



Yearly Status Report - 2016-2017

Part A

Data of the Institution

1. Name of the Institution		INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE
Name of the head of the Institution		Prof. S Sadagopan
Designation		Director
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		918041407777
Mobile no.		9845600014
Registered Email		registrar@iiitb.ac.in
Alternate Email		dean-academics@iiitb.ac.in
Address		26/C, Hosur Rd, Electronics CityPhase 1, Electronic City
City/Town		Bengaluru
State/UT		Karnataka
Pincode		560100

2. Institutional Status	
University	Deemed
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Prof. Debabrata Das
Phone no/Alternate Phone no.	08041407777
Mobile no.	9632795795
Registered Email	das@iiitb.ac.in
Alternate Email	director@iiitb.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.iiitb.ac.in/aqar
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4. Whether Academic Calendar prepared during the year	Yes
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if yes, whether it is uploaded in the institutional website: Weblink :	https://www.iiitb.ac.in/includefiles/userfiles/images/pdf/Calendar-and-Holiday-list-of-2016.pdf
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5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.08	2014	05-May-2014	06-May-2019

6. Date of Establishment of IQAC	01-Aug-2014
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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
Preparatory term for	09-Jul-2017	151

M.Tech students	1
View File	

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
No Data Entered/Not Applicable!!!				
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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 :

2

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)

1. Planning for organizing the Conference and Workshops 2. Review of Academic Rules 3. Planning for conducting the orientation program for New batches 4. Remedial Classes for academically weak students 5. Strengthening of Alumni Association

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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
Continue conducting preparatory term for M.Tech students	Brought all students to the uniform level of understanding as needed for IIITB courses
Continue preparing Admission Analytics for leadership team	Continued to see improvement seen in GATE/JEE cutoff scores

Implement Prabhu Committee Report on Senate structure	Improved diversity of Senate memberships
New specialization named Signal Processing and Pattern Recognition started	Broadens the expertise of students with representatives across multiple functions and disciplines
Start special initiative called "Guided Study" for poor-performing students	Helped students repeat courses of earlier semester while continuing with current semester. Removed the need for students to lose an year
Institute separate GOLD MEDALS for iMTech and M.Sc. (Digital Society)	Since these programmes will be graduating students for the first time, having a separate medal provided separate recognition to M.Tech, iMTech and MscDT top rankers
Create branch change process	Students who missed out getting admitted getting their branch of choice got an opportunity to change branch by showing good performance in the first year of study.
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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Institute Senate</td> <td style="text-align: center;">05-Oct-2017</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Institute Senate	05-Oct-2017
Name of Statutory Body	Meeting Date				
Institute Senate	05-Oct-2017				
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	2017				
Date of Submission	06-Dec-2017				
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 institute has a cloudbased ERP to take care of the Management Information System pertaining to students encompassing modules for Pre admission, Admission, Attendance, Programs and Courses, Examinations, Results, Fees and Payments, Completion (graduation). The ERP produces reports which can be used to manage the				

student's activities, programs and different courses. Information can be retrieved batch specific wise and for the entire institute as well. AIIITB applicant can apply online through the ERP, see the status of his/her application and also know the result /outcome of his/her selection through the ERP. Status of the admission is automatically updated on the portal and accessible to the applicants. The admission information on the institute website is quite comprehensive and self-explanatory. Besides the portal and ERP support there is also a help desk available for telephonic enquiries pertaining to admission. All aspects of merit list generation, display, fee remittance, receipt etc are taken care of by the ERP. The system configures the mid semester exams, internal assessments, quizzes and end semester exams and produces the final result after processing. So the ERP is an MIS solution for the campus from admission to graduation of students, taking care of all intermediary processes in a seamless manner. Other MIS standalone systems include hostel management, student campus entry/exit management, Campus people count management etc. A Comprehensive Library Management Information and Retrieval system called Lybsys is also in place. The Finance related MIS is operated through an ERP accounting software called Tally which takes care of the entire gamut of financial accounting, inventory management, pay roll, purchase, fee receipts, refunds etc.

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
Mtech	Master of Technology	Nil	Data Modeling DB 210;DS/SE 603;DS 603;CS 605	Nil
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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
Mtech	Information Technology	Nil
Mtech	Electronics Systems Design	Nil
Integrated(PG)	Computer Science Engineering	Nil
Integrated(PG)	Electronics and Communication Engineering	Nil
MSc	Digital Society	Nil

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
Microsoft Word and Excel	01/09/2016	107
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
Mtech	Information Technology/ Electrical Systems and Design	474
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes

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

Feedback Obtained

At the end of the year feedback was obtained from Alumni, Parents, Employers, Students and Faculty. Dean (Academics) consolidates all the feedback and renders a report to the IQAC and also to the faculty members in a faculty meeting. This ensures continual improvement. Some of the improvements that resulted from the feedback are appended below: - Course instructors were given the freedom to invite industry experts whenever needed as part of the course. - Consequence of feedback from Alumni Staggering of time table was introduced where-in classes will end with a gap of 15 minutes to give enough time to clear out the crowd. - Consequence of feedback from parents that there was long waiting time for lunch in the food court. MoU was signed with HP, Microsoft, VMWare to procure academic licenses for proprietary tools. - Consequence of feedback from some employers that in addition to using open source tools, they suggested use of proprietary tools as well. Additional TA's were approved for large classes. The norm of one TA for every 30 students was introduced. - Consequence of feedback from students that they wanted timely feedback on quizzes and assignments. Additional smart boards were introduced in 4 additional class rooms (302,303,309,310). - Consequence of feedback from faculty members that as part of classes (e.g., math-oriented courses) they wanted digital boards integrated with laptop and projector.

