

Annual Quality Assurance Report

(AQAR) 2018-19



NAAC Track ID : MPUNGN10083

BARKATULLAH UNIVERSITY BHOPAL (M.P.)

www.bubhopal.ac.in

The Annual Quality Assurance Report (AQAR) of the IQAC

BARKATULLAH UNIVERSITY, BHOPAL

AQAR: 2018 - 2019

Part – A

Data of the Institution

1. Name of the Institution BARKATULLAH UNIVERSITY,
BHOPAL
- Name of the Head of the institution : Prof. R.J. Rao
 - Designation: Vice-chancellor
 - Does the institution function from own campus: Yes
 - Phone no./Alternate phone no.: 0755-2517001, 0755-2517002,
0755-2517011
 - Mobile no. : +919826255137
 - Registered Email : iqac.naac.bu@gmail.com
 - Alternate Email : rjrao09@gmail.com
 - Address : Barkatullah University,
Hoshangabad Road

 - City/Town : Bhopal
 - State/UT : Madhya Pradesh
 - Pin Code : 462026
2. Institutional status:
- University: State/Central/Deemed/Private: State University
(Tick appropriate)
 - Type of Institution: Co-education/Men/Women: Co-education
 - Location : Rural/Semi-urban/Urban: Urban
 - Financial Status:
Centrally funded/state funded/Private : State Funded
 - Name of the IQAC Co-ordinator/Director: Professor D.C.Gupta
 - Phone no. /Alternate phone no. : 0755-2517198
 - Mobile: +91 9425378171
 - IQAC e-mail address: iqac.naac.bu@gmail.com
 - Alternate Email address: dcggeology@gmail.com
3. Website address: www.bubhopal.ac.in
4. Whether Academic Calendar prepared during the year?: Yes
Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	B	73.15	2003	2008
2 nd	B	2.5	2015	2020

6. Date of Establishment of IQAC: 09.10.2018 (Reconstituted)

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
One day NAAC awareness workshop for University and Colleges	11.01.2019	250
Interactive Session with Prof V.S. Chauhan (Chairman)	25.02.2019	70
First Research Seminar	18-19 March, 2019	300
Mock Committee Visit to UTDs	20-23 April, 2019	150
One day NAAC awareness workshop on Revised Accreditation Framework of NAAC (State Level)	27.05.2019	50
One day Workshop on Capacity Building for Promoting values and Ethics in higher education	31.05.2019	75
One day seminar on intellectual property Rights in Research and Technology	01.06.2019	75
One Day workshop on Role of University Stakeholder towards creating Quality in Academic and Administration in Barkatullah University	08.06.2019	150
One day Workshop on implementation of CBCS in UTD Course	25.06.2019	70

Quality Assurance initiatives are:

Regular meeting of Internal Quality Assurance Cell (IQAC);
timely submission of Annual Quality Assurance Report (AQAR) to NAAC;
Feedback from all stakeholders collected, analysed and used for improvements
Academic Administrative Audit (AAA) conducted and its follow up action

ISO Certification/ Efforts have been made for processing , Total Quality Management (TQM) in the University

8. Provide the list of Special Status conferred by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Physics	FIST	DST	2018-23 (5 years)	15100000.00
Physics	SAP/DSA	UGC	2018-23 (5 years)	7000000.00
Sociology	Rajeev Gandhi Chair	UGC	2006 (contd. Till March 2019)	29459921.00

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes

*upload latest notification of formation of IQAC : **Notification**

10. No. of IQAC meetings held during the year:

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website..... Yes/No

(Please upload, minutes of meetings and action taken report)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? Yes No

If yes, mention the amount: Year: 2018 –19

1. Received Rs. 5 lakhs under 12th plan of UGC
2. Received Rs. 2 lakhs from NAAC to organize workshops
3. Received Rs. 50 lakhs under University Budget 2018-19

12. Significant contributions made by IQAC during the current year (maximum five bullets)

1. At BU Bhopal, We have started documentation of various activities and Programs which are helpful in improvement of quality.
2. Under the umbrella of IQAC, we have organised several institutional workshops, events and initiative with the focal themes of quality improvements.
3. Online feedback forms have been developed to get feedback from stakeholders and action is being taken according to feedback.
4. Various policies have been formulated to improved quality in academic, research and administrative areas.
5. Established data centre housed in Central library Building for retrieval and better dissemination of information.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards

Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Development of Quality in the Institution	HODs are instructed to enhance Academic, Research and Co-curricular activities with department and submit the report to IQAC
All UTD department to develop their own Quality Assurance Cell maintaining the Data	In Progress
Established Academic Audit Cell for UTDs and Affiliated colleges	In Progress
Promotion of Research through Institutional Funding	Research projects and Fellowships have been given to faculty member and Students

14. Whether the AQAR was placed before statutory body? Yes /No: Yes

Name of the statutory body: **Executive Council** Date of meeting(s): **29-06-2019**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?

Yes/No: Yes

Date:

1. Dr. Mohit Tiwari – Asst. Adviser, NAAC, Banglore (**11-01-2019**)
2. Dr. DK Kambale – Asst. Adviser, NAAC, Banglore (**11-01-2019**)
3. Prof. M.M. Salunkhe – NAAC Expert, (VC, Bharti Vidyapeeth, Pune) (**11-01-2019**)
4. Prof. V.S. Chouhan, NAAC, New Delhi (**25-02-2019**)
5. Prof. Kattimani – Member National Education Policy, VC, A.T. University (**15-07-2019**)

16. Whether institutional data submitted to AISHE: Yes/No: Yes

Year: 2018-19

Date of Submission: 28-02-2019 (U-0269-2018)

17. Does the Institution have Management Information System? : Yes

Phase-wise Modules for IUMS

E-GOVERNANCE & IT CELL

The following activities of this Cell are (in collaboration with MP-Online):

1. Collection of all types of fees from the students
2. Pre-Examination Work
3. Counter Base facility
4. Collection of affiliation fees from the colleges
5. Checking and up-loading all the information & notification related to affiliated colleges
6. Uploading all the information related to academic work
7. Uploading all notification, circulars, tenders etc., on the website
8. Grievance Redresser System

9. e-Enrollment
10. CCTV Control

Pre- & Post Examination Work

Online and Offline Activities:

1. Student Admission Process (all levels)
2. Enrolment of the students
3. Pre Examination Work
4. Examination Valuation Process including scanning of answer books
5. Result Preparation & Declaration and Mark Sheet Process
6. Reopening & Re-totalling Process

DATA Centre

The following activities of this Cell are :

1. Maintenance of Database related to teachers, employees, students and academic departments
2. Generation of Reports for onward submission to various organizations e.g., MP Govt., UGC, AICTE, NAAC, AISHE etc.
3. RUSA Nodal Centre
4. Provides various data services to different wings of the University
5. Verification of students Records
6. Maintain Teachers' database and assist Examination Processes in the University
7. Provide training & support to the University employee.

Part-B

CRITERION I – CURRICULAR ASPECTS			
1.1 Curriculum Design and Development			
1.1.1 Programmes for which syllabus revision was carried out during the Academic year			
Name of programme	Programme Code	Dates of revision	
Ph.D. Arabic	BU/ARB/01	12/7/19	
Ph.D. Sanskrit	BU//SAN/01	12/7/19	
Ph.D. Linguistics	BU/LIN/01	12/7/19	
Ph.D. Persian	BU/PRS/01	12/7/19	
Ph.D..Com.	BU/COM/01	12/7/19	
Ph.D. Education	BU/EDU/01	12/7/19	
Ph.D. Yoga	BU/YOG?/01	12/7/19	
Ph.D. Law	BU/LAW/01	4/7/19	
B.A.LL.B.	BU/LAW/04	4/07/19	
Ph.D.. Bioscience	BU/BIS/01	12/07/19	
Ph.D. Environmental Science	BU/EVS/01	12/7/19	
Ph.D. Microbiology	BU/MIC/01	12/07/19	
Ph.D. Biotechnology	BU/BIT/01	12/07/19	
Ph.D. Genetics	BU/GEN/01	12/07/19	
Ph. D. Environ. Science & Limnology	BU/ESL/01	12/07/19	
Ph.D. Zoology	BU/ZOO/01	12/07/19	
Ph.D. Physical Education	BU/PED/01	12/07/19	
Bachelor in Physical Education and Science	BU/PED/04B	26/10/18	
Ph.D. Computer Science	BU/CMS/01	12/07/19	
Ph.D.. Information Technology	BU/IT/02	26.06.2019	
Ph.D. Applied Geology	BU/APG/01	12/07/19	
Ph. D. Physics	BU/PHY/01	12/07/19	
Ph.D. Psychology	BU/PSY/01	12/7/19	
M.A. Clinical Psychology	BU/PSY/02	20/07/18	
Ph.D. Econ.	BU/ECO/01	12/07/19	
Ph. D. Geog.	BU/GEO/01	12/07/19	
Ph.D. Sociology	BU/SOC/01	12/07/19	
Ph. D. Management	BU/MGT/01	12/7/19	
MBA	BU/MGT/02	27/7/18	
Ph.D. Women Studies	BU/WS/01	12/07/19	
1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction
BU/ARB/02	2016		
BU/PRS/01	1977		
BU/PRS/02	1977		
BU/COM/02	1986		
BU/LAW/04	1999		
BU/BIT/01	1996		

BU/BIT/02	1996				
BU/GEN/01	1982				
BU/GEN/02	1992				
BU/GEN/02A	2009				
BU/EVS/02	2009				
BU/MIC/01	1982				
BU/MIC/02	1982				
BU/AQA/02	1997				
BU/PSY/02	1984				
BU/PSY/02A	2004				
P.G.D. Dip	2000				
BU/ECO/02	1974				
BU/GEO/02	2015				
BU/SOC/02	1984				
BU/SCW/02	1998				
BU/WS/01	2014				
BU/WS/03	2012				
BU/CIE/04	1997				
BU/ME/04	1997				
BU/ECE/04	1997				
BU/IT/04	1999				
BU/CIE/04	2008				
BU/MBA/02					
BU/APG/02	1984				
BU/RSG/02	1994				
1.2 Academic Flexibility					
1.2.1 New programmes/courses introduced during the Academic year ----- 01					
Programme/Course		Date of introduction			
Advanced Diploma in Biosafety and Bio Security		2018-19			
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.					
CBCS PATTERN WILL BE FOLLOWED IN 2019-20					
Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
Already adopted (mention the year) Credit based courses in Engineering (UG) programme Few Courses have adopted the Elective Course System at UG and PG level				✓	-
1.3 Curriculum Enrichment					
1.3.1 Value-added courses imparting transferable and life skills offered during the year					
Value added courses		Date of introduction		Number of students enrolled	
Swimming Coaching and Life Guards Communication Skill		15.05.2019		43 51+	

Diploma & Certificate Course in Arabic		15		
1.3.2 Field Projects / Internships under taken during the year				
Project/Programme Title		No. of students enrolled for Field Projects / Internships		
M.A. Arabic		08		
M.A. Hindi		08		
M.A. English		10		
M.A. Sanskrit		06		
M.A. Urdu		03		
M.A. Linguistic		01		
M.A. Persian		01		
M.Com.		13		
M.A. Education		16		
LLB		17		
LLM		22		
M.Sc. Bioscience		10		
M.Sc. Biotechnology		13		
M.Sc. Genetics		01		
M.Sc. Biochemistry		06		
M.Sc. Environmental Science		12		
M.Sc. Microbiology		17		
M.Sc. Zoology		16		
M.Sc. Applied Aquaculture		23		
B.P.Ed.		21		
M.P.Ed.		12		
M.Sc. Computer Science and IT		20		
M.Sc. Applied Geology		09		
M. Sc. (Tech) Remote Sensing		08		
M.Sc. Physics		22		
M.Sc. Electronics		05		
M.A. Psychology & Clinical Psychology		20		
M.A. Economics		02		
M.A. Geography		11		
M.A. Sociology		13		
MBA		43		
B.Pharma		36		
M.Pharma		04		
M.Tech.		27		
1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

<p>Almost all the Departments received the structured feedback from students, whereas few Departments received structured feedback from others like Teachers, Employees, Alumni, and Parents also.</p>				
<p>1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)</p>				
<p>The feedback collected from different stake holders are reviewed in departmental council meetings. Each member participates in review and analysis of the feedback. Based on feedback analysis, if required faculty members are asked by Head of Departments to take care of student's needs. If the problem reported is related with syllabus, it is placed in Board of Study meeting for modification, change and additions as per requirement. If suggestions are related with university administration, requests are made by HOD for effective review and proper solutions of the problem. Problems in the form of feedback are related with course material, proper facility in the library and laboratory. These problems are noticed seriously by authorities and efforts are made to implement solutions as per university rules. Disciplinary issues, ragging issues or issues related to classroom teaching are openly discussed with committee members and students and grievances are sorted out by the authority using democratic and legal procedures. Sometimes parents are also called to give feedback about their wards.</p>				

CRITERION II -TEACHING-LEARNING AND EVALUATION			
2.1 Student Enrolment and Profile			
2.1. 1 Demand Ratio during the year			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Department of Arabic			
M.A. Arabic	10	12	10
Diploma Arabic	20	06	04
Certificate Arabic	20	06	05
Ph.D. Arabic	08	--	07
Department of Comparative Languages and Culture			
M.A. (Sanskrit)	20	12	05
M.A. (Hindi)	20	26	16
M.A. (English)	20	35	18
M.A. (Linguistics)	10	07	04
M.A. (Urdu)	20	13	08
Ph.D. (Sanskrit)	05	--	04
Ph.D. (Linguistics)	07	--	04
Department of Persian			
M.A. (Persian)	10	04	04
Ph.D.(Persian)	08	--	03
Department of Commerce			
M.Com.	40	28	19
Ph.D.	20	--	15
Department of Continuing Education & Extension			
B.Ed.	50	50	49
M.A. (Education)	20	23	13
Ph.D.	04	--	01
Department of Yoga			
Certificate Yoga	30	37	22
PG Diploma Yogic Science	65	105	65
PG Diploma Yoga Therapy	40	56	40
PG Diploma Stress Management	20	12	09
MA/ M.Sc. Human Consciousness and Yogic Science	30	141	70
Ph.D.	04	--	04
Department of Legal Studies & Research			
B.A.L.L.B.	60	320	60
L.L.M.	30	169	33
Ph.D.	16	--	13
Department of Biosciences			
M.Sc. (Bioscience)	20	18	
Ph.D.	18	--	14
Department of Biotechnology			
M.Sc. (Biotechnology)	20	31	15
Ph.D.	08	--	06

Department of Biochemistry & Genetics			
M.Sc. (Biochemistry)	20	34	17
M.Sc. (Genetics)	10	14	06
Ph.D.	12	--	02
Department of Environmental Sciences & Limnology			
M.Sc. (Env. Sc.)	20	15	12
Ph.D.	04	--	04
Department of Microbiology			
M.Sc. (Microbiology)	30	37	18
Ph.D.	12	--	08
Department of Zoology & Applied Aquaculture			
M.Sc. (Zoology)	40	53	21
M.F.Sc.	40	82	40
Department of Physical Education			
B.P.Ed.	50	--	50
B.P.E.	55	96	52
M.P.Ed.	30	--	13
Ph.D.	04	--	--
Department of Computer Science & Applications			
M.Sc. (CS)	20	31	20
M.Sc. (IT)	10	09	08
Ph.D.	06		05
Department of Earth Science			
M.Sc. (Applied Geo)	20	22	12
M.Sc. (Tech.) Remote Sensing	15	12	04
Department of Electronics			
M.Sc. (Electronics)	10	15	08
Department of Physic			
M.Sc. (Physics)	30	34	30
Department of Psychology			
M.A. (Psychology)	15	18	15
M.A. (Clinical Psychology)	10	14	11
PG Diploma in Guidance and Counselling	30	33	30
Ph.D.	24	--	15
Department of Regional Planning & Economic Growth			
M.A. (Economics)	30	12	10
M.A. (Geography)	30	15	14
Ph.D.	04	--	04
Department of Sociology			
M.A. (Sociology)	30	30	09
M.A. (Social Work)	30	30	18
Ph.D.	42	--	29
Women's Studies Department			

Ph.D.	08	14	07
University Institute of Technology			
BE	270	143	143
C.R. Institute of Management			
M.B.A.	60	--	51
Ph.D.	08	--	08
Department of Pharmacy			
B.Pharm.	60	60	60
M.Pharm. (Pharmaceutics)	10	09	07
M.Pharm. (Pharmacognosy)	06	05	--

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
Department of Arabic					
2018-19	-NA-	10	-NA-	01	-NA-
Department of Comparative Languages and Culture					
2018-19	-NA-	51	-NA-	03	-NA-
Department of Persian					
2018-19	-NA-	04	-NA-	01	-NA-
Department of Commerce					
2018-19	-NA-	32	-NA-	04	-NA-
Department of Continuing Education & Extension					
2018-19	99	19	02	02	02
Department of Yoga					
2018-19	22	184	01	01	01
Department of Legal Studies & Research					
2018-19	60	30	03	03	03
Department of Biosciences					
2018-19	-NA-	20	-NA-	03	-NA-

