17 to 2020-21
4.	Received Special grant for COVID-19 Initiative account from Higher Education commission, Islamabad	100.00 M	
5.	As per recommendation of 6th and 7th FPC the University has invested in pension fund		25.00 M
6.	Received Special fund for improving Financial Autonomy and Governance using latest technology from Higher Education commission, Islamabad		37.114 M
7	Financial Statues has been drafted which has been recommended by Finance & Planning Committee & Syndicate to the Senate for approval.		

STORE & PURCHASE OFFICE

S.No	Name Of Tender	Description	Status	Remarks
1	Procurement of Stationery	Tender reference : NO.BBSUTSD/NIT/137,Dated:06-05-2021	Completed	
2	Procurement of Printing	NO.BBSUTSD/NIT/137,Dated:06-05-2021	Completed	
3	Procurement of General & Sanitation	NO.BBSUTSD/NIT/137,Dated:06-05-2021	Completed	
4	Procurement of Computer IT Items & 10 KVA UPS/Solar power system	Procurement Committee of The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs has under tilted Procurement of Computers, IT Items & 10KVA UPS/Solar Power System dated 13.02.2021.	Completed	
5	Procurement of I.D Card Printers	NO: BBSUTSD/NIT/103, DATE: 12/04/2021	Completed	
6	Procurement of I.T Equipment	NO. BBSUTSD/NIT/113, Dated: 23/04 /2021	Completed	
7	Supply of Lab Equipment	NO.BBSUTSD/PPS/2020/51, Dated:01-12-2020	In Process	In Progress
8	Supply of Computers	NO.BBSUTSD/PPS/2020/51, Dated:01-12-2020	Completed	
9	Procurement of IT Equipment/Smart Class Room Solution	NO.BBSUTSD/NIT/140, Dated:19-05-2021	In Process	Work in progress
10	Procurement of I.T/ Wireless Network equipment	No./BBSUTSD/MIS/24 Dated: 24-11-2020	In Process	Work in progress

Facilities provided

- Store & purchase section purchase furniture and fixture, electrical items, printing, stationery, general & sanitation items for the all departments/sectional of the university.
- Main store of the university deals in repair & maintenance of Furniture & Fixture, Electrical & others items.
- Provide required items/ services on urgent basis according to their requirement.
- Main store of the university provide Quarterly required items/services to different department/sections of the university.
- Store & Purchase section provide face mask, Hand sanitizer to all sections/department of the university to remain safe from COVID-19 because care is better than cure.
- Hire private external audit firm for internal audit of the university.
- Documentation working is under process for RO Water Plant for university to eliminate deficiency of pure & clean water.

PROJECT DIRECTORATE

The activities and performance of the Project Directorate during the year 2020-21 is as under:

A) On-Going Projects

1. Up-Gradation of Govt. College of Technology (GCT) Khairpur into the Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs

PC-I was approved on 04-12-2017 by CDWP with cost sharing:

i.	Federal Govt. PSDP (HEC)	Rs. 1017.733 million (53%)
ii.	Sindh Govt. ADP	Rs. 891.887 million (47%)
	Total Cost	Rs.1909.620 million

B) Project Proposals submitted for inclusion in PSDP/ADP

S. No.	Name of Project/Scheme	Estimated Cost (Rs. M)	Status
1.	Construction of Critically Needed Facilities i.e. 200 Boys Hostel, 100 Girls Hostel, Vice Chancellor's House and Guest House	656.340	Submitted to the HEC Islamabad / Govt. of Sindh for inclusion in PSDP /ADP of upcoming Financial Year.
2	Establishment of Solar Energy System	845.494	Submitted to the HEC Islamabad / Govt. of Sindh for inclusion in PSDP /ADP of upcoming Financial Year.
3	Construction of missing facilities i.e Students Service Centre, Indoor Sports Facilities and Post Graduate Study & Research Centre	1950.00	Submitted to the HEC Islamabad / Govt. of Sindh for inclusion in PSDP /ADP of upcoming Financial Year.