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
PhD or DPhil	Nil	25	92	14
MS	Master of Science By Research	15	73	11
MSc	Digital Society	30	59	6
Integrated(PG)	Electronics Communication and Engineering	30	530	38
Integrated(PG)	Computer Science and Engineering	90	990	71
Mtech	Electronics Systems and Design	30	183	28
Mtech	Information Technology	150	966	147
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2.2 – Catering to Student Diversity

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

Year	Number of	Number of	Number of	Number of	Number of
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	students enrolled in the institution (UG)	students enrolled in the institution (PG)	fulltime teachers available in the institution teaching only UG courses	fulltime teachers available in the institution teaching only PG courses	teachers teaching both UG and PG courses
2016	Nil	782	Nil	41	Nil

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
41	41	5	11	11	5

[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)

IIITB has various channels of mentoring facilities available to its students. The main element of our mentoring programme is, however, targeted at the incoming cohort of undergraduate students. This is a particularly vulnerable group in terms of their age, the toll that a rigorous coaching schedule potentially can take on their physical and emotional well-being, as well as being their first experience away from a protective home environment. Our Student Mentor Programme (SMP) seeks to provide mentoring services to the first-year students so that they understand the challenges and opportunities at IIITB and develop a smooth transition to campus life. Through this programme, the mentors, a carefully identified group of senior students, attempt to proactively identify problems faced by their assigned set of mentees, and solve them personally, or bring them to the attention of concerned Institute officials at the right time. The SMP operates under the overall guidance and oversight of the Coordinator (Student Affairs) office. Nominations from senior students are invited before the incoming undergraduate cohort joins, the applications are scrutinized by a groups of faculty members and Institute officials, and mentor-mentee pairing is done with a suitable consideration of the branch and gender. The mentors are appropriately briefed and counselled by Institute officials as well as experts drawn from our student counselling partner firm. Every mentor is expected to work closely with a smaller group of 8-10 mentees for the entire year through physical interactions and using online group chat applications. The mentors are expected to help their mentees with questions and concerns related not only to academic and administrative matters related to the Institutes activities, but also provide an empathetic ear as the first sounding board for any pressing personal and inter-personal issues mentors are also expected to flag cases of deviant behavior, so that appropriate advice and counselling support could be provided to the concerned mentee on time. Orientation and induction sessions are conducted by the Director, Deans and Coordinators for our incoming batch of graduate level students also. The Student Activities Council and various other student led clubs and committees also interact with all the students at the time of joining to make them comfortable and ease their process of transition. The Institute makes available dedicated services of expert counsellors through a reputed counselling firm for all its students. Counselling services are provided in an online mode as well as in a physical face-to-face mode while maintaining the required confidentiality of the interactions. Senior Institute officials and faculty members, including the Director, are in regular contact with students of all batches and frequently interact with them in informal settings to enable free-flowing conversations. Such sessions also provide a useful platform for mentoring support and have particularly been found useful by our senior graduate students and research scholars.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
782	41	1:19

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned	No. of filled positions	Vacant positions	Positions filled during	No. of faculty with
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positions			the current year	Ph.D
41	41	Nil	3	41

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
2016	Prof Uttam Kumar	Assistant Professor	Certified Sentinel of Science Award Recipient
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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
Integrated(PG)	iMtech	1st Year Term 1	10/12/2016	22/12/2016
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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
Nil	782	0

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://www.iiitb.ac.in/programme-out-comes>

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
iMTech	Integrated (PG)	Computer Science and Engineering	49	49	100
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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://www.iiitb.ac.in/includefiles/userfiles/images/pdf/SSS-Report-2016.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
National	Prof Muralidhara VN	NetApp Faculty Fund	17/10/2016	NetApp India Pvt Ltd
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
P C Srinivasa Rao	660	COPAS - Deity, University of Twente
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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
Major Projects	1800	Media Lab Asia	21.58	21.58
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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
Workshop on Entrepreneurship	Information Technology	14/09/2016
View File		

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
Venkat Panchapakesan Memorial Scholarship	Chodisetty Lakshmi Sirisha (MT2015037)	Venkat Panchapakesan Memorial Scholarship	Nil	Student
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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
Nil	Nil	Nil	Edurecords Education	ClearTranscripts With EduRecords Digital Transcripts	17/08/2016

made Secure

[View File](#)**3.4 – Research Publications and Awards**

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Information Technology	4

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)
International	Information Technology	12	1.96

No file uploaded.

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
Information Technology	5

[View File](#)

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
The game of inverse chess (Chess played backwards in time)	Published	0901/CHE/2005	31/08/2016

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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
Adoption of dynamic spectrum access technologies: a system dynamics approach	Sridhar V.	Telecomm unication Systems	2016	Nil	IIITB	Nil

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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
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
Attended/Seminars/Workshops	7	6	Nil	2
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Prof. Debabrata Das	Tata Power Strategic Electronics division	Tata Power Services	3520000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Prof. Tricha Anjali	IT Security Course	Canara Bank	400000	4
Prof Chandrashekar Ramanathan	Sponsored M tech	Samsung R and D Institute India	19238000	119
No file uploaded.				

