Version 5 dated 12-01-2018 (23/5/2018)

Guidelines for the Creation of the Internal Quality Assurance Cell (IQAC) and Submission of Annual Quality Assurance Report (AQAR) by Accredited Institutions

DA -IICT AQAR (August 1, 2019 to July 31, 2020)

The Annual Quality Assurance Report (AQAR) of the IQAC (For Universities)

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. The AQAR period would be the Academic Year. (For example, August 1, 2019 to July 31, 2020)

<u>Part – A</u>				
1. Data of the Institution				
Dhirubhai Ambani Institue of Information and				
Communication Technology, Gandhinagar				
Prof. K. S. Dasgupta				
Director				
Yes				
079-68261572				
9327043614				
director@daiict.ac.in				
registrar@daiict.ac.in				
Near Indroda Circle, Gandhinagar, Gujarat				
Gandhinagar				
Gujarat				
382007				
Private:				
Co-education				
Urban				
Private				
Dr. Anil K. Roy				
079-68261613				

Mobile:	+91-9376163094
IQAC e-mail address:	iqac_dir@daiict.ac.in
Alternate Email address:	anil_roy@daiict.ac.in
3. Website address:	
Web-link of the AQAR:	https://www.daiict.ac.in/institute/iqac/
4. Whether Academic Calendar prepared during the year	Yes
Weblink	https://www.daiict.ac.in/academics/academic- calendar/
F. Acaraditation Dataila	•

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	А	3.11	2017	from: 27/11/2017 to: 26/11/2022
	<u> </u>		1- 1	

6. Date of Establishment of IQAC 29/04/2015

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture						
lt	Item /Title of the quality initiative by Date & duration Number of					
	IQAC		participants/beneficiaries			
a)	Regular meeting of IQAC	10/01/2020	15 members present			
b)	Submission of AQAR					
c)	Participation in NIRF	NIRF 2020	RANK - 91			

Note: Some Quality Assurance initiatives of the institution are:

(Indicative list)

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

- Participation in NIRF
- ISO Certification
- NBA etc.
- Any other Quality Audit
- 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/	Scheme	Funding	Year of award with	Amount
Department/Faculty		agency	duration	
Government of Gujarat	Anchor/Nodal	Government	2018 (2018-2023)	Rs. 10 Crore
	Institute	of India		(total grant)
		•		

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
10. No. of IQAC meetings held during the year:	1
The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website	Yes https://www.daiict.ac.in/institute/iqac/
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
 Significant contributions made by IQAC during the current year 	

^{*} Sensitization towards collecting inputs for improvement from the feedback

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

Plan of Action	Achievements/Outcomes
Aiming for NIRF & GSIRF Ranking	Ranked between 111 in NIRF 2019
	Four Stars rated in GSIRF Ranking

^{*} Analysis of feedback data started for the larger interest of the institute

^{*} All process owners (convenors of various functional committees) are asked to submit the process document of the functions they are accountable for. These will be the basic document to ensure quality and to measure improvements.

14. Whether the AQAR was placed before statutory body?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	No
16. Whether institutional data submitted to AISHE	Yes Year: 2019-20 Date of Submission: 31-01-2020
17. Does the Institution have Management Information System ?	Yes

The Institute has integrated Management Information Systems called 'E-campus'. The E-Campus generates various reports on students from admissions to graduation. There is a separate MIS to generate reports on financial results of the Institute. The list of modules operational in e-campus is as follows:

Student Admission System (SAS)

The module handles submission of online admission application form, payment of application fee, recording of national and institutional admission tests scores, generation of merit ranks and admission offers.

Student Registration System (SRS)

The module has outline of all courses for UG and PG programs. It enables the students to register for core / elective courses in each semester on line and pay the tuition fees. The system allows appropriate authorities to approve/decline the registration of courses and confirm receipt of fees. It generates reports on courses chosen by the students and fee collection.