Department of Biotechnology					
2018-19	-NA-	22	-NA-	01	-NA-
Department of Biochemistry & Genetics					
2018-19	-NA-	30	-NA-	02	-NA-
Department of Environmental Sciences & Limnology					
2018-19	-NA-	12	-NA-	03	-NA-
Department of Microbiology					
2018-19	-NA-	18	-NA-	02	-NA-
Department of Zoology & Applied Aquaculture					
2018-19	-NA-	61	-NA-	01	-NA-
Department of Physical Education					
2018-19	102	13	02	02	02
Department of Computer Science & Applications					
2018-19	-NA-	42	-NA-	01	-NA-
Department of Earth Science					
2018-19	-NA-	26	-NA-	02	-NA-
Department of Electronics					
2018-19	-NA-	08	-NA-	01	-NA-
Department of Physics					
2018-19	-NA-	30	-NA-	04	-NA-
Department of Psychology					
2018-19	-NA-	26	-NA-	03	-NA-
Department of Regional Planning & Economic Growth					
2018-19	-NA-	37	-NA-	03	-NA-
Department of Sociology					
2018-19	-NA-	27	-NA-	06	-NA-
University Institute of Technology					
2018-19	822	30	12	12	12

C.R. Institute of Management					
2018-19	-NA-	51	-NA-	01	-NA-
Department of Pharmacy					
2018-19	173	09	05	05	05
Institute of Open & Distance Education					
2018-19	593	229	12	12	12

2.3 Teaching - Learning Process					
2.3.1 Percentage of Teachers using ICT foreffective teaching with Learning Management Systems (LMS), E-learningresourcesetc. (current year data)					
Number of teachers on roll	Number of teachers using ICT (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
Department of Arabic					
01	01	--	--	--	--
Department of Comparative Languages and Culture					
03	02	Desktop, Laptop, LCD Projector	01	01	--
Department of Persian					
01	01	--	--	--	--
Department of Commerce					
04	04	Desktop, Laptop, LCD Projector,	01	--	--
Department of Continuing Education & Extension					
02	01	--	--	--	--
Department of Yoga					
01	01	--	--	--	--
Department of Legal Studies & Research					
03	03	yes	05	01	Power point
Department of Biosciences					
03	03	--	03	02	--
Department of Biotechnology					
01	--	01	-Nil-	-Nil-	LCD Projector
Department of Biochemistry & Genetics					
2	02	Desktop, Laptop, LCD Projector	02	01	LCD Projector
Department of Environmental Sciences & Limnology					
01	--	01	-Nil-	-Nil-	LCD Projector

Department of Microbiology					
02	02	yes	01	--	LCD Projector
Department of Zoology & Applied Aquaculture					
01	01	--	--	06	LCD Projector
Department of Physical Education					
--	--	--	--	--	--
Department of Computer Science & Applications					
01	01	yes	01	--	LCD Projector
Department of Earth Science					
02	02	Interactive Board, Wi-Fi facility, LAN	04	01	LCD Projector
Department of Physics					
04	04	04	02	01	Yes
Department of Psychology					
03	03	Yes	--	01	--
Department of Regional Planning & Economic Growth					
03	03	Yes	--	--	--
Department of Sociology					
06	04	Yes	--	--	--
Department of Physical Education					
02	02	--	--	--	--
Women's Studies Department					
01	01	Yes	--	--	--
University Institute of Technology					
12	12	--	04	01	e-Journals, Wi-Fi, LCD Projector, PPT
C.R. Institute of Management					
01	01	Projector	01	01	--
Department of Pharmacy					
05	05	Software	03	03	Software and IC
Institute of Open & Distance Education					
12	10	--	--	--	--

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

Apart from regular teaching and practical; students of the department are motivated by teachers to participate in various seminars, conferences and various competitions in campus as well as outside the campus which is beneficial in overall development and awareness among them.

They are also motivated to write research papers as an outcome of their Project Dissertations; during last five years, 10 research papers in Journals of International repute of have been published from students' dissertations.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
Department of Arabic		
19	01	1:19
Department of Comparative Languages and Culture		
60	03	1:20
Department of Persian		
07	1	1:7
Department of Commerce		
32	4	1:8
Department of Continuing Education & Extension		
53	01	1:53
Department of Yoga		
201	01	1:201
Department of Legal Studies & Research		
93	3	1:31
Department of Biosciences		
19	03	1:7
Department of Biotechnology		
25	1	1:25
Department of Biochemistry & Genetics		
30	2	1:15
Department of Environmental Sciences & Limnology		
15	03	1:5
Department of Microbiology		
35	02	1:17
Department of Zoology & Applied Aquaculture		
86	1	1:86
Department of Physical Education		
134	02	1:67
Department of Computer Science & Applications		
42	1	1:42
Department of Earth Science		
26	02	1:13
Department of Electronics		
12	01	1:12
Department of Physics		
48	04	1:12
Department of Psychology		
68	03	1:22
Department of Regional Planning & Economic Growth		
37	03	1:12

Department of Sociology		
56	06	1:09
University Institute of Technology		
852	12	1:71
C.R. Institute of Management		
51	01	1:51
Department of Pharmacy		
182	05	1:36
Institute of Open & Distance Education		
822	12	1:68

2.4 Teacher Profile and Quality				
2.4.1 Number of full time teachers appointed during the year				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D.
Department of Arabic				
3	1	2	-Nil-	1
Department of Comparative Languages and Culture				
6	3	3	-Nil-	3
Department of Persian				
3	1	2	-Nil-	1
Department of Commerce				
6	5	1	-Nil-	3
Department of Continuing Education & Extension				
3	2	1	-Nil-	2
Department of Yoga				
1	1	--	-Nil-	1
Department of Legal Studies & Research				
5	3	2	-Nil-	3
Department of Biosciences				
7	3	4	-Nil-	3
Department of Biotechnology				
4	1	3	-Nil-	1
Department of Biochemistry & Genetics				
4	2	2	-Nil-	2
Department of Environmental Sciences & Limnology				
5	3	2	-Nil-	3
Department of Microbiology				
7	2	5	-Nil-	2
Department of Zoology & Applied Aquaculture				
--	1 (Deputed)	--	-Nil-	1

Department of Physical Education				
1	1	--	-Nil-	2
Department of Computer Science & Applications				
5	1	4	-Nil-	1
Department of Earth Science				
6	2	4	-Nil-	2
Department of Electronics				
2	--	2	-Nil-	2
Department of Physics				
8	4	4	-Nil-	4
Department of Psychology				
6	3	3	-Nil-	3
Department of Regional Planning & Economic Growth				
8	4	4	-Nil-	3
Department of Sociology				
8	6	2	-Nil-	6
University Institute of Technology				
91	12	79	-Nil-	12
C.R. Institute of Management				
5	1 (Deputed)	5	-Nil-	1
Department of Pharmacy				
20	5	20	5	3
Institute of Open & Distance Education				
15 (Director -1, Deputy Director -1)	13	2	-Nil-	9

2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

<i>Year of award</i>	<i>Name of full time teachers receiving awards from state level, national level, international level</i>	<i>Designation</i>	<i>Name of the award, fellowship, received from Government or recognized bodies</i>
Department of Arabic			
2018	Prof. Ayisha Rais	Professor	King Abdullah Bin Abdul Aziz International Centre for the Arabic Language, Riyadh, Saudi Arabia
Department of Microbiology			
2018-19	Prof. Anil Prakash	Professor	Fellow of Mycological Society of India

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Program me Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
				July/ August 2019

-Nil-

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

**Do not include re-evaluation/ re-totalling*

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
-Nil-	926	0.00%

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the web link)

<http://www.bubhopal.ac.in/site/information/GenericPDFListing.aspx?Doctype=9C72E3A5-A524-42C2-8E10-95B3E27A7254>

(Please see Annexure – II (A)) also

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
Department of Arabic				
	Diploma Course in Modern Arabic	4	4	100%
	M.A. (Arabic)	8	7	87.5%
Department of Comparative Languages and Culture				
	M.A. (Sanskrit)	06	04	66.7%
	M.A. (Hindi)	08	06	75%
	M.A. (English)	10	08	80%
	M.A. (Linguistics)	01	01	100%
	M.A. (Urdu)	03	03	100%
Department of Persian				
	M.A. (Persian)	01	01	100%
Department of Commerce				

	M.Com. (Financial Management)	13	11	84.6%
	Department of Continuing Education & Extension			
	B.Ed.	46	44	95.7%
	M.A. (Education)	06	05	83.3%
	Department of Yoga			
	PG Diploma Yogic Science	58	53	91.4%
	PG Diploma Yoga Therapy	32	32	100%
	PG Diploma Stress Management	05	05	100%
	MA Human Consciousness and Yogic Science	25	20	80%
	M.Sc. Human Consciousness and Yogic Science	24	22	91.7%
	Department of Legal Studies & Research			
	B.A.L.L.B.	46	45	97.8%
	L.L.M.	22	20	90.9%
	Department of Biosciences			
	M.Sc. (Bioscience)	11	11	100%
	5-Years Integrated M.Tech. in Stem Cell Engineering	10	10	100%
	Department of Biotechnology			
	M.Sc. (Biotechnology)	10	08	80%
	Department of Biochemistry & Genetics			
	M.Sc. (Biochemistry)	06	06	100%
	M.Sc. (Genetics)	01	01	100%
	Department of Environmental Sciences & Limnology			
	M.Sc. (Env. Sc.)	03	02	66.7%
	Department of Microbiology			
	M.Sc. (Microbiology)	17	17	100%
	Department of Zoology & Applied Aquaculture			
	M.Sc. (Zoology)	17	13	76.5%
	M.F.Sc.	23	23	100%
	Department of Physical Education			
	B.P.Ed.	24	21	87.5%
	B.P.E.	11	09	81.8%
	M.P.Ed.	11	11	100%
	Department of Computer Science & Applications			
	M.Sc. (CS)	11	09	81.8%
	M.Sc. (IT)	09	08	88.9%
	Department of Earth Science			
	M.Sc. (Applied Geo)	09	07	77.8%
	M.Sc. (Tech.) Remote Sensing	04	02	50%
	M.Sc. (Geoinformatics)	01	01	100%
	Department of Electronics			
	M.Sc. (Electronics)	04	04	100%
	Department of Physics			
	M.Sc. (Physics)	22	20	90.9%
	Department of Psychology			
	M.A. (Psychology)	08	07	87.5%

	M.A. (Clinical Psychology)	12	11	91.7%
	PG Diploma in Guidance and Counselling	28	23	82.1%
	Department of Regional Planning & Economic Growth			
	M.A. (Economics)	02	02	100%
	M.A. (Geography)	12	12	100%
	Department of Sociology			
	M.A. (Sociology)	08	06	75%
	M.A. (Social Work)	15	09	60%
	University Institute of Technology			
	B.E. (Computer Science & Engineering)	62	54	87.1%
	B.E. (Information Technology)	12	12	100%
	B.E. (Electronics & Comm. Engg.)	36	30	83.3%
	B.E. (Mechanical Engineering)	51	39	76.5%
	B.E. (Civil Engineering)	62	57	91.9%
	C.R. Institute of Management			
	M.B.A. (FM)	52	32	61.5%
	Department of Pharmacy			
	B.Pharm.	40	39	97.5%
	M.Pharm. (Pharmaceutics)	04	04	100%
	Overall pass percentage of declared results			87.6%

2.7 Student Satisfaction Survey

- Student's grievances regarding books and lab facilities were solved.

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION				
3.1 Promotion of Research and Facilities				
3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year				
	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	NIL	NIL	NIL	NIL
International	NIL	NIL	NIL	NIL
3.1.2 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year				
Name of Research fellowship	Duration of fellowship	Funding agency		
Post Doctoral Fellowship for Women-01	2016-2021 (5 Yrs)	UGC New Delhi		
DBT-IPLS-02	2013-2018 (5 Yrs)	DBT, New Delhi		
RGNF -04	2015-2020 (5 Yrs)	UGC New Delhi		
National Fellowship for OBC-01	2016-2021 (5 Yrs)	UGC New Delhi		
DST Inspire-01	2015-2020 (5 Yrs)	DST, New Delhi		
Moulana Azad National Fellowship for Minority-01	2015-2018 (4 Yrs)	UGC New Delhi		
DBT Builder Programme -01	2015-2018 (4 Yrs)	DBT, New Delhi		
ICMR, New Delhi	2018-2021 (3 Yrs)	ICMR, New Delhi		
CSIR, New Delhi	2018-2021 (3 Yrs)	CSIR, New Delhi		
MPCST, Bhopal	2018-2020 (2 Yrs)	MPCST, Bhopal		
MOEF & CC, New Delhi	2018-2023 (5 Yrs)	MOEF & CC, New Delhi		
DBT Builder program	2018-2019 (1Yrs)	DBT Builder Programme, IPLS, New Delhi		
Junior Research Fellowship	2017-22 (5 Yrs)	Ministry of Social Justice & Empowerment		
State Fellowship	2018-20 (2 Yrs)	M.P. Govt		
SRF, RGNF: 01	2018-21 (3Yrs)	UGC New Delhi		
SRF, MANF: 03	Three (2018-2021)	UGC New Delhi		
NET JRF : 01	2019 continuing	UGC		
JRF	2 Yr	DST		

3.2 Resource Mobilization for Research				
3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects: 1. SAP 2. FIST 3. BRNS 4. INDO–US 5. ICMR	2018-2023 2018-2023 2017-2020 2018-2021 2018-2021	UGC, New Delhi DST, New Delhi DAE, New Delhi DBT, New Delhi ICMR, New Delhi	70 lakhs 151 lakhs 35 lakhs 8.0 lakhs 12 lakhs	07 lakhs 91 lakhs 7.98 lakhs 8.0 lakhs 4.3 lakhs
Minor Projects: 1. MPCST 2. MPCST 3. MPCST 4. MPCST 5. MPBDB	2018-2020 2018-2020 2018-2020 2018-2020 2018-2023	MPCST, Bhopal MPCST, Bhopal MPCST, Bhopal MPCST, Bhopal MPBDB, Bhopal	7.3 lakhs 7.10 lakhs 6.65 lakhs 3.89 lakhs 3.16 lakhs	2.01 lakhs 7.10 lakhs 4.2 lakhs - 2.70 lakhs
Minor Project	2 Years	Barkatullah University	1.9 lakhs	1.9 lakhs
Minor Project	2 Years	Barkatullah University	1.7 lakhs	1.7 lakhs
Minor Project	2 Years	Barkatullah University	2 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	2.0 lakhs	2.0 lakhs
Minor Project	2 Years	Barkatullah University	1.5 lakhs	1.5 lakhs
Interdisciplinary Projects	NIL	NIL	NIL	NIL
Industry sponsored Projects	NIL	NIL	NIL	NIL
Students Research Projects (<i>other than compulsory by the University</i>)	3 Years 3 Years	CSIR, New Delhi DST, New Delhi	10.80 lakhs 16.44 lakhs	10.80 lakhs 16.44 lakhs
International Projects	1 year	DBT under Indo-US fold scope project	8 lakhs	6 lakhs
Any other(Specify)	-	-	-	-
Total	-	-	380.44	208.62

3.3 Innovation Ecosystem				
3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year				
Title of Workshop/Seminar		Name of the Dept.	Date(s)	
Dr. Ajay main nominee of CPCSEA has delivered a lecture on a laboratory animal care		BIOSCIENCE	16 Feb, 2019	
Intellectual Property Right & Patent in Research and Technology		Biotechnology Department	1 June, 2019	
Prof. Anil Prakash Sir and Dr. Vipin Vyas Sir jointly organized workshop on "FOLDSCOPE" sponsored by DBT, New Delhi at Department of Microbiology, Barkatullah University, Bhopal on 27 September 2018.		Microbiology	27 September, 2018	
Workshop was organized by the department on acid fast staining of <i>Mycobacterium tuberculosis</i> in association with T.B. centre Bhopal on 22 - 23 October 2018.		Microbiology	22 - 23 October, 2018	
Microbiologist Society Unit (Microbiologist Society of India) at Department of Microbiology, Barkatullah University, Bhopal organised "Agar art competition" was organized by the department held on 25 October 2018. Honourable Vice Chancellor inaugurated this event.		Microbiology	25 October, 2018	
Microbiologist Society Unit (Microbiologist Society of India) and Department of Microbiology organized One Day Seminar on "Recent Trends in Biological Sciences" at Department of Microbiology, Barkatullah University, Bhopal on 24 May 2019.		Microbiology	24 May, 2019	
Barkatullah Bhopali as a freedom fighter		Arabic	8/7/2019	
APJ Abul Kalam Expert Lecture Series		UIT		
BIG DATA & AI		UIT	16/05/2019	
DYNAMIC WEBSITE DEVELOPMENT & CLOUD COMPUTING		UIT	24/05/2019	
INTERNET MATURITY & DIGITAL CITIZENSHIP		UIT	30/05/2019	
Simple Sanskrit standard workshop		Comparative Languages and Culture		
Intellectual Property Rights (IPR)		Barkatullah University Bhopal		
3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year (Annexure:3.3.2)				
Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Fellow of Mycological Society of India	Prof. Anil Prakash	Mycological Society of India	21 st November 2018.	Professor

