Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**BIRLA INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Dr. Swapan Konar**
Designation	**Vice Chancellor(in-charge)**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**06512275402**
Mobile no.	**9431326757**
Registered Email	**vc@bitmesra.ac.in**
Alternate Email	**registrar@bitmesra.ac.in**
Address	**Birla Institute of Technology, Mesra, Ranchi**
City/Town	**RANCHI**
State/UT	**Jharkhand**
Pincode	**835215**

2. Institutional Status

University	**Deemed**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. Sudip Das**
Phone no/Alternate Phone no.	**06512276181**
Mobile no.	**9431178604**
Registered Email	**dir.iqac@bitmesra.ac.in**
Alternate Email	**daac@bitmesra.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.bitmesra.ac.in/IQAC/page?page=iqac&pid=170

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://bitmesra.ac.in/Visit_Other_Department_9910?cid=1&deptid=205&pid=248

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity Period From	Period To
1	**B+**	**78.25**	**2003**	**16-Sep-2003**	**15-Sep-2008**

6. Date of Establishment of IQAC	**22-Sep-2010**

7. Internal Quality Assurance System

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
UG NBA Accreditation	**09-Feb-2020**	**80**

	1	
PG NBA Accreditation	07-Feb-2020 3	45
NIRF Participation	12-Dec-2020 1	15
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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
Nil	Nil	Nil	2020 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**16**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

Ranking and ratings Accreditation MoU's NAAC Preparations

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Accreditation	NBA accreditation to three UG and three PG Programs

Ranking and rating	IRF Ranking, Engineering: Thirty Eight, Pharmacy: Sixteen, Management: Fifty Eight, Architecture: Thirteen, Overall : Eighty Five, University : Sixty Six
[View File](#)	

14. Whether AQAR was placed before statutory body ?	**No**
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**15-Sep-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**The management information system at BIT Mesra is practiced since long with several independent modules implemented for the purpose of proper record keeping and smooth functioning of different sections. Osprey Technology from Kolkata provides the following modules which are listed below 1) Administration 2) Finance and Accounts ERP based software from MASTERSOFT is currently being used since 2019 for student life cycle which are 1) student enrollment, 2) semester registration, 3) Examination and 4) result processing. The Training and Placement office also uses a separate MIS software procured from ELEMENT94, to manage the activities of placements.**

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	Programme Specialization	Date of Revision
Nill	**N/A**	**N/A**	**Nill**
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
Nill	Nill	Nill	BP101T	01/07/2017
View File				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	REAL WORLD OPERATIONALISATION OF GIS AND GNSS (RS520)	01/07/2019
View File		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nill	N/A	Nill

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
Vocals Workshop	01/07/2019	25
View File		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Electrical & Electronics	61
View File		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	No

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

The feedback is collected systematically from all stakeholders. The feedback mechanism is formulated to get feedback on the courses and teaching methods adopted. These are collected through ERP login of each student in a specific

format. Collected feedbacks are analysed by the respective heads of concerned departments and after a due consideration in departmental faculty meetings, they are communicated to the Dean Academic Program to be implemented through Board of Studies and Academic Council, if found feasible. The feedback on teachers are being discussed and deliberated upon with the respective teachers by the head of concerned department and accordingly faculty members are advised to make necessary changes and improve. The exit feedback gives a holistic view of the Institute as a whole and the scope of further improvements and developments in major areas such as administration, hostels, ambience, library, internet, infrastructures, etc. These feedbacks are shared with the concerned officers to take an action on particular matters of concern.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MBA	NA	120	526	89

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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 fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3185	1775	63	19	194

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
276	276	Nill	60	10	Nill

View File of ICT Tools and resources

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

Students are mentored for any needs arising from very simple matters like selection of electives, registration to respective credits or more complicated like career counselling, selection of open electives / opting for minors under CBCS system, registration to extra or less credits, etc. Each faculty member mentors a group of students. First year students have mentors from the departments teaching Basic Engineering Science and second, third, fourth year students have mentors from the parent department. Departmental faculties continue to be mentors for the same group of students till their graduation. The mentor performs the following functions, however these are not limited to this list. 1. Meet the group of students at least twice a month 2. Continuously monitor, counsel, guide and motivate the students in all academic matters 3. Regularly monitor and advice regarding attendance and performance in various institute assessment examination. 4. Contact parents/guardians if situation demands e.g. 5. Advise students in their career development/professional guidance 6. Advise students regarding choice of electives, project, summer training etc 7. Advise students regarding option of minor programme under CBCS 8.

