



Yearly Status Report - 2015-2016

Part A

Data of the Institution

1. Name of the Institution		BIRLA INSTITUTE OF TECHNOLOGY
Name of the head of the Institution		Dr. M. K. Mishra
Designation		Vice Chancellor
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		+916512275402
Mobile no.		9431100447
Registered Email		vc@bitmesra.ac.in
Alternate Email		registrar@bitmesra.ac.in
Address		BIT Mesra
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	Prof. G. Sahoo
Phone no/Alternate Phone no.	+916512276052
Mobile no.	9431187542
Registered Email	iqac@bitmesra.ac.in
Alternate Email	gsahoo@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/UploadedDocuments/deanugpg/files/Academic%20Schedule%202015-16(1).pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	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
NIRF	04-Apr-2016 365	3

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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
Institution	TEQIPII	NPIU(MHRD)	2011 5	175000000

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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 :

7

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)

Participation in NIRF Accreditation TEQIPII High Performance Computing

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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	Achievements/Outcomes
1) Ranking and ratings 2) Faculty publications 3) 75 accreditation to UG Programs 4) MoU's with Industries and Academic Institutions 5) Technical and motivational talks 6) Seminar, conferences, workshops	1) participated and ranked in NIRF 2) Increase in SCI indexed Journals 3) Awareness implemented 4) Number of MoU's have been made with academic institutions and Industry 5) Made by different departments 6) More than 10 such programs organised

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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	2016
Date of Submission	03-Mar-2016
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The management information system at BIT Mesra has been in force since 2011 with three modules implemented for the purpose of proper record keeping and smooth functioning of different sections. All the three modules work independently. Osprey Technology from Kolkata provides the three different modules which are listed below 1) Administration 2) Finance and Accounts 3) Student Admission and support. Examination section uses the ERP based software from BIRLASOFT for student enrollment, semester registration, issuance of student admit card and result processing. The integration of IT with centralized functioning of the overall exam process improves the efficiency, reliability, transparency and accuracy of examination system. In addition, the Training and Placement office has its own inhouse built MIS software to manage the activities of Placement.

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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!				
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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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
BE	NA	01/07/2015

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
No Data Entered/Not Applicable !!!		
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
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
<p>The feedback is collected systematically from all stakeholders. The feedback mechanism is formulated to get feedback on the courses, syllabus, programmes, teachers, overall system, etc. These are collected either through soft or hard copy 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</p>

teachers by the head of concerned department and accordingly faculty members are advised to make necessary changes and improve. The analysis of the course and program feedback helps the Institute to consider any revision of courses, addition/subtraction of elective courses, change in program structure, etc. 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
No Data Entered/Not Applicable !!!				
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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
2015	788	470	76	32	189

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	Number of smart classrooms	E-resources and techniques used
No Data Entered/Not Applicable !!!					
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Students during their academic Journey in the institution, need mentoring / guidance from their faculty member/s. Students mentoring needs may arise from very simple matters like selection of electives, registration to respective credits or more complicated like career counselling etc. Each faculty member is the mentor of a group of 20 to 25 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. A mentor can always do more for the benefit of the students

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. academic irregularities, negative behavioural changes and interpersonal relations, detrimental activities etc
5. Advise students in their career development/professional guidance

Number of students enrolled in the

Number of fulltime teachers

Mentor : Mentee Ratio

institution		
4444	297	1:15

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
341	297	44	2	230

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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!				
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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
40	4606	0.87%

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=50&pid=12

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
No Data Entered/Not Applicable !!!					
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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/Exit%20Feedback%20-%202017%20Convocation-1.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
No Data Entered/Not Applicable !!!				
View File				

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
No Data Entered/Not Applicable !!!		
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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
No Data Entered/Not Applicable !!!				
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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
No Data Entered/Not Applicable !!!		
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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
No Data Entered/Not Applicable !!!				
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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
No Data Entered/Not Applicable !!!					
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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
Architecture	1

Bio-Engineering	17
Chemical Engineering	2
Chemistry	7
Civil Environmental Engineering	2
Computer Science Engineering	7
Electrical Electronics Engineering	12
Management	17
Mathematics	5
Pharmaceutical Sciences Technology	22
Physics	5
Remote Sensing	1

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)
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!	
View File	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!						
View File						

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
No Data Entered/Not Applicable !!!						
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
No Data Entered/Not Applicable !!!				

No Data Entered/Not Applicable !!!

[View File](#)

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)
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!				
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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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!			
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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 activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!				
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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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!					
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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
No Data Entered/Not Applicable !!!			
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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
5178.13	2445.1

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
No Data Entered/Not Applicable !!!	
View File	

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 partially)	Version	Year of automation
KOHA	Fully	16.05	2004

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
View File			

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
No Data Entered/Not Applicable !!!			
View File			

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	1163	22	4500	0	0	39	17	220	0
Added	151	0	200	0	0	0	0	100	0
Total	1314	22	4700	0	0	39	17	320	0

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

320 MBPS/ GBPS

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
No Data Entered/Not Applicable !!!	