Student Evaluation and Grading System (SEGS)

The module is used to upload grades obtained by the students in the courses, computation of semester results, declaration of results and student attendance. It generates several reports relating to the performance of the students.

Hostel Management System (HMS)

The module maintains records of hostel room allotment, all complaints on hostel administration and generates reports on hostel management.

Fee Collection

The module records the fee collection, generate reports on fee collection and fee receipts for the students for the reference. The students can download and print the receipts.

Financial results

The MIS on financial results is part of the financial and accounting system. This is a separate system and it generates reports on trends in receipts and expenditure and analytical reports on the financial performance of the Institute.

PART - B Criterion I — Curricular Aspects 1.1 Curriculum Design and Development 1.1.1 Programmes for which syllabus revision was carried out during the Academic year Name of programme Programme Code Dates of revision None 1.1.2 Programmes/courses focussed on employability/ entrepreneurship/ skill development during the Academic year **Course with Code Date of Introduction Programme with Code** Date of Introduction There are many technical electives that are being offered to students at UG and PG levels in Autumn and Winter semester. These courses are focussed on employability and skills development during the academic calendar. A list of selective courses in such category is enclosed for reference (Annexure 1.1.2). 1.2 Academic Flexibility 1.2.1 New programmes/courses introduced during the Academic year Programme/Course Date of introduction New Course approved in the 2019-20 Academic Year Autumn Semester 2019-20 Academic Year SC466 The Physics of Economics (UG Elective) SC467 Mathematical Modelling and Simulation (UG Elective) SC524 Parallel Distributed Dynamic Algorithms (PG Specialization) IT627 Cloud Computing (PG Elective) EL454 CAD of VLSI (UG Elective) Winter Semester 2019-20 Academic Year HM486 Development Trajectories (UG Elective) SC465 Analysis of Multidisciplinary Problems (UG Elective) SC468 Differential Equations and Applications (UG Elective) SC515 Approximation Algorithms (PG Elective) IT560 Specification and Verification of Computing Systems (PG Elective) IT562 Recommendation Engine and Applications (PG IT561 Advanced Software Engineering (PG Elective) The institute introduces an MSc in Data Science program in AY 2019-20. Details of this program are available at https://www.daiict.ac.in/course/m-sc-ds/ 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	UG	PG	Date of implementation of CBCS / Elective Course system	UG	PG
	Adopted since the beginning of the institute (2001).	Adopted since the beginning of the institute (2001).	2001-02	Adopted since the beginning of the institute (2001).	Adopted since the beginning of the institute (2001).

1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year The institute offers equal opportunity to all students to pick-and-choose courses that stimulate their intellectual capabilities and challenge their innovative muscles from the basket of elective courses in the kinds of technical (focused towards the state-of-the-art and their professional career-oriented), science (explorative and investigative) and open (societal, indirectly thought provoking, sensitive). The Institute invites many visiting faculty to offer some value addition courses in humanities and social sciences. Rural internship, design projects and semester long projects add important values in the teaching-learning process of all our programs.

1.3.2 Field projects / Internships under taken during the year

Programme / Course Name	No. of Projects / internship
BTech – Rural Internship (PC232)	318
BTech – Summer Research Internship (PC334)	259
BTech – Industrial Internship (PC333)	60
BTech Project (minor in CS) (PC428)	62
BTech Project (ICT) (PC426)	230
MSc (IT) – Summer Internship (PC649)	112
MSc (IT) Project (PC641)	113
MDes (CD) Project (PC714)	5

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution?

Students Feedback: Every semester, a structured course evaluation feedback is collected from students for all programmes in an online and anonymous mechanism. The course feedbacks are analysed and communicated to the course instructor in every semester. Feedback form is structured with the course plan, the course objectives, the course material, tutorial and laboratory sessions and the usefulness of the course. Students are also encouraged to express their additional views on each subject through the course evaluation feedback or through interaction with the course instructor. The course feedback is shared with the course instructor. Apart from the students' feedback on academics, an exit feedback on computing facility, resource centre, hostel, co-curricular activities, sports, cultural, general administration is collected from the students. The exit feedback summarizes the overall impression of the students' experiences in the respective programmes.

