Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**HERITAGE INSTITUTE OF TECHNOLOGY (AUTONOMOUS)**
Name of the head of the Institution	**Prof. (Dr.) Pranay Chaudhuri**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**03366270622**
Mobile no.	**9830014571**
Registered Email	**principal@heritageit.edu**
Alternate Email	**admin@heritageit.edu**
Address	**994 Madurdaha, Chowbaga Road, Anandapur, P.O.- East Kolkata Township, Kolkata-700107**
City/Town	**Kolkata**
State/UT	**West Bengal**

Pincode	**700107**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**21-Jul-2014**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Prof. (Dr.) Dinabandhu Bhandari**
Phone no/Alternate Phone no.	**03366270681**
Mobile no.	**9830770921**
Registered Email	**dinabandhu.bhandari@heritageit.edu**
Alternate Email	**admin@heritageit.edu**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.heritageit.edu/AQARAndIQACpdf/AQAR_HITK_2017_2018.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.heritageit.edu/PDF/AcademicCalendar2019.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B++**	**2.76**	**2017**	**22-Feb-2017**	**21-Feb-2022**

6. Date of Establishment of IQAC	**18-Feb-2016**

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
SAR submitted to NBA for B.Tech. programmes in AEIE, BT, ECE and ChE. Expert Committee visit awaited	01-Feb-2019 3	431
SAR submitted to NBA for the B.Tech. programme in CE. Expert Committee visit awaited	18-Feb-2019 3	139
SAR submitted to NBA for the B.Tech. programme in ME. Expert Committee visit awaited	30-Apr-2019 3	146
Revision of UG & PG syllabus following AICTE guidelines	08-May-2019 4	4165
IQAC meeting	01-Aug-2018 1	4165
IQAC meeting	09-Nov-2018 1	4165
IQAC meeting	01-Mar-2019 1	4165
IQAC meeting	24-May-2019 1	4165
Participation in NIRF	08-Apr-2019 1	4165
Merging of CAC, HIT offering MCA programme with HIT	30-Apr-2019 3	189

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
Heritage Institute of Technology	TEQIP II	MHRD, Govt. of India & Govt. of West Bengal	2012 4	60000000
Heritage Institute of Technology	Autonomy	Self	2014 6	0
Heritage Institute of Technology	UGC U/s 2(f)	Self	2010 100	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	4
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)

?Inclusion of Practical and Sessional papers in the Supplementary Examination of 3rd and 4th semester for final year M.Tech. and 7th and 8th semester of final year B.Tech. and 5th and 6th semester of final year MCA.

?Finalize a guideline to preserve the answer scripts. After a round of deliberations by the council members in the 17th Academic Council meeting, it was decided to preserve the answer scripts for 4 (four) years for B.Tech., 2 (two) years for M.Tech. and 3 (three) years for MCA.

?Reviewed the progress of several club/group activities in the implementation of MAKAUT guidelines regarding Mandatory Additional Requirement for earning B.Tech. Degree from the AY 2018.

?Recommended to update the Course Structures and detailed syllabus for B.Tech. and M.Tech. programmes following AICTE Guidelines. Provision for Honours course in UG programme are also included.

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

Plan of Action	Achivements/Outcomes
1. Modification of Examination Rules: To Scrutinize the existing examination rules with respect to engagement of Paper Setters and Moderators which runs as follows: "Based on the recommendations of the respective HOD's	1. Based on the experience it has been decided to continue the present practice

and approved by the Principal, the COE will appoint two paper setters for independently framing two sets of question papers and also at least one moderator, who should be an external subject expert, for each course code."	
2. Possibility of merger of (Computer Application Center (CAC) with the institute.	2. Approval received from AICTE for the merging of Computer Application Centre (CAC) with the institute.
3. Review of activities of various clubs/groups in the implementation of MAKAUT directives regarding Mandatory Additional Requirement for earning B.Tech. degree.	3. The progress is found to be satisfactory for implementation of the same.
4. Revision of course structures for B.Tech. and M.Tech. programmes following AICTE model curricula.	4. Worked out the requisite details (course structures and detail syllabus) for implementation of the same from Academic Year 2018.
5. Possibility of setting up a guideline to preserve the answer scripts.	5. After a round of deliberations by the council members in the 17th Academic Council meeting, it was decided to preserve the answer scripts for 4 (four) years for B.Tech., 2 (two) years for M.Tech. and 3 (three) years for MCA.
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Academic Council	**25-Sep-2019**