C) Works carried out from University resources

S. No.	Name of Scheme	Cost (Rs. M)	Status
1.	Construction of Boundary Wall at newly purchased land	7.154	Work in progress.
2.	Parking Shades for Vehicles	13.869	Work in progress.
3.	Repair of power lab of electrical department	0.291	Work completed.
4.	Repair of lavatory block and installation of fresh water line at boys hostel	0.287	Work completed.
5.	Construction of temporary water reservoir at tube well site	0.099	Work completed.
6.	Merging of electricity i.e. 03 Nos. University connections from different feeders into single 11KV dedicated feeder (Express Feeder)	15.858	Work in progress.
7.	Shifting/re-location of the HT line of 11KV crossing over the buildings under construction at the newly purchased land	0.600	Work completed.



HEC Accreditation visit team at construction site

ESTATE MANAGEMENT SECTION FOR THE YEAR 2019, 2020 & 2021

The Estate Management Section of the University is responsible for managing, maintaining and ensuring effective security measures to provide safe & secure environment to the University Employees, Students, Visitors and Staff of Residential Colony 24/7 within the available facilities.

The activities and performance of the Estate Management Section during the year 2019, 2020 and 2021 are briefly described as under:-

Security Section:

1. Security Section of the University is vigilant to ensure proper control of the security measures and maintain proper record of entrants / visitors in the University with a view to avoid any breach of security and to make sure smooth functioning of all associate sections. The duty schedule of security staff in all shifts is prepared and displayed. Further outsourced security services provider deputed in University is being strictly maintained.
2. Took efforts for establishment of Police Picket with District Police Officer at the University premises.
3. Coordinates with other security Govt. departments from time to time to ensure security measures more strengthened in the campus.
4. Security Section of the University is striving hard for rendering services, assisting and coordinating with all the sections of the University related to security matters to ensure safe and secure environment from time to time.
5. The Competent Authority has assigned duties regarding Security Arrangement during the Construction of boundary wall of new acquired land 28 acres additional land for the University.
6. Performing other special duties i.e. protocol duties during statutory bodies meeting etc.
7. Security arrangements for conducting Pre- Admission Tests of B.Sc in Engineering Technology and Diploma of Associate Engineer (D.A.E) for the Academic Sessions etc.
8. Ensure to comply in time, the authority's notifications & circulars issued pertaining to the security management.

Estate Office/Section:

The Estate office of the University is primarily concerned with the provision of accommodation to their employees and is responsible to process allotment cases of employees as per their entitlement before the allotment committee constituted by the authority and recommendations of the allotment committee submitted to authority for final decision.

1. Utilities liabilities reports of defaulters submitted to the authority and finance section of the University for necessary action.
2. The income generated from the estate office in the form of room rent and house rent deduction from the residents of teachers' hostel, girls' hostel and employees residing in bungalows and quarters, the details of same may be requested to obtain from the finance section of the University.
3. Prepared and also submitted following Draft Rule as per Section 32 (2) of the University Act 2016 vide letter No.BBSUTSD/ECS/KHP/90 dated: 18-02-2021.
(A) Employees Residence Rules, 2021





The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs Celebrated Tree Plantation Day. On This Occasion Engr. Prof. Dr Madad Ali Shah Vice Chancellor BBSUTSD Khairpur Mirs, Prof. Dr Mir Muhammad Shah Vice Chancellor Sukkur IBA University, Prof. Dr. Khalil Ahmed Ibupoto Vice Chancellor Shah Abdul Latif University Khairpur Mirs , Prof. Dr Shah Muhammad Luhrani, Dr Muhammad Ibrahim Keerio Principal Khairpur Agriculture College of Engineering & Technology, Zubair Ahmed Anwar Principal IBA Community College Khairpur, Dr. Mazhar Hussain Baloch, Prof: Dr Minhooon Khan Laghari, Touheed Ghani Manager WWF Sukkur Region, Ziyadullah Laghari Divisional Forest Officer Govt of Sindh, Mir Sajjad Hussain Talpur, Prof: Dr. Hussain Bux Mari, Saima Gul, Shafique Rehman Laghari, Syed Waheed Ali Shah, Nosheen Memon & Sehrish Bhatti are addressing the event. On This occasion Worthy Vice Chancellors & Honourable Guests Planted Trees at BBSUTSD Khairpur Mirs.