Faculty Feedback: Faculty are involved in core course design, devising elective course, and curriculum committee. Faculty share their views on the program inputs, outcomes, courses and project through faculty meetings held regularly and inputs from faculty are considered in all programs.

Employers Feedback: Employer feedback is collected during placement drives in every session. Employers share their fair assessment on the graduates with respect to observed skills and where the program can improve further. Industry experts are included as members in the curriculum revision of all programs and provide input on industry relevant courses to be included in the curriculum.

Alumni Feedback: Our alumni are connected virtually through the portal AlmaConnect. Alumni members share their views to the curriculum revision. In the annual alumni meet, they express their views and provide feedback to the institute. Individual alumni can also share his/her view with the Director, Deans and faculty over emails.

Parents Feedback: Parents participate in the orientation session of each program and share their views. Parents also visit the campus occasionally to drop in faculty office, deans' office, director office and in administration and provide their feedback and suggestion for the improvement of the programs.

CRITERION II - TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of	Number of applications received	Students Enrolled
	seats		
	available		
1. B.Tech. (ICT)	288	5449 – All India Applications	302
2. B.Tech. (Honours in	72	Gujarat state seats are being	74
3. ICT with minor in CS)		filled directly from ACPC	
4. M.Tech. (ICT)	64	422	64
5. M.Tech. (EC)	18	25	11
6. M.Sc. (IT)	120	624	120
7. M.Des. (CD)	20	34	13
8. Ph.D.	10-20	138	14

2.2 Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019-20	1319	414	-	-	65
	•		•		

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	Number of	ICT tools and resources	Number of ICT	Number of	E-resources
of	teachers	available	enabled classrooms	smart	and
teachers	using ICT			classrooms	techniques
on roll	(LMS, e-				used
	Resources)				
		The institute facilitates the	14 Class rooms	8	
65	65	state of the art ICT		(LT-1, 2,3,	
		infrastructure to the students.	2 Workshops	MMD 1,2)	

The Resource centre is		1 Smart city
equipped with digital e-		lab
resources, IEEE, ACM and		1 IR Lab
Springer journals, volumes	17 nos. of teaching	1 Speech
accessible to faculty and	labs.	Lab
students.		
A list of commonly deployed	09 nos. of non-	
ICT tools is enclosed in	teaching labs	
Annexure 2.3.1.		

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

Students mentoring is an integral part of academic excellence. Faculty mentors students for their academic performance, projects, research, and course related aspects. The institute has employed two counsellors who provide mentorship to students as and when they want for their stress, time management. The students clubs are very vibrant in the campus, which encourage students for their co-curricular and extra-curricular activities. Finally, Undergraduate and Postgraduate program committees continuously monitor and mentor students who are put on academic probation and might be facing issues pertaining to their academics.

Number of students enrolled in the	Number of fulltime teachers	Mentor: Mentee Ratio
institution		
1733	65	1:27

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned	No. of filled	Vacant positions	Positions filled during	No. of faculty with Ph.D
positions	positions		the current year	
65	65	0	7	57

2.4.2 Honours and recognitions received by teachers

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

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Prof Manish Khare	Assistant Professor	Got Full Travel Support from DST, New Delhi to attend 20th International Conference on Image Analysis and Processing (ICIAP 2019), held in Trento, Italy.
2019	Prof Anil K Roy	Associate Professor	IEEE India Council Section Chair Lifetime Achievement Award 2019 (awarded by IEEE President-Elect Prof. Toshio Fukuda in Dec 2019 during INDICON 2019).
2020	Prof Yash Agrawal	Assistant Professor	Received Grant for Research Visit and prospective collaboration with Technical University of Munich (TUM), Germany, 2019.