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
Raised and donated money and groceries	Aikyam/ Desire Society	Nil	70
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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
Technical Committee	Appreciation	Government of Karnataka	Nil
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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	Name of the activity	Number of teachers	Number of students
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	cy/collaborating agency		participated in such activities	participated in such activities
Blood Donation Day	Bangalore Medical Services Trust	Blood Donation Camp	1	90
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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
Student Exchange	Mr Dipesh Shah, MD(SRI-B) and Prof S Sadagopan, Director IIITB	Samsung Research IndiaBangalore (SRIB)	1080
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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
Industry Internship	6 months training programme	ABB	15/12/2016	15/06/2017	Aniket Kumar
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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
Samsung Research IndiaBangalore (SRIB)	01/09/2016	Student Exchange	30
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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
613	492.3

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Newly Added
Class rooms	Existing

Existing	220	50	220	50	60	30	30	1048	0
Added	60	40	60	0	0	20	0	0	0
Total	280	90	280	50	60	50	30	1048	0

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

1048 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
Media Center	https://iiitborg-my.sharepoint.com/personal/vishnu_raj_iiitb_orq/_layouts/15/onedrive.aspx?originalPath=aHR0cHM6Ly9paWl0Ym9yZy1teS5zaGFyZXBvaW50LmNvbS86ZjovZy9wZXJzb25hbC92aXNobnVfcGFqX2lpaXRiX29yZy9FbG5zREFnS0M0Qk9pbEFkTlhHOjJlb0JZN1d4YW5ETkNNNHFPMW
Lecture Capturing System	impartus
Recording Studio	https://youtu.be/zMlKtD3yFk8
Mixing Equipment and software for editing	https://www.blackmagicdesign.com/in/products/davinciresolve/studio

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
121.08	125.51	276.5	261.63

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 institute administration takes direct initiative in the maintenance and upkeep of infrastructure and support facilities. The Infrastructure and Maintenance committee headed by the Director oversees the maintenance of the buildings, classrooms, sports complexes and laboratories. Registrar, Chief Administration Officer, Chief Finance Officer and various committee heads monitors the quality of maintenance of infrastructure and equipment. Infrastructure and Maintenance committee Institute's Estate Office headed by Chief Administrative Officer (CAO), maintains the campus infrastructure, electrical installations and equipment through its preventive and post maintenance activities. In case of any repairs/ faulty equipment reported orally or in the Complaint Registers maintained for this purpose are immediately attended to through outsourced staff /team. Security Services - the Campus security is also outsourced and maintained by external agency which provides round the clock security. CCTV cameras are installed in all the prime locations of the campus for surveillance. Housekeeping Services Gardening have also been outsourced. Maintenance of Academic, Library, Laboratories, IT, Sports Hostel Facilities. Academic infrastructure and maintenance is under the

control of Dean (Academics) and technical staff assigned takes care of smooth functioning of classroom activities and teaching aids. IT, Library, Laboratories and Sports facilities and services are supervised by the respective faculty-in-charge and advisory committees. Institute Data Centre with the help of IT Committee through its inclusive IT policy provides Wi-Fi, Cybersecurity, Data management and recovery, licensed software, and highly refined server services round the clock with the supporting staff and maintain adequate computers accessories in Admin, faculty, Lab, and Classroom areas. Library facilities and services are well maintained by the library staff under the supervision of Library Committee and of the facilities with the help of housekeeping staff and provides its users a conducive learning environment with flexible timings for reference to its print resources and electronic resources round the clock without any physical barriers through campus internet and remote access facilities. Library committee strives to provide the optimal support in terms of teaching and learning resources and continuously looks out ways for improvement in providing the facilities and services to its patrons. through faculty recommendation , Feedback and Suggestions from campus community. Sports Complex and recreational facilities are handled by the Qualified Sports Officer and the facilities are maintained by the Campus Maintenance Committee. Sports equipments are periodically inspected and necessary repairs are done as and when required and new gears are purchased accordingly. A separate Sports Committee comprising mostly students overseesthe day to day maintenance. Medical facilities: A Clinic with a Doctor and a nurse is available on campus. Institute has a dynamic network with local hospitals which provide ambulance facilities in case of emergency and also inpatient admissions in those hospitals. First-aid kits are kept handy and always available at the security desk near the Reception area.

<https://www.iiitb.ac.in/procedures-and-policies>

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	Institute Scholarship	59	3758500
Financial Support from Other Sources			
a) National	Government and Non Government Scholarships	169	23501000
b) International	Nill	Nill	Nill

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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
Awareness of Trends in Technology	02/05/2017	125	Prof. S Sadagopan ,Prof. Madhav Rao ,Prof. Chetan parikh

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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
2016	Samsung RD India (Tech Pre-Placement) Talk	Nil	230	Nil	206
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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
7	7	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
99 Dots (Microsoft)	18	1	Hilti	3	3
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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
2016	1	Mtech	Information Technology	Eberhard Karls University of Tübingen	PHD
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	175
No file uploaded.	

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

Activity	Level	Number of Participants
Independence Day	Institute	128

Celebration

[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
2016	Microsoft Machine Learning And Data Science hackathon	National	Nil	1	IMT2014027,IMT2014048	Chandana Kotta and Shashank Motepalli

[View File](#)

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

The Student Activities Council (SAC) is a student-elected, student-member body, consisting of equal membership from under-graduate and post-graduate students. It is an elected student body which consists of regular and full-time students only, as per the recommendations of the Lyngdoh Committee set up by the Ministry of Human Resource Development, Government of India. A structured election system is followed and students of all degree programs at the Institute select a set of eight SAC members every year. The elected SAC members decide on allocating portfolios among them based on competency and interest. SAC act as a bridge between the Institute administration and the student community. It steps in to address students grievances related to academic and administrative matters. SAC meets regularly to resolve student concerns and plan for various student led curricular and extra-curricular activities on campus. Various Student Committees are formed to guide and involve students such as • Alumni Committee collaborates with alumni • Branding Committee maintaining a presence on various social media platforms and poster design. • Food Committee interfaces with the food vendors for the mess. • Infin8 Committee organizes the annual cultural event. • Placement Committee placement-related activities. • Sports Committee organizes sports events throughout the year. Student Clubs Aikyam help the poor and the needy in the society. 8Bit magazine run by the students. Dance Club organizes dance events and competitions. Parvaaz (Theatre Club) performs theatre and street plays. Music club organizes musical nights and perform at all key events of the Institute. Aksh (Litureture Club) forum to showcase their poetic and story writing abilities. Debate Club to enhance their interpersonal skills, communication and leadership capabilities. Enigma (Robotics Club) to develop interest in Robotics and Artificial Intelligence. SPICMACAY IIIT Bangalore Chapter organizes classical music, dance, folk arts and classic cinema screenings. Lean In Club promotes and mentors female students in computing, open source and research. Zense Club conducts Hackathons and promote Open Source culture. Movie Club to develop acute movie watching skills, depth in film viewing and appreciation. Events and Festivals: • Infin8 three-day annual event with simulation games, cultural activities and fun field games. • Yamini annual event takes place on 31st October. It consists of dance and music performances by renowned artistes across the country. • Spandan annual sports event conducted in March. The three-day event is fully loaded with outdoor as well as indoor games. • Sangam annual event exclusively for the alumni organized by the Alumni Committee. •