To guide the students in taking up extra / less academic load and professional activities for value addition as a member of the society 9. Intimate HOD and suggest if any administrative action is called for 10. Keep contact with the students even after their graduation to help Institute Alumni Cell

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4960	276	1:18

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
324	276	98	9	238

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Priyank Kumar	Assistant Professor	Member, Project Execution and Coordination Unit (PEC)
[View File](#)			

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

Programme 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
BArch	BA0101	SP20	Nill	03/07/2020
[View File](#)				

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

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
21	4551	0.46

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 weblink)

https://bitmesra.ac.in/Visit_Department_Page?cid=1&deptid=49&pid=76

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage

BA0101	BArch	NA	31	17	54.8

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://bitmesra.ac.in/UploadedDocuments/admnaac/files/Student%20Satisfaction%20Survey_2019-20.pdf

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Indrajit Roy	DAAD Rise Internship as Teacher	08/07/2019	Govt. of Germany

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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 the fellowship	Funding Agency
Junior Research Fellowship	270	CSIR

View File

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	1095	DST Nanomission	51.15	26.67

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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
e-FDP on "Outcome Based Education and online Learning-Teaching"	Hotel Management Catering Technology	29/06/2020

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Hack 36 1st Prize (Hackathon)	Vaibhav Raj Singh	MNIT Allahabad	Nill	Student

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year					
Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
N/A	N/A	N/A	N/A	N/A	Nill
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year	
Name of the Department	Number of PhD's Awarded
Bioengineering	9
Chemical	2
Chemistry	3
Civil Environmental Engineering	1
Computer Science and Engineering	11
Electrical and Electronics Engineering	3
Management	1
Mechanical Engineering	3
Pharmaceutical Sciences and Technology	3
Physics	4
Remote Sensing	2
Electronics and Communication	15

3.4.2 – Research Publications in the Journals notified on UGC website during the year			
Type	Department	Number of Publication	Average Impact Factor (if any)
National	Bioengineering	4	Nill

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

Department	Number of Publication
Architecture	2
Electrical and Electronics Engineering	92
Physics	4
Bioengineering	5
Chemical Engineering	1
Civil and Environmental Engineering	1
Electronics and Communication Engineering	39
Management	8

Mathematics	4
Computer Science and Engineering	11

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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
Aluminium Metal Foam and a process for Preparation thereof	Published	338236	09/06/2020

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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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Green synthesis of silver nanoparticles: biomolecule-nanoparticle organizations targeting antimicrobial activity	Roy, Anupam Bulut, Onur Some, Sudip Mandal, Amit Kumar Yilmaz, M. Deniz	RSC ADVANCES	2019	Nill	Birla Institute of Technology Mesra	Nill

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Green synthesis of silver nanoparticles: biomolecule-nanoparticle organizations targeting antimicrobial activity	Anupam Roy and others	RSC Advances	2019	65	262	BIT Mesra

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	34	92	10	10
Presented papers	43	22	0	0
Resource persons	8	26	0	1
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Environmental Engg	Scientific Study	Bharat Coking Coal Ltd	300000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
N/A	N/A	N/A	0	0
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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 participated in such activities	Number of students participated in such activities
Plantation Drive	NSS	5	104
View File			

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	Number of students Benefited
Social Service	NSS Award (2019-20)	qrs Sports, Government of India	1
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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 participated in such activites	Number of students participated in such activites
National Service Scheme	NSS	Plantation Drive	5	104
View File				

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
Research Paper Article	Shruti Garg and others	Nill	365

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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	Duration To	Participant
N/A	N/A	Nill	Nill	Nill	Nill

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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/Activities	Number of students/teachers participated under MoUs
Rajagiri College of Social Sciences	22/02/2019	Activities restricted due to COVID-19	0

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
6902.47	1109.05

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
KOHA	Fully	16.05	2004

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Text Books	**149503**	**24447640**	**822**	**793000**	**150325**	**25240640**

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4.2.3 – 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
Dr. Manik Ghosh	**https://bitpqa.wordpress.com/**	**WordPress and YouTube**	**10/12/2019**
Dr. Bappa Acharjee	**Workshop practice Lab**	**Google Classroom**	**20/05/2020**

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	**2123**	**22**	**5500**	**0**	**0**	**39**	**17**	**1600**	**0**
Added	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**2123**	**22**	**5500**	**0**	**0**	**39**	**17**	**1600**	**0**

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

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1600 MBPS/ GBPS

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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
Mixing equipments and softwares for editing	**Nill**
Media Centre	**Nill**
Audio Visual Centre	**Nill**
Lecture Capturing System	**Nill**

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 incurredon maintenance of physical facilites
1218.72	**723.76**	**2459.91**	**1710.41**

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)