2020	Prof Yash Agrawal	Assistant Professor	Received Best Paper Award for the paper entitled "Automated e-circuit designing and characterization using prominent neural network," in the during 22-23 Feb. 2020.
2020	Prof Saurabh Tiwari	Assistant Professor	Awarded Full Travel Grant support by SERB International Travel Support (ITS) Scheme to attend and present ACM SAC (35th Symposium On Applied Computing) 2020 Conference at Brno, Czech Republic, March 30-April 3, 2020.

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	Semester/	Last date of the last	Date of declaration of
	Code	year	semester-end/ year- end	results of semester-end/
			examination	year- end examination
B.Tech. (ICT)	01	2019-20	Autumn: 03-12-2019	Autumn: 12-12-2019
B. recii. (ICT)	01	2019-20	Winter: 10-07-2020	Winter: 22-07-2020
B.Tech. (Honours in	01	2019-20	Autumn: 03-12-2019	Autumn: 12-12-2019
ICT with minor in CS)	01	2019-20	Winter: 10-07-2020	Winter: 22-07-2020
M Toch (ICT)	11	2019-20	Autumn: 03-12-2019	Autumn: 12-12-2019
M.Tech. (ICT)	11	2019-20	Winter: 10-07-2020	Winter: 22-07-2020
M Co (IT)	12	2019-20	Autumn: 03-12-2019	Autumn: 12-12-2019
M.Sc. (IT)	12	2019-20	Winter: 10-07-2020	Winter: 22-07-2020
M Dos (CD)	1.4	2019-20	Autumn: 03-12-2019	Autumn: 12-12-2019
M.Des. (CD)	14	2019-20	Winter: 10-07-2020	year- end examination 3-12-2019
Dh D	21	2010 20	Autumn: 03-12-2019	Autumn: 12-12-2019
Ph.D.	21	2019-20	Winter: 10-07-2020	Winter: 22-07-2020

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

*Do not include re-evaluation/ re-totalling

Number of complaints or Total number of students appeared in the		Percentage
grievances about evaluation	examination	
~25	~1700	1.5%

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)

- 1. B.Tech. (ICT)
- 2. <u>B.Tech.</u> (Honours in ICT with minor in CS)
- 3. M.Tech. (ICT)
- 4. M.Sc. (IT)
- 5. M.Des. (Communication Design)
- 6. <u>Ph.D.</u>
- 2.6.2 Pass percentage of students

Programme	Programme name	Number of students	Number of	Pass Percentage
Code		appeared in the final year	students	
		examination	passed in	
			final	
			Semester	
			/year	
			examination	
01	BTech (ICT)	237	217	91.56
01	BTech (honours in ICT with	62	62	100
01	minor in CS)	62	02	100
11	MTech (ICT)	80	73	91.25
12	MSc (IT)	112	112	100
14	MDes (CD)	5	5	100
21	PhD	2	2	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)

Exit Feedback form questionnaire of 2019-20 (Annexure 2.7.1.A) Analysis of Exit Feedback 2019-20 (Annexure 2.7.1.B)

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,

Yes...... No. if yes give details

Yes

Name of the teacher	The amount of seed	Year of receiving grant	Duration of the grant	
getting seed money	money	Tear of receiving grant	Duration of the grant	
Prof Srimanta Mandal	2,06,500	2019-20	1 YEAR	
Prof Priyanka Singh	2,06,500	2019-20	1 YEAR	
Prof Pankaj Kumar	2,06,500	2019-20	1 YEAR	

3.1.2 Teachers awarded National/International fellowship for advanced studies/ research during the year

Nationa/ Internatio nal	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	Prof Saurabh Tiwari	Awarded Full Travel Grant support by SERB International Travel Support (ITS) Scheme to attend and present ACM SAC (35th Symposium On Applied Computing) 2020 Conference at Brno, Czech Republic, March 30-April 3, 2020 (not availed due to CoVID-19)	13 Feb 2020	SERB (DST), Govt. of India