Friday March 19th, 2021



Vice Chancellor The Benazir Bhutto Shaheed University of Technology and Skill Development Khairpur Mirs Engineer Prof. Dr Madad Ali Shah & Divisional Forest Officer Social Forestry Division Khairpur Mirs Hosh Muhammad Shar Signed MoU to plant 10 Thousand Plants at BBSUTSD Khairpur Mirs, Under Ten Billion Tree Tsunami Project (TBTP).

Saturday March 27th, 2021

DIRECTORATE OF ADMISSIONS

Admissions in the 04 year BSc Engineering Technology are announced on the basis of Intermediate (Pre Engineering) and Diploma of Associate Engineering.

RULES & REGULATIONS

- i. For admission to BSc Engineering Technology, the candidates must fulfill the one of the following requirement with minimum 50% Marks:
- ii. Three year Diploma of Associate Engineer in the relevant field from Sindh Board of Technical Education, Karachi / other Technical Boards
- iii. H.S.C. (Pre-Eng.) or equivalent from the Boards of Intermediate Education.
- iv. The candidate has to appear in Pre – Admission Test Conducted by the University

Category-wise Distribution of Seats in Each Engineering Technology

S.#	CATEGORY / REGION	CET	EET	ESET	MET
1	D.A.E Open Merit (Sindh Province)	20	20	20	20
2	HSC Open Merit (Sindh Province)	20	20	20	20
3	Female Candidates (HSC/D.A.E)	5	5	5	5
4	Real sons/ daughters / (brothers /sisters) of BBSUTSD KHP employees.	1	1	1	1
5	Armed Forces	1	1	--	--
6	Punjab	--	1	--	1
7	KPK/FATA	--	--	1	1
8	Balochistan	1	--	1	--
9	Gilgit Baltistan	1	--	1	--
10	Azad Jammu Kashmir (AJK)	--	1	--	1

Merit Criteria for Admission to BSc Engineering Technology Degree Programme

Admission is based on the marks secured in Pre-Admission Test and percentage (%) of marks in Matric/DAE / HSC.

<i>Percentage of Marks in</i>	<i>Multiplying Weightage</i>
Matric	0.20
Diploma of Associate Engineer / HSC (Pre-Engineering /CIT)	0.30
Pre-admission Entry Test	0.50

OFFICE OF CONTROLLER EXAMINATIONS

Office of Controller Examinations ensure timely conduct of exams of BSc Engineering Technology programs and preparation of certificates

Yearly Academic Program

Academic Program	Duration
Teaching duration of 1 st Semester	16 Weeks
Conduct of Mid Semester Examination	01 Week
Preparation and Conduct of Final 1 st Semester Exam	05 Weeks
Summer Break	06 Weeks
Teaching duration of 2 nd Semester	16 Weeks
Conduct of Mid Semester Examination	01 Week
Preparation and Conduct of Final 2 nd Semester Exam	05 Weeks
Winter break	02 Weeks
Total	52 Weeks

Note:

1. Minimum number of contact hours for a theory subject of 3 CHs per semester is 42
2. Minimum number of contact hours for a practical of 1 CH per semester is 42.

The Minimum Requirement for Each Semester Course:

Assignments, Tests (minimum two), Mid Semester Examination & Final Semester Examination.

The Schedule of Tests, Mid Semester and Final Semester Examination shall be as under:

#	Activity	Period
1	Mid Semester Examination	After 8. Weeks
2	Final Semester	After 16. Weeks

Distribution of Marks.

Theory

#	Activity	Maximum 100 Marks	Maximum 50 Marks
1	Sessional (Assignments/Quiz/Presentation)	30	15
2	Mid Semester Exam:	20	10
3	Final Semester Exam:	50	25
	Total	100 marks	50 marks

Practical

#	Activity	Maximum 100 Marks	Maximum 50 Marks
1	Sessional (Lab Performance/Practical general/skill competition)	30	15
2	Mid Semester Exam:	20	10
3	Final Semester Exam:	50	25
	Total	100 marks	50 marks

Grading policy for Batch 20 and onwards:

GRADE	GRADE POINT	THEORY.		PRACTICAL	
		Max Marks 100	Max Marks 50	Max Marks 100	Max Marks 50
A+	4.00	≥ 85	≥ 42	≥ 85	≥ 42
A	3.75	75 to 84	37 to 41	75 to 84	37 to 41
B+	3.50	66 to 74	35 to 36	66 to 74	35 to 36
B	3.00	60 to 65	30 to 32	60 to 65	30 to 32
C+	2.50	55 to 59	27 to 29	55 to 59	27 to 29
C	2.00	50 to 54	25 to 26	50 to 54	25 to 26
F	FAIL	0 to 49	0 to 24	0 to 49	0 to 24

- Fraction No(s) will be rounded off to the nearest whole No(s) Where $5.4=5$, $5.5=6$, $5.9=6$
- Subject carrying more than 100 marks in theory/Practical will be awarded grades accordingly.
- The results will be prepared on the basis of Grade point Average (G.P.A)



BBSUTSD KHAIRPUR MIRS NEWS: Lecture on "Importance of Registration of Vote" held at Auditorium, The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs. On this occasion District Election Commissioner Zaheer Ahmed Sahito, Ghulam Abbas Junejo & Dr Aftab Soomro addressed the lecture.

IT / Network Infrastructure

- HEC funded PERN Fiber Link (64 Mbps Bandwidth), installed Optical Distribution Frame (ODF) at IT Room. Testing of PERN Link and Router is under progress.
- IT Projects details as under:
 - IT / Wireless Network Equipment
 - IT Equipment (LMS, VPN, 4G Devices)
 - Smart Class Room
- NIT for the Projects invited, procurement process completed, work under progress
- 90% passive work for IT/Wireless Network Equipment is completed (Installation, digging & civil work for laying & deployment of Fiber Cable is completed among all departments/buildings, raise flooring, 42 U Racks, 06 U Racks, Data points, Wi-Fi Aps points, I/O Face plates, Power DB, ATS, UPS & ODF installed at all the buildings).
- Active Equipment (i.e. Firewall, Core Switch, L2 Switches, Server Machines, AP's etc) to be imported through LC from the principle is under progress. Tentative delivery date is end of February, 2022.
- SSL **VPN and LMS** software's are ready to be installed, would be installed in the end of February, 2022, after delivery of active equipment.
- Broadband **4G Device** successfully distributed among all the regular faculty members, selected students receiving financial assistance & Officials. Zoom licenses for online meetings were purchased & distributed.
- Work for **Smart Class Room** is under progress. Wall paneling, civil work, wooden work, Electric work, fall ceiling and AC's successfully done. Conducting, Back Box, Cat 6 cable, Power cable successfully installed. Remaining work like Auto tracking Cameras, LEDs, Sound, speakers, mikes systems & Podium installation are under progress.
- Attendance Records of **BSc Programs** is centralized / computerized at MIS Section w.e.f: 1st January, 2022 (current semester).
- HR Record Management system is developed and currently under testing phase.
- Director Sindh Innovation Research and Education Network (SIREN) acknowledged that they will establish remote site / video conference at this University in the second phase of this project.

IT Room & Smart Class Room Work in Progress



FACILITIES AVAILABLE AT BBSUTSD

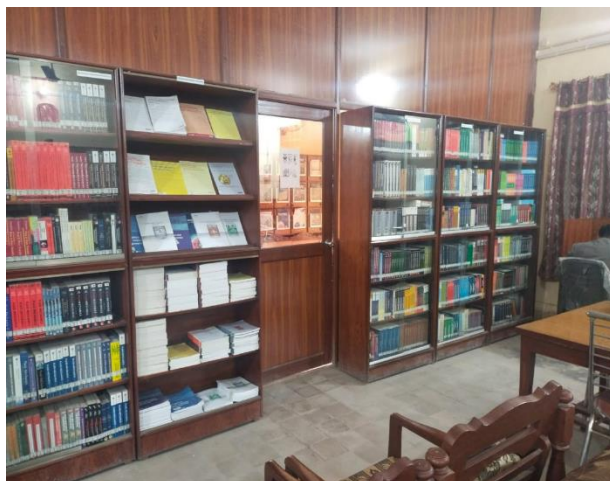
S. #	Name of Facility	Quantity
1.	Library	i. Books = 18624 ii. CDs and Animation = 200 iii. Internet facility
2.	Senate Hall	For 75 persons
3.	Transport	i. Students Busses = 07 ii. AC Coaster = 01 iii. Hiace Van = 02 iv. Ambulance = 01
4.	Stand-by Generator	02
5.	Student Hostel (Boys)	For 150 students
6.	Girls Hostel	01
7.	Staff Colony	11 Bungalows, 12 Quarters