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	**2019**
Date of Submission	**06-Feb-2019**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**The following functions have been implemented through ERP: • Student Attendance • Faculty / Staff Attendance and Leave Management • Library**

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
BTech	2nd Year	AEIE, BT, ChE, CE, CSE, ECE, EE, ME, IT	08/05/2019
Mtech	2nd Year	AEIE, BT, CSE, ECE, RE, VLSI	08/05/2019

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
BTech	Entrepreneurship	03/10/2018	Entreprerna 2018	03/10/2018
BTech	Personality Grooming	07/08/2018	IRIS 2018	07/08/2018
Mtech	Personality Grooming	07/08/2018	IRIS 2018	07/08/2018

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	zero	30/06/2019

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	AEIE, BT, ChE, CE, CSE, ECE, EE, ME, IT	01/07/2018

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
Ardent Computech Pvt Ltd	02/07/2018	65
Siemens Limited	02/07/2018	71
Jadavpur University	02/07/2018	41
BOSCH	02/07/2018	46
Abacus Digital Pvt Ltd.	02/07/2018	14

IIATCA	02/07/2018	16
Skill Academy of India	02/07/2018	8
Internshala	02/07/2018	123
HP Enterprise	02/07/2018	18
OGMA	02/07/2018	23
TCS Onternship	02/07/2018	10

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	AEIE, BT, CE, ChE, CSE, ECE, EE, ME, IT	1057

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

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

Feedback Obtained

The Institute has specific mechanism for receiving feedback from different stakeholders. Feedback system from the students: An online feedback system as per the guidelines of the Institute is conducted with participation of students. Feedback system from the Members of Faculty: Each of the Members Faculty has to appear for an open session with the Principal and the Management separately. Various aspects including the students' feedback, academic performance, interest of Members of Faculty in the area of research, publication, administrative activities, problem solving aptitude towards the industries, commitment towards the society are being assessed from this open session. Feedback system from the Employers: The Institute collects feedback from the employers of different industries on a regular basis. Feedback so received is being analyzed and the students are being trained as per industry need. Feedback from Alumni: Recommendations received from the Alumni Annual Meet on various aspects of infrastructural facilities and curriculum part of the Institute are being discussed by the appropriate authority and necessary measures being adopted. Feedback from Parents: Degree Awarding Departments collect feedback from parents of concerned students and necessary action is being taken accordingly.

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
BTech	CSE+ECE+AEIE+IT +BT+CHE+ME+CE+E	945	933	933

	E				
Mtech	CSE+ECE+VLSI+CHE+BT+RE	126	42	42	
MCA	MCA	60	51	51	

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
2018	933	93	197	21	218

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 Toolsand resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
218	218	4	52	45	3

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

In all the departments, faculty mentors are assigned to individual students who monitor the performance of students under their mentorship. Problems related to academic performance are reported to the concerned faculties and/or to the HOD and due support are extended to the respective students. Problems related to any continued absenteeism are reported to the respective parents as well. Class room teaching whereby the teacher is typically the central focus of a lesson and the primary disseminator of information during the class period. The teacher responds to questions while students defer directly to the teacher for guidance and feedback. Here individual lessons are focused on an explanation of content utilizing a lecturestyle. Flipped class room method, a learner centered model in which class time explores topics in greater depth and creates meaningful learning opportunities. This type of active collaborative learning allow for highly differentiated instruction.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
933	218	1:30