3.1.2 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of fellowship	Funding agency
Internship -3	1-3 Yrs	SERB GOI / IIIT-Hyd /

JRF – 10 RA -2						SAC-IS	
				Τ	Ι	SERB-DS	
Sr. No.	Id Number	Name of Fellow	Designatio n	Project Incharge / Co- PI	Duration / Joining Date	Funding Agency	Relieving Date
1	202000104	Vishrut Jetly	Inernship	Prof Bhaskar Chaudhary	3 months	SERB,GOI	31.3.20
2	202000110	Sparsh Goil	Internship	Prof P Majumder	4 months	IIIT, Hyd	31.12.20
3	202000109	Vedant Parikh	Internship	Prof P Majumder	4 months	IIIT, Hyd	31.12.20
4	201900115	Bhargav Dave	JRF	Prof P Majumder	Oct-19	MHRD- IMPRINT, GOI	
5	201900117	Yash Narendrabhai	JRF	Prof Biswajit Mishra	1.10.19	SERB, GOI	
6	201900118	Joel Fernadez	JRF	Prof Yash Vasavada	4.12.19	SAC-ISRO	
7	201900119	Sesha Sai Anudeep	JRF	Prof Yash Vasavada	4.12.19	SAC-ISRO	
8	202000105	Purva Diwakar Joshi	JRF	Prof Bhaskar Chaudhury	Feb-20	SERB,GOI	
9	202000106	Kamlesh Sureshrao P	JRF	Prof Vinay Palaparthy	3.3.20	SERB-DST,GOI	
10	202000107	Komal Kumari	JRF	Prof Sanjeev Gupta	Jul-20	SAC-ISRO	
11	202000108	Nilamben M Chaudhari	JRF	Prof Suman Mitra	10.8.20	SAC-ISRO	
12	202000112	Purviben Patel	JRF	Prof Biswajit Mishra	13.8.20	SERB-DST,GOI	
13	202099002	Surupendu G	JRF	Prof P Majumder	1.1.20	IIIT, Hyd	
14	201900116	Avik Gangule	RA	Prof P Majumder	6 monhts	MHRD- IMPRINT,GOI	2.3.20
15	202099003	Purvi Koringa	RA	Prof Ranendu Ghosh	4 months	SAC-ISRO	31.3.20

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	Nature of the Project Duration		Total grant	Amount received
		funding Agency	sanctioned	during the year
Major projects (Above 20 lakh)	3-5Y	DST, SAC ISRO, SERB	1,31,53,832	1,13,94,685
Minor Projects (below 20 lakh)	3Y	DST,SAC ISRO,SERB	61,07,100	23,57,000
Interdisciplinary				
Projects				
Industry sponsored Projects	2Y	Annex Info, Vista, Govt of Guj	56,60,310	
110,000		_ Gove or duj		

		•			1		ı	
Projects sp	•							
the Univers	•							
Students Research								
Projects								
	compulsory							
by the Univ								
Internation	al Projects							
Any other (Specify)							
Total								
		l						
Sr. No.	Project Code	Title		PI/ CO-PI	Agency	Sano An	otal ctioned nount i INR)	Duration
Major Proje	ects							
1 (31.12.19)	19/ISRO/SKN /SARNN	SAR Polarimetric Imag classification using Wis Mixture model and Convolution Neural Networks		Prof Suman Mitra Prof Srimnatha Mandal	SAC- ISRO	25,	33,000	31.12.19
2 (7.1.20)		FIST Program – 2019 (* 32478)	TPN	Prof Biswajit Mishra	GOI DST	57,	00,000	7.1.20
3 (27.1.20)	SP/20/DSTSE RB/BSM/DN ULPD	Design of a novel and low power All Digital F Acqusition with config Time of Digital convert and Integrated Applict Specific Processor for Detection of Mycrocar Infarctions	ront urate ter ion	Prof Biswajit Mishra	SERB	21,	74.832	27.1.20
4 (31.5.19)	19/ISRO/RDI /DSPLM	Physical layer and Med Access Control (IMAC) Layer Functionalities o	Design and simulation of Physical layer and Medium Access Control (IMAC) Layer Functionalities of Future Mobile Satellite Systems		SAC- ISRO	27	46000	31.5.19
Minor Proje	ects							
1 (25.9.19)	19/DST/MKG /AVOSS	Archival Vector DNA d Storage Indo-German Project	ata	Prof Manish K Gupta	DST DAAD	12,	78,000	25.9.19
2 (3.12.19)	19/ISRO/BHO	Respond Project – Sate	th	Prof Bhaskar Chaudhary	SAC- ISRO	14,	18,000	3.12.19
	1				1	l		1