LIBRARY:

Library started functioning in December 2017, with collection of. 18624. These books are related to Engineering, Science and Skill Development. Local periodicals and journals are also acquired for enhancing the knowledge of students in current affair and every day science and technology. 20 impact factor international journals are subscribed by the University. Library has the access to HEC Digital library. A separate section for faculty and final year students has been established as Research Library.

Online Catalogue

Library has been fully automated on an Open Source Library Software (KOHA software). Library collection has been uploaded in Library database which is accessible through its user Interface Open public access catalogue (OPAC).



BOYS HOSTEL



The University has one Boys hostel with capacity of 150 students & is availed by 104 students. There is standby Generator & Geyser installed at the hostel.

Hostel has a Canteen with spacious dining hall where meal is served at reasonable rate. The hostel has WIFI connectivity & a space for sports.

TRANSPORT



In year 2020 05 Buses, 01 Coaster, 01 Hi-ace, 01 Ambulance & 01 Pickup were purchased.

The University is providing pick & drop facility to students from far flung areas of District Khairpur, Sukkur & Naushahro Feroze

Students are provided transport for study visits and trainings at Industries in Karachi and Hyderabad.

SCHOLARSHIPS FOR STUDENTS

S.#	Name of Scholarship	No. of Awardees
1	Ehsaas Undergraduate Scholarship Program Phase-I (1st Installment)	70
	Ehsaas Undergraduate Scholarship Program Phase-I (2nd Installment)	
2	Ehsaas Undergraduate Scholarship Program Phase-II	59
3	HEC Need based scholarship	53
4	Khairpur Need cum Merit Scholarship	26
5	Punjab Educational Endowment Fund (PEEF)	1
6	Sindh HEC Scholarship	5
7	Sindh Educational Endowment Fund (SEEF)	10
		Total = 224



Meeting with HEC Accreditation visit team on 22.01.2022

ADMINISTRATIVE TRAININGS

University employees (Faculty, Officer and Staff) participated in various training programs organized by Higher Education Commission, Islamabad, Sindh Higher Education Commission, Akhtar Hameed Khan National Commission for Rural Development (NCRD), Pakistan Institute of Management, GIZ Pakistan, Sardar Yasin Malik Professional Development Center, University of Karachi and SPPRA.



HEC Regional Centre, Karachi



HEC Regional Centre, Karachi

Sindh HEC Training for Staff in IT Skills & Office Management at Sukkur IBA University



Sindh HEC Training for Staff in IT Skills & Office Management at Sukkur IBA University



One Day Workshop on Fund Raising Management at the University

EVENT & EXHIBITION PARTICIPATION BY STUDENTS

The students of Department of Electronics Engineering Technology secured 1st position in project exhibition organized by Hi-Tec University Taxila. The project was titled RC Plane, supervised by Engr Kundan Kumar, Assistant Professor, Student group lead was Mr. Nabi Bux. 524 teams of 45 universities of Pakistan participated in different categories of exhibition held on 14-15 December 2021.



Received award for securing 1st position Received honorarium from VC of Hi-Tec, Taxila



The students of Department of Electronics Engineering Technology participated in Plugin-21 project competition held in QUEST, Nawabshah on 8th November 2021. 11 mini projects and 04 mega projects of University participated and 04 projects won awards.

Students of Electronics Engineering Technology got 2nd position in project exhibition organized by Department of Electronic Engineering, MUET, Jamshoro on 8th December 2021.