Foundation Day celebrated on 15th September, every year. • Convocation Day held on 1st Sunday of July, every year. • Ramanujan Math and IT conference (RMIT) is annual event is held in remembrance of mathematician, Srinivasa Ramanujan. • Research Innovation, Society Entrepreneurship (RISE): The three-day event to showcase the Institutes focus and contribution in research and innovation dimensions. • Winter School is a three-day annual event by CITAPP. • Summer School aims to give students knowledge on algorithmic and theoretical aspects of machine learning.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

2450

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

778000

5.4.4 – Meetings/activities organized by Alumni Association :

2

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)

Efforts of the Alumni committee (Profs GS Raghavan, CEO, Outreach Placement Officer) resulted in visit of Prof. Sadagopan and Mr DV Jagadish, CEO Outreach to US for the launch of North America chapter of IIITB Alumni Association, Group of Professors visited and commenced mentoring of IIIT Dharwad in October 2016, On Nov-9, 2016 a group of Professors launched a Cyber Security Research Centre, Efforts of a group of Professors fructify in the form of seed grant accorded to E -Health Research Centre (EHRC) on November 10, 2017. On Nov-29, 2016 Web Science event goes live globally with significant contribution from IIITB group of faculty and students, As a result of a group of Professors in the E Health Research Centre (EHRC), a MoU was signed between MoU signed between IIITB and NIMHANS on December 05, 2016 for joint research, December 15, 2016 Faculty members retreat and brainstorming on strategic planning on vision, mission and objectives of IIITB. A group of Professors conducted FLAIR 2017 - one week training programme for Faculty from various colleges of Kerala commenced with effect from February 27, 2017, On March 03 , 2016 a group of Professors belonging to IT and Society domain conducted a three day Internet Researchers Conference Organised by the Centre for Information Technology and Public Policy, IIITB the Centre for Internet and Society (CIS), A committee of Professors and students organized a three day conference titled Research Innovation Society and Entrepreneurship from April 07. From April 22-23 , 2017 a group of Professors and students organized Hack for Smarter Cities, hackathon was conducted with active participation, May 10, 2017 - Faculty members retreat and brainstorming on strategic planning on vision, mission and objectives of IIITB.

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

Yes

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	The admission process in IIIT Bangalore is transparent and merit based. IIITB gives advertisement on the website for each program. Potential students applied. For iMTEch IIITB considers JEE MAIN organized by Ministry of Education Govt. of India. For MTEch IIITB considers GATE exam. For PhD, MS by Research and MS for Digital Society students written test, followed by viva. If someone has good GATE score preferred for MSR and PhD admission.
Industry Interaction / Collaboration	IIIT Bangalore has multiple sponsored projects, consulting from industry and special also academic programs for industry, etc, which shows a strong and long industry interaction and collaboration from the day of inception. We have also a IAB (Industry Advisory Body), where multiple industry leaders in ICT areas interact with Dean-RD and others for vision for next niche areas RD. Accordingly we shape multiple research portfolios in institutes.
Human Resource Management	IIITB has recruited adequate number of faculty members, Lab staff, admin staff and finance staff according to the guidelines mandated by the board and management bodies. The faculty and staff are being supported by various facilities etc. for their professional growth and personal health
Library, ICT and Physical Infrastructure / Instrumentation	IIIT-Bangalore has a well equipped library with physical books, e-Books, journals, class lectures, and other academic requirements. IEEEExplore and other latest journals in IIITB library helps a lot the research students and faculty for their research activities. In post graduate level, faculty members also refers latest papers and books in class. The above licenses of journals in library helps the students a lot. It has also uses Koha ILM system to help the management of library. IIITB has state of art ICT support to faculty, staff and students. It has a high end virtual computing system and multiple servers. Whole campus is covered by latest generation WiFi access points and management software. The state of

art WiFi management takes care of all kind of wireless band allocation to security related issues. Each lab also well equipped with various instruments too for courses and RD activities.

Research and Development

IIIT Bangalore gives a lot of stress to research and development along with teaching. Here the faculty selections one of the major criteria is their research potential. Each faculty members publishes in good journals and conferences. For all the young faculty members, moment they join, the institute gives Rs 5 lakhs to set up their research activities. If more fund needed for RD, the institute also supports case by case basis. Research scholars (PhD) have to publish in good venue for writing their thesis. imTech and MTech students also encouraged and evaluated according to their RD output. The institute also encourage to set up research Labs. All the faculty members write research proposal and being funded from Govt of India, Govt of Karnataka and many other MNCs.