4 SP/20/DSTSE RB/VSP/IOTE NL Nanomaterial Leaf Wetness Prof Vinay Micro on Flexible Substrate for Integrated Plant Disease Management Prof Vinay Palaparthy T T 18,13,100 4.1.20	3 (23.12.19)	19/ISRO/SJG/ JGNNS	Adaptive Beam Forming for Mitigation intereference and Jamming at the Ground Terminal of Global Navigational Satellite Systems	Prof Sanjeev Gupta	SAC- ISRO	15,98,000	23.12.19
		RB/VSP/IOTE	Nanomaterial Leaf Wetness Micro on Flexible Substrate for Integrated Plant	S	SERB,DS T	18,13,100	4.1.20

3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years

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	minar Name of the Dept. Date(s)	
Code to Company	DCEI	14th Nov. 2019

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

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category	
Nil					

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

state apa mediated of the feat					
Incubation Centre	Name	Sponsored by			
1	DA-IICT Cenre for Entrepreneurship and Incubation	Govt of Gujarat , Govt of India			
Name of the Start-up	Nature of Start-up	Date of commencement			
Urban Naps	Furniture Manufacturer	26.09.2019			
Pegasus Automation Pvt. Ltd	Home Automation	29.01.2020			
Avadhuta Antennaz Solutions Pvt. Ltd	ICT	04.12.2019			

3.4 Research Publications and Awards

3.4.1 PhDs awarded during the year

Name of the	Department	No. of PhDs Awarded
10	СТ	8
Student Id	Student Name	Degree Awarded
Student id	Student Name	(18 January 2020)
201021009	Ch V. Narasimha Rao	16th Convocation
201121001	Shah Jalpa Bharatkumar	16th Convocation
201121010	Sanjay Kumar Kasodniya	16th Convocation
201221001	Modha Sandip Jayantilal	16th Convocation
201221005	Patel Hardik Nayankumar	16th Convocation

201221007	Krishna Gopal	16th Convocation
201221014	Dixita Hasmukhbhai Limbachiya	16th Convocation
201321009	Shah Nirmesh Jayeshkumar	16th Convocation

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

	Department	No. of Publication	Average Impact Factor, if
			any
National	ICT	01	NA
International	ICT	34	2.183

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

Department	No. of publication	
ICT	92	

Publication Per Teacher: 92/65 = 1.41

2019 Faculty publications

Books

1. Manjunath V. Joshi, and Kishor P. Upla, "Multi-resolution Image Fusion in Remote Sensing," Cambridge: Cambridge University Press, 2019. doi: 10.1017/9781108566285, ISBN: 9781108566285