The academic infrastructure of the institute, such as laboratories and

classrooms are housed in its 17 departments. All departments have their own laboratories. Some of the important facilities include the High Performance Computing Laboratory, Central Instrumentation Facility, Central CAD Laboratory, Design Lab and Language lab, etc. In addition, there are several shared classrooms and halls. The regular maintenance of these facilities is taken care of by the respective departments in which the facilities are located. The upgradation and repair work of these facilities are undertaken by the Planning and Development division, which has number of experienced engineers. This department is also responsible for periodically surveying the state of affairs of the various infrastructures in the campus and taking measures to ensure standard maintenance and upkeep. The computers and networking facilities and all digital physical infrastructures in the campus are maintained by the Communication Services section. The Estate Office, which has a support staff of mechanics, plumbers, welders, carpenters, masons and electricians, is responsible for the general maintenance of the campus. The Department of Physical Education manages the sports facilities in the campus. This department is headed by a sports-inclined faculty member and a group of sport- enthusiast students. This department manages the regular upkeep of the indoor game facilities and the extensive playgrounds. Any major works are reported to the Planning and Development division. The Institute has a well-developed Gymnasium, that is managed by the skilled employees under physical education. BIT Mesra has guest house facilities within the campus to meet its needs. The upkeep and maintenance of the guest houses are attributed to the Estate Office. The campus boasts two auditoriums, namely G.P. Birla Auditorium and CAT Hall, that are utilized for cultural events organized by the student community, and are maintained by the Estate Office. The campus also has two canteens and several other eating options within the premises, which are entrusted in the supervision of the Committee for Shop Allocation and Vendor Management. The same committee also manages the shopping complexes which are located in the campus. An on-campus dispensary provides primary healthcare facilities. A Doctor from the campus Health Centre accompanies the patient in case of an emergency. The campus Dispensary-cum-Health Centre also provides free treatment and supply of medicines to residents of local villages in the region. The Institute provides transportation facilities to students and staff and their children for commuting to and from Ranchi city. The bookings, schedules, running and maintenance of vehicles are undertaken by the Transport Office.

https://bitmesra.ac.in/UploadedDocuments/admnnaac/files/4_4_2.pdf

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	G. P. Birla Scholarship	440	16171450
Financial Support from Other Sources			
a) National	Nill	Nill	Nill
b)International	Nill	Nill	Nill
[View File](#)			

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.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved

INTERNATIONAL YOGA DAY	21/06/2020	104	N.S.S.
From Ravana to Ghalib: The Literary workshop	11/01/2020	70	Socratic Quiz Master
Symposium	04/09/2019	250	LITSOC
[View File](#)			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	AMCAT	Nill	766	Nill	536
2019	Challenges and Opportunity in Overseas for hotel management students – with special reference to middle-east countries	Nill	57	Nill	9
2019	Scope of higher studies and career opportunities with reference to Canada	Nill	53	Nill	Nill
[View File](#)					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
38	38	127

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
101	924	537	Nill	Nill	Nill
[View File](#)					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	Bachelor of Architecture	Architecture	SPA Vijaywada	MURP

View File

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	Number of students selected/ qualifying
GATE	35
CAT	1
GRE	5
TOFEL	6
Any Other	2

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

Activity	Level	Number of Participants
Induction	Institute Level	1038

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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	2nd Position - Euphoria, Valhalla, XLRI	National	Nill	Nill	N/A	Team

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

BIT encourages students' participation in various academic and administrative committees which empowers students in developing leadership qualities and team working skills. Different academic and administrative committees of the Institute are represented by adequate number of student representative through various student bodies, for example, student representatives are part of the grievance redressal committee which not only looks after the complaints and grievances of students and staffs of the Institute but are also authorised to initiate necessary remedial measures. Student play important role in preventing sexual harassment through their representation in the committee for prohibition and prevention of sexual harassment. They have been playing active role in maintaining discipline and decorum while various important activities are

executed or performed by students. They work as a whole in every activity of the university contributing to its smooth functioning. Students also organise various programs such as paper presentations, workshops, and seminars every year at department / institute level. Every year, Institute organizes several mega-events such as BITOTSAV, PANTHEON, VAJRA, DEEPOTSAV, Annual Athletic Meet etc which are exclusively organised and administered by students. All managerial, financial, security, sponsorship, advertisement/promotion, news/media, photography aspects are completely planned and executed by students under faculty mentorship. Overall through these activities student get the opportunity for their holistic development in leadership qualities as well as team working skills.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

BITOSA-Gujrat(14.09.2016), BITOSA-Jaipur(03.08.2016), BITOSA-Mumbai (05.10.2015), BITOSA-Kolkata (29.09.2015), BITOSA-Ranchi (11.05.2015), BITOSA-Silicon Valley (04.04.2016), BITMAA-NA (North America) (02.10.2013) are the registered alumni associations. The main objectives of the association are : a) To establish and maintain contact among past students, present students and the teaching staff. b) To establish interaction with industry for the benefit of students. c) To extend financial assistance to the deserving present and past students of the University for academic purposes. d) Organizing Seminars / Workshops e) Personality Development Workshops. f) Career opportunities and prospects for present and past students g) Providing travel assistance to students for participating in academic activities in India h) Assisting in arranging campus interviews, placements and industrial training. i) Maintaining database of ex-students. j) Encouraging and supporting entrepreneurial efforts of students k) Sponsoring various Student Club activities l) Sponsoring Summer Research Experience of students in US Universities m) Helping alumni in need - Financially Non financially n) Mentoring and hand holding of students in various academic activities. o) Organizing reunions and social interactions