ACHIEVEMENTS

Directorate of Planning and Development

The directorate of Planning and Development of the University is responsible to prepare future plans of developments i.e. preparation of projects, Concept papers, capacity building trainings of the faculty and other employees and also actively involved to prepare draft University Statutes, Regulations and Rules etc. This directorate is also monitoring development activities of the University. The year- wise details of the activities performed in this section are as under:

1- Progress Report for Year 2018-2019:

- (A) The Director (P&D) Section had prepared the University Annual Report for Financial Years 2016-17 & 2017-18 and submitted to the authority in 2019. The following draft Statutes of the University as per Section (31) of the University Act 2016 during financial year 2018-2019 had been prepared;
- i. Acquisition and Administration of Properties and Investments Statutes, 2019 (Draft)
 - ii. Annual Report Statutes, 2019 (Draft).
 - iii. Scales of Pay and other Terms and Conditions of Service of Officers, Teachers and Other Employees Statutes (Vide Section 31 (a) of the University Act 2016 (Draft)
 - iv. Conditions Appointment of Professors Emeritus Statutes, 2019 (Draft).
 - v. Financial Statutes 2019 (Draft)
 - vi. Election to Senate Statutes 2019 (Draft)
 - vii. Election to the Syndicate & other Authorities Statutes, 2019 (Draft)
 - viii. Employees Conduct Statutes, 2019.
 - ix. Efficiency and Discipline of the Employees of the University including Officers and Teachers Statutes 2019
 - x. Establishment of Faculties, Teaching Departments, Constituent Institutions, Constituent Colleges and Other Academic Divisions Statutes, 2019.
 - xi. Honorary Degrees Statutes, 2019
 - xii. Employees (Pension) Statutes, 2019 (Draft).
 - xiii. Powers and Duties of Officers, Teachers and other Employees."Statutes, 2019.
 - xiv. The affiliation and disaffiliation of Colleges / Educational Institutions and related matters with/to the University" Statutes, 2019.
 - xv. The Maintenance of the Register of Registered graduates Statutes, 2019.
- (B) In addition to that 15 Year Development Plan of the University had been prepared.
- (C) Monitoring of ongoing Development Schemes at the University.

2. Progress Report for the Year 2019-2020

(A) Prepared following draft Regulations as per Section (32) of the University Act 2016:

- (i) The University FEE AND OTHER CHARGES Regulations 2019 **(Draft)**
- (ii) the Conditions Under Which a Person May Carry On Independent Research to Entitle him / her to a Degree Regulations 2020 **(Draft)**
- (iii) Conduct and discipline of student” Regulations, 2020 **(Draft)**
- (iv) “Conduct of Examinations” Regulations, 2020. **(Draft)**
- (v) Use of Library Regulations 2020 **(Draft)**

(B) Prepared following draft Rules as per Section (33) of the University Act 2016:

- (i) Rules for the Use of Staff Cars 2019.**(Draft)**
- (ii) Rules for the grant of HOUSE BUILDING/ HOUSE PURCHASE and Conveyance Advances 2019 **(Draft)**
- (iii) Rules for the Conduct of Business of the Academic Council 2019 **(Draft)**
- (iv) ‘Rules of Business of the Syndicate’2019 **(Draft)**

(C) The Manner in which the Teaching referring in Section (8) of the University Act, 2016 shall be organized and conducted prepared in , 2019 **(Draft)**

(D) Following Scheme reviewed , checked and process to the authority ;

#	Name of Project/Scheme	Estimated Cost (Rs. M)	Status
1.	Construction of 200 Boys Hostel, 100 Girls Hostel, Vice Chancellor's House and Guest House.	656.340	Scheme submitted to the Secretary, U&B Department, GoS Karachi for inclusion in ADP of upcoming Financial Year.

(E) A Concept Paper of the Project titled “ESTABLISHMENT OF TECHNOLOGY PARK AT THE BENAZIR BHUTTO SHAHEED UNIVERSITY OF TECHNOLOGY AND SKILL DEVELOPMENT (BBSUTSD) KHAIRPUR MIRS, SINDH, PAKISTAN” amounting Rs. 389.393 Million was prepared and submitted to authority

(F) Participated PSDP project review meetings called by HEC-Islamabad and Planning Commission.

(G) Monitoring of ongoing Development Schemes in coordination with the Project Director at the University.