Examination and Evaluation

Each course has we approved examination pattern. Like, class test, midterm, assignments, final exam, viva etc. The exam pattern discussed and approved during the curriculum design and Senate meetings. Each course concerned faculty member present the exam pattern and marks distributed for each exam to students. After the written exams and assignments evaluation, the students are shown the answer scripts. By the above process student come to know where the stand and where to improve. After the above process, the final grading is done

Teaching and Learning

The teaching and research have been focused very seriously by IIITB authority. In this process of teaching, each faculty members student feedback analyzed by competent authority. The students feedback are anonymous. This feedback process are done time to time. Meetings to discuss academic output of subject from respective subject in a stream and program are also routine part of practice. In the meeting after rigorous discussion the proper suggestions to improve on the teaching learning practices are communicated to the concerned faculty for consideration and implementation and the loop is

	closed during the same meeting in same academic year or semester
Curriculum Development	<p>IIIT Bangalore is an autonomous and Deemed to be university. Chairman of the Senate forms a committee for a program. The curriculum development for each program is done by faculty expert of that area by multiple discussions and meetings. Then the curriculum is presented to all the faculty members. Later to Senate members. Senate consists of senior faculty members of IIITB, eminent externals and other members. Curriculum is being discussed and modified if any Senate suggestion. Later the final copy of the revised curriculum is presented to Senate again for approval. Similarly each course designed by a faculty, presented to all the faculty members, then to Senate.</p>

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

E-governance area	Details
Planning and Development	<p>The Director is the executive head of the institute. The basic planning and development is conceived, executed and monitored by two main councils - The Administrative Council (comprising Director, Registrar, CAO, CFO, Manager IT, CEO Outreach) for administration, infrastructure and day to day running and the Deans' council (comprising all Deans) which plans and administers academic and research activities. The overall management at the strategic level is approved and monitored by the Governing Body (https://www.iiitb.ac.in/governing-body) for vision and administrative aspects and by the Senate for the Curriculum and Syllabi. All aspects of Governance, mandatory disclosures etc are given on the institute's website at https://www.iiitb.ac.in/about-us.</p>
Administration	<p>The Registrar along with CAO steers the overall administration of the institute to provide a learner friendly and research friendly atmosphere in the campus. The administration is proactively responsive with all stake holders of the campus community in loop, viz. Students through SAC (Students' Activity Council), faculty, staff, parents and the alumni. Utmost transparency is maintained in all the decisions and overall administration. The institute complies with all the</p>

regulatory bodies viz., UGC, AICTE, Department of Education, Government of Karnataka and participates in all its surveys, seminars and conferences to ensure that the overall administration is in sync with the policies and orders passed by these agencies. Frequent feedback is sought from all stakeholders through formal/informal meetings, surveys and various modes of communication.

Finance and Accounts

Finance and Accounts is steered by Chief Finance Officer, formerly Adviser (Finance). The institute follows Accounting Standards as promulgated by the Institute of Chartered Accountants of India (ICAI). All financial and other related authority in the Institute vests in its Governing Body. To facilitate smooth operation of the affairs of the Institute, the Governing Body delegates its authority to the Director in his capacity as the Chief Executive of the Institute, with powers to sub-delegate except in case of items of authority that are specially reserved for exercise by the Director or other designated Officer of the Institute. All financial transactions are mostly done digitally through online banking and in a few cases through cheque (Account payee only). Petty cash facility is available to meet daily exigencies with certain financial authority with the Director. The institute finance is audited through a two-layer robust auditing process comprising Statutory auditors who conduct an annual audit and Internal auditors who conduct a half yearly audit. The institute's audited statements are available in the Annual Reports which are uploaded on the institute website at <https://www.iiitb.ac.in/annual-reports>.

Student Admission and Support

All admissions are through an automated process through ERP, the link for which is available in the institute website <https://www.iiitb.ac.in/admissions> for each of the programs. A IIITB applicant can apply online through the ERP, see the status of his/her application and also know the result /outcome of his/her selection through the ERP. Status of the admission is automatically updated on the portal and

accessible to the applicants. The admission information on the institute website <https://www.iiitb.ac.in/admissions> is quite comprehensive and self-explanatory. Besides the portal and ERP support there is also a help desk available for telephonic enquiries pertaining to admission. All aspects of merit list generation, display, fee remittance, receipt etc are taken care by the ERP. An open house is organized on the day of admission (day 1) where student friendly counters are set up for document verification, hostel allocation, student number allocation etc. Parents are also apprised of the curriculum, infrastructure facilities and various other administrative aspects concerning the students.

Examination

The entire examination process is steered by the Controller of Examinations. A comprehensive examination infrastructure is in place for conduct of examination in physical mode and in online mode. Various tools of evaluation like projects, assignments, quizzes, thesis, internships, mid-term examination and end term examinations are employed. For the mid-term and end-term examinations, the institute has adopted a paper-less digital tablet/ exam-pad where students can write their exams using an electronic scribe. Professors can also evaluate online at their own time and space. Evaluated answer books are sent to the students digitally for their perusal and feedback. This system also facilitates question wise analysis of each of the answers. For on-line examinations, a system is in place for on-line proctoring. An ERP portal facilitates an automatic generation/downloading of transcripts / marks card by the students themselves. The entire system of examination is thus transparent and automated at various levels.