MP Young Scientist	Poonam Arya	Madhya Pradesh Council of Science & Technology	March, 2019	Research Scholar
Outstanding Work in Riparian Zone Conservation in Hoshangabad District	Dr. Vipin Vyas	Awarded by Collector of Hoshangabad District	26 Jan, 2018	Associate Professor
IBRO-APRC, sponsored Neuroscience School Fellow	Mrs. Pratibha Thakur	International Brain Research Organization	6 June, 2019	Research Scholar
IBRO-APRC, Associate Neuroscience School Fellow	Mrs. Pratibha Thakur	International Brain Research Organization	15 Feb. 2019	Research Scholar
MP Young Scientist	Tabassum Zafar	Madhya Pradesh Council of Science & Technology	16 March, 2018	Research Scholar
Best Paper Presentation	Shweta Sahu	AKS University, Satna (M.P.)	2019	Research Scholar
उत्कृष्टसेवापुरस्कार-Utkrasht Seva Purushkar – 2019	Department of Physical Education	Rashtriya Khel Utthan Parishad , Rewa-MP	2019	Students

3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
Department of Microbiology	Vermicompost Unit	Department of Microbiology
Name of the Start-up	Nature of Start-up	Date of commencement
Seed Money Project	Research for Teacher Fellowship for PhD Student	June, 2019 June, 2019

3.4 Research Publications and Awards

3.4.1 Ph. Ds awarded during the year

Name of the Department	No. of Ph. Ds Awarded
Bioscience	02
Biotechnology	03
Genetics	01
Department of Environmental Science &	02

Limnology	
Zoology & Applied Aquaculture	04
Department of Pharmacy	01
Microbiology	04
Department of Yoga	01
Department of Arabic	06
Department of Psychology	08
UIT	05
Comparative Languages and Culture	06
Dept of Law	04
Department of Commerce	02
Department of Earth Sciences	01
CRIM (Dept. of Management)	01
Department of Persian	03
Regional Planning and Economic Growth Department(as research centre)	16
Dept. of Computer Science & Applications, B.V.V., Bhopal	01
Department of Electronics	01
Department of Physics	10
Department of Sociology	04
Department of Physical Education	04

3.4.2 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National	Bioscience	4	0.38
International	Bioscience	5	0.59
National	Genetics	3	2.652
International	Genetics	13	
National	Department of Pharmacy	1	
National	Zoology & Applied Aquaculture	3	
International	Department of Environmental Science & Limnology	3	
National	Microbiology	3	1
International	Microbiology	3	
National	Department of Psychology	13	
International	UIT	8	
National	Comparative Languages and Culture	5	
National	Deptt. of Continuing Education	2	3.765
International	Department of Commerce	8	3
National	Department of Earth Sciences	3	
National	CRIM(Dept. of Management)	2	

International	Regional Planning and Economic Growth Department(as research centre)	1	
International	Dept. of Computer Science & Applications, B.V.V., Bhopal	3	
International	Department of Physics	204	
International	Department of Sociology	5	
National	Department of Sociology	18	
International	Department of Physical Education	1	

3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
Bioscience	18 +1 Book
Biotechnology	22
Genetics	01 (Book Chapter)
Department of Environmental Science & Limnology	02
Zoology & Applied Aquaculture	01
Department of Pharmacy	01
Microbiology	04
Department of Arabic	01
UIT	05
Comparative Languages and Culture	03
Department of Sociology	13
Deptt. of Continuing Education	03
Dept of Law	01
Women's Studies Department	01
CRIM(Dept. of Management)	05
Department of Persian	03
Department of Physical Education	03 (Books)

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
Process of Patent filing in progress	-	-	-

3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index (Annexure: 3.4.5)						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Effects of Exogenous Oxytocin and Atosiban Antagonist on GABA in Different Region of Brain.	Pratibha Thakur, Renu, Shrivastava and Vinoy K. Shrivastava	IBRO Report (Elsevier) (International)	2019	1.08 (SJR)	Endocrinology Unit, Bioscience Department, Barkatullah University, Bhopal	1
Fluorometric Method to Quantify Monoamine: A Brain Region-Based Study Using Miligram Amount of Brain Tissue	Pratibha Thakur, Renu Shrivastava and Vinoy K. Shrivastava	Neuroendocrinology Letter	2019	1.26 (SJR)	Endocrinology Unit, Bioscience Department, Barkatullah University, Bhopal	-
Evaluation of Seasonal Variation in Physico-Chemical Water Quality Parameters of Narmada River at District Hoshangabad, Madhya Pradesh, India	Rajendra Singh Chakarde and Vinoy K. Shrivastava	Pollution Research (National)	2019	21 Scopus h-index	Laboratory of Endocrinology, Bioscience Department, Barkatullah University, Bhopal	-
Protective effects of saffron against zearalenone-induced alterations in reproductive hormones in female mice (Mus musculus).	Bashir Ahmad, Vinoy K. Shrivastava, Ramadan Saleh, Ralf Henkel and Ashok Agarwal	Clinical and Experimental Reproductive Medicine	2018	1.528	Laboratory of Endocrinology, Bioscience Department, Barkatullah University, Bhopal	2
Health implication Associated with Aspartame Consumption: A Substantial Review	Ab Qayoom Naik, Tabassum Zafar and Vinoy K Shrivastava	Pakistan Journal of Biological Sciences	2018	0.829	Laboratory of Endocrinology, Bioscience	1

					Department, Barkatullah University, Bhopal	
Impairment of Ovarian Biochemical Contents and Enzymes Activities During Potassium Bromate (KBrO ₃) Intoxication in Albino Mice, <i>Mus musculus</i> .	Pratibha Thakur, Renu Shrivastava and Vinoy K. Shrivastava	International Journal of Pharmaceutical Sciences and Research	2018	0.27	Laboratory of Endocrinology, Bioscience Department, Barkatullah University, Bhopal	-
Effect of Short-term Consumption of Aspartame on Some Biochemical and Hematological Parameters in Female Swiss Albino Mice	Ab Qayoom Naik and Vinoy Kumar Shrivastava	International Journal of Zoological Research	2019	14 SJR	Laboratory of Endocrinology, Bioscience Department, Barkatullah University, Bhopal	-
The Ganges basin fish <i>Cirrhinus mrigala</i> (Cypriniformes: Cyprinidae): detection of wild populations stock structure with landmark morphometry.	Dwivedi, A.K., Sarkar, U., Mir, J.I., Tamot, P and Vyas, V.	<i>Revista de Biologia Tropical</i>	2019		Barkatullah University, Bhopal-462026 M.P., INDIA	-
Physical Habitat Assessment of the Ganjal and Morand River Using GIS Techniques	Sharma, R., Kumar, A., Vyas, V.	<i>Journal of the Indian Society of Remote Sensing</i>	2018		Barkatullah University, Bhopal-462026 M.P., INDIA	1
Fish Biodiversity and Its Periodic Reduction: A Case Study of River Narmada in Central India	Muslim Ahmad Shah, Vipin Vyas, Shalini Yadav	Environmental Pollution; Springer Singapore	2018		Barkatullah University, Bhopal-462026 M.P., INDIA	-

Plant growth promoting rhizobacteria (PGPR): current and future prospects for development of sustainable agriculture	Govind Gupta, Shailendra Singh Parihar, Narendra Kumar Ahirwar, Sunil Kumar Snehi, Vinod Singh	Journal of Microbiology and Biochemistry Technology	2015	179	Barkatullah University, Bhopal-462026 M.P., INDIA	179
Impact of Gst on Indian Hotel and restaurant Business	Prof. S.K. Khatik	International Journal of Management ,IT and Engineering	2019	5	Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
International Journal of Multidisciplinary Educational Research (IJMER)	Dr.Pavan Mishra	international journal of multidisciplinary educational research(IJMER)	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Job Satisfaction in Public and Private Sector Banks, “A Comparative Study of Bank of India and HDFC Bank Ltd	Dr.Pavan Mishra	International Journal of Business, Management and Allied Science (IJBMAS)	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Financial Performance Analysis- A Comparative Study of Bank of Baroda and Axis Bank.	Dr.Anshuja Tiwari	International Journal of Advanced Scientific Research and Management	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	

Impact of GST on FMCG Products and Automobile sector in India	Prof. S.K. Khatik	International journal of business, management and Allied Sciences	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Company valuation using free cash flow technique : A Cash study of national thermal power corporation limited	Prof. S.K. Khatik	Journal of advanced management research	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Strategic Communication for Success: An Organizational Perspective	Dr.Pavan Mishra	Review International Journal of Multidisciplinary [RRIJM]	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
xzkeh.k Hkkjr esa f`k {kk rFkk jkstkj ds volj ,oa pqukSfr;ka	Dr.Pavan Mishra	Printing Area” International Interdisciplinary Journal	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
A Study of the Impact of Mergers and Acquisition on Employee Efficiency with reference to Merger of State Bank of Indore in State Bank of India	Dr.Anshuja Tiwari	Research Review International Journal of Multidisciplinary	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	

stock market volatility in major indices of word :An Analytical study of BSC Sensex,nasdaq,hangsang,nikkeiand Dowjanes	Prof. S.K. Khatik	Indian Journal of Accounting	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Pre and Post -Analysis of Demonetization Period:Issues and challenges	Prof.S.K.Khatik	International Journal of Business Intelligence Analytics	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
The Role of Information Systems in Human Resource Management in N.C.R	Dr.Pavan Mishra	International Journal of Engineering Science and Computing (IJESC)	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Study of Job Satisfaction & Motivation in Private Collages of Bhopal	Dr.Pavan Mishra	International Journal of Research in Computer application & Management	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Analysis of Financial Strength of National Thermal Power Corporation Limited (NTPC Ltd.	Dr.Pavan Mishra	International Journal of Research in Engineering, Science and Management (IJRESM)	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	

A Study of Comparative Statement Analysis of Oil India limited	Dr.Pavan Mishra	International of research in Engineering, IT and Social Sciences	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Job Satisfaction in Public and Private Sector Banks, “A Comparative Study of Bank of India and HDFC Bank Ltd	Dr.Pavan Mishra	International Journal of Business, Management and Allied Science (IJBMAS	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
A qualitative study of investment decision in stock market with reference to individual investor: a brief review of research	Dr.Pavan Mishra	EPRAIntern ational Journal of Research and Developmen t(IJRD)	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Study of Job Satisfaction and Organizational Climate Among Academics Staff in Some Selected Private Universities in Bhopal City	Dr.Pavan Mishra	International Journal of Innovative Research in science, engineering and technology (IJIRSET)	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Strategic Communication for Success: An Organizational Perspective	Dr.Pavan Mishra	Research Review International Journal of Multidiscipli nary[RRIJM]	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P.,	

					INDIA	
Analysis of educational schemes impact on dropouts trends in India	Dr.Pavan Mishra	International Journal of Commerce and Management Research(IJCMR)	2018	26	Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Analysis of educational schemes impact on dropouts trends in India	Dr.Anshuja Tiwari	Research Review International Journal of Multidisciplinary	2018		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Analysis of educational schemes impact on dropouts trends in India	Dr.Anshuja Tiwari	International Journal of Advanced Scientific Research and Management	2019		Department of Commerce, Barkatullah University, Bhopal-462026 M.P., INDIA	
Psychosomatic Disorders and their management through yoga. Page No. 58 to 59	Dr Sadhna Dauneria	National Journal (NJREE)	2018		Barkatullah University, Bhopal-462026 M.P., INDIA	
Effect of Yoga on Attention and Concentration in Primary School Students .Page No. 118 to 125	Dr Sadhna Dauneria	Yoga & Allied Science	2018		Barkatullah University, Bhopal-462026 M.P., INDIA	
Advances in Diagnosis, Surveillance, and Monitoring of Zika Virus: An Update.	Singh R.K., Dhama K., Karthik K., Tiwari R.,	<i>Front. Microbiol.</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal-	22 citations

	Khandia R., Munjal A., Iqbal H.M.N., Malik Y.S. and Bueno- Marí R.				462026 M.P., INDIA	
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<i>In vitro</i> and <i>In vivo</i> Immunomodulating Properties of Mesenchymal Stem Cells. <i>Recent Pat Inflamm Allergy Drug Discov.</i>	Chaudhary D., Trivedi R.N., Kathuria A., Khandia R., Goswami T.K., and Munjal A.K.	<i>Recent Pat Inflamm Allergy Drug Discov.</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal- 462026 M.P., INDIA	6 citations
Modulation of Dengue / Zika Virus Pathogenicity by Antibody-Dependent Enhancement and Strategies to Protect against Enhancement in Zika Virus Infection. <i>Front. Immunol.</i>	Khandia R., Munjal A., Dhama K., Karthik K., Tiwari R., Malik Y.S., Singh R.K, and Chaicumpa W.	<i>Front. Immunol.</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal- 462026 M.P., INDIA	13 citations
Anthrax bacterium: its etiology and possible therapeutics against cancer;	Khandia R. and Munjal Ashok	<i>In: Advances in Animal Biotechnolo gy and its</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal-	-

		Applications			462026 M.P., INDIA	
Medicinal and Therapeutic Potential of Herbs and Plant Metabolites / Extracts Countering Viral Pathogens - Current Knowledge and Future Prospects.	Dhama K., Karthik K., Khandia R., Munjal Ashok, Tiwari R., Rana R., Khurana S.K., Sana Ullah, Khan R.U., Alagawany M., Farag M.R., Dadar M., Joshi S.K.	<i>Curr Drug Metab.</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal-462026 M.P., INDIA	19 citations
A Comprehensive Review on Equine Influenza Virus: Etiology, Epidemiology, Pathobiology, Advances in Developing Diagnostics, Vaccines and Control Strategies.	Singh R.K., Dhama K., Karthik K., Khandia R., Munjal Ashok, Khurana S.K., Chakraborty S., Malik Y.P.S., Virmani N., Singh R., Tripathi B.N., Munir M. and van der Kolk J.H.	<i>Front. Microbiol.</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal-462026 M.P., INDIA	2 citations
Advances in Designing and Developing Vaccines, Drugs, and Therapies to Counter Ebola Virus.	Dhama K., Karthik K., Khandia R., Chakraborty S., Munjal Ashok, Latheef S.K., Kumar D., Andavar R.M., Malik Y.P.S., Singh R., Malik S.V.S., Singh R.K. and Chaicumpa W.	<i>Front. Immunol.</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal-462026 M.P., INDIA	5 citations

Advances in Designing and Developing Vaccines, Drugs and Therapeutic Approaches to Counter Human Papilloma Virus.	Dadar M., Chakraborty S., Dhama K., Prasad M., Khandia R., Hassan S., Munjal Ashok, Karthik K., Kumar D., Iqbal H.M.N. and Chaicumpa W.	<i>Front. Immunol.</i>	2018		Dept. of Genetics, Barkatullah University, Bhopal- 462026 M.P., INDIA	2 citations
Cold acclimation conditions constrain plastic responses for resistance to cold and starvation in <i>Drosophila immigrans</i> .	Pathak Ankita, Munjal Ashok, Parkash Ravi	Biology Open 7:	2018		Dept. of Genetics, Barkatullah University, Bhopal- 462026 M.P., INDIA	-
Nipah virus: epidemiology, pathology, immunobiology and advances in diagnosis, vaccine designing and control strategies - a comprehensive review	Singh RK, Dhama K, Chakraborty S, Tiwari R, Natesan S, Khandia R, Munjal A, Vora KS, Latheef SK, Karthik K, Singh Malik Y, Singh R, Chaicumpa W, Mourya DT.	Vet Q.	2019		Dept. of Genetics, Barkatullah University, Bhopal- 462026 M.P., INDIA	1 citation
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Effect of metal ions on the dilute pretreatment of Lignocellulosic Biomass.	Abdul Majid Khan, Sanjay Sahay, Kirti Jain and Ragini Gothwal	Current Trends in Biotechnology and Pharmacy.	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
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Valorisation of Industrial Fish Waste by Isolating Trypsin: A Review.	CharuBatava, RaginiGothalwal, Manju Tembhre	International Journal of Innovative Knowledge Concepts	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
Cellulose degradation and electric flux enhancement power of indigenous bacteria from kitchen waste.	Yogita Basene and Ragini Gothalwal	Academia Journal of Biotechnology	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
Cellulases for biofuel: A review.	Ashiq Magrey, Sanjay Sahay, Ragini Gothalwal	International Journal of recent Trends in Science And Technology	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
Influence of extreme field's soil ecology on cyanobacteria diversity and abundance around Bhopal.	Sahu Shweta, Gothalwal Ragini , Yadav A.S. (2018	International Journal of scientific Research and Reviews	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
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Management of Heavy Metal Pollution by using Bacterial Biomass. International Journal of Biotech Trends and Technology	Yogeshwari Yadav, Ragini Gothalwal , RK Tenguriya	International Journal of Biotech Trends and Technology	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA
<i>In Vitro</i> Dissolution Studies and Enhanced Antimicrobial Activity of Some Antibiotics Loaded with Copper and Silver Nanoparticles in Polyvinyl Alcohol Films.	Pallav Kaushik Deshpande, NavyasaiUpputuri, Ragini Gothalwal and RamchanderMerugu	Journal of Bionanoscience	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA
Phytochemical screening of <i>Calastruspeniculatus</i> and <i>Bacopa monnieri</i> for neuroprotective capacity.	Pallav Kaushik Deshpandey and Ragini Gothalwal	Journal of Plant Science Research	2018		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA
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Electrostatic Precipitator Dust: A Source for Fungi Tolerant to Heavy Metals.	Yogeshwari Yadav and Ragini Gothwal	International Journal of Current Advance Research.	2019		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
Green Biosynthesis of metallic nanoparticle for medical diagnostic.	Swati Sharma and Ragini Gothwal	Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences (RJLBPCS)	2019		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
All climates carboxymethyl cellulose from psychrophilic fungus <i>Truncatella angustata</i> .	Ashiq Magrey, Sanjay Sahay and Ragini Gothwal	Research & Reviews: A Journal of Microbiology and Virology (RRJoMV)	2019		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
Pharmacological updates on potential phytoconstituents of genus <i>Ziziphus</i> .	Pallav Kaushik Deshpande, Shivangi Shukla and Ragini Gothwal	Indian Research Journal of Pharmacy and Science	2019		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
Phytochemical analysis and Hepatoprotective Screening of <i>Butea Monasperma</i> (LAM).	Pallav Kaushik Deshpande, Nisha Mishra, and Ragini Gothwal	Asian Journal of Research in Pharmaceutical Sciences and Biotechnology	2019		Dept. of Biotechnology Barkatullah University, Bhopal-462026 M.P., INDIA	
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Structural phase stability, mechanical and anharmonic properties of actinide sulfides: a high pressure study with the role of temperature	Shilpa Kapoor, and Sadhna Singh	Journal of Coordination Chemistry	2018		Department of Physics, Barkatullah University, Bhopal-462026 M.P., INDIA	
Phase transition and ductile behavior of $\text{Ir}_x\text{Os}_{1-x}\text{N}$ alloys from theoretical point of view	Madhu Sarwan and Sadhna Singh	Journal of Chemical Physics Letter	2018		Department of Physics, Barkatullah University, Bhopal-462026 M.P., INDIA	
Structural and elastic properties of InX ($\text{X}=\text{P}, \text{As}$ and Sb) at pressure and room temperature	Pooja Pawar and Sadhna Singh	Journal of Phase Transitions	2018		Department of Physics, Barkatullah University, Bhopal-462026 M.P., INDIA	
Structural and elastic properties of KBr at high pressure and high temperature	Shilpa Kapoor, Atul Gour and Sadhna Singh	Phase Transitions,	2018		Department of Physics, Department of Physics, Barkatullah University, Bhopal-462026 M.P., INDIA	
Theoretical prediction of high pressure structural phase transition in PuBi with NaCl structure	Namrata Yaduvanshi, Shilpa Kapoor and Sadhna Singh	Ferroelectrics,	2018		Department of Physics, Department of Physics, Barkatullah University,	