5.4.2 – No. of registered Alumni:

38946

5.4.3 – Alumni contribution during the year (in Rupees) :

379000

5.4.4 – Meetings/activities organized by Alumni Association :

a) Distinguished Alumni (Professors of US Universities) are engaged as Adjunct Faculty. They interact with students and faculty on various projects and contemporary issues. b) Distinguished Alumni (Industrial Experts) conduct webinars and deliver Guest Lectures. c) Alumni regularly help and support our placement / internship activities and connect us to their peers in other industries/Universities. d) The institute organizes Industry Academia Symposium to build relationship with industry/Universities with the support of senior alumni as brand ambassadors.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The Birla Institute of Technology is a "Deemed to be University" under Sec. 3 of the U. G. C. Act 1956. The institute functions under the overall

supervision, and guidance of a high power Board of Governors(BOG), comprising representatives of the Ministry of Education, Government of India, University Grants Commission(UGC), State Government, A.I.C.T.E, The Hindustan Charity Trust and representatives of the Institute Faculty. In addition, the BOG is represented by Alumni of the institute as well. Her Excellency, The Governor of Jharkhand is the Chancellor of the University and Shri C.K. Birla is the Chairman of the Board of Governors. There are several committees formed under the supervision of the Board to look after specific matters in the Institute's functioning. These include (i) The Finance Committee, and (ii) The Institute and Building Works Committee. The Academic Council (formerly Technical council) decides the academic policy of the Institute. It approves the curriculum, courses and the examination results. For smooth functioning of the institute, the Vice Chancellor, who is the Chairman of the Academic council is authorized to appoint different Committees such as • Regulation Committee for Undergraduate and Postgraduate Courses • Semester Programme Co-ordination Committee • Admission Committee • Scholarship Committee • Students Welfare Committee. The teaching, training, faculty development and research activities of various departments at the Institute are constantly reviewed to monitor outcome, quality and available facilities. The Institute practices and nurture the culture of participatory Management to execute its activities such as Administration, Admission, Student activities, Curriculum Development, Research, Sports etc. The Institute ensures adequate representation in various committees by Professors, Associate Professor, Assistant Professors and student representatives from different Departments, that has made the functioning of the Institute smooth, participatory and transparent which is one of the best practices in the Institute. At the institute level, BIT has been adopting collective leadership which is provided by the Vice Chancellor, Deans, Head of the Department and Registrar which is another best practices of the Institute. The leadership for the regular activities of the Institute is provided by the Vice Chancellor, who is advised and assisted by Deans, Heads of Departments/ In- Charges besides the Registrar for overall administrative and academic activities of the Institute. The administrative structure is similar to that of some of the premier institutions in the country and aboard. BIT has created a governance plan that embodies the institute's values of transparency, accountability and efficiency. By participatory management, BIT has ensured the transparent, accountable and efficient functioning of the institute.

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

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):

Strategy Type	Details
Industry Interaction / Collaboration	The Institute promotes the Industry-Academia interaction wherein the faculty and students are encouraged to go to industry visits to identify problems of practical nature and find possible solution. In addition students are encouraged to go for their internship for a better exposure and work culture in industry. Summer internships are considered as an important career stepping stone. Second and third year UG students are facilitated for industrial internship. Summer internships teach valuable on-

	the-job skills, provide excellent networking opportunities and make them ready for jobs in industry.
Admission of Students	Birla Institute of Technology, Mesra, Ranchi is a Deemed to be University and the admission procedure is executed as per the clearly laid down policies and guidelines set by the Institute. Admission to all UG, PG and Ph.D. programs are based on National / Institute level competitive test and counselling / interviews. For B.Tech. B.Arch. programs, admissions are based on all-India entrance examination (JEE-Main) followed by JoSAA / CSAB counselling. This transparent process ensured good students from all over India thereby maintaining diversity in student profile. Eligibility criteria, Fee Structure, Selection process are decided after due deliberation by the Admission Committee which comprise of Deans, HoDs and other administrative members. Reservation of seats for OBC / SC / ST / EWS and PWD are strictly adhered as per statutory reservation policy of State of Jharkhand and Govt. of India.
Teaching and Learning	The teaching and learning process involves theory classes which are complemented by Learning laboratory classes with live examples. Usually, teacher explains the topics in an eloquent manner so that the student could grasp them easily and use them in furthering the courses. The Institute has been sensitive enough to promote experiential and participative learning and inculcate real world problem solving methodologies among students by providing industrial visits, field visits, Internship, assignments in the curriculum as well as activities of technical clubs. Students of specific programme are required to go for compulsory educational tour of 2 weeks duration. Apart from the scheduled trips, students are also sent for site inspection within the city to get adapted with the project management mechanism.
Curriculum Development	At BIT Mesra, involvement of all stakeholders is ensured for design and development of the Curricula. The Institute has the provision of a well-planned and organized Board of Studies (BOS) in each Department which is