Progress Report For the Year 2020-2021

D) Project Proposals jointly prepared with Project Director, , reviewed , checked submitted to University Authority for approval and onward submitted to Sponsoring Agency through HEC-Islamabad and U&B Department , Government of Sindh for financing and inclusion in PSDP/ADP

S. No.	Name of Project/Scheme	Estimated Cost (Rs. M)	Status
1.	Construction of Critically Needed Facilities i.e. 200 Boys Hostel, 100 Girls Hostel, Vice Chancellor's House and Guest House	656.340	Submitted to the HEC Islamabad / Govt. of Sindh for inclusion in PSDP /ADP of upcoming Financial Year.
2	Establishment of Solar Energy System	845.494	Submitted to the HEC Islamabad / Govt. of Sindh for inclusion in PSDP /ADP of upcoming Financial Year.
3	Construction of missing facilities i.e Students Service Centre, Indoor Sports Facilities and Post Graduate Study & Research Centre	1950.00	Submitted to the HEC Islamabad / Govt. of Sindh for inclusion in PSDP /ADP of upcoming Financial Year.

(B) Attended PSDP project review meetings called by HEC-Islamabad and Planning Commission.

(C) Follow up of PSDP project work assigned to Consultant of the project.

(D) Monitoring of ongoing Development Schemes in coordination with the Project Director at the University.

Faculty of Skill Development

Annual Progress Report for the years 2019, 2020, 2021

Faculty of Skill Development, the Benazir Bhutto Shaheed University of Technology and Skill Development (BBSUTSD), Khairpur Mirs is offering 3 Year Diploma of Associate Engineer (DAE) program in 09 Technologies and also offers series of skill development programs with support of different national and international organization.

The modern teaching method is being adopted and also focused on the practical work. Students are assigned small projects as their mind can be set as an innovative thinking. Further inter batches project competitions are arranged for developing interest in technical and skill education among the students. Further workshops are arranged and guest speakers are invited from different industries to provide latest technology industrial knowledge to our students. The details of academic activities organized during this financial year, were as under:

- (i) Quizzes and presentation competitions
- (ii) Workshops
- (iii) Project competitions
- (iv) Study Tours

During following years, the details of enrollment in 3 Year DAE and Skill Courses along with passing out percentage is as under:

#	Year	Enrollment in DAE	Enrollment in Skill Courses	Total Enrollment
1	2018-2019	585	-----	585
2	2019-2020	479	365	844
3	2020-2021	451	125	576

- (a) Class/Lab Activities : Pictures at Annexure-II
- (b) Workshops : Pictures at Annexure-III
- (c) Field Visits/Study Tours : Pictures at Annexure-IV



Web Designing Workshop organized by Department of Computer Information Technology in 2019-2020



Class / Lab Activities



Study Tours / Field Visits

Transformer Maintenance Workshop



Kausar Gas Field (Matiari)



Khairpur Special Economic Zone



Khairpur Sugar Mill Khairpur Mirs



Gudu Power Plant Kashmore

Green Metric World University Rankings

Year	Province Ranking	Pakistan Ranking	Global Ranking
2018	09 th	22 nd	676 th
2019	07 th	18 th	599 th
2020	06 th	20 th	607 th
2021	06 th	20 th	510 th



KAMYAB JAWAN PROGRAM SPORTS DRIVE DECEMBER 06-09, 2021



HEC all Pakistan Universities Debating Championship 2021



MEMORANDUM OF UNDERSTANDING (MoUs)

- MoU signed with Federation of Pakistan Chamber of Commerce and Industry (FPCCI) for extended co-operation in market driven research.
- BBSHRRDB Training Project Phase-XII
- Training component under Prime Minister Skill for All “Hunarmand Pakistan Program Kamyab Jawan Initiative
- Lab Up gradation support for CBT&A Implementation by TVET SPP
- MoU signed with Forest Department Government of Sindh to plant 10,000 trees in the University under Ten Billion Tree Tsunami Project (TBTP)



The Benazir Bhutto Shaheed University of Technology and Skill Development Khairpur Mirs

About this report

This University report provides a glimpse of the activities undertaken by The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs.

Find out more about the activities of BBSUTSD at:

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