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Analysis of Structural and Elastic properties of SmS under high Pressure including Temperature effects	Shilpa Kapoor, Namrata Yaduvanshi and Sadhna Singh	Ferroelectrics	2018		Department of Physics, Department of Physics, Barkatullah University, Bhopal	
Study of Phase Transformation and Elastic properties of ThX (X = N, P, As and Sb) under High Pressure	Shilpa Kapoor, Namrata Yaduvanshi and Sadhna Singh	Molecular Physics	2018		Department of Physics, Department of Physics, Barkatullah University, Bhopal	
Role of temperature in the theoretical analysis of holmium pnictides	Purvee Bhardwaj and Sadhna Singh	Physica A	2018		Department of Physics, Barkatullah University, Bhopal	
Electronic, structural and bulk properties of ScSe: ab initio study	Purvee Bhardwaj and Sadhna	Physics of Solid state,	2018		Department of Physics, Barkatullah University, Bhopal	
Theoretical prediction of high pressure structural phase transition in LaBi with NaCl structure	Namrata Yaduvanshi and Sadhna Singh	International Journal of Theoretical & Applied Sciences	2018		Department of Physics, Barkatullah University, Bhopal	
Theoretical Analysis of High Pressure Phase Transition of Samarium Bismuthide (SmBi) with a NaCl-type structure	Namrata Yaduvanshi and Sadhna Singh	Journal of Metastable and Nanocrystalline Materials,	2018		Department of Physics, Barkatullah University, Bhopal	
Pressure induced structural phase transition in In P at room	Pooja Pawar, Shilpa Kapoor and Sadhna	Journal of Metastable and	2018		Department of Physics, Barkatullah	

temperature	Singh,	Nanocrystalline Materials,			University, Bhopal	
Structural Analysis of Rare Earth Compounds With NaCl-Structure	Purvee Bhardwaj and Sadhna	Journal of Metastable and Nanocrystalline Materials,	2018		Department of Physics, Barkatullah University, Bhopal	
Temperature and pressure investigation of $Hf_xTa_{1-x}C$ and $Zr_xNb_{1-x}C$ carbide alloys	Purvee Bhardwaj and Sadhna Singh	journal of super hard materials,	2018		Department of Physics, Barkatullah University, Bhopal	
Structural study of ScP at room temperature	Purvee Bhardwaj and Sadhna Singh	IJETMAS	2015		Department of Physics, Barkatullah University, Bhopal	
Temperature-Pressure Behavior and Equation of State of Praseodymium Pnictides	Purvee Bhardwaj and Sadhna Singh	J. of Material Science in Semiconduct or Processing	2015		Department of Physics, Barkatullah University, Bhopal	
Phase Transition and Bulk Properties of Some Polonide Compounds: A Comparative Study	Purvee Bhardwaj and Sadhna Singh	J. of Phase transitions	2015		Department of Physics, Barkatullah University, Bhopal	
Structural analysis and valence variation in Ytterbium Pnictides YbX ($X=P, As$) under high pressure	Sadhna Singh, Ritu Dubey and Purvee Bhardwaj	J. of Material Science in Semiconduct or Processing	2015		Department of Physics, Barkatullah University, Bhopal	
Pressure induced phase transition in CeN with NaCl-type structure	Ritu Dubey, Sadhna Singh	IOP Conference Series; Materials Science and	2015		Department of Physics, Barkatullah University,	

		Engineering			Bhopal	
Thermophysical Properties and structural stability of some Praseodymium Chalcogenides	Madhu Singh, Faisal Shareef M., Atul Gour, Sadhna Singh	High Temperature High Pressure	2014		Department of Physics, Barkatullah University, Bhopal	
Phase transition and structural behavior of MgO at high pressures and high temperatures	Atul Gour, Faisal Shareef M. and Sadhna Singh	Phase Transitions.	2014		Department of Physics, Barkatullah University, Bhopal	
Temperature Behaviour of Narrow-Gap Semiconductors Including Galena	Purvee Bhardwaj and Sadhna Singh	Current Applied Phys.	2014		Department of Physics, Barkatullah University, Bhopal	
High pressure phase transition and elastic properties of ytterbium compounds YbX (X=O, S, Se and Te)	Ritu Dubey and Sadhna Singh	Journal of Optoelectronic and Advanced Materials	2014		Department of Physics, Barkatullah University, Bhopal	
Analysis of Structural properties of Refractory Compounds at High Temperature and Pressure Using a Potential Model	Vasudev Thakre and Sadhna Singh	Jour of Phys and Chem of Solids	2014		Department of Physics, Barkatullah University, Bhopal	
An investigation on the structural transition and stability of some actinide nitrides under pressure	Faisal Shareef M., Purvee Bhardwaj, Sadhna Singh	Journal of Molecular Structure	2014		Department of Physics, Barkatullah University, Bhopal	
Effect of SrO termination on electron transport of MoS ₂ /SrTiO ₃ heterostructure: A DFT approach	Amreen Bano, N. K. Gaur	Applied Surface Science	2019		Department of Physics, Barkatullah University, Bhopal	
Homonuclear B ₂ /B ₃ doped carbon allotropes as a	Vanshree Parey, M. V.	Carbon	2019		Department of Physics,	

universal gas sensor: Possibility of CO oxidation and CO ₂ hydrogenation	Jyouthirmai, E. Mathan Kumar, Biswajit Saha, N. K. Gaur, Ranjit Thapa				Barkatullah University, Bhopal	
CrI ₃ -WTe ₂ : A novel two-dimensional heterostructure as multi-sensor for BrF ₃ and COCl ₂ toxic gases	Amreen Bano, Jyoti Krishna, T. Maitra, N. K. Gaur	Arxiv	2019		Department of Physics, Barkatullah University, Bhopal	
Influence of Al doping on the magnetoresistance and transport properties of La _{0.7} Ba _{0.3} Mn _{1-x} Al _x O ₃ (0 ≤ x ≤ 0.15) manganites	, Devendra K. Pandey, Anchit Modi, Kumud Dubey, Padmini Pandey, Vikash Sharma, G.S. Okram, N. K. Gaur	Journal of Magnetism and Magnetic Materials	2019		Department of Physics, Barkatullah University, Bhopal	
An ab-initio study of sensing applications of MoB ₂ monolayer: A potential gas sensor	Amreen Bano, Jyoti Krishna, Devendra K. Pandey, and N. K. Gaur	Physical Chemistry Chemical Physics	2019		Department of Physics, Barkatullah University, Bhopal	
Effect of transition metal (TM: Cr and Mn) doping on charge transport properties of ScNiBi: a density functional theory approach	Amreen Bano, N. K. Gaur	Materials Research Express	2019		Department of Physics, Barkatullah University, Bhopal	
MoB ₂ driven metallic behavior and interfacial charge transport mechanism in MoS ₂ /MoB ₂ heterostructure: A first-principles study	Amreen Bano, Devendra K. Pandey, Anchit Modi, N. K. Gaur	Scientific Reports-Nature	2018		Department of Physics, Barkatullah University, Bhopal	
Interfacial coupling effect on electron transport in	Amreen Bano, N. K. Gaur	Scientific Reports-	2018		Department of Physics,	

MoS ₂ /SrTiO ₃ heterostructure: An Ab-initio study		Nature			Barkatullah University, Bhopal	
Magnetic and transport properties driven by Sr substitution in polycrystalline Pr _{1-x} Sr _x CoO ₃ (0.1 ≤ x ≤ 0.5) cobaltites	Anchit Modi, Masroor Ahmad Bhat, Shovit Bhattacharya, G. S. Okram, N. K. Gaur	Journal of Applied Physics	2018		Department of Physics, Barkatullah University, Bhopal	
Investigation of strain effect on electronic, chemical bonding, magnetic and phonon properties of ScNiBi: A DFT study	Amreen Bano, N. K. Gaur	Materials Research Express	2018		Department of Physics, Barkatullah University, Bhopal	
Effect of Sm substitution on magnetic and magnetocaloric properties of La _{0.7-x} Sm _x Ba _{0.3} MnO ₃ (0 ≤ x ≤ 0.2) manganites	Anchit Modi, N. K. Gaur	Journal of Magnetism and Magnetic Materials	2017		Department of Physics, Barkatullah University, Bhopal	
Electro-optic response of metal halide CsPbI ₃ : A first-principles study	Amreen Bano, Preeti Khare and N. K. Gaur	Pramana-J. Phys.	2017		Department of Physics, Barkatullah University, Bhopal	
Thermal transport properties of bulk and monolayer MoS ₂ : an ab-initio approach	Amreen Bano, Preeti Khare and N. K. Gaur	Journal of Physics: Conference Series	2017		Department of Physics, Barkatullah University, Bhopal	
The thermal expansion and specific heat of solid oxide fuel cell cathode material Nd _{1-x} Sr _x CoO _{3-δ}	R Thakur, A Srivastav, R. K. Thakur, N K Gaur	Journal of Physics: Conference Series	2017		Department of Physics, Barkatullah University, Bhopal	
Variable excitation wavelength photoluminescence response and optical	Devendra K. Pandey, Anchit Modi, Padmini Pandey, N. K.	Journal of Materials Science: Materials in	2017		Department of Physics, Barkatullah University,	

absorption in BiFeO ₃ nanostructures	Gaur	Electronic			Bhopal	
Structural, magnetotransport and thermal properties of Sm substituted La _{0.7-x} Sm _x Ba _{0.3} MnO ₃ (0 ≤ X ≤ 0.2) manganites	Anchit Modi, Masroor Ahmad Bhat, Devendra K. Pandey, Tarachand, Shovit Bhattacharya, N. K. Gaur, G. S. Okram	Journal of Magnetism and Magnetic Materials	2017		Department of Physics, Barkatullah University, Bhopal	
Impact of silver substitution on the magnetotransport and thermal behavior of polycrystalline Sm _{0.55} Sr _{0.45-x} Ag _x MnO ₃ (x = 0 & 0.15) manganites	Masroor Ahmad Bhat, Anchit Modi, Tarachand, Shovit Bhattacharya, N. K. Gaur, G. S. Okram	Journal of Alloys and Compound	2017		Department of Physics, Barkatullah University, Bhopal	
Specific heat and thermal expansion effects in LaCo _{1-x} A _x CoO ₃ (A = Mg, Rh, Ti and Nb)	N.K. Gaur, Rasna Thakur, Rajesh K. Thakur	Journal of Alloys and Compound	2017		Department of Physics, Barkatullah University, Bhopal	
Elastic and thermal properties of Sr _{1-x} Y _x CoO ₃	Rasna Thakur, Rajesh K. Thakur N. K. Gaur	Phase Transition	2017		Department of Physics, Barkatullah University, Bhopal	
Structural, electrical and magnetic features of Kagome YBaCo ₄ O ₇ system	Masroor Ahmad Bhat, R. A. Zargar, Anchit Modi, M. Arora, N. K. Gaur	Materials Science-Poland	2016		Department of Physics, Barkatullah University, Bhopal	
Giant magnetoresistance and temperature coefficient of resistance in Sm _{0.55} Sr _{0.30} Ag _{0.15} MnO ₃ perovskite	Masroor Ahamd Bhat, Rayees A. Zargar, Anchit Modi, Manju Arora, N. K.	Progress in Natural Science: Materials International	2016		Department of Physics, Barkatullah University, Bhopal	

	Gaur				
Impact of nickel substitution on the structural and conduction behaviour of $\text{YBaCo}_{4-x}\text{Ni}_x\text{O}_7$ ($0 \leq x \leq 0.3$) cobaltites	Masroor Ahmad Bhat, Anchit Modi, Shovit Bhattacharya and N. K. Gaur	Applied Physics A	2016		Department of Physics, Barkatullah University, Bhopal
Role of iso-electronic Ru^{5+} in thermal transport behavior of $\text{YMn}_{1-x}\text{Ru}_x\text{O}_3$ compounds	Rajesh K. Thakur, Rasna Thakur, N. Kaurav, V. Ganesan, G.S. Okram, N.K. Gaur	Journal of Alloys and Compound	2016		Department of Physics, Barkatullah University, Bhopal
Investigation of structural and some physical properties of Cr substituted polycrystalline $\text{Eu}_{0.5}\text{Sr}_{0.5}\text{Mn}_{1-x}\text{Cr}_x\text{O}_3$ ($0 \leq x \leq 0.1$) Manganites	Anchit Modi, Masroor Ahmad Bhat, Shovit Bhattacharya and N. K. Gaur	Journal of Materials Science: Materials in Electronic	2016		Department of Physics, Barkatullah University, Bhopal
Thermodynamic properties of $\text{Ln}_{1-x}\text{Sr}_x\text{CoO}_3$ ($\text{Ln} = \text{Pr, Nd, Sm and Dy}$)	Rasna Thakur, Rajesh K. Thakur, N. K. Gaur	Journal of Alloys and Compound	2016		Department of Physics, Barkatullah University, Bhopal
Structural, electronic and magnetic properties of $\text{Sm}_{0.55}\text{Sr}_{0.45-x}\text{Ag}_x\text{MnO}_3$ ($0.00 \leq x \leq 0.10$) system	Masroor Ahmad Bhat, Kumar Devendra, Aga Shahee	Journal of Alloys and Compound	2016		Department of Physics, Barkatullah University, Bhopal
Lattice dynamics of ammonium halides	Alpna Tiwari, N. K. Gaur	Advanced Science Letters	2016		Department of Physics, Barkatullah University, Bhopal
Low temperature thermoelastic and static properties of $(\text{NaCN})_1-$	Shemim S.S, N. K. Gaur	Imperial Journal of Interdisciplin	2016		Department of Physics, Barkatullah University,