	approved by the Academic Council. The BOS is responsible for the design and development of curricula giving due recognition to the opinions of concerned faculty members of the department and institutes mission and vision. The curricula in practice have relevance to the regional and national developmental needs at all levels to meet requirements of the industry. While framing the curricula, the institute adheres to the guidelines recommended by the UGC /AICTE and other national apex regulation bodies. The review of curricula takes place at a regular interval.
Human Resource Management	The Institute has well laid policies pertaining to the recruitment, training, welfare and promotion of faculty and staff members. The office of the Dean (Faculty affairs) has been responsible for addressing above issues pertaining to the faculty members. The promotions of faculty members are ensured through CAS as well as direct recruitment policies of UGC. A separate committee looks after the above issues pertaining to non teaching employees of the institute. The institute has endorsed the modified assured career progression scheme of MHRD, GOI, through its recruitment and promotion norms for non-academic staff since 2012. To upgrade knowledge base, faculties are encouraged to participate in Symposium/ Seminar Conference etc held in India and abroad regularly. Training programs are arranged regularly to upgrade the skill level of non-academic staff and successful employees are given additional increment/promotion as per rules of the Institute. Several welfare schemes such as Mediclaim, provident fund, group insurance etc are available for the benefit of employees. The Institute has in house Dispensary for staff and students
Library, ICT and Physical Infrastructure / Instrumentation	The institute Library is housed in the main academic building with 3900 sq. meter working space. It has a seating capacity for 200 students, fully automated with a Fiber Optic connectivity and Wi-Fi facility. A total of 60 classrooms are available in the Institute, out of which 50 are ICT enabled and 10 are smart classrooms. A

	state of the art Central instrumentation facility and high performance computing facility are available in the institute to cater to the needs of the students. The sports complex of the institute spreads over 25 acres of land. Everyday approximately five hundred students utilize the sports complex for PT Games classes and practice. The complex consists of a standard athletic track along with badminton hall, multi-gym hall, volleyball court, basketball court, hockey ground, football field, kabaddi court, netball court, kho - kho field, cricket field, lawn tennis court, gymnasium hall etc.
Research and Development	Institute has been actively pursuing research in a large number of emerging and classical fields of science and technology. It has a large number of Research scholars who are the heart of research activities in the institute. These scholars along with their mentors have been contributing significantly towards expanding the scientific and technological knowledge base, which could be useful for the development of society. The Institute has state of art laboratory facilities. Faculty members are executing Research and Development projects which are funded by reputed national organizations such as ISRO, DST, DRDO, ARDB, BRNS, DBT, CSIR, AICTE, UGC etc. The institute also encourages UG and PG students to engage in Research and Development activities by providing them grants for consumables and minor equipment which could be used to execute projects. The recruitment and promotion policies of the institute have been also framed in such a way to encourage and recognize research activities. The institute has been publishing several books and more than 300 research papers in SCI and SCOPUS indexed Journals every year.
Examination and Evaluation	The examination section of BIT Mesra maintains the global standard in examination procedures. The continuous internal assessment is spread over the whole semester. The breakup of continuous internal assessment and the type of assessment tools to be used are mentioned in the course curriculum. The institute has the specific guidelines for examination in UG, PG and Ph.D.

programs. Grading system with percentage conversion formula is followed in examination to maintain the global requirements. A proper seat-matrix system and corresponding ratio based invigilation duty are followed to maintain discipline in examination hall during MID and END Semester examinations. Any kind of unfair means is reported to the examination section for proper action. Guidelines for invigilators and Instructions for the candidates are strictly maintained by the examination section during the examination. Evaluations of Ph.D. thesis by both national and international examiners are executed within six months that illustrates the best practices of the examination section.