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

2016	Prof. Jaya Sreevalsan Nair	Germany Conference	Nil	99141
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)
2016	Workshop on Learning Management System	Nil	01/06/2016	01/06/2016	5	Nil
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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
Talk by Prof. Ajay Joshi, Boston University	32	09/08/2016	Nil	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
41	41	41	41

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident fund, Gratuity, Group Insurance Scheme (GIS), Medical Reimbursement, On Campus Doctor facility, Counselling Services	Provident fund, Gratuity, Group Insurance Scheme (GIS), Medical Reimbursement, Campus Doctor facility, Counselling Services	Insurance, Paper Presentation, Money, Conference Seminar/ Workshop fees, Campus Doctor facility, Counselling Ser

6.4 – Financial Management and Resource Mobilization

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

Institution conducts internal and external financial audits regularly. Internal Auditor is appointed by the Governing Body of the Institute. M/s Rao and Swami, Chartered Accountants is our Internal Auditor. Internal Audit are carried out in each half of the financial year. The Institute has a strong internal audit

system. Queries raised by the auditors during the course of the audit are clarified by the finance team. The finance department requests clarifications from the respective teams/departments with respect to the queries raised during audit. Based on the explanation and examination of the documents, delegation of powers, Finance and HR manual, Internal Auditor will issue Audit report. Appropriate corrective measures, wherever required, are taken and necessary follow up is done to ensure compliance to the Audit Comments. This audit examines and report, whether the management policies and guidelines are properly implemented, compliances with the various Acts and regulations and the Internal control system is adequate and the extend of deviations and financial impact thereof. Audit reports placed before Audit and Finance Committee of the governing body and after its recommendation, it will be placed before the Governing Body. Our External/Statutory Auditors is M/S Rao Associates, Chartered Accountants, whose appointment is recommended by the Governing body and approved by the Members of the Society in the Annual General Meeting of the Society. The External Auditor conducts the audit after the close of the financial year. The scope of audit is to report on the true and fair view of the financial statement of the institute. Auditor also reports whether the financial statement has been prepared in accordance with generally accepted accounting practices in India, in particular mandatory accounting standards issued by The Institute of Chartered Accountants of India has been complied with. The auditor examines the books and records, Income and Expenditure Statement, Receipts and Payments, and balance sheet and the internal audit report. Audit report ensure/covers the following aspects. • Sufficient and appropriate evidences are available for entries made in books of account • All transactions are being recorded in books of account, i.e. there is no omission • Information contained in the financial statements is clear and unambiguous • Amounts shown in financial statements are properly classified, described and disclosures are made in conformity with applicable accounting Standards • Financial statements reflect true and fair view of financial results and financial position as on the Reporting date. Auditor report was placed before the Audit and Finance committee of the governing body and after its recommendation, it is paced before the Governing body. The financial statement along with audit report is finally adopted in the Annual General Meeting of the members of the society and afterwards it will be filed with the Registrar of the Society.

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
Infosys Foundation	160762951	Construction of New Academic Block
No file uploaded.		

6.4.3 – Total corpus fund generated

98426859

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Indian Centre for Academic Rankings and	Yes	Institute Senate / Sub Committee of

		Excellence Pvt Ltd		IQAC
Administrative	Yes	Indian Centre for Academic Rankings and Excellence Pvt Ltd	Yes	Chief Administrative Officer / Sub Committee of Governing Body

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

Not Applicable

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

1. Open House seminar on Program curriculum, infrastructure facilities, Medical facilities, Medical insurance facilities, counselling facilities, fees etc for I M Tech, M Tech and M Sc Digital Society programs. 2. Post mid-semester counselling and appraisal for parents of students with inadequate performance in academics conducted by Academic Performance Monitoring Committee (APMC) 3. Informal feedback session with parents on Convocation Day. 4. Talk by Campus Doctors to the parents on Open house day (Day 1) 5. Talk by Campus Counselor Dr Nalini Dwarakanath on Open house day (Day 1)

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

1. Effective Communication Skills 2. In-house Training on Library Automation using OSS 3. Managing Conflicts and Difficult Conversations at Workplace. 4. Workshop on Managing personal and professional roles

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

1. Initiative #1: Increased Automation 2. Initiative #2: Curriculum Reviews 3. Initiative #3: Increased interaction with external experts 4. Initiative #4: Specializations 5. Initiative #5: Helping under-performing students

6.5.6 – Internal Quality Assurance System Details

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

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2016	Planning for organizing the Conference and Workshop	05/07/2016	15/09/2016	Nil	13

[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
International Womens day Celebration	08/03/2017	08/03/2017	80	18

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
Replaced 350 numbers of 40 Watt Tube lights with 20W LED lights in all the hostel rooms to save 50 of power in Hostel lighting.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	2
Braille Software/facilities	Yes	1
Rest Rooms	Yes	2

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
2017	1	1	01/03/2017	1	An Initiative to teach E-city slum children	The students empowers its neighbouring rural areas through the various departmental social sensitization programmes	70
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Student Welcome Kit	27/07/2016	Orientation conducted for students at the time of joining the Institute.

The students were informed about the rules of regulations of the Institute. The student welcome kit was reviewed and improvised each year by the Dean (Academics) and Programme Coordinators based on analysis and feedback from various stakeholders such as hostel, library, food court, security etc

Code of Conduct of Staff and Faculty

30/06/2016

The general code of conduct of staff and faculty was created. It was a basic document on the rules and regulations. Additional information was added each year based on the queries raised by various stakeholders such as Faculty, Staff and Project Staff. The Registrar is responsible for the HR of the Institute.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
an orientation session with SPIC MACAYs history and activities across India	10/08/2016	10/08/2016	88
View File			

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

1) New Sewage Water Treatment Plant - To meet increased demand of sewage water treatment capacity due to expansion of academic blocks, a new STP with capacity of 50KLD is installed to ensure zero discharge of water to municipality drains (in addition to existing 140KLD plant) 2) Old News papers - Institute donates old news Papers to orphanage homes, which they can sell to recycling plants. 3) All the CFL Tubes lights of Hostel blocks are replaced with LED Tube lights (350 plus rooms) 4) 11.5KVA solar panels installed in available terrace space of Academic block to generate appx 40-55units of Electricity per day. 5) Rocky cricket ground is converted into natural green grass ground

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1. - Motivating Undergrad (and Master's) Students for Higher Studies and Research Objectives The main objective is to motivate the students, specially the undergrads, to continue their academic journey after their graduation (preferably without any break) and pursue higher studies (PhD). The