Book Chapters

- 1. Bhore, Sujoy, Satyabrata Jana, Supantha Pandit, and Sasanka Roy. 2019. "Balanced Connected Subgraph Problem in Geometric Intersection Graphs." In Combinatorial Optimization and Applications, edited by Yingshu Li, Mihaela Cardei, and Yan Huang, 11949:56–68. Lecture Notes in Computer Science. Cham: Springer International Publishing. https://doi.org/10.1007/978-3-030-36412-0_5.
- Chaudhury, Bhaskar, Mihir Shah, Unnati Parekh, Hasnain Gandhi, Paramjeet Desai, Keval Shah, Anusha Phadnis, Miral Shah, Mainak Bandyopadhyay, and Arun Chakraborty. 2019. "Hybrid Parallelization of Particle in Cell Monte Carlo Collision (PIC-MCC) Algorithm for Simulation of Low Temperature Plasmas." In Software Challenges to Exascale Computing, edited by Amit Majumdar and Ritu Arora, 964:32–53. Communications in Computer and Information Science. Singapore: Springer Singapore. https://doi.org/10.1007/978-981-13-7729-7_3.
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3.4.4	Patents	published/	/awarded	I during the vear
3.4.4	ratents	DUDIISHEU/	awarueu	i uuiilig ille veal

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
NIL	NIL	NA	NA

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*.

(This date belong to calendar year 2019)

Title of the paper	Name of	Title of the	Year	Citatio	Institutional	Numb
	the	Journal /	of	n	affiliation as mentioned in	er of
	author	Proceedings	publi	Index	the publication	cita
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A Literature Review on Next Generation Graphene Interconnects	Patel N., Agrawal Y.	Journal of Circuits, Systems and Computers	2019	Scopus & WoS	VLSI and Embedded Systems Research Group, Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat 382 007, India		1
A circular fractal antenna array	Chauhan R., Gupta S.	25th National Conference on Communication s, NCC 2019	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat, 382007, India		
A demonstration of reproducible state-of-the-art energy disaggregation using NILMTK	Batra N., Kukunuri R., Pandey A., Malakar R., Kumar R., Krystalakos O., Zhong M., Meira P., Parson O.	BuildSys 2019 - Proceedings of the 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation	2019	Scopus	IIT Gandhinagar, India; NIT Agartala, India; IIEST Shibpur, India; DAIICT, India; Aristotle University of Thessaloniki, Greece; University of Lincoln, United Kingdom; University of Campinas, Brazil; Centrica Hive Limited, United Kingdom		
A low power wearable device for real-time electrocardiogram monitoring and cardiovascular arrhythmia detection for resource constrained regions	Arora N., Mishra B., Vora Y.	Journal of Low Power Electronics	2019	Scopus	VLSI and Embedded Systems Research Group, DA-IICT, Gandhinagar, 382007, India		