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

E-governace area	Details
Student Admission and Support	Admission to all UG, PG and Ph.D. programs are based on National / Institute level competitive test and counselling / interviews using the required web applications. For B.Tech. and B.Arch. programs, admissions are based on All-India entrance examination (JEE-Main) followed by JoSAA / CSAB counselling, which is nationally executed through a centralised online process. The Institute is also a Counselling centre for the above process to assist JoSAA/CSAB. Student life cycle which covers admission, registration of courses, examination, results, payment of fees, issue of grade cards etc is being captured by an ERP System. All the students are provided with an Institute email id. Institute central library has adopted library management system to manage its services which helps the students in the process of learning and development.
Examination	Exam Section follows the simultaneous conduction of examination and evaluation of answer scripts for faster result processing. The central evaluation system, has been using bar code in evaluation process which is one of the best practices of examination section. The speedy publication of result helps the students in their further career progression. Examination

	section has an ERP based system to manage its activities, where entry of marks, processing of marks and notification of results are carried out using this facility. As a result of this ERP, students can check their results individually through designated login credentials.
Planning and Development	The Planning and Development issues of the Institute are divided into two different categories, i.e., Academics and Administration. The academic planning and development are taken care by offices of the concerned Dean's wherein online mode of communication or MIS system is in operation to take care of different activities. Similarly, the administrative structure also is supported by different offices such as Accounts, Purchase, Stores, Estate and Construction, Communication services, Security and surveillance etc. All of them manage their data digitally that is based on the laid down Institutional policies. For example, all the indents for procurement of equipment or Services are made using the IBIS software, where they are processed online by the purchase office and the same is automatically linked to the Accounts office and general store section.
Administration	The institute has robust governance structures consisting of different Governance organs such as Board of Governors, General Council, Finance Committee and Academic Council etc., that are aligned to the UGC regulations as applicable from time to time. Institute has an MIS for access, processing and management of data. Data pertaining to different academic activities are captured in ERP. The procurement of equipments and services and payment for the same are done using software. There is online provision for submission of applications for admission and deposition of fees for students. Faculty and staff are able to get their monthly salary slips in ERP using dedicated login credentials. Main mode of communication amongst institute faculty and staff is through institute webmail. Notices and minutes of meetings are also circulated through emails. All the academic zones and hostels are covered under Wi-Fi

	facility which ensures seamless internet connectivity.
Finance and Accounts	The Finance and Accounts section of the Institute is responsible for observance of regulations relating to maintenance of accounts of Income and Expenditures and consider any other matter referred by Board of Governors. The Accounts Department ensures that all statutory payments are being deducted as per the Government rules and regulations and are being deposited in time to the concerned Government Department. The Accounts also ensure that all statutory Returns are being filed in time. For all these activities, accounts section uses software such as IBIS, ERP etc. and uses the latest computing facilities.

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
2019	Rajeev Kumar	Workshop on Techseva	TEQIP-III	10958
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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	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	AICTE-QIP: Cutting Edge Emerging Technologies in Pharmaceutical Education Research	Nill	11/01/2019	24/01/2019	16	Nill
2019	National workshop on Recent Trends in Software	Nill	20/05/2019	24/05/2019	50	Nill

| 2019 | Short term course on IoT based Power Electronic Interface for Green Energy | Nill | 20/05/2019 | 24/05/2019 | 41 | Nill |

View File

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	From Date	To date	Duration
To Promote Innovation, IPR, Entrepreneurship and Startups among HEI	1	28/04/2020	22/05/2020	25

View File

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	276	981	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
10	10	12

6.4 – Financial Management and Resource Mobilization

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

The Institute has two type of Auditing system –Statutory and Internal. The Internal Audit is being conducted at regular Intervals –April to July, August to November, December to March every year. External auditors visit at the end of the financial year and help to close the Balance Sheet, Income and Expenditure and check the annexure relating to Balance Sheet. They mainly check statutory dues such as Income Tax, TDS, Professional Tax, GST etc. deducted from various payments and ensure that these are being timely deposited with the concerned Authority.

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/ Grnats received in Rs.	Purpose
NIL	0	N/A

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6.4.3 – Total corpus fund generated

227000

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	No	Nill	Yes	IQAC
Administrative	Yes	Aon Hewitt	No	Nill

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

NA

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

NA

6.5.4 – Development programmes for support staff (at least three)

1) AICTE-QIP: Cutting Edge Emerging Technologies in Pharmaceutical Education Research 2) National workshop on Recent Trends in Software Testing 3) Short term course on IoT based Power Electronic Interface for Green Energy

6.5.5 – Post Accreditation initiative(s) (mention at least three)

NA

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	NIRF	12/12/2020	12/12/2020	12/12/2020	15
2020	UG NBA	09/02/2020	09/02/2020	09/02/2020	80
2020	PG NBA	07/02/2020	07/02/2020	09/02/2020	45
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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	Period To	Number of Participants	
			Female	Male
Workshop on Prevention of	25/06/2019	25/06/2019	67	33

Harassment at Workplace				

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
40

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	60
Provision for lift	Yes	60
Ramp/Rails	Yes	60
Rest Rooms	Yes	60
Scribes for examination	Yes	0
Any other similar facility	Yes	10

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadva ntages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	Nill	Nill	Nill	Nill	N/A	N/A	Nill

No file uploaded.