$x(\text{NaCl})_x$,		ary Research			Bhopal	
Lattice dynamics of $(\text{ND}_4\text{Br})_x(\text{KBr})_{1-x}$ mixed crystals	Alpana Tiwari, N. K. Gaur	International Journal of Materials and Metallurgical Engineering	2016		Department of Physics, Barkatullah University, Bhopal	
The effect of sintering temperature on the magneto-transport properties of $\text{Pr}_{0.67}\text{Sr}_{0.33-x}\text{AgMnO}_3$ ($0 \leq x \leq 0.1$) manganites	Masroor A. Bhat, Anchit Modi, N. K. Gaur	Journal of Materials Science: Materials in Electronic	2015		Department of Physics, Barkatullah University, Bhopal	
Thermal and elastic properties of $\text{Sr}_{1-x}\text{A}_x\text{CoO}_3$ (A = Zn and Ho)	Rasna Thakur, Rajesh K. Thakur and N. K. Gaur	Applied Physics A	2015		Department of Physics, Barkatullah University, Bhopal	
Structural, Electrical and Magnetic Phase Evolution of Cr Substituted $\text{GdMn}_{1-x}\text{Cr}_x\text{O}_3$ ($0 \leq X \leq 0.2$) Manganites	Anchit Modi, N.K. Gaur	Journal of Alloys and Compound	2015		Department of Physics, Barkatullah University, Bhopal	
Thermal properties of perovskite RCeO_3 (R = Ba, Sr)	Aarti Shukla, Vanshree Parey, Rasna Thakur, Archana Srivastava, N. K. Gaur	Thermochemica Acta	2015		Department of Physics, Barkatullah University, Bhopal	
Thermodynamic properties of Ni substituted LnCoO_3 perovskite	Rasna Thakur, Rajesh K. Thakur, Shemim SS, N. V. K. Prabhakar, Shalini Pradhan, N. K. Gaur	Advances in Physics Theories and Applications	2015		Department of Physics, Barkatullah University, Bhopal	
Cohesive and thermoelastic properties	Shemim SS, Rasna Thakur,	Advances in Physics	2015		Department of Physics,	

of $(\text{KCN})_x (\text{KCl})_{1-x}$,	N. K. Gaur	Theories and Applications			Barkatullah University, Bhopal	
Electronic and Thermoelectric Properties of Germanium Based Perovskite Halides: Potential Material for Solar Cell.	Harsha Pawar, Mahendra Aynyas, Mani Shugani and Sankar P Sanyal.	Solar Energy Material and Solar Cell	2019		Department of Physics, Barkatullah University, Bhopal	
Electronic Structure, Lattice Dynamics and Superconducting Properties of Mercury-Alkaline Earth Metal Compounds: A First-Principles Study.	Harsha Pawar, Mahendra Aynyas, Mani Shugani, and Sankar P. Sanyal,	J Superconductivity and Nov. Magnetism	2019		Department of Physics, Barkatullah University, Bhopal	
Structural Stability of Scandium Monochalcogenides ScS and ScSe Under Pressure and Superconductivity: A First Principles Study	Deepika Shrivastava, Sankar P. Sanyal	Comp. Cond. Mat.	2019		Department of Physics, Barkatullah University, Bhopal	
Structural and physical properties of Co substituted $\text{Nd}_{0.67}\text{Sr}_{0.33}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$ ($0 \leq x \leq 0.15$) ceramics,	A. Bhargav, M. Prajapat, D.S. Rana, S.P. Sanyal	J. Appl. Phys.	2019		Department of Physics, Barkatullah University, Bhopal	
Effect of Sn substitution on structural and transport properties of $(\text{La}_{0.7}\text{Sr}_{0.3})(\text{Mn}_{1-y}\text{Sn}_y)\text{O}_3$ ($0.00 \leq y \leq 0.10$) manganites,	A. Bhargav, T.M. Tank, S.P. Sanyal	J. Mater. Sci. Mater. Electron.	2019		Department of Physics, Barkatullah University, Bhopal	
Impact of Ni substitution on structural, magnetic and transport properties of $\text{Nd}_{0.67}\text{Sr}_{0.33}\text{Mn}_{1-x}\text{Ni}_x\text{O}_3$ ($0 \leq x \leq 0.15$) system	A. Bhargav, T.M. Tank, S.P. Sanyal	Journal of Magnetism and Magnetic Materials	2019		Department of Physics, Barkatullah University, Bhopal	

First Principles investigation on Structural, Electronic and Mechanical properties of some Dysprosium Chalcogenides, DyX (X=S, Se and Te)	Surendranath tripath Vipul Srivastava; H Pawar; S. P. Sanyal	Ind. J. Phy.	2019		Department of Physics, Barkatullah University, Bhopal
Signature of Ferromagnetic Phase at Low Temperature in Low-Doped La _{0.88} Ca _{0.12} MnO ₃ Single Crystal	Tejas M. Tank, M. Prajapat, D. S. Rana, A. Bodhaye, Ya. M. Mukovskii S. P. Sanyal	J Super. And Nov. Mag.	2019		Department of Physics, Barkatullah University, Bhopal
Electronic Structure and Superconducting Properties of TiX (X=Fe, Ru and Os) Intermetallic Compounds: A First-Principles Study,	Harsha Pawar, Mahendra Aynyas, Mani Shugani, and Sankar P. Sanyal	Physica B: condensed matter	2019		Department of Physics, Barkatullah University, Bhopal
Theoretical study of structural, electronic, phonon and thermoelectric properties of KScX (X=Sn and Pb) and KYX (X=Si and Ge) half-Heusler compounds	Deepika Shrivastava, Sankar P. Sanyal	Journal of Alloys and Compounds	2019		Department of Physics, Barkatullah University, Bhopal
Magnetic Properties of Ru-Doped Nd _{0.67} Sr _{0.33} Mn _{1-x} Ru _x O ₃ (0 ≤ x ≤ 0.10) Manganites	Abhinav Bhargav, Manoj Prajapat, D.S. Rana and Sankar P. Sanyal	J Superconductivity and Nov. Magnetism	2018		Department of Physics, Barkatullah University, Bhopal
Structural Phase Transition, Electronic and Lattice Dynamical Properties of Half-Heusler Compound CaAuBi,	Deepika Shrivastava, Sankar P. Sanyal	J. Alloys and Compounds	2018		Department of Physics, Barkatullah University, Bhopal
Thermoelectric properties of rare-earth based RENi ₂	Harsha Pawar, Mahendra	Journal of Magnetism	2018		Department of Physics,

(RE=Dy, Ho and Er) Laves phase Compounds.	Aynyas and Sankar P. Sanyal	and Magnetic Materials			Barkatullah University, Bhopal	
Electronic structure and superconducting behaviour of LuPtBi half- Heusler compound: A first principle study,	Deepika Shrivastava, Sankar P. Sanyal	Physica C: Superconduc tivity and its applications	2018		Department of Physics, Barkatullah University, Bhopal	
Electronic, phonon and superconducting properties of LaPtBi half- Heusler compound	Deepika Shrivastava, Sankar P. Sanyal	Solid State Communicat ion	2018		Department of Physics, Barkatullah University, Bhopal	
Localization effect of f- electron of heavier rare- earth atoms in RENi ₂ (RE= Dy, Ho and Er) Laves phase compounds	Harsha Pawar, Mani Shugani, Mahendra Aynyas, Sankar P. Sanyal,	Comp. Cond. Mat.	2018		Department of Physics, Barkatullah University, Bhopal	
Ab initio study of electronic structure, elasticity, bonding features and mechanical behavior of zinc intermetallics	Bushra Fatima, Sankar P. Sanyal	Comp. Cond. Matt.	2018		Department of Physics, Barkatullah University, Bhopal	
Structural phase transition, electronic and superconducting properties of ScBi and YBi,	Nikita Acharya, Sankar P. Sanyal	Solid State Communicat ions	2017		Department of Physics, Barkatullah University, Bhopal	
Structural, electronic and elastic properties of REIr ₂ (RE = Sc, Y and La) Laves phase compounds under pressure	D Shrivastava and S P Sanyal	Indian J Phys	2017		Department of Physics, Barkatullah University, Bhopal	
Comparative study of structural, electronic and elastic behavior of OsAl and OsSi in B2 and B20	N. Acharya and S. P. Sanyal	Indian J Phys	2017		Department of Physics, Barkatullah University,	

phases under pressure					Bhopal	
Low temperature transport anomaly in Cr substituted (La _{0.67} Sr _{0.33})MnO ₃ manganites,	Tejas M. Tank, Vilas Shelke, Sarmistha Das, D.S. Rana, C.M. Thaker, S.S. Samatham, V. Ganesan, S.P. Sanyal	Journal of Magnetism and Magnetic Materials	2017		Department of Physics, Barkatullah University, Bhopal	
Structural, electronic and elastic properties of RERu ₂ (RE = Pr, Nd and Sm) Laves phase compounds,	Deepika Shrivastava and Sankar P Sanyal	Indian Journal of Pure & Applied Physics	2017		Department of Physics, Barkatullah University, Bhopal	
Crystallographic direction dependence of electrical-transport, magneto-transport, magnetic and thermal properties of La _{0.7} Ca _{0.3} MnO ₃	Tejas M. Tank, Ashish Bodhaye, Ya. M. Mukovskii and S.P. Sanyal	Materials Research Bulletin	2016		Department of Physics, Barkatullah University, Bhopal	
Structural phase transition, electronic and elastic properties of rocksalt structure SnAs and SnSb,	Deepika Shrivastava, Shweta D. Dabhi, Prafulla K. Jha, Sankar p. Sanyal	Solid State Communication	2016		Department of Physics, Barkatullah University, Bhopal	
On possibility of superconductivity in SnSb: A first principle study,	Shweta D. Dabhi, Deepika Shrivastava, Prafulla K. Jha, Sankar P. Sanyal	Physica C: Superconductivity and its applications	2016		Department of Physics, Barkatullah University, Bhopal	
Theoretical Study of B2 Type Technetium AB (A=Tc, B=Ti, V, Nb and Ta) Intermetallic Compounds	Nikita Acharya, Bushra Fatima, Sankar P. Sanyal	Journal of Physics and Chemistry of Solids	2016		Department of Physics, Barkatullah University, Bhopal	
Theoretical Study of phase stability, Structural,	G. Pagare, J.A. Abraham and	Indian Journal of	2016		Department of Physics,	

Magnetic, Mechanical and Thermal behavior of gadolinium Based cubic AuCu ₃ structure	S.P. Sanyal	physics			Barkatullah University, Bhopal	
Structural, Electronic and Elastic properties of CeTi Intermetallic compound	Deepika Shrivastava and Sankar P. Sanyal,	Journal of Metastable and Nanocrystalline Materials	2016		Department of Physics, Barkatullah University, Bhopal	
Ab Initio Study of Structural Phase Transition and Electronic Properties in Samarium (Sm) Compounds,	Y. S. Panwar, M. Aynyas, J. Pataiya, S. P. Sanyal,	Advanced Materials Research	2016		Department of Physics, Barkatullah University, Bhopal	
High Pressure Structural and Mechanical Properties of YBi and ScBi Compounds	AK Ahirwar, M Aynyas, YS Panwar, SP Sanyal	Advanced Materials Research	2016		Department of Physics, Barkatullah University, Bhopal	
Ground State and Electronic Properties of Americium (Am) Compounds	J Pataiya, M Aynyas, C Makode, SP Sanyal	Advanced Materials Research	2016		Department of Physics, Barkatullah University, Bhopal	
Comparative Study on Multifunctional Behaviors of La _{0.7} Ca _{0.3} MnO ₃ and La _{0.7} Ca _{0.24} Sr _{0.06} MnO ₃ Single Crystals	TM Tank, A Bhargav, YM Mukovskii, SP Sanyal,	Advanced Materials Research	2016		Department of Physics, Barkatullah University, Bhopal	
First Principles Study of Structural and Electronic Properties of ErX (X= Cu, Ag and Au) Intermetallics,	M Shugani, M Aynyas, H Pawar, SP Sanyal	Advanced Materials Research	2016		Department of Physics, Barkatullah University, Bhopal	
Structural, Electronic and Elastic Properties of Neptunium Bismuthide	C Makode, M Aynyas, J Pataiya, A Singh, SP	Advanced Materials Research	2016		Department of Physics, Barkatullah University,	

(NpBi)	Sanyal				Bhopal	
Comparative study of electronic and elastic properties of Aluminium Gadolinium,	Mani Shugani, Mahendra Aynyas and S.P. Sanyal,	Journal of Metastable and Nanocrystalline Materials	2016		Department of Physics, Barkatullah University, Bhopal	
A density functional prediction on phase stability, optical, elastic and thermal properties of metallic CuZr intermetallic compound	Ekta Jain, Gitanjali Pagare and Sankar P. Sanyal	Journal of Metastable and Nanocrystalline Materials	2016		Department of Physics, Barkatullah University, Bhopal	
Structural and electronic properties of ScPt ₃ and YPt ₃ intermetallic compounds,	Nikita Acharya, Bushra Fatima and Sankar P. Sanyal,	Journal of Metastable and Nanocrystalline Materials	2016		Department of Physics, Barkatullah University, Bhopal	
Structural and electronic properties of Neptunium sulphide: An ab-initio study	Chandrabhan Makode, Mahendra Aynyas, Jagdeesh Pataiya and Sankar P. Sanyal,	Journal of Metastable and Nanocrystalline Materials	2016		Department of Physics, Barkatullah University, Bhopal	
Ab-initio investigation of structural and electronic properties of ErPb ₃ in AB ₃ structure	Shubha dubey, Gitanjali Pagare, Ekta Jain and Sankar P. Sanyal,	Journal of Metastable and Nanocrystalline Materials	2016		Department of Physics, Barkatullah University, Bhopal	
Electrical transport magnetic resistance and magnetic properties of La _{1-x} CaxMnO ₃ (x = 0.12 and 0.3) single crystal	Tejas M. Tank, Ashish Bodhaye, Yakob M. Mukovski and Sankar P. Sanyal,	Journal of Metastable and Nanocrystalline Materials	2016		Department of Physics, Barkatullah University, Bhopal	
Effect of Ru substitution on temperature coefficient of resistance and	Deepshikha Acharya, Abhinav	Journal of Metastable and	2016		Department of Physics, Barkatullah	

magnetoresistance properties of $\text{Nd}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$	Bhargav, Tejas M. Tank and Sankar P. sanyal	Nanocrystalline Materials			University, Bhopal	
Ab-initio study of structural, electronic and elastic properties of cobalt intermetallic compounds	Nikita Acharya, Bushra Fatima, Sunil Singh Chouhan, Sankar P. Sanyal	Computational Materials Science	2015		Department of Physics, Barkatullah University, Bhopal	
Ab-initio study of structural, electronic, elastic and mechanical properties of $\text{RuAl}_{1-x}\text{Gax}$ ($x=0, 0.25, 0.50, 0.75$ and 1),	Bushra Fatima, Sunil Singh Chouhan, Nikita Acharya and Sankar P. Sanyal,	Journal of Physics and Chemistry of Solids,	2015		Department of Physics, Barkatullah University, Bhopal	
Lattice dynamical properties of neptunium chalcogenides	Mahendra Aynyas, Balwant S Arya, Aditi Rukmangad and Sankar P. Sanyal	Indian Journal of Pure and Applied Physics	2015		Department of Physics, Barkatullah University, Bhopal	
Density functional investigation on electronic structure and elastic properties of BeX at high pressure	G Pagare1, E Jain and S P Sanyal	Indian Journal of physics,	2015		Department of Physics, Barkatullah University, Bhopal	
Structural and Electronic properties of XSi_2 ($X=\text{Cr, Mo and W}$),	Mani Shugani, Mahendra Aynyas and S.P Sanyal	Journal of Experiment and Theoretical Physics	2015		Department of Physics, Barkatullah University, Bhopal	
<u>Theoretical investigation on structural, magnetic and electronic properties of ferromagnetic GdN under pressure.</u>	V Srivastava, M Rajagopalan, SP Sanyal	Journal of Magnetism and Magnetic Materials	2015		Department of Physics, Barkatullah University, Bhopal	
High pressure structural phase transition and	A Singh, V Srivastava, M	Physica B: Condensed	2015		Department of Physics,	

elastic properties of yttrium pnictides,	Aynyas, SP Sanyal	Matter			Barkatullah University, Bhopal
High-pressure behaviour and elastic properties of heavy rare-earth Gd monopnictides,	G Pagare, P Soni, V Srivastava, SP Sanyal,	Journal of Physics and Chemistry of Solids	2015		Department of Physics, Barkatullah University, Bhopal
<u>High pressure behavior and structural properties of transition metal carbides,</u>	A Singh, M Aynyas, SP Sanyal,,	Phase transitions	2015		Department of Physics, Barkatullah University, Bhopal
Study of structural, transport and magneto-resistive properties of $\text{La}_{0.7}\text{Ca}_{0.3-x}\text{Ce}_x\text{MnO}_3$ ($0 \leq x \leq 0.2$),	A Khare, A Bodhaye, D Bhargava, RJ Choudhary, S P Sanyal	Physica B: Condensed Matter	2015		Department of Physics, Barkatullah University, Bhopal
High pressure behavior of alkaline earth tellurides	BS Arya, M Aynyas, SP Sanyal,	Indian Journal of Physics	2015		Department of Physics, Barkatullah University, Bhopal
Study of high pressure behavior and elastic properties of praseodymium monochalcogenides and monopnictides,	P Soni, G Pagare, V Srivastava, SP Sanyal	Phase transitions	2015		Department of Physics, Barkatullah University, Bhopal
First principles calculations of Al- rich RE (RE= Ho, Er, Tm and Yb) intermetallic compounds	V Srivastava, G Pagare, SP Sanyal, M Rajagopalan	Physica Status Solidi (b)	2015		Department of Physics, Barkatullah University, Bhopal
Electronic and elastic properties of alkali-metal sulphides-Li₂S and Na₂S	P Pandit, B Rakshit, S P Sanyal,	Ind. J. Pure & Appl. Phys.	2015		Department of Physics, Barkatullah University,

					Bhopal	
Phase transition and high pressure behavior of Zirconium and Niobium carbides,	A Singh, M Aynyas, S Sanyal,	Open Physics	2015		Department of Physics, Barkatullah University, Bhopal	
High Pressure Phase Transition and Elastic Properties of AnAs (An= Th, U, Np, Pu) Compounds,	BS Arya, M Aynyas, SP Sanyal	Journal of optoelectronics and advanced materials	2015		Department of Physics, Barkatullah University, Bhopal	
First-principles lattice dynamical study of ScAs and ScSb at zero and high pressure,	B Rakshit, SP Sanyal, M Celino,	Solid State Communications	2015		Department of Physics, Barkatullah University, Bhopal	
Condensed Matter: Electronic Structure, Electrical, Magnetic and Optical Properties- Electronic and elastic properties of alkali-metal sulphides-Li₂S and Na₂S,	P Pandit, B Rakshit, SP Sanyal,	Indian Journal Of Pure & Applied Physics	2015		Department of Physics, Barkatullah University, Bhopal	
Theoretical prediction of the electronic structure, bonding behavior and elastic moduli of scandium intermetallics,	Bushra Fatima, Sunil Singh Chouhan, Nikita Acharya and Sankar P. Sanyal,	Intermetallics	2014		Department of Physics, Barkatullah University, Bhopal	
Ab-initio study of structural, electronic and elastic properties of cobalt intermetallic compounds	Nikita Acharya, Sunil Singh Chouhan, Bushra Fatima, and Sankar P. Sanyal	Computational Materials Science	2014		Department of Physics, Barkatullah University, Bhopal	
Theoretical calculations of structural, electronic, optical, elastic and thermal properties of YX ₃	Jisha Annie Abraham, Gitanjali Pagare, Sunil Singh	J Mater Sci	2014		Department of Physics, Barkatullah University,	