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
218	218	0	6	95

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
2018	Prof. (Dr.) Pinaki Bhattacharya	Professor	Adjudged IIChE Awards for the year 2018 : IIChE NRC

| 2018 | Prof. (Dr.) Swami Vedajnananda | Professor | Elected as President of the Section of Engineering Sciences for 2018 in the 106th Session of the Indian Science Congress held on Jan 2019. Award for Excellence for Outstanding Contribution to Public Service from HIT 2018. |
| 2018 | Prof. (Dr.) Soma Banerjee | Assistant Professor | Selected as Nominee to CPCSEA (Committee for the Purpose of Control Supervision of Experiments on Animals), under Ministry of Environment, Forest and Climate Change Animal Welfare Division, Govt. of India. |

(Top row partially visible: "Award 3rd Best Paper in Indian Chemical Engineer 2017")

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
BTech	CSE,ECE,AEIE,IT ,BT,CHE,ME,CE,E E	Odd	19/12/2018	26/02/2019
Mtech	CSE,ECE,VLSI,CH E,BT,RE	Odd	18/12/2018	26/02/2019
MCA	MCA	Odd	18/12/2018	26/02/2019
BTech	CSE,ECE,AEIE,IT ,BT,CHE,ME,CE,E E	Even	29/05/2019	10/07/2019
Mtech	CSE,ECE,VLSI,CH E,BT,RE	Even	28/05/2019	10/07/2019
MCA	MCA	Even	28/05/2019	10/07/2019
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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
0	9979	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)

http://www.heritageit.edu/Programmes.aspx

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
UG	BTech	CSE,ECE,AEIE,IT,BT,CHE,ME,CE,EE	1036	923	89.09
PG	Mtech	CSE,ECE,VLSI,CHE,BT,RE	36	36	100

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)

zero

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

3.1.2 – 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	zero	zero	30/06/2019	zero

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	2	MODROBS AICTE (AEIE)	14.14	11.31
Major Projects	2	DST, Govt of India	10.5	4.65
Major Projects	2	MODROB AICTE (BT)	4.65	3.72
Major Projects	2	AICTE, CDAC	32	5

		(ECE)		
Minor Projects	1	DBT funded BIRACSRISTI project	2	0
InternationalProjects	3	European Union	12.5	0
Major Projects	3	DST Nano Mission, CSIR	207	19.9
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3.2.2 – The institution provides seed money to its teachers for research,

0

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
One day workshop on emerging trends in Civil Engineering	Civil Engineering	22/04/2019
Entreprerna2K18 organized	Chemical Engineering	03/10/2018
Technical event "CHEMSpark", an interinstitute engineering event	Chemical Engineering	22/01/2019
Seminar on Foundry	Mechanical Engineering and IIF Kolkata	27/03/2019
Lecture on "Current Petroleum and Natural Gas Scenario and Attainment of Sustainable Development in this Regard"	Mr. Bikram Ghosh, (Lubes Technical Sales – Kolkata), IOCL and alumni of 2015 batch	13/02/2019
The Global trend in Dye Sensitised and Perovskite Solar Cells: Newgeneration Photovoltaics (HITK, IndiaGreat Cell Solar, Italy)	Chemistry, HIT, Kolkata	13/07/2018

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
Waste plastic aggregate and products like bricks and made therefrom	Ranjan Kumar Gupta	Kerela startup mission	15/07/2019	Entrepreneurship
Vaccine against fire smoke	Mahima Choudhuri, Amisha	IIEST Shibpur	04/11/2018	Innovation Challenge, INSTRUO 2018

Blood transfusion embelism detection using ARDUINO	Riya Dutt, Billodal Roy and Anjani Kumar Singh	IIT Kharagpur	18/01/2019	First Prize in EUREKA at KSHITIJ (Tech fest)
Brain tumour deetction	Taniya Jaiswal	IIT Kharagpur	18/01/2019	Third Prize in EUREKA at KSHITIJ (Tech fest)
NonPt and nonC catalyst generation in Fuel Cell	Rajib Adhikary	Haldia Institute of Technology	02/08/2018	Best in RA2M, 2018
PID in PV cell	Mihir Acharya	Haldia Institute of Technology	02/08/2018	Best in RA2M, 2018