Context The current trend among majority of the students at IIIT Bangalore is to go for a job after their graduation. Given the fact that several big MNCs provide highly lucrative job offers to the students through campus placements, the number of students who opt for higher studies (PhD) after their graduation is terribly low. This is in contrast to the situation around a decade back, where at least 10-15 of the students of most of the elite institutes of the country, used to pursue PhD immediately after their graduation. Given the rigorous training imparted to the students of IIIT Bangalore (specially to the undergrad students) in terms of the courses taught by some of the best teachers of the respective subjects, it is very disheartening to see such low number of students interested to further widen their academic knowledge, with majority of the students ending up their academic journey with their graduation. Hence IIITB took it as a mission to motivate students to pursue higher studies. The Practice As part of the Discrete Mathematics course, a core course to the dual-degree students during their 3rd semester, some topics from cryptography were introduced, such as the Diffie-Hellman key-exchange protocol and the RSA public-key cryptosystem. These topics as an application of the concepts taught in the Discrete Maths course, such as number theory and group theory was introduced. A good number of students indeed got fascinated by seeing that how the topics covered as part of the course are ended up in solving challenging real-world cryptographic problems. A small subset of these students ended up taking advanced elective courses, related to cryptography. These courses cover both the fundamentals of cryptography, as well as state-of-the-art in the area of cryptographic protocols. To sow the seed of ability to do research, the assessments for these elective courses are done only in the form of take-home research assignments and paper presentations. The assignment component contains research questions, taken from various research papers and students are supposed to search those research papers on their own, read them, understand them and come up with the solutions. Through the paper presentation part, the goal is to enable the students read and understand state-of-the-art research papers related to the topic and present them. This also helps to identify open research problems, which a subset of students end up taking for their thesis work. Thus, both the components of the assessment serve the same purpose as literature survey for a PhD research scholar. Evidence of Success The above strategic approach to promoting research through my courses has had a visible outcome, in terms of the research publications in top avenues by the undergrad students and also in terms of the number of students, who ended up pursuing PhDs from top schools in the world. Over the last 5 years, the following iM.Tech and M.Tech students did their thesis under me and they are now pursuing PhD at various top universities. • Naganad Yadati (M.Tech 2016, now PhD student at Indian Institute of Science) • Yashvanth Kondi (iM.Tech 2017, now PhD student at Northeastern University) • Laasya Bangalore (iM.Tech 2018, now PhD student at University of Rochester) • Gayathri Garimella (iM.Tech 2018, now PhD student at Oregon State University) • Rishabh Bhadauria (iM.Tech 2018, now PhD student at Bar-Ilan University) • Rahul Rachuri (i.M.Tech 2019, now PhD student at Aarhus University) The thesis work of most of the above students lead to the following significant research publications. • Yashvanth Kondi, Arpita Patra: • Laasya Bangalore, Ashish Choudhury, Arpita Patra: • Ashish Choudhury, Gayathri Garimella, Arpita Patra, Divya Ravi, Pratik Sarkar: • Rishabh Bhadauria, Ashish Choudhury • Harsh Chaudhari, Rahul Rachuri, Ajith Suresh Problems Encountered Theoretical cryptography is a very challenging and highly advanced mathematical science. Typically, students find it very difficult to appreciate the abstract concepts taught in the course. Hence, there are not several takers of the elective courses related to cryptography. Also, the current trend among the students is to take mostly AI and ML-related courses, as they feel that these help in getting good placements. Getting motivated students who are genuinely interested to do research in theoretical computer science is indeed a very challenging task. However, the institute could manage to get a small but a

steady supply of students who end up doing thesis with me and pursue their PhD. This could be attributed to several factors, such as word of mouth from the senior students to junior students, the past performance of my thesis students and the video lectures of my courses which are available on NPTEL.

Best Practice 2- Chit-chats by individual professors with research students

Objectives

The Objective of this practice was to create a space where individual professors can meet doctoral students in an informal setting and share their experiences and wisdom. Such sharing teaches them invaluable lessons in pursuing research, handling challenges and roadblocks, and also becomes a starting point of establishing a connection with professors. Secondary objectives were to enable doctoral students to interact more with each other, and to open the possibility of faculty members and doctoral students interacting with each other one-on-one. The context Doctoral students, particularly in Indian engineering institutions, typically do not get opportunities to interact with professors other than their own thesis supervisors. They also do not have many opportunities to interact with each other, and their social circle is usually limited to other students in their own research groups. Such an environment often leads to feelings of loneliness and an inability to handle challenges - technical as well as emotional - which inevitably arise during their 4-6 year research tenure. As the numbers of doctoral students is usually much smaller than undergraduate and post-graduate Master's students at any university, the preponderance of the focus of the university administration, as well as of extra-curricular student activities, is on these latter, and the unique challenges of doctoral students most often get ignored or get addressed only superficially. An earnest interaction with the doctoral students about what the university could do specifically for them led to a few innovative ideas. The one presented here was the most effective and long-lasting. The Practice Monthly "Chit-chat with a faculty" sessions were organized specifically for doctoral students. For each session, one faculty member was invited to have an informal chit-chat. The theme of the chit-chat was for the faculty member to share their personal experiences of their own PhD days. In particular, how they decided to pursue a PhD, what challenges they faced during their PhD, how they handled these challenges, what lessons they learned, and what advice they would like to give to the doctoral students. Each session was followed by tea biscuits, to provide a time for continued informal interactions. Faculty members were very honest and open in sharing their experiences, and often shared things they had not shared with anyone else! The sharing of experiences naturally led to questions from the doctoral students, which further led to very interesting and insightful discussions on engineering, jobs after PhD, one's attitudes towards pursuing research, handling one's advisor, recognizing one's own limitations and acknowledging them, the purpose of life, and so on. Typically 10-20 doctoral students attended each session. Over a period of time, a more warm culture of interaction between professors and doctoral students emerged. Doctoral students made new friendships among themselves as a result of these sessions, and these have proven to be of immense value as emotional and intellectual support systems. Evidence of success Monthly sessions of any kind whatsoever typically fizzle out after the first few months of enthusiasm. The "chit-chat" sessions have continued unabated for more than two years, with a consistently good participation from the doctoral students, which is its first evidence of success. The first few sessions were entirely organized by a faculty member (the Coordinator of Student Affairs). But after these, students themselves volunteered to take over their organization, and continued it with equal enthusiasm. This was its second observable evidence of success. The relationships that were formed, the quality of the discussions in each session, the feedback from each faculty member who came and shared their experiences and expressed how unique and invaluable these sessions were - all of these were the more intangible evidences of success.