(X = In, Sn, Tl and Pb) compounds based on density functional theory	Chouhan and Sankar P. Sanyal				Bhopal	
Electronic and high pressure elastic properties of RECd and REHg (RE=Sc, La and Yb) intermetallic compounds,	Hansa Devi, Gitanjali Pagare, Sunil Singh Chouhan and Sankar P. Sanyal	Journal of Physics and Chemistry of Solids	2014		Department of Physics, Barkatullah University, Bhopal	
Phonon Anomalies in Zirconium Nitride (ZrN),	Poonam Mishra, Mahendra Aynyas and Sankar P. Sanyal,	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
Ab Initio Study of pressure induced structural, Magnetic and Electronic properties in Plutonium Pnictides	Chandrabhan Makode, J. Pataiya, M. Aynyas and Sankar P. Sanyal	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
Pressure induced phase transition and elastic properties of alkaline earth mono-sulphide	Balwant Singh Arya, Mahendra Aynyas, Ashok Kumar Ahirwar and Sankar P. Sanyal	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
Structural, electronic, elastic and mechanical properties of ScNi, ScPd and ScPt: A FP-LAPW study,	Bushra Fatima, Sunil Singh Chouhan, Nikita Acharya and Sankar P. Sanyal,	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
First principle calculations of pressure induced structural and electronic properties in Americium MonoChalcogenides	J. Pataiya, Mahendra Aynyas, Chandrabhan Makode, Archana Singh and Sankar P.	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	

	Sanyal					
First principle study of electronic and elastic properties of AIY,	Mani Shugani, Mahendra Aynyas and S.P.Sanyal,	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
Study of Structural, electronic and elastic properties of LuPd ₃ compound	Veena Thakur, Gitanjali Pagare, Sunil S. Chouhan and S. P. Sanyal,	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
First principle study on structural, electronic, elastic and thermal properties of OsAl and OsSi	Nikita Acharya, Bushra Fatima, Sunil Singh Chouhan and Sankar P. Sanyal,	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
Pressure effect on structural and phonon properties of mixed alloys compounds	Ashok K. Ahirwar, Mahendra Aynyas, and S. P. Sanyal,	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
Influence of Mn site substitution on electrical resistivity and magnetoresistance properties of rare earth manganite	Tejas M. Tank, D. Bhargava, V. Sridharan, S. S. Samatham, V. Ganesan and S. P. Sanyal	Advanced Materials Research	2014		Department of Physics, Barkatullah University, Bhopal	
Theoretical calculations on molar heat capacities of MgRE intermetallics using first-principles calculations	Afroz A. Khan, Vipul Srivastava, M. Rajagopalan and Sankar P. Sanyal,					

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the	Title of	Year of publicatio	h-	Number of	Institutional affiliation as
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	author	the journal	n	index	citations excluding self citations	mentioned in the publication
Effects of Exogenous Oxytocin and Atosiban Antagonist on GABA in Different Region of Brain.	Pratibha Thakur, Renu Shrivastava and Vinoy K. Shrivastava	IBRO Report (Elsevier) (International)	2019	4 (Scopus)	1	Endocrinology Unit, Bioscience Department, Barkatullah University, Bhopal

Scopus

Total publication= 229

Total citation= 68

Total h-index= 7.6

3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	18	49	27	33
Presented papers	16	29	06	02
Resource Persons	07	18	10	05

3.5 Consultancy

3.5.1 Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
NA	NA	NA	NIL

3.5.2 Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees
NA	NA	NA	NIL	NA

3.6 Extension Activities

3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers coordinated in such activities	Number of students participated in such activities
Speech Competition	Department of Arabic	1	6
Gardening	Department of Arabic	1	4
Voting Awareness Program	NSS	10	100
Yoga for Holistic Health	Jointly Organized by Women's Studies Department and Yoga Department , Barkatullah University, Bhopal	08	40
Invited lecture on "Gender in Everyday life: Sharing a common world"	Organized by Women's Studies Department, Barkatullah University Bhopal on the Occasion of International Women's Day, 8 th March, 2019	10	100
Health camp	Women's studies Department in collaboration with NSS	05	200
Special Lecture on "Health and Nutrition"	Women's Studies Department , Barkatullah University , Bhopal on 6 th Feb 2019	04	75
Film Screening and Discussion On "Gender Based Issue"	Women's Studies Department , Barkatullah University , Bhopal on 11 th May, 2019	04	50

3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
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3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Swachh Bharat	Department of Pharmacy	Clean Campus	all	150
Gandhi 150'	Department of	Debate competition	all	155

	Pharmacy	Poster Presentation		
Pharmacist Day	Department of Pharmacy	Debate, quiz, rangoli and poster competition. Awareness camp organized	all	180
Green India	Department of Pharmacy	Plantation and collection of seeds of extinct species of Plant	all	140
National Unity day	Department of Pharmacy	pledges taking ceremony, poster and quiz competitions	all	160
<ul style="list-style-type: none"> • Plantation • Swachh abhyan 31st August 2018. • Pipal Plantation 16 July 2019 • Guest Faculty & Student attend the skill development programme. 	Department of Arabic			
Swachh Bharat	B.V.V Bhopal	02	04	20
Swachh Bharat	Department of Persian		01	07
Tree Plantation in the premises	Regional Planning and Economic Growth Department		04	20
Cleanliness and Plantation drive	Dept. of Computer Science & Applications, B.V.V., Bhopal	Cleanliness and Plantation	03	07
	Department of Physics	Swachh Bharat	2	39
Blood Donation	Govt. Hamidia hospital blood bank	Blood Donation Awareness,	02	150

3.7 Collaborations					
3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year					
Nature of Activity		Participant	Source of financial support	Duration	
Chalcogenides Dichalcogenides, carbon and oxide nanostructures for thermal energy harvesting.		1. Dr. Vilas Shelke (BU) PI 2. Ajay Singh (BARC, Mumbai), PC 3. Dr. Shovit Bhattacharya (BARC Mumbai) CI	BRNS, DAE	3 years (2016-19)	
Skill development		Students & Guest Faculty	B. U. Bhopal	16 to 19 July	
Training		26	-		
3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year					
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant	
PG Dissertation (Zoology & Applied Aquaculture Deptt.)		Govt. Holkar College Campus Indore	July-Dec	Abhilasha Alone	
PG Dissertation (Zoology & Applied Aquaculture Deptt.)		National Institute of Oceanography ,Dona Paula, Goa	July-Dec	Vivek Priyadarshi	
PG Dissertation (Zoology & Applied Aquaculture Deptt.)		Contai III Development Block, under the Directorate of Fisheries, Govt. of West Bengal	July-Dec	S K Armaan Uddin	
PG Dissertation (Zoology & Applied Aquaculture Deptt.)		Contai III Development Block, under the Directorate of Fisheries, Govt. of West Bengal	July-Dec	Atanu Mahakur	
PG Dissertation (Zoology & Applied Aquaculture Deptt.)		Contai III Development Block, under the Directorate of Fisheries, Govt. of West Bengal	July-Dec	Ananda Pradhan	

PG Dissertation (Zoology & Applied Aquacultur e Deptt.)		ST Anthony's College Department of Fishrey, Shillong	July- Dec	Rickystar
PG Dissertation (Zoology & Applied Aquacultur e Deptt.)		ICAR-CIFRI Barrackpore Kolkatta	July- Dec	Arunima Parshar
PG Dissertation (Zoology & Applied Aquacultur e Deptt.)		ICAR-CIFRI Barrackpore Kolkatta	July- Dec	Surabhi Datta
Training (Deptt. of Pharmacy)	Industry Visit	Ultra Drug limited	17/2/201 9 to 22/2/201 9	40 students along with two teachers
Training (Deptt. of Pharmacy)	Industry Visit	Venus Pharmaceutical Baddi	17/2/201 9 to 22/2/201 9	40 students along with two teachers
Clinical training & project work(Deptt. of Psychology)		COMPOSITE REGIONAL CENTER (CRC) FOR PERSONS WITH DISABILITIES, BHOPAL	15 Days	15
		BHEL Bhopal	15 days	1. Shivam Tiwari 2. Shikha Singh 3. Anshuman Sharma

3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
1. CEDMAP, Bhopal	22/06/19	Skill Development in Students	Under process
2. ICAR-IISS, Bhopal	June, 2019	For Research	
3. AIIMS, Bhopal	June, 2019	For Research	

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES						
4.1 Physical Facilities						
4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year 2018-19						
Budget allocated for infrastructure augmentation			Budget utilized for infrastructure development			
17.96 Cr			1.24 Cr			
4.1.2 Details of augmentation in infrastructure facilities during the year						
Facilities	Existing		Newly added			
Campus area	400 acres					
Class rooms	102		-			
Laboratories	73		01			
Seminar Halls	16+4 (Lecture Theatre)		01			
Classrooms with LCD facilities	16		02			
Classrooms with Wi-Fi/ LAN	25		02			
Seminar halls with ICT facilities	14		01			
Video Centre	01		01			
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	02		01 CO ₂ Incubator			
Value of the equipment purchased during the year (Rs. in Lakhs)	12,62,440=00		369930=00			
Others (minor)			1200000=00			
4.2 Library as a Learning Resource						
4.2.1 Library is automated { Integrated Library Management System (ILMS) } Yes						
Name of the ILMS software	Nature of automation (fully or partially)		Version		Year of automation	
E-Granthalay From NIC	Partially		e-Granthalaya 4.0		2018-19	
4.2.1 Library Services:						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value Value
Text Books	80000 approx.	975864	360 approx.	40280 2.48	803620 =00 approx.	13,78,666=00
Reference Books	6136				6136	
e-Books	3782	freely avail	500	freely avail	4282	freely avail
Journals	22				22	
e-Journals	4		1		5	
Digital Database	15				15	
CD & Video	50				50	
Library automation	yes		yes		yes	
Weeding (Hard & Soft)	NA	NA	NA	NA	NA	NA

Others (specify)			
4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc			
Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
Prof.Sadhna Singh	PrashthaTanav (Part –I) PrashthaTanav (Part –II)	Emprc MPBOU Physics (you tube)	01 st May 2015
Prof. Dinesh Nagar	Module on Psychology and management	Emprc, MPBOU Psychology (you tube)	31 st March 2015
Registrar BU BPL	‘Shodhganga’ Anti plagiarism & Repository of Ph.D. Thesis	INFLIBNET Centre	04 th July 2018
Dr.KishorShende	Bioinformatics of M.Sc. Syllabus	Free Google Shared drive and Free Google Web site	on air

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	398	20	Leased line & Broadband	All Depts.	01	01(Satyabhawan)	25	100MBPS	Fully Wifi Campus
Added									
Total	398	20	Leased line & Broadband	All Depts	01	01(Satyabhawan)	25	100MBPS	Fully Wifi Campus

4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

Leased Line of **100 MBPS** by NKN/NIC with 16 Static IPs

WiFi facility by **82Broad band** Connections with **4-16 MBPS**

4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Google drive: SUB-DIC Bioinformatics Centre	https://drive.google.com/drive/folder/0B_

	Hr1RE5L26XLVJHWEZ4bWV3VUU
You tube: EMPRC, MPBOU , EDUSAT, PrashthaTanav Part 1	https://www.youtube.com/watch?v=mtCFTf0ZcB0
You tube: EMPRC, MPBOU, EDUSAT, PrashthaTanav Part 2	https://www.youtube.com/watch?v=zTBX6024iCo
You tube: EMPRC, MPBOU, EDUSAT, Leadership Part 1	https://www.youtube.com/watch?v=toR-DUMVvAI

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
77.71 Cr	65.98 Cr	17.96 Cr	1.24 Cr

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

RESPONSE:

There are well establish system for maintaining and utilizing physical, academic and support facilities like laboratories, library, sport complex, computers, classrooms etc. The maintainance of all the properties of the universities, including buildings of teaching department, Hostels, administrative block, Class rooms, laboratories, computer lab, water management system facility, electric facility, Road and gardening is done by the collaboration of University Engineering department, store and account section of the university. There is a separate engineering office govern by university engineers and officers.

On the basis of funds allocation in particular head (UGC grant received by Development section under the head of Maintainance of physical, academic and supports facilities) , the work of engineering office is to look after the repair and maintainance of the university buildings. Repairing and maintainance of building as well as support facilities is done by coordination with the development, store and account section of the university.

Store section keeps maintaining the record of academic facility like, Scientific or Non- scientific Instruments, Furniture, computers, laboratories minor instruments, chemicals etc. For procurement of major equipment for UTD is being done by e- tendering for repairing or purchasing above said requirements. All the laid down procedure governs by General Finance Rules from central / state purchase rules as per approval from finance officer of university. Most of the Computers and Instruments maintainance done through Annual Maintainance Contract (AMC) or similar other process. Customs duty exemption certificate is issued for any equipment imported by the university.

Barkatullah University Bhopal is also known for its greenery. The green initiative of the university and Maintainance of garden, parks and lawns of the universities is also done by gardeners, caretakers to assist the head in the upkeep and Maintainance of the building infrastructure. The routine daily cleanness and securities of the central offices, departments, hostels and staff building is done through private agencies staff.

Well stocked central library is the landmark place of Barkatullah university. There are 75000+ books, almost 6000 references Books, 3000 research magazines, 3782 e books, 5703 thesis and 60 Sanskrit

MSS. This central library is maintaining and governs by permanent university staff. Except the central library there are also separate library in most of the university teaching department. ICT infrastructure at the university is maintained and governed by its own university teaching department. There are one computer center having PG courses offered for the student of Computer science and Information technology.

With the help of University Engineering department, development, store and account section of the university, maintaining the university sports facilities includes Gymnasium, and Game fields and also other types of facilities like well equipped one museum, Health Center; Psychological Counseling Center mechanical workshop; Cultural Hall and an auditorium. 4 girls common rooms, Banking and Post Office facilities.

CRITERION V - STUDENT SUPPORT AND PROGRESSION					
5.1 Student Support					
5.1.1 Scholarships and Financial Support					
	Name /Title of the scheme	Number of students	Amount in Rupees		
Financial support from institution Govt.M.P	Post Metric Scheme,	234	11,726070		
	MedaviChatravartiy ojana	31	93000		
Financial support from other sources					
a) National	SRF/ PDF UGC	06	176000		
b) International					
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc., Nil					
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved		
Remedial coaching	26.12.18	22	Dept of Zoology and applied aquaculture		
NET coaching	1.06.19	40	Barkatullah University		
3 days Meditation Workshop	4.09.18 To 06.09.19	190	Heartfulness Meditation Institute		
Sports	15.05.19 to 30.06.19	43	Purushottam Swimming pool, BHEL		
5.1.3 Students benefited by gui, dance for competitive examinations and career counselling offered by the institution during the year Nil					
Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
	Yes (Over all 4 students counselled)				
	<ol style="list-style-type: none"> 1. A 27 years female (Sociology Department- visited on 06.07.18) 2. A 32 years female (Psychology Department- visited on 27.11.18) 3. A 22 years female (Psychology Department- visited on 15.03.19) 4. A 24 years male (Psychology Department- visited on 22.03.19) 				
5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year					
The university has constituted committee for redressal of grievances related to examination and research at university level for all colleges affiliated to BU. In addition anti ragging committee /squad is duly					

constituted to look after the issue of ragging/harassment/misbehaviour and other related issues.		
Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
Lokadalat, Jansunvai,	8	21
Anti-ragging	4	21

5.2 Student Progression

5.2.1 Details of campus placement during the year Nil

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
TCS		3			-
TRIDENT		2			-
INFOSYS		10			-
HCL		1			-
WIPRO		3			-
SSC CHSL		1			-
Misc.		-			50
Total		20			50

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-19	03	M.A.	Arabic Dep.	Arabic Dep.& Tehran University	PhD
	11	MFSc.	Dept of Zoology and Aquaculture	Aquaculture Dept.	PhD
	01	M.Tech. Material Science	Mechanical Engineering	NIT, Rourkela	PhD

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	9	Anwar HussainRana Amjad Ahmed SangeetaMohapatra (LS)
NET (PHYSICAL EDU.)	1	AkshayLodhi(PHY EDU.)