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
zero	zero	zero	zero	zero	30/06/2019

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
zero	0

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	AEIE, BT, CE, ChE, CSE, ECE, EE, ME, IT	24	2.73

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
AEIE, BT, CE, ChE, CSE, ECE, EE, ME, IT	38
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
zero	Filed	0	30/06/2019

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

Ref attached excel file	zero	zero	2019	0	Ref attached file	0

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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
Ref attached excel file	zero	zero	2019	0	0	Ref attached file

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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	27	2	23	4
Presented papers	5	4	0	0
Resource persons	1	11	0	0

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)
zero	zero	zero	0

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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
zero	zero	zero	0	0

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
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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

Technology Education	Best Engineering College award	ASSOCHAM	4165
Technology Education	# 1 Engineering College in West Bengal	Education World	4165
Technology Education	Graded AAAA	Career 360 Outlook Group	4165

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
One Student One Tree	MHRD	Tree Plantation	10	250
Celebration of International Day of YOGA	AYUSH, Govt. of India	Promotion of YOGA	45	0
YOGA for students	Heritage Institute of Technology	Performing YOGA	15	450
India Chip Program (Make in India Initiative)	Heritage Institute of Technology	32Kb Memory IP Design of a Microchip (Mercury2)	1	8

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
Development of Novel Electroflotation / Electrocoagulation Enhanced Membrane Module for Oily Waste Water Treatment	Dr. Dwaipayan Sen (Co-PI)	Jadavpur University, funded by DST, sanction order no: DST/TSG/AMT/2015/276	3
Joint Publications, Workshop Organization, Faculty Exchange Program HIT, Kolkata IIM, Calcutta IIEST, Shibpur Missouri University of Science and Technology, USA, University of Kentucky, USA Jadavpur University	HIT, Kolkata IIM, Calcutta IIEST, Shibpur Missouri University of Science and Technology, USA, University of Kentucky, USA Jadavpur University	ITRA, MCIT, Govt. of India	3
Research Project with IPGMER,	Prof. Soma Banerjee	DST, Govt. of West Bengal	3

Kolkata, RG Kar Medical College Hospital, Kolkata					
eCOE (Electronics Center of Excellence)	Prof. Atanu Kundu Prof. Mousiki Kar	IEEE EDS, USA			5
Workshop Organization, Faculty Exchange Program	Prof. Dr. Jayati Datta, Prof. Dr. Abhijit Mandal, Prof. Dr. Piyali Paul, Prof. Dr. Enakshi Dinda	ITRA, MCIT, Govt. of India			3

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
Project Work	M Tech Project	CSIR CGCRI	01/07/2018	30/06/2019	1
Research Work	Ph.D.	School of Community Science, IIEST Shibpur	03/12/2018	31/12/2019	1
Internship	Internship	Sun Oil Company Pvt. Ltd., Kolkata	03/06/2019	15/07/2019	5
Summer Training	Internship	NJIT	03/06/2019	15/07/2019	8
Internship	Basic and advanced level training	M/s Sankalp Semiconducto r	03/06/2019	28/06/2019	14
Project Work	Basic and advanced level training	eCOE (Electronics Center of Excellence)	10/06/2019	14/06/2019	47
Project Work	Basic and advanced level training	CDAC , Kolkata	03/06/2019	15/07/2019	1
Project Work	Basic and advanced level training	DXCorr Hardware Technologies Pvt Ltd	03/06/2019	28/06/2019	8
Ph.D. work	Research	IIEST, Shbpur IACS,	01/07/2018	30/06/2019	4

Kolkata SINP, Kolkata University of Bern, Switzerland			
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
M/s. Samriddhi Organics	14/09/2018	Development and manufacture of food and personalcare products	8
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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
60	66.12

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LIBSYS	Fully	LSEase	2016

4.2.2 – Library Services

Library	Existing	Newly Added	Total

Service Type						
e-Books	11000	0	0	0	11000	0

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platformon which module is developed	Date of launching e-content
zero	zero	zero	30/06/2019

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing									
Added									
Total									

No Data Entered/Not Applicable !!!