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
925.5	658.96	1690.5	1197.19

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.

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
No Data Entered/Not Applicable !!!		
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 implementation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			
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 passed in the comp. exam	Number of students placed
No Data Entered/Not Applicable !!!					
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
4	4	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

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

No Data Entered/Not Applicable !!!

[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	Department graduated from	Name of institution joined	Name of programme admitted to
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No Data Entered/Not Applicable !!!

[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
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No Data Entered/Not Applicable !!!

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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
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No Data Entered/Not Applicable !!!

[View File](#)

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
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No Data Entered/Not Applicable !!!

[View File](#)

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 ex, 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

5.4.2 – No. of registered Alumni:

1992

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

3859000

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. His 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 abroad. 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
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.
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.

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.

Teaching and Learning

The teaching and learning process involves theory classes which are complemented by 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.

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

E-governance area

Details

<p>Planning and Development</p>	<p>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.</p>
<p>Administration</p>	<p>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.</p>
<p>Finance and Accounts</p>	<p>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.</p>

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.

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.

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
No Data Entered/Not Applicable !!!				
View File				

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)
No Data Entered/Not Applicable !!!						
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
No Data Entered/Not Applicable !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
2	Nill	Nill	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
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NA	0	NA
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6.4.3 – Total corpus fund generated

12466000

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	Null	No	Null
Administrative	No	Null	No	Null

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)

NA

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
No Data Entered/Not Applicable !!!					
View File					

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
Seminar on Gender Specific discrimination / harassment of	13/01/2015	13/01/2015	70	Null

women

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

9.05

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	55
Provision for lift	Yes	55
Rest Rooms	Yes	55
Special skill development for differently abled students	No	Nil
Any other similar facility	Yes	5

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	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
No Data Entered/Not Applicable !!!							
View File							

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	01/07/2015	NA

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
AWARENESS OF INSTITUTE OF CODE OF CONDUCT	10/07/2015	10/07/2015	50
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

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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/Two%20BEST%20PRACTICES.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 vision of the Institute is to become a globally recognized academic institution in consonance with the social, economic and ecological environment, striving continuously for excellence in education, research, and technological service to the Nation. Contribute to national needs through dissemination of knowledge, research and development, and technological service : BIT Mesra has a vision to be recognized as a world-class institution catering to engineering and technological education and research. Today, it has moved beyond the fulfillment of a scholastic promise to re-defining education and making its mark through significant contributions to knowledge and national needs. The thrust areas are: • Remote Sensing • Space Engineering and Rocketry • Civil and Environmental Engineering

The Department of Remote Sensing at BIT Mesra has been disseminating knowledge of satellite remote sensing technology and its applications since 1997 through research and post graduate academic courses like M. Tech. (Remote Sensing) and M.Sc. (Geo-informatics) degree programmes. The notable research activities of the department includes, Development of methodology to detect the pollutants in flowing river water, Development of algorithm for mineral mapping on the surface of the moon, Development of Drought Modelling Software, etc. The department established the line of Tropic of Cancer passing near Ormanjhi area of Ranchi using Differential and Geodetic Global Position System (GPS). Institute was the first technical institution to establish a Department of Space Engineering Rocketry way back in 1964. It was also the first to establish static rocket test firing facility and to offer P.G. programmes in the strategic areas in association with the Indian Space Research Organization (ISRO). The Department aims to provide state of art education and training to its students to enable them to contribute efficiently in the National efforts being made in the fields of Space Defence related technologies and challenging future missions. The Department also provides research facilities at doctoral and postdoctoral levels in the fields of Aerodynamics and Flow Studies, Propellant Technology, Rocket Propulsion and Combustion. The Department of Civil Environmental Engineering has been contributing significantly in mitigating problems related to mine slope stability and disaster management issues across India. Faculties are involved in designing of stable slope for mine over burdens and engaged in its safety management. They are also part of the National Rural Road Development Authority, which contributes to the nation's road building endeavors. The department also played a role in the development of cost effective toilets based on gender sensitivity, in rural and government schools of Khunti, Hazaribagh and Deoghar districts. Research in multiple areas such as waste water treatment, environmental remediation using FENTON process, nano materials and fuzzy algorithm is being carried out and technical research papers are being published in reputed journals. In addition various other research works are pursued in multi - disciplinary areas related to core Civil Engineering discipline.

Provide the weblink of the institution

[https://bitmesra.ac.in/UploadedDocuments/admnaac/files/Institute%20Distinctiveness\(1\).pdf](https://bitmesra.ac.in/UploadedDocuments/admnaac/files/Institute%20Distinctiveness(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 initiatives to majority of UG programs.
- 3) Accreditation to PG Programs.
- 4) MOU's with Industries and Academic Institutions.
- 5) To promote invited talks in various departments.