SET	2	
SLET		
GATE	27	Rahul Gupta (CSE) Jay prakashPatidar (CSE) Vishal Jain (CE) Anushree Das(CE) Ayushi Patel(CE) MintuYAdav (CE) ShubhanKawde (ELX) Rajesh Kumar (ELX) ShubhanshuChaturvedi (ME) Farhan Kahn (ME) AakashMalviya (ME) ShubhamMalviya (ME)
GMAT		
CAT	03	Ms VaidehiLelapure
GRE	04	Arshad Bagodiya (CSE)
TOFEL	02	PrathameshKhare
Civil Services		
State Government Services		
Any Other (ICAR-SRF)	02	

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants
Sports and cultural	UTD	1350
Poster	UTD	55
Quiz	UTD	24
Essay Writing	UTD	22
Debate	UTD	08
	Total:	1459

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number/class	Name of the student
2018	PankajVikram Award	State Govt.	Football		MPEd II	KalyaniMahap atra
2018	18 th Asian Games Held Jakarta	International	Taekwond		MPEd II	Latika Bhandari

	Indonesia		o			
2018	Bronze	All India Inter University	Wresting		---	Manoj Kumar
2018	Silver	world shooting Para Sports	Shooting		BPEd I	Harshit Tiwari
2018	Qualify for All India Inter University	West Zone Inter University	Hockey (W)		--	BU Hockey Team
2018	Qualify for All India Inter University	West Zone Inter University	Tennis (M)		--	BU Tennis Team
2018	Gold	West Zone Inter University	Cricket (M)		--	BU Cricket Team
2018	Gold	All India Inter University	Rope Skipping (W)		--	BU Rope Skipping Team
2018	Silver	All India Inter University	Rope Skipping (M)		--	BU Rope Skipping Team
2019	Silver	All India Inter University	Boxing (W)		BPES II Year	Gigyasa Rajput
2019	Silver	All India Inter University	Boxing (W)		--	DivyaPawar
2019	Gold	All India Inter University	Taekwond o		MPEd II	Latika Bhandari
2019	National Camp	International	Boxing		BPES II Year	Gigyasa Rajput
2019	Referee	International	Taekwond o		BPEd III	Rohan Kushwah

Participation in West Zone Interuniversity Tournaments 2018-19

S.No.	Games	Date of Tournament	Organizing University
01.	Basketball (Men)	15/10/2018 – 19/10/2018	Dr.B.A.M.University Aurangabad(Marathwada)
02.	Handball (W)	29/10/2018 - 01/11/2018	SavitriBaiPhulePuna University
03.	Hockey (M)	02/11/2018 – 05/11/2018	LNIFE Gwalior
04.	Badminton (M)	12/11/2018 – 16/11/2018	SRTM University Nanded
05.	Kabaddi (W)	10/11/2018 – 14/11/2018	SRTM University Nanded

06.	Volleyball (M)	18/12/2018 – 21/12/2018	Tantia University Sri Ganga Nagar
07.	Basketball (W)	20/12/2018 – 24/12/2018	LNIFE Gwalior
08.	Handball (M)	17/12/2018 – 21/12/2018	Solapur University Solapur
09.	Tennis (M)	14/12/2018 – 18/12/2018	M.L.S.U. Uni. Udaipur
10.	Kho-Kho (M)	21/12/2018 – 24/12/2018	University of Mumbai
11.	Cricket (W)	30/01/2019 – 06/02/2019	RTM University Nagpur
12.	Football(W)	29/12/2019 – 02/01/2019	ITM University Gwalior
13.	Cricket (M)	19/12/2018 – 30/12/2018	V.N.S. G. University Surat
14.	Chess(M/W)	29/11/2018 – 03/12/2018	Dr.P.D.K.Vidhyapeeth Akola
15.	Kabaddi(M)	26/11/2018 – 30/11/2018	Shivaji University Kolhapur
16.	Football (M)	11/12/2018 – 21/12/2018	University of Mumbai
17.	Volleyball (W)	12/12/2018 – 15/12/2018	IIS University Jaipur
18.	Hockey (W)	09/11/2018 – 13/11/2018	LNIFE Gwalior
19.	Kho-Kho (W)	19/11/2018 – 22/11/2018	K.B.C. North MaharashtraJalgaon
20.	Table-Tennis (w)	13/11/2018 – 16/11/2018	K.B.C. North MaharashtraJalgaon
21.	Table-Tennis (M)	20/11/2018 – 23/11/2018	SRTM University Nanded
22.	Badminton (W)	12/10/2018 – 15/10/2018	Dr. P.D.K. Vidyapeeth Akola

Participation in All India Interuniversity Tournaments 2018-19

S.No.	Games	Date of Tournament	Organizing University
क्र.	खेलकानाम	प्रतियोगिताकिदिनांक	आयोजकविश्वविद्यालयकानाम
1.	Cross-Country(M/W)	04/10/2018	Gulbarga Uni. Kalaburagi Karnataka
2.	Aquatics (M)	28/10/2018 – 31/10/2018	Jain University Bangalore
3.	Softball (M)	31/10/2018 – 04/11/2018	SRTM University Nanded
4.	Aquatics (W)	02/11/2018 – 04/11/2018	V.T.U. Belagavi Town Bangalore
5.	Shooting (M)	31/10/2018 – 05/11/2018	Panjab University Chandigarh

6.	Wrestling (W) Free Style	02/11/2018 – 05/11/2018	Dr.B.A.M. University Aurangabad
7.	Hockey (W)	26/12/2018 – 29/12/2018	KIIT University Bhubaneshwar
8.	Rope Skipping(M/W)	26/12/2018 – 29/12/2018	KIIT University Bhubaneshwar
9.	Ball Badminton(M)	12/12/2018 – 16/12/2018	SRM University Chennai
10.	Yoga (M/W)	04/02/2019 – 08/02/2019	University of Madras
11.	Cricket (M)	03/02/2019 – 13/02/2019	KIIT University Bhubaneshwar
12.	Boxing (W)	27/01/2019 – 31/01/2019	JRN Vidyapeeth Udaipur
13.	Ballbadminton (W)	09/01/2019 – 13/01/2019	Krishna University Vijaywada
14.	Fencing (M)	08/01/2019 – 11/01/2019	GNDU University Amritsar
15.	Judo (M)	27/12/2018 – 29/12/2018	GNDU University Amritsar
16.	Judo (W)	10/12/2018 – 12/12/2018	Panjab University Chandigarh
17.	Gymnastics (M)	13/11/2018 – 15/11/2018	Panjab University Chandigarh
18.	Malkhamb (M)	13/11/2018 – 15/11/2018	Panjab University Chandigarh
19.	Gymnastics (W)	17/11/2018 – 19/11/2018	Panjab University Chandigarh
20.	Weight Lifting & Best Physique(M)	17/11/2018 – 20/11/2018	University of Calicut
21.	Athletics (M/W)	24/11/2018 – 28/11/2018	Mangalore University
22.	Wrestling free Style/Greco. Roman(M)	14/11/2018 – 18/11/2018	ChoudharyBansiLal Uni. Bhiwani
23.	Power Lifting (M)	20/12/2018 – 23/12/2018	University of Calicut
24.	Tennis (M)	20/02/2019 – 23/02/2019	S.R.M. University Chennai
25.	Softball (W)	02/03/2019 – 05/03/2019	University of Calicut
26.	Boxing (M)	21/02/2019 – 28/02/2019	JRN Vidyapeeth Udaipur
27.	Karate (M/W)	20/02/2019 – 25/02/2019	M.D.U. Rohtak
28.	Taekwondo (M)	09/03/2019 – 12/03/2019	M.D.U. Rohtak
29.	Taekwondo (W)	14/03/2019 – 17/03/2019	M.D.U. Rohtak
30.	Wushu (M/W)	12/03/2019 – 16/03/2019	Punjab University Chandigarh
31.	Baseball (M)	14/02/2019-18/02/2019	Panjabi University Patiala
32.	Baseball (W)	14/02/2019-18/02/2019	Panjabi University Patiala

Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

In year 2018-19, election of student council has not been taken place

5.3 Alumini Engagement:

5.3.1 Whether the Institution has registered Alumini Association? Yes/No if yes give details (maximum 500 words): Yes (Applied for registration)

5.3.2 Number of Registered / Enrolled Alumni: 18

5.3.3 Alumni contribution during the year (in Rupees) :NIL

5.3.4 Meetings/activities organized by Alumni Association :

One Meeting is organized during this year. (Please see Annexure – V-A)

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

VISION STATEMENT:

To develop the university into a world-class centre of excellence in the field of education through value-based education training and skill development and innovative research.

To become leading institution of academic to produce competent professional of high values commensurate with the requirement of the national economy.

To develop human resource for furtherance of knowledge through teaching, research and innovation and ranked amongst the top educational institutions of the world for the better service to the humanity in general and our nation in particular.

Mission statement:

The mission of the University is, to be a University driven by values enriched with diverse cultures, to promote economic, social and spiritual advancement for an egalitarian society.

To impart holistic education using state of the art technology and to give a global perspective through value based education for social transformation.

To Inspire and empower the students to become innovative leaders, contribute to the success of organizations and betterment of communities.

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The University practices decentralized and participative management approach in all its activities, initiatives and decision making by involving Deans, HoDs and faculty members at all levels.

The various committees are in place to review the progress in various functions and accordingly take necessary timely action for ensuring excellence in respective areas.

The culture of participative management is promoted by the University involved in decision making at various levels.

The University has a well laid down structure supported by qualified and competent teams- The administrative and academic responsibilities are decentralized to provide effective educational leadership for effective implementation & monitoring of various policies, regulations & guidelines at various levels. Important among them are Dean Student Welfare (DSW), Dean College Development Council (DCDC), and Examination Controller. The role of DSW to look after all the matters related to student's welfare and organizing cultural activities like Youth Festival at University, Inter University, Zone and finally upto National Level. The DCDC is an independent authority of the university to look after all the matters related to the development of all affiliated colleges related to University. This includes the inspection various courses offered by the colleges, appointment of the faculty in the colleges and other related work for the development of the college. The Examination Controller look after all the work related examination process viz. scheduling of the examination time-table, examination centre allotment, preparation of question papers, all aspects of conduct of examination, valuation of answer

books and finally declaration of examination results. It may be pointed out here that that the evaluation of the answer books have been conducted Barkatullah University Leeds Colleges identified by the University in order to declare the result as early as possible.

INVOLVEMENT OF STAKEHOLDERS' IN THE REVIEW PROCESS

Institution identify eminent experts to integrate their feedback while defining curriculum/ programme. The stakeholders' involved are:

- (i) Faculty members
- (ii) Students
- (iii) Industry experts
- (iv) External subject experts
- (v) Experts from research organizations coopted members .
- (vi) Alumni
- (vii) Parents

6.1.2 Does the institution have a Management Information System (MIS)?

Yes/No/Partial:

Partial

The various circulars, notifications, notices, letters are displayed on the official website of the University. Information related to administrative issues are also communicated through e-mail and whatsapp groups. Decision of committees like Executive Council, Academic Council, Board of Studies, Standing Committee of Academic Council etc. are also circulate to the concerned Department as per requirements.

In addition of the above the Internal Quality Assurance Cell of Barkatullah University, also well connected to all the University Teaching Departments and Administrative bodies to receive all kind of information including financial, developmental, innovative, confidential and academic & research.

The University has well established IT Cell and look after all matters related to online process in collaboration with MP Online. This is how the IT cell of the university keeping and maintaining all data / information pertaining to students and other official process. The Website of the University is also maintained by the IT Cell of the University.

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Curriculum Development

Barkatullah University have Board of Study Committees in all the subjects for Curriculum design and development. In addition the Department of Higher Education also constituted Central Board of Study Committee for Curriculum development both for UG and PG courses. The regular meetings of both the Board of Studies conducted from time to time for Curriculum development and deployment. In June 2019, Choice Based Credit System (CBCS) was introduced for all PG level courses in University Teaching Department for which the scheme and the syllabus was framed by concerned Board of Study for the courses running in University Teaching Departments.

<p>Teaching and Learning</p> <p>Regular teaching of all the courses are going on as per the Academic schedule of the university. The faculty covers the syllabus within the stipulated period but in case if the syllabus is not covered due to any undefined reason, the course is covered by engaging the remedial classes by the faculty. The teaching is done both by Black Board and Audio-Visual aid including Smart Classrooms. As far as learning is concerned the students have been given assignments and project work as a part of their curriculum and are exposed to various seminars, symposia, workshops, and training programme from time to time. Fieldwork is also conducted as a part of curriculum in some of the courses as requirement of the subject.</p>
<p>Examination and Evaluation</p> <p>The performance of the students are evaluated both by Internal and External examination, scheduled by Confidential Section of the University. The assignments given to students are evaluated by the internal faculty members besides the practical examination in science subjects. For external examination the answer sheets are given bar codes to maintain confidentiality of the students. All the answer books are evaluated both by Central Valuation and by sending the answer books to examiners with coding and decoding system. Attempts are made to maintain all possible level of confidentiality and to maintain the academic schedule of the university.</p>
<p>Research and Development</p> <p>The students are admitted to Ph.D. programmes available in different subjects through online process, followed by written test on OMR sheet. The successful candidates given seat as per the concerned Ph.D. Ordinance of the university. A care has been taken while finalizing the Research Topic in RDC, that it should be of applied nature and have relevance for the development of the society. To encourage the research in the subject, the IQAC of Barkatullah University has organized a Research Seminar exclusively for the Research Scholars of the University Teaching Departments during this academic year.</p> <p>In order to encourage the research and development, the Barkatullah University provides funding to the projects submitted by faculty members in different subjects.</p> <p>In addition the students are also given the scholarship for their research work by the university.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p> <p>Beside the Central facility of library, every department in the University has its departmental library. The Central Library is well equipped with WiFi facility and furnished reading rooms for the students. The Central Library consist of about 89866 books with about 1500 titles. During this academic year books worth of Rs. 5 lac have been ordered in different subjects.</p> <p>In Science, Life Science, Technology and Engineering Faculty, every department is equipped with the instruments useful for classroom teaching/practical and research purposes. In addition the University has its own central instrumentation facility known as USIC.</p>
<p>Human Resource Management</p> <p>The field of specialization of the faculty members have been used as Human Resources of</p>

the University. Faculty members provides consultancy and give popular lectures on different themes of science and society development programme. The Yoga Department of the University running the yoga classes for the citizens of Bhopal on regular basis.00000000

Industry Interaction / Collaboration

Many Departments of Barkatullah University have linkages with many industries particularly in the field of Science, Life science, Technology, Social sciences, Commerce and Law etc. The students of these departments used to visit industries for academic purposes and underwent training with the expertise available with them. During 2018 – 2019, the Barkatullah University has signed collaborative MOUs with AMPRI, CEDMAP, and IISS institute of National interest.

Admission of Students

In Barkatullah University, the admission of students are made through advertisement in news papers and on website of the university. The Applications are invited through online process in regular University Teaching Departments whereas for professional courses like Pharmacy, Engineering and Management the admission of students are made through counselling carried out by Department of Technical Education (DTE). The admissions are made on the basis of merit and if the seats are available the admission is made through CLC. The Barkatullah University attracts the attention of students not only from Madhya Pradesh but throughout the country and abroad. For Ph.D. programmes the admission of students are made through online process followed by written test and the seats are allocated to the students on the basis of merit in different subjects.

6.2.2 : Implementation of e-governance in areas of operations:

Planning and Development

As far as the implementation of e-governance for planning and development in Barkatullah University is concern, the purchase process has been initiated through GEM online portal. The administrative block and the University Teaching Departments are equipped with 100 MB lease line of BSNL and WiFi facility.

Administration

The administration notifications, tenders and Madhya Pradesh government notices are displayed on University Web site. The general notices issued by the Vice-chancellor and Registrar of the University are communicated to the faculty members and department HODs through e-mail.

Finance and Accounts

Finance and account section of the University is also facilitated with online payment of the bills and remuneration of experts and examiners associated with the examination work.

Student Admission and Support

The student’s admission process is also done through online facility available on university Website in collaboration of MP Online (A Govt. of Madhya Pradesh portal). In addition to this the student support is available online for all types of documents including migration, eligibility, duplicate mark sheet, degree etc. It may be further pointed out that the admission process for the allotment of seat in the hostels (Both Girls & Boys) are made

through online process. The facility is also available for students to pay their admission fee online.				
Examination				
In examination process the e-governance is used to conduct online examination of Ph.D. entrance test from this academic year. Filling of the examination forms and declaration of the results made by online through IT agency.				
6.3 Faculty Empowerment Strategies				
6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year				
Year	Name of teacher	Name of conference/workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
	Dr.MadhuVerma	FDP for Induction of Students by AICTE.	---	Rs. 10,000/-
	Dr.Poonam Sinha	FDP for Induction of Students by AICTE.	---	Rs. 10,000/-

6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year					
Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019	----	Computer Training for university employees	21-22 June, 2019	----	35
2019	----	Computer Training for university employees	25-26 June, 2019	----	30
6.3.3 No. of teachers attending professional development programmes, viz., Orientation					

Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year			
Title of the professional development programme	Number of teachers who attended		Date and Duration (from – to)
Faculty Development Programme	Two		29-31 Jan. 2019
Orientation	One		Sep. 2018
6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
No faculty is recruited during 2018-19	No faculty is recruited during 2018-19	No faculty is recruited during 2018-19	No faculty is recruited during 2018-19
6.3.5 Welfare schemes for			
Teaching	<ol style="list-style-type: none"> 1. Group Insurance Scheme (GIS), 2. Teachers Welfare Fund (TWF), 3. Medical reimbursement for serious illness and diseases, 4. University provide relaxation in tuition fee for the wards of teaching staff, admitted in different courses of the University. 5. The faculty members provides residential accommodation on subsidised rent within university campus. 6. Yoga Department conduct Yoga Classes for faculty members, 7. Health Centre with ambulance facility available for faculty members. 		
Non teaching	<ol style="list-style-type: none"> 1. Group Insurance Scheme (GIS), 2. Appointment of staff on compensatory ground, 3. Medical reimbursement for serious illness and diseases, 4. University provide relaxation in tuition fee for the wards of non-teaching staff, admitted in different courses of the University, 5. The non-teaching members provides residential accommodation on subsidised rent within university campus, 6. The University also provides Bus facility to the non-teaching staff for 		

	<p>transportation from their residence to university office and back on subsidised rates.</p> <p>7. Yoga Department conduct Yoga Classes for non-teaching members,</p> <p>8. Health Centre with ambulance facility available for non-teaching members.</p>
Students	<p>1. The University provides 3 girls and 3 boys hostels within the campus to accommodate about more than 550 students.</p> <p>2. Poor students are getting scholarship,</p> <p>3. Research Scholarship is also provided to the students as a part of welfare scheme of the University,</p> <p>4. Health Centre with ambulance facility available for students resides in hostels.</p> <p>5. Time to time Heartfulness Meditation Classes conducted for students to maintain peace of mind, concentration and harmony.</p>

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)

Institutional audit is done by the local fund Audit Section established in the university, where a team of auditors has been posted from the Finance Department of Govt. of Madhya Pradesh. All payments are made after administrative approval followed by pre audit process by the auditors. The external financial audit is also made by a team of auditors appointed by the office of Auditor General, Gwalior on regular basis.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III)

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
None	-----	-----

6.4.2 Total corpus fund generated: NIL

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	----	-----	Yes (API)	UGC
Administrative	Yes-?			