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

200 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 incurredon maintenance of physical facilites
150	141.3	200	207.96

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)

Available in the Institutional website.

https://www.heritageit.edu

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	Please ref attached	0	0

from institution	excel			
Financial Support from Other Sources				
a) National	zero	0		0
b)International	zero	0		0
View File				

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Mentoring	30/07/2018	4085	All Departments
Extra classes for lateral entry students	03/09/2018	167	All Departments
No file uploaded.			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	Please refer attached excel	0	0	0	0
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
1	1	20

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
65	1151	560	28	650	73
No file uploaded.					

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	62	Engineering	BTech	IIT,	Refer Excel

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	110
CAT	27
GRE	15
TOFEL	2

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

Activity	Level	Number of Participants
Autonomous Robotics Workshop 'Lord of the Tracks 1.0'	Institution Level	40
Inter Departmental Elocution Competition organized to Celebrate National Science Day and Commemoration of 125 Birth Anniversary of Prof. S.N. Bose	Institute Level	120
3rd Inter College Competition on Prototype Design for Mankind (3rd ICCPDM)	Inter College Level	120
Yoga on the occasion of International Yoga Day	Institute Level	45
No file uploaded.		

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
2018	2nd position	National	1	0	1552052	Ms. Mayurakshi Mukherjee
2018	2nd position	National	1	0	1552131	Ms. Rupam Kumari
2018	2nd position	National	1	0	1652093	Mr. Shashi Kumar
2019	2nd position	National	1	0	1552052	Ms. Mayurakshi Mukherjee
2019	3rd	National	1	0	1552052	Ms.

| | | | | | | Mayurakshi Mukherjee |

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

Students' Council create a conducive environment for teaching learning process and overall development of the students. Presently Students' Council has been kept in abeyance for some unavoidable circumstances. However, all the activities related to Students' Council are being conducted through various club activities headed by Faculty InCharge. Due to non existence of Students' Council, students representation in various bodies does not arise.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

https://heritageit.almaconnect.com/

5.4.2 – No. of registered Alumni:

10498

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

1049800

5.4.4 – Meetings/activities organized by Alumni Association :

Quarterly

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)

• Each degree awarding department has a Departmental Academic Committee (DAC) consisting of the faculties of the respective departments. The DAC is delegated to take all the academic and other department related decisions. All academic decisions of the DAC are placed before the departmental Board of Studies (BOS) that includes external experts from academia and industry. The decisions of the BOS of each department are then presented to the Academic Council which makes final recommendations for approval by the Board of Governors (BOG). • Members of Faculty are nominated as members in various Committees / Bodies and allowed to recommend their suggestions / proposals for various academic and administrative activities of the Institute to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, cocurricular, and extracurricular activities. They are given authority to conduct industrial tours and to have tie up with industry experts and appointed as coordinator and convener for organizing seminars/workshops/conferences/FDPs.

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
Teaching and Learning	? The strategy on improving the quality