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
CONDUCT DISCIPLINE AND APPEAL RULES FOR BIT EMPLOYEES	01/07/2018	Nil

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
N/A	Nil	Nil	Nil

No file uploaded.

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Pedestrian Friendly campus 2. E-Vehicle Facility 3. Plastic Free Green campus 4. Solar Panel usage in Hostel and Academic Building 5. Energy Efficient light installed across the campus 6. Sensor operated power usage in classrooms

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Immersive Summer Research Experience (ISRE) The objective of the quotImmersive Summer Research Experience for the undergraduate students of engineering is to expose them to world class research in American institutes of repute. Apart from inculcating a research bent of mind in the students, this practice also

aids in enhancing the employability of the students by making them aware of the contemporary practices in their subject domain on an international level. The cross cultural interactions with international students imbibe a mindset with a global outlook and are conducive to overall development of personality. The Context - Identifying and having access to reputed engineering institutes in the United States was a major challenge to start this practice. The finances required to fund such a program is also quite substantial and was another barrier to be overcome. We have a very strong base of Alumni spread across the world and our Alumni Association in North America has come forward to extend their unflinching support to make this program a grand success. Not only they helped us identify and access reputed institutes but also came forward to offer the required financial support. The first batch was sent in the summers of 2017 and thereafter the students are sent every year during the summer. Till date a total of 40 students have already been sent under the ISRE program Practice - Presently the institutes to which the students are being sent are: ? Illinois Institute of Technology, Chicago ? Carnegie Mellon University, Pittsburgh ? Georgia Institute of Technology, Atlanta In the summer of 2019, nine students were sent to Illinois Tech, five students to Carnegie Mellon and three students to Georgia Tech. In the summer vacation just after the 6th semester (3rd year), the selected students are sent for the program. Based upon the academic records of the students, selection is carried out. The funding per student is shared on a 1/3rd basis by our Alumni Association in the US, BIT Mesra and the students themselves. The duration is approximately 45 days. The host institution assigns projects and project guides to the students individually or in a small group to carry out research related activities. After completion of their project, the students are required to make a presentation to the satisfaction of the host institute. Evidence of Success- The program has been immensely successful. The value addition in the thoughts and concepts of the student is remarkable. There is substantial interest in research related activities of the students. The employability of the students has increased considerably and a number of students are desirous of higher studies abroad. Problems Encountered and Resources Required- Although the problems encountered to start the project initially have been overcome, more universities of repute need to be identified and arrangements initiated to implement the program. Also, substantial funds are required to be generated for funding. Actions have already been initiated in this regard. Best Practice #2- Financial Support to students (UG/PG), scholars and faculty members for research, publication and conference. Objectives of the Practice - • to promote innovative thinking and give the students hands-on experience on research and real world problems • to encourage students with an emphasis on projects that are industry relevant and have potential to lead to an entrepreneurship venture or a start-up model • to inculcate qualities such as financial management, teamwork, problem analysis, investigation, design and use of modern and scientific tools, communication skills, ethics, time management, data processing and analysis • to encourage self financed scholars with superior performance to complete their Phd within stipulated time period • to promote research publication, and presentation of papers in international conferences by faculty members. The Context - The major challenge is that limited funding opportunities exist for carrying out innovative UG and PG projects which have potential for transforming ideas into marketable solutions. Due to this, the outcomes are not tangible within the project duration (one-two semesters), and students often do not get opportunities to embark on those research ideas. Keeping in view that these projects have the potential to pave the way for long term benefits for the society, the Institute has implemented the funding policy for UG and PG Projects. Limited level of funding is arranged for self-financed Ph.D scholars to complete their doctoral work with partial funding from BIT. Faculty members are encouraged to attend international conferences and present research papers. The Practice - The uniqueness of this practice in the context of higher