6. Problems encountered and resources

required No problems were encountered. The resources required were a classroom for holding the meetings, and a small budget for tea-biscuits at the end of the meetings.

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

<https://www.iiitb.ac.in/best-practices>

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

1. A clear focus on our raison d'être - It is our vision to leverage the power of Information Technology to transform the lives of individuals and society through continuous innovation in IT education, research, and entrepreneurship.

2. Over two decades of excellence in IT education - As a deemed-to-be university, we have consistently been at the forefront of IT education and innovation for the past 21 years. Intersecting between technology and society, IIITB has grown in stature to become a highly reputed institute with its unique model of education, research, and industry interaction.

3. A global outlook and an industry-ready curriculum - We attract students from all over India and abroad and have the unique distinction of selecting 100 students on merit, pushing up the level of discourse and peer group at the institute. We offer interdisciplinary courses which criss-cross information technology and social sciences.

4. Research Focus - Research is the driving force at IIITB which has three key research centres with customized infrastructure and multiple labs managed by a group of expert Faculty members. Research on the campus is showcased through different forums round the year such as IIITB Rise, Samvaad talk series, conferences, presentations and publications.

5. World-class Faculty - We have outstanding faculty drawn from some of the best institutions across the world such as MIT, Cornell University, Pennsylvania State University, University of California Berkeley, IISc, and University of Toronto. The institute's pool of distinguished professors has the right mix of academic expertise, research experience, global industry exposure and insights.

6. 100 Placements - IIITB has recorded 100 placement with major companies in the areas of product, hardware, research and development consistently visiting the campus. Students have also bagged international offers with record salaries. Some of the consistent recruiters include Cisco, Morgan Stanley, TCS, Accenture, Telstra, MediaTek and MathsWorks.

7. A vibrant Alumni community - We are proud of our 3300 alumni, many of whom currently hold leadership positions in over 100 blue-chip MNCs and large companies in the areas of IT products and services, in India and abroad.

8. Innovation Hub - IIITB Innovation Centre collaborates with exceptional researchers, innovators, entrepreneurs, users, and communities to co-create knowledge and socially-relevant solutions using cutting-edge technologies for a wide range of social needs. Our portfolio of solutions and startups help us, our communities and our governments. The centre nurtures research-led innovations, and offer pre-seed and seed-stage investments.

9. Campus and Location: The nine-acre main campus in Electronic City, the heart of the IT Industry in Bengaluru, has five main buildings with facilities like Innovation Centre, academic blocks, research labs, state-of-the-art classrooms, playground, library, food court, four student residence halls, medical room and multipurpose hall.

10. World-class facilities and amenities: The institute has around 90,000 sq. ft. of air conditioned space. The campus has modern facilities for various outdoor and indoor sports. A modern 900 seater auditorium-cum-conference complex is almost ready for inauguration.

Provide the weblink of the institution

<https://www.iiitb.ac.in/distinctiveness>

8.Future Plans of Actions for Next Academic Year

1. Launch RISE and Samvaad One of the strengths of IIITB is that it imparts research-led-education. Research-led-education means that students get to learn not only from text books but from extensive research experience of highly qualified faculty members who have obtained PhD from some of best institutions from India and abroad. The "Research-in-the-air" initiative focuses on providing platforms and avenues for faculty members to discuss, present, collaborate and learn based on each other's research work. The initiative gives ample opportunity for students also to get an immersive experience to conducting high quality research as well. Samvaad and Research Innovation Society and Entrepreneurship (RISE) Symposium are going to be started as part of this initiative.

2. Technology-enabled learning environments IIITB has strongly believed in providing technology-enabled environments for both students and course instructors in order enhance the overall experience of both. For example, IIITB was one of the first institutions in the country to provide campus-wide Wi-Fi access to faculty and students. This was augmented with learning management systems (LMS) since 2007. This was followed by setting up of advanced private cloud. As part of the post-accreditation initiatives, further boost is going to be given to technology-enabled learning environments. Class room infrastructure is further modernized by including audio systems for every class room, lecture capture solution with camera for recording lectures and providing recording of the same to students.

3. Increased Leadership Focus With the institution growing in size, focus would be on creating additional academic and administrative leadership positions. These positions help drive forward the IIITB vision and strive to take IIITB to greater heights in rankings and accreditations. Separate posts of Dean (Academics), Dean (RD), Dean (Faculty) along with Associate Dean (Academics) are created as part of this initiative. Faculty members are given opportunities to serve as faculty-in-charge of different functions such as scholarships, placement, sports, student affairs, programme coordinators, etc.

4. New Gold Medals In order to individually recognize top-ranked student in each degree programme separately, special initiative will be taken to institute separate Gold Medals for each programme separately. New Gold Medals for Integrated M.Tech., MSc (Digital Society) is instituted as part of this initiative.