		of teaching has been started by prioritizing the need to continue to improve students' attendance and their ability to access the curriculum. To help bring about these improvements, the institute has initiated mentor system comprising of teachers in charge and senior students who keep constant touch with fresher. The actions the Institute has adopted to improve the quality of teaching and learning include: Revisiting the exiting teaching and learning strategy, with a clear focus on creating independent and resilient learners • Integrating all skills strategies to sustain the development of skills across the curriculum • Introducing home assignment and class room quiz • Redefining marking and feedback practice • Employing best possible teachers for working towards consistently outstanding teaching by sharing best practice, challenging and supporting staff • Introducing evaluation of teachers' performance ability through learners' feedback at the end of the semester.
	Examination and Evaluation	The Institute having been an autonomous status, focussed its strategy on continuous improvement in its examination process. Smooth conduct of examination with maximum attention on its clarity and validity are the main objectives of the Institutional examination arena. The Rules and Regulations and structure are being framed as per the guidelines of the competent authorities. ? The actions the Institute has adopted for quality examination, evaluation system include : • The Institute has its own Statutes, Rules and Regulations in place. • Two paper setters submits two sets of question papers which are moderated by the external expert moderator to maintain the quality standard. • Since the Institute follows continuous evaluation system students have to appear two internal assessment tests in each semester. These examinations are also conducted by the respective Section. • The Institute conducts examination on a semester basis as per the Examination Rules laid down in Statutes, Rules and Regulations. • Special Supplementary Examination for the 1st and final years students have

		been introduced for their academic benefits. • Conduction of examination and publishing results are strictly followed as per the Academic Calendar. • Online facilities are provided to students for submitting examination forms, fees, downloading admit card, grade cards and provisional certificate at the end of the course.
	Research and Development	? The Institute has adopted as a strategy the combined and unceasing efforts of everyone¬ researchers, teachers and technical staffs to make changes that will lead to better patent outcome, better system performance, and better professional development. All these three goals have been focused with equal weight age. Quality improvement is achieved through a variety of methods which include systematic reviews, controlled trials, case reports, and hybrid quantitative/qualitative reports. These different methods have different strengths. ? Rigorous evaluations of the research outcome is assessed by the Institute by emphasizing a diagnostic process that first identifies barriers, then addresses the most important barriers with specific interventions, and, finally, evaluates the effects of the different interventions through rigorous evaluation designs. In each year in recognition of commendable research the institute offers awards to concerned faculty members. ? The Institute as a strategy encourages research partnerships with various stakeholders, such as industry institute collaboration, researcher of educational institute of national importance, and implementers. The Institute strongly feels that such partnerships are necessary in order to understand what types of knowledge are needed and how that knowledge can best be developed.
	Library, ICT and Physical Infrastructure / Instrumentation	? The Library is well equipped with standard text and reference books. Students avail the facilities of borrowing one text books on each subject for the semester long time. The Library housed in a well spacious room where students can sit and read reference books and journals. Members of Faculty can also avail of the facility of borrowing books as well as

	get the access of research journals for their RD activities. Ejournals and Ebooks related to Engineering Technology are received through IEEE (ASPP). Besides the Institute also subscribes for NPTEL, a joint initiative of IITs and IISc Bangalore funded by MHRD, GOI. ? All departments are equipped with their own computer facilities with sufficient number of computers. The entire campus is WiFi connected for 24 hours net surfing and online study. All students are provided with unique email id for having any time access to Institute related information. ? Each department of the Institute are having sufficient number of classrooms, laboratories, tutorial rooms, workshops, seminar halls as per the norms laid down by the regulatory bodies. ? Laboratories and workshop are well equipped with working instruments and equipments as per the specified syllabus. ? Institute posses licensed softwares, viz., Fluent, MatLab, QualComm, Cadence, Mentor Graphics, Xilinx Vivado, Synopsis TCAT etc. ? Online facilities are being created for submission of semester fees.
Human Resource Management	? This is managed as per the Service Rules of the Institute. ? Selection norms of Members of Faculty and Staff are guided by the Rules of affiliating University. ? Members of Faculty are encouraged to participate in Faculty Development Programmes for improving their teaching quality. Faculty members on Ph.D. track are allowed leave as per the Institute Rule to carry out the research work at educational institutes of repute.
Industry Interaction / Collaboration	? Academic curricula and syllabi are supplemented keeping in view the requirements of industry by regular interactive workshops, seminars and shortterm courses with active participation of academic and industry. Close connectivity with industries like TCS, EFRAC, Vikram Solar, M/s. Sankalp Semiconductor, Emami Cement, Star Cement etc. to name a few helps the students to get a first hand feel of the industry environment during their course of studies. M.Tech. project of Energy Engineering course under the Department of Chemical Engineering is carried out at Vikram Solar. ? The