6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

(if applicable)				
University considered the proposals submitted by affiliated colleges for autonomy. The proposals are reviewed as per the criteria given by UGC and the autonomy is granted on the basis of the report submitted by the inspection committee constituted on UGC guide lines. So far 3-4 colleges have been given autonomy.				
6.5.3 Activities and support from the Parent – Teacher Association (at least three)				
Parents are contacted time to time by faculty members and HODs of the university to take their feedback.				
6.5.4 Development programmes for support staff (at least three)				
1. Computer Training for supporting staff of the University.				
2.				
3.				
6.5.5 Post Accreditation initiative(s) (mention at least three)				
1. Suggestions made by NAAC peer team is communicated to all HODs for further Enhancement.				
2. More emphasis is given for the development of academics, research and infrastructure.				
3. Innovation related to societal research and other activities and Best Practices.				
6.5.6				
a. Submission of Data for AISHE portal : (Yes)				
b. Participation in NIRF : (In Process)				
c. ISO Certification : (Initiated)				
d. NBA or any other quality audit : (No)				
6.5.7 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from---to---)	Number of participants
2019	NAAC Awareness Programme / Workshop for university and affiliated college teachers.	11.01.2019	11.01.2019 to 11.01.2019	323
2019	First BU Research Seminar	18& 19.03.2019	18.03.2019 to 19.03.2019	225
2019	NAAC Workshop on	27.05.2019	27.05.2019 to 27.05.2019	22

	Revised Accreditational Framework			
2019	Capacity Building for Promoting Values and Ethic in Higher Education	31.05.2019	31.05.2019 to 31.05.2019	45
2019	Intellectual Property Rights & Patent in Research and Technology	01.06.2019	01.06.2019 to 01.06.2019	161
2019	Role of University Stake Holders towards Creating Quality in Academic and Administration in Barkatullah University	08.06.2019	08.06.2019 to 08.06.2019	55

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
Invited Lecture on “Gender in Everyday life: Sharing a Common World”	International Women’s Day, 8th March, 2019	114 students and Faculty of BU	
Film Screening and Discussion On “Gender Based Issue”	11th May, 2019	59	

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Energy:

University is replacing street lights by LED lights. By the end of the year 365 LEDs will be used as street lights of which 250 have already been set up.

Solar panels installation is under process.

Water: The University has large campus of 360 acres in which topographically surface runoff creates small rivulets during rainy season. Additionally, small nullahs are also enter the campus. In order to harness this runoff we have create ponds and tanks of various size in the campus. Thses ponds help in retention of water varying from 3 to 10 months faciliatating water percolation and ground water recharge. This also helps in maintaining biodiversity in the campus.

Biodiversity: The university his rich in floral and funnal biodivrsoty which makes it an urban biodiversity hotspot. We have done documentation of flora and funna of the campus in digital and print format which help us to utilize the campus as a living laboratory for various courses.

Water foot print: attemps have been made to reduce the water footprint by reducing the use of water like most of documentation are printed boths of the paper.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities		
Provision for lift		
Ramp/ Rails	Yes (Library, Sociology, Physics,)	
Braille Software/facilities	Yes at Mitra Center	
Rest Rooms		
Scribes for examination		
Special skill development for differently abled students		
Any other similar facility		

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address	Number of initiatives taken to	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff

	locational advantages and disadvantages	engage with and contribute to local community				
	02		21st June 2019	International Yoga Day		Total 500 University 100 Local community 400
	02		Weekly (Every Sunday)	Heartfulness Sahaj Marg		Approximately 80 to 100 Participants

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Synaptic information for students	July, 2018	Relevant information pertaining to students is presented in the Synaptic information. The information incorporates different facilities available for students in a capsule form.
Hostel rules	July, 2018	Both for the boys and girls hostels located in the Barkatullah University premises, separate rules and code of conduct are documented. All the hostels are having cooperative mess facility. For the security of students undertaking from the parents with police verification is taken before admission.
Service conditions of university employees	Statute 31	Comprehensive code of conduct for all University employees is documented.
Exam Rules	Ordinance -5,6,7, & 8 NOV -2018	Exam rules are documented comprehensively in Ordinance. Available in the Websites of BU
Anti Ragging rules	July, 2018	The DSW office has properly documented the Anti ragging rules which is taken from the UGC. These rules are available in the University website

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants
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International Tiger day	29.07.2018	35
INTERNATIONAL VULTURE AWARENESS DAY	01.09.2018	30
Workshop on “Green Ganesh Abhiyaan 2018” 04-09-2019	04-09-2018	200
Organized Heart Fullness Meditation Program and Relaxation Technique for Student By Heart Fullness Institute.	4 to 6 -09- 2018	190
Workshop on Inner Awareness and Personal Growth	15-09-2018	180
Documentary Film for Awareness on about stress suffered by children and what the society should do about it Sponsor by – Smile Foundation , Nagpur	20-09-2018	200
कार्यशाला-जल दुर्घटना रोकथाम दिवस 2018	05-10-2018	200
WWF ECHO WORKSHOP	17.10. 2018	50
WORLD FISHERIES DAY	21.11.2018	60
Organized Night Football Tournament and kite show for Voting awareness programme	3 to 5-01-2019	300
CAREER COLLEGE STUDENTS VISIT	25.01.2019	40
BIRD CENSUS	26.01.2019 to 27.01. 2019	35
REGIONAL MUSEUM OF NATURAL HISTORY AND ENVIRONMENTAL PLANNING AND COORDINATION ORGANIZATION (EPKO)	28.01.2019	35
WORLD WETLAND DAY	02.02.2019	25
National Workshop – Yoga for	20-02-2019	200

Child Safety		
Workshop - Meditation	15-03-2019	200
National Seminar – Yoga For Nation Building	27 to 28-03-2019	430
150 वीं जन्म शती वर्ष के अवसर पर कार्यशाला-औषधीय पादपों का संरक्षण	15-04-2019	200
Workshop – Yoga for Holistic Health	17-04-2019	200
Seminar – Stress Management Through Yoga	22-04-2019	180
150 वीं जन्म शती वर्ष के अवसर पर संगोष्ठी-जीवन मूल्य	30-04-2019	200
150 वीं जन्म शती वर्ष के अवसर पर जागरूकता रैली	05-04-2019	180
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)		
<p>Workshop on “Green Ganesh Abhiyaan 2018” 04-09-2019.</p> <p>On 16 July, 2019 the University has identified various location sites covering the entire campus and planted more than 100 Peepal saplings.</p> <p>Under Swachh Bharat initiative on Gandhi Jayanti all the University Teaching Departments have made special drive for cleanliness of their premises and planted trees of different varieties.</p> <p>Plantation is done in periodic intervals.</p> <p>Eco friendly initiatives like Waste Management Steps, Surface runoff Management, Aquaculture Ponds, Roof Top Harvesting, Documentation of Flora and Fauna, Conservation of Endangered Flora and Fauna, Reducing carbon footprints, Reducing water Footprints for saving water etc. are taken by the University from time to time.</p>		

7.2 Best Practices

Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

1. For ensuring mental, physical and spiritual health, Yoga department conducts short and long term programs not only for the students of Barkatullah University but for local community.

2. Gender sensitization program and women empowerment programs are conducted by women's study centre at regular intervals.

Other Best practices from Physical Education department:

- Organized Blood Donation camp every year on National Sports Day 29 August.
- The memory of Pulwama Shahid on 16 March 2019 at Physical Education Department we donate 56 unite Blood Barkatullah University Bhopal.
- Organized Night Football Tournament and kite show for Voting awareness programme "JidKaro Vote Karo" Election 2019 .at sports complex Physical education department. 3-4 Jan 2019.
- Organised training programme of Taekwondo, Cricker Football, Kabaddi, Badminton, Vollyball, Kho- kho for junior boys and girls.1st may to 30 June every year.
- Organised free training - Fitness, Running Jumping and throwing for Youth of rural for army and Police selection.
- Donation of Rs 10000/- for PulwamaShahid to CRPF Bangrasiya, Bhopal from Dr Akhilesh Sharma Director Physical education department.
- Our Department provides Special training for B.P.Ed. and MPed students of swimming coaching, training and life guards from 15 may to 30 june 2019 at purushottam swimming pool, Bhopal.
- Plantation in the campus every year more than 200 plants. Physical Education Department has stipulated that Ph.D. students only if they plant tree on campus and keep track of its well being after leaving the university.
- Organized Heart Fullness Meditation Program and Relaxation Technique for Student By Heart Fullness Institute. From 4 to 6 September 2018.
- International Yoga Day 21 June2019 at Raj Bhawan 75 students of Physical Education participated yoga demonstration.

AQUACULTURE

1) Plantation. 2) Polythene Free Campus. 3) Organized various Awareness Programmes.4)Paper Saving Activity(Double Side Printing of Dissertation).

GENETICS

Apart from the regular teaching and learning, emphasis is given to overall development and grooming of students into successful and learned professionals. The Department take care of all the students on the basis of their learning capabilities. Gifted students are given extra-challenges (e.g. two PG students performed computational biology work in their 2nd semester and their outcome in terms of a research publication appeared prior to their completion of 4th semester; Analysis of Nipah Virus Codon Usage and Adaptation to Hosts. Front. Microbiol., 08 May 2019 <https://doi.org/10.3389/fmicb.2019.00886>).

BIOTECHNOLOGY

A part from regular teaching and learning emphasizing to over all development and grooming of

students into responsible citizen and successful professionals were given .To achieve this goal various lecture series were conducted in department ,many experts enlighten ou students with their motivational thoughts and experiences.

a) We have Plagiarism check ,to ensure Copyright and IPR

b) We have institutional ethical committee for lab animals.

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust

Provide the weblink of the institution in not more than 500 words

Spread in 380 acres of land of BU is committed to achieve greenery across the entire campus. More than 100 varieties of rare plants having aesthetic and medicinal properties can be seen in the lush green campus of BU. To sustain and maintain the green cover Plantation drive is carried out at periodic intervals. The University is making all attempt to make the campus plastic free. Furthermore, There are 15 earthen ponds in the campus for retaining rain water for about three to nine months. In the same continuation a model of roof top harvesting system has been installed in the department of Zoology and Applied Aquaculture. Conservation of engendered flora and fauna like *Flucortiindica* and *Gmlinaarborea* is attempted by the university. For reducing water footprints attempt is made to print the documents on both side of the paper. All the important circulars and information are made available on e mail to reduce paper wastage. Recently, on the initiative of Alumni of Microbiology department at a pilot scale a vernicomposting unit of two tons capacity has been stated. Biodegradable waste is collected from the household and disposed here for vermicomposting.

8.Future Plans of action for next academic year (500 words)

University needs to plan to maintain and improve its leadership position in higher education, to enhance its tradition of scholarship, societal commitment, innovation and role in nation building. The challenges include to:

- **Secure** the University's position as the premier academic institution in India and carve a roadmap for securing its place in the top 100 universities in the country as per NIRF.
- **Increase** the University's contributions to new academic programs, research, innovation, human resources to the industry and national development.
- **Extend** the University's commitment to excellence in teaching and its focus on creativity, entrepreneurship, environmental planning, ethics and value systems, and commitment to social equity and justice along with empowerment to its various departments, affiliated colleges and institutions.
- **Ensure** improvement of classroom conditions and enable better infrastructure facilities for laboratories, multiple-use areas, faculty offices, research support and aesthetic user areas for support staff, such as attendants and office assistants.
- **Provide** policy innovations and intervene through proactive facilitation to allow the University, its affiliated colleges and institutions, to continue to attract and retain faculty who combine the finest scholarship in spite of a demanding teaching schedule because of a sincere concern for their students.

The Campus Plan

The **Campus Plan** revolves around different Initiatives. There is a need to recognize and consider a holistic plan within the campus to provide financial commitment to departmental requirements for enhancements for classrooms, laboratories and faculty and student utilities or recreational space. The Future Plan document proposes to establish new, better, larger, aesthetic yet eco-friendly standards for buildings that would be proposed within the Campus.

The **Initiatives** for the Campus are:

1. Establish a futuristic, 100% computer-enabled, **student-friendly facilitation center** to ensure automation and immediate response to requests for statutory processes, such as admissions and examinations, easy-to-use library and ID cards.
2. Ensure conservation of the historical water management principles and facilities existing within the Campus. Support local water drainage, seepage and underground storage of water by undertaking massive plantation of evergreen trees through an Environment policy.
3. Through an Energy Audit, ensure energy conservation, and generation of at least 40% of outdoor campus electricity from alternative sources. Include the development of large parking areas near the exit doors from the Campus to the City, and thereafter, in a phased manner, prevent polluting vehicles from entering the Campus.
4. On the theme of Smart Campus facilities will be generated with internal road systems, eco-friendly internal transport systems, internet cafes, subject-specific libraries and e-libraries, recreational facilities.
5. Construct additional facilities for boys' hostels, and ensure open integration with the rest of the Campus. In addition, provide for and develop multi-location cafeteria.
6. Expand and enhance the Library facility, by creation of new reading halls, exclusive multi-use internet-enabled computer-supported cubicles within existing reading halls for students and faculty.

Plan, create and establish a holistic Sports complex, around the current sports grounds by constructing athletic and other games.

The Academic Plan

The goals of the University under Academic Plan define the broad areas within which this Vision document develops specific strategies and initiatives. By including an initiative related to ongoing efforts, this plan affirms the importance of such activities and proposed to focus more energy on that area and push it higher on the university's agenda.

The **Initiatives** are:

1. **Recruit** faculty in different departments immediately. Most of the departments are functioning with subcritical human resources for the past five to ten years and have pointed out urgent need for filling up these posts.
2. **Effect** academic, administrative and financial autonomy to ensure that decisions are taken immediately. The Heads of Departments in consultation with the Departmental Committee must be empowered to take appropriate decisions (within the rules and regulations) by delegating authority to them.
3. **Ensure** academic, administrative and financial autonomy to allow Departments to initiate self-financing programmes, with delegated powers of administration and finance management to the Heads of Department.
4. **Provide** special status and privileges to those teachers who publish in peer review Journals with high Impact Factor. Similarly, encourage the development of department-specific journals and research monographs, to establish a leadership role for the University through high-visibility publications along with strengthening of the University Press.
5. **Enhance** interdisciplinary teaching programme by institutionalising the credit and semester system.
6. **Introduce** teacher assessment by students and develop a feedback system for ensuring quality of teaching programs.
7. **Establish** Scholarships and or Fee waivers by designing a transparent, socially sensitive-merit-driven system with a variable approach comprising
8. **Review** and amalgamate if necessary the current academic departments, disciplines and programs to remove any duplication and encourage at least 25% of credit transfers from other disciplines.
9. **Establish** Centre of Excellence (COE) in different Departments under World Bank Project. Permit Departments desirous of running advanced academic programme leading to Master's degree in a major and a minor discipline as well as in Interdisciplinary subjects.
10. **Develop** an academic and research network with other Universities/Institutions in the Region, to encourage collaboration, common teaching and research programs.

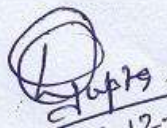
11. **Attract** students from other States and other nations and to make the student population more diverse. Create appropriate secure and aesthetic facilities for students from other regions, including specific international student's facilities.

12. **Involve** industry and voluntary organizations in curricula design, teaching and research through the strengthening of the Science and Technology Park and establishment of internships for students in local industry, developing entrepreneurial incubator facilities, electronic networking server farms to provide external studentships, industrial campus classrooms, net based studentships and evening and night schools.

We are confident that Barkatullah University will become a more vibrant centre of excellence to address all challenges. It will show path for prosperity, cohesion, development and brotherhood at different levels.


Name Prof. D. C. Gupta.

Name Prof R. J. RAO


30-12-2019.

Signature of the Coordinator, IQAC

Prof. D. C. Gupta
Co-ordinator IQAC
Barkatullha University
Bhopal (M.P.)


30-12-2019

Signature of the Chairperson, IQAC

VICE CHANCELLOR
Barkatullah University
Bhopal