education is that it addresses affective and psychomotor domain attributes of students. The prevalent emphasis is on cognitive domain due to lack of financial support of the hardware implementation of student projects. For setting a trend, the Institute is supporting at least a few selected projects based on its merit as judged by the committee constituted for the purpose. The applications are invited by the HoD from UG/PG students during their 7 th and 3 rd semester, respectively in the prescribed format. The evaluation committee which includes Industrial experts in conjunction with faculty members evaluate the merit of the proposal. The evaluation criteria are mostly relevant to Industrial needs and potential for technology transfer. Salient practices of funding UG and PG projects are mentioned below: ? Maximum fund allocated to each project is Rs. 50,000/- for UG and Rs.100,000/- for PG students. The fund is intended for expenditure, which includes raw materials for product fabrication, product testing, etc. ? Students and their guides should maintain a book of accounts of all the expenditure incurred under the project and must submit a statement duly signed by them and approved by the Chairman of DEC along with each report. ? Proper accounting for expenditure from the project heads are to be maintained by the departments as per the standard practice. Funding to research scholars is based on qualifying competitive entrance examination and subsequent interview. Seed money funding is provided to newly joined faculty members to initiate their research activities and give directions to their future act of research. All the faculty members are encouraged to interact with the outside world through attending conferences, workshops and seminars wherein they are supported by the Institute, covering the expenses incurred on travel, registration and stay. Evidence of Success - Students are encouraged to present their ideas and preliminary findings in conferences organized by reputed Institutes. This provides a platform for students to establish networks with the research community and Industries. Few publications in reputed journals and the preliminary results emanating out of these projects form the basis of sanction of funded grants to the faculties. As a visible outcome, students have participated in activities with full vigour in application of gained knowledge at multiple avenues such as building a hybrid electric vehicle, racing cars, etc. The teams involved in such activities are Team Srijan, Team Aveon and Team Firebolt, IET, etc. (https://www.bitmesra.ac.in/Visit_Other_Department_9910?cid1ampdeptid1 91amppid187). The follow up of this activity is to support students and research scholars to encourage and participate in different scientific forums. In pursuit of the above goal, the Institute is facilitating from earmarked funds to support students attending workshops to further the knowledge gained from the results of the funded research work. Seed funded faculty members are encouraged to propose for funded research from various research granting agencies (Govt./Non-Govt.). The process of seed funding has resulted to an increase in project proposals from the Institute. The research scholar funding, supporting faculty members through attending conferences has improved the research output in terms of quality and citations. Problems Encountered and Resources Required: Financial support under this scheme is limited with the Institute and there are many projects from the students which could not be accomodated. Even after seed funding these projects the students who received the funding expressed the need for additional funds to enhance the outcomes of the project.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://bitmesra.ac.in/UploadedDocuments/admnaac/files/7_2_1-pages-1%2C3-4.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The principal focus of an academic institution is either to disseminate knowledge by teaching or create new expertise by research. A Technological University like BIT Mesra aims to offer the most modern and effective engineering education conducive for developing innovative technology and produce the most competent and meritorious engineering graduates. As an enterprise is known by the quality of its products, BIT Mesra has earned its reputation and eminence by virtue of the quality of engineering education imparted, level of research and innovation contributed, and most importantly, eminence of engineering graduates or alumni produced over the years. Thus, the most distinctive contribution of BIT Mesra that may singularly highlight the significance and impact of its contribution to the society should undoubtedly concern the engineering education imparted and the number, quality and reputation of its alumni produced over the last six decades of its existence, who are now spread all over the globe. Distinctive Academic Contributions: Academic initiatives of BIT Mesra that deserve special mention are: ? BIT Mesra carries a distinction of being one of the foremost Institutes of Technology in the country (ahead of all but only one IIT). ? BIT Mesra initiated a programme on Space Engineering and Rocketry ahead of country's flagship organization called ISRO, way back in 1964. ? BIT Mesra promoted the culture of all round engineering education at various levels starting from certificate course, diploma, graduation, post graduation all the way up to doctoral degrees. ? BIT Mesra has always upgraded its academic curriculum and teaching-learning exercise as per the prevailing norms, government directives and international standards. As a result, the graduates of this institution have always been the most sought-after engineers valued by the industries in the country. ? Besides advanced technological subject domains, BIT Mesra also imparted education for socio-economic development of the rural and tribal population in the states of Bihar and Jharkhand. ? BIT Mesra is a rare university that houses a University Polytechnic besides various engineering departments and centres. ? BIT Mesra was a pioneer in establishing the first-ever Science and Technological Entrepreneurship Park (STEP) in the country as a part of the Small Industries Research and Development Organization (SIRDO) way back in 1974. ? In recognition of its overall contribution, BIT Mesra was the first institution in India to be granted autonomous status in 1972. ? It is worth mentioning that all the laboratories, workshops, research facilities and design centres of BIT Mesra are equipped with the most modern and sophisticated machines, instruments and facilities like electron microscope, diffraction and spectroscopy units, CNC lathe, precision mechanical processing instruments, modern VLSI laboratory, advanced communication and signal processing facility, wind tunnel, animal house and tissue engineering laboratory, drug design and testing laboratory, high performance computing (HPC) facility and design and innovation workshops. Illustrious Alumni of BIT Mesra: Alumni of the Institute in terms of their national and global level credentials present the most convincing evidences of the quality of human resources developed, as envisaged in the Vision and Mission Statement.

Provide the weblink of the institution
https://bitmesra.ac.in/UploadedDocuments/admnaac/files/7_3_1.PDF

8.Future Plans of Actions for Next Academic Year

The following points describes the proposal of plan of action to be implemented for the next academic year in consonance with the Institute vision and mission. 1) Participation in NIRF and other rankings. 2) Accreditation to reach a target of 100 percent. 3) Continued MoU's with Industry, research labs and academic institutions. 5) Implementation of a robust ERP system.5) Recruitment of faculty members