	Institute has MOU with different industries to strengthen its research activities and industry readiness of the students.
Admission of Students	? Admission of students are guided by the Government Order issued by the Department of Higher Education, Govt. of West Bengal. 80 seats are being filled up by WBJEE candidates, 10 by JEE Mains and the rest under Management Quota for candidates qualified through WBJEE / JEE Mains examination. ? Lateral Entry of Diploma holders and B.Sc. degree holders admitted through JELET conducted by WBJEE Board in the 2nd year with an additional intake of 10 of the approved intake.
Curriculum Development	? Revision of course structures following AICTE guidelines for B.Tech. and M.Tech. programmes ? The Institute adopted Choice based free elective subjects for the B.Tech. students. ? Based on topographical consideration elective papers are offered to the B.Tech. students.

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

E-governace area	Details
Planning and Development	ERP system for managing and tracking administration and maintenance activities.
Administration	• Employees HR related information are being managed through an MIS software. • Procurement of different goods and services are being carried out with the help of an MIS software
Finance and Accounts	• Accounting functions of the Institute are being managed through a accounts related software.
Student Admission and Support	• The Institute has a system to record students information in the students database at the time of admission in UG PG courses and various data analysis are being conducted based on the same.
Examination	• Examination Form Fillup, Fees Payment, issuance of Admit Card and publication of results.

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	Name of the professional body for which membership	Amount of support

Year				support provided	fee is provided	
2018	Sabyasachi Banerjee	International Conference on VLSI Design and Embedded System, 2018		VLSI Society of India	10000	
2018	Kaustav Bakshi	International Conference on Mechanical Engineering, 2018		Jadavpur University	6000	
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	zero	zero	01/01/2019	30/06/2019	0	0

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
1. STEM Teacher Training Workshop on ResearchBased Pedagogical Tools (Level1), organized by DBT, Govt of India IISER Pune.	2	23/09/2018	26/09/2018	4
2. Refresher Course on 'Recent Advancement in Food and Bioprocess Technology', organized by Department of Food Technology Biochemical Engineering, Jadavpur University.	3	02/01/2019	22/01/2019	21
3. Deep	3	24/06/2019	28/06/2019	5

Learning its Usuability through Hardware Interaction, organized by IIEST, Shibpur.				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
218	218	159	173

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
PF, ESI, Gratuity, Leave (CL, EL, ML, Maternity Leave), On Duty Leave, Bis Pickup / Drop, Canteen, Library	PF, ESI, Gratuity, Leave (CL, EL, ML, Maternity Leave), On Duty Leave, Bus Pickup / Drop, Canteen, Library	Scholarship, Library, Sports, Games, Recreational Facilities and subsidized Canteen

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 conducts Internal and External Audits at the end of every Financial Year. Audited Statements of Accounts are updated in our Institute website.

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
zero	0	0

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6.4.3 – Total corpus fund generated

0

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		No	
Administrative	No		No	

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

> • Annual meet between parents and the administration along with Members of Faculties is being held at the beginning of each Academic Session. • Mutual interaction taking place is then translated to effective measure for the academic and administrative developments. • Head of each department keeps constant touch with the parents for updating them about the progress of their

wards.

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

• Skill upgrade and training of support staff • All staff members are encouraged to attend seminars / workshops to keep in touch with latest theories / concepts on their practice areas • All staff members are encouraged to participate in sports, cultural activities, picnic organised by institute

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

SAR submitted for NBA Accreditation. Expert Committee visit awaited.

6.5.5 – 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

6.5.6 – 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
2018	Following AICTE model curricula, upgraded UG/PG course structures syllabuses.	09/11/2018	01/07/2018	30/06/2019	4165
2018	NIRF participation	28/11/2018	01/07/2018	30/06/2019	4165

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
zero	01/07/2018	30/06/2019	0	0

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
To have a pollution free environment and to meet the scarcity of electricity, the Heritage Group of Institutions have taken a step forward by installing a 100 kWh Stand Alone Roof Top Solar Power Plant at the Heritage Complex with the assistance of WBREDA and MNRE, New Delhi, which is first of its kind in the State of West Bengal. The campus is exquisitely landscaped with intertwined roads connecting various buildings inside the campus. It provides a tranquil surrounding with a backdrop of lush greenery, which offers an aesthetically pleasing and serene atmosphere, on one hand, and an intellectually stimulating pollution free environment, on the other. Constant efforts are made by the Institute to keep the campus plastic free.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	4165
Ramp/Rails	Yes	4165
Scribes for examination	No	0

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
2019	0	0	30/06/2019	00000	zero	zero	0

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
zero	30/06/2019	zero

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
COMPASS Freshers' Orientation Programme	25/07/2018	26/07/2018	935
Mentorship	01/07/2018	30/06/2019	4165

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

The initiatives are as follows: 1. Solar power installation has been done up gradation in process 2. Phasing out in process to make Campus Plastic free zone 3. Garbage disposal system to segregate bio degradable waste. 4. Rain water harvesting process initiated 5. Complete LED conversion from CFL in process.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

To encourage members of faculty staff, the Institute has introduced Award of Excellence in various categories. The details are available in the link given below.

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

https://heritageit.edu/PDF/BestPractices.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

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

institution in not more than 500 words Heritage Institute of Technology, by
virtue of its cutting edge quality of education, the uniqueness of its
teachinglearning process and the continuous emphasis on the allround
development of students, has created a niche for itself. A harmonious
integration of valued traditions with modern outlook is the guiding principle
behind the development of academic environment of the Institute. Besides the
required curricular activities, students are exposed to a number of other
programs like group discussions, interactive seminars, brain storming sessions
etc. - all designed to bring about qualitative growth of the students. Through
such programs, students are constantly motivated and encouraged to develop
their leadership qualities and improve their communication skills. There is a
constant endeavour on the part of the members of faculty and staff of the
Institute to help students in this grooming process. Although the assessment of
the students' performance is generally guided by the prevalent regulations, the
respective course teacher also adopts a continuous evaluation system
independently to track and record the overall growth of students.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

 i) Expansion of the Institute in respect of Academic Programmes ii) To impart
outstanding teaching and learning experience for all students at par with
international standards iii) Enhanced RD Activities iv) IndustryInstitute
Partnership v) Collaboration with Educational Institutions Initiative and action
plan: i. The Institute has taken active initiative for Merger of Institution
(Computer Application Centre, Heritage Institute of Technology, running MCA
programme since 2003), under the same Trust operating in the same Campus for
smooth academic and administrative functioning ii. The Institute has taken
initiative to introduce two new courses namely (i) Bachelor of Design (B.Des.)
and (ii) B.Tech. in Computer Science and Business Systems. It is intended to
start the course in the academic year 20202021 iii. The expansion strategy also
includes introducing Masters of Design (M.Des.) programme in near future as per
AICTE guidelines. iv. To impart outstanding teaching and learning experience for
all students at par with international standard, revision of existing curriculum
is done at regular intervals. v. Major emphasis is given to promote and sustain
an environment that supports high quality RD activities of the members of faculty
to improve the academic quality as well as to induct students in such RD
activities which is expected to develop better student quality in the long run.
vi. In order to motivate members of faculty in advanced RD activities, the
Institute as its strategic plan introduced an Award for Excellence for
outstanding research accomplishments among its fraternity. vii. With a view to
strengthen IndustryInstitute Partnership the Institute has set up two research
laboratories. viii. The Institute has also MOUs with the following organizations
(Government, Private and Public Sector).