A	Charle N. I		2010		Consult Brown white half	
A novel approach to remove outliers	Shah N.J., Patil H.A.	Computer Speech and	2019	Scopus & WoS	Speech Research Lab, Dhirubhai Ambani Institute of	1
for parallel voice		Language			Information and	
conversion					Communication Technology	
					(DA-IICT), Gandhinagar,	
					382007, India	
A Novel Slice-	Patel R.,	IETE Journal of	2019	Scopus	Space Applications Centre	
Based High-	Agrawal Y.,	Research		& WoS	(SAC), Indian Space Research	
Performance ALU	Parekh R.				Organisation (ISRO),	
Design Using Prospective Single					Ahmedabad, Gujarat, India; Dhirubhai Ambani Institute of	
Electron					Information and	
Transistor					Communication Technology	
Transistor					(DA-IICT), Gandhinagar,	
					Gujarat, India	
A PBNS based	Captain	IEEE Vehicular	2019	Scopus	DAIICT, Gujarat, 382007, India	
detection	K.M., Joshi	Technology				
algorithm for	M.V.	Conference				
cooperative						
wideband						
spectrum sensing						
using hard combining						
A provable secure	Sahana	Sadhana -	2019	Scopus	Department of Information	
key-escrow-free	S.C., Das	Academy	2013	& WoS	Technology, North Eastern Hill	
identity-based	M.L.,	Proceedings in			University, Shillong, 793022,	
signature scheme	Bhuyan B.	Engineering			India; Faculty Block 2,	
without using		Sciences			Dhirubhai Ambani Institute of	
secure channel at					Information and	
the phase of					Communication Technology	
private key					(DA-IICT), Gandhinagar,	
issuance	Michael D	Dunganadinanah	2010	Caanus	382007, India	
A Reconfigurable Time-To-Digital	Mishra B., Kumar B.	Proceedings of the 2019	2019	Scopus	VLSI and Embedded Systems Research Group, DA-IICT,	
Converter based	Kuillai b.	International			Gandhinagar382007, India	
on Pulse Stretcher		Symposium on			Garranniagar 302007, maia	
and Gated Delay		Embedded				
Line		Computing and				
		System Design,				
		ISED 2019				
A report on the	Singh P.,	ACM	2019	Scopus	NIT Jalandhar, India; University	
second workshop	Farooq	International			of Kashmir, India; DA-IICT	
on emerging	S.U., Tiwari	Conference			Gandhinagar, India; Accenture,	
software	S., Tharayil	Proceeding			India	
engineering education (WESEE	R.	Series				
2019)						
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A simulation	Tripathi P.,	International	2019	Scopus	DAIICT, Computer Science		
based study to	Subbu K.P.	Symposium on			Department, Gandhinagar,		
identify optimal		Advanced			Gujarat, India		
number of		Networks and					
controllers for		Telecommunicat					
multi-application		ion Systems,					
scenarios in		ANTS					
Software Defined							
Wireless Sensor							
Network (SDWSN)							
A Survey on	Patil H.A.,	2018 Asia-	2019	Scopus	Speech Research Lab,	1	
Replay Attack	Kamble	Pacific Signal			Dhirubhai Ambani Institute of		
Detection for	M.R.	and Information			Information and		
Automatic		Processing			Communication Technology		
Speaker		Association			(DA-IICT), Gandhinagar,		
Verification (ASV)		Annual Summit			Gujarat, 382007, India		
System		and Conference,					
		APSIPA ASC					
		2018 -					
		Proceedings					
A theoretical	Bhateja P.	2019 6th	2019	Scopus	DA-IICT Gandhinagar, India		
framework for		International			G ,		
testing cyber-		Conference on					
physical systems		Control,					
		Decision and					
		Information					
		Technologies,					
		CoDIT 2019					
Abundance	Patel J.R.,	IEEE Journal of	2019	Scopus	Dhirubhai Ambani Institute of		
estimation using	Joshi M.V.,	Selected Topics		& WoS	Information and		
discontinuity	Bhatt J.S.	in Applied Earth		0	Communication Technology,		
preserving and		Observations			Gandhinagar, India; Indian		
sparsity-induced		and Remote			Institute of Information		
priors		Sensing			Technology, Vadodara		
priors		001101118			Gandhinagar, India		
Adaptive	Kalavadia	Lecture Notes in	2019	Scopus	Distributed Database Group,		
partitioning using	B., Bhatia	Computer		20000	DA-IICT, Gandhinagar, India;		
partial replication	T., Padiya	Science			Friedrich Schiller Universität		
for sensor data	T., Pandat	(including			Jena, Jena, Germany		
Tor Scrisor data	A., Bhise	subseries			Jena, Jena, Germany		
	M.	Lecture Notes in					
	141.	Artificial					
		Intelligence and					
		Lecture Notes in					
		Bioinformatics)					
Affine	Pancal C	ACM	2019	Scoons	Dhirubhai Ambani Institute of		
	Bansal S.,		2019	Scopus			
interpolation in a	Tatu A.	Transactions on		& WoS	Information and		
lie group		Graphics			Communication Technology,		
framework					Gandhinagar, Gujrat, India		

Affinity based	Candhi K	2010 IEEE 16+b	2010	Coopus	Distributed Database Croup		
Affinity-based	Gandhi K.,	2019 IEEE 16th	2019	Scopus	Distributed Database Group,		
fragmentation for	Bhise M.	India Council			DA-IICT, Gandhinagar, India		
sensor data		International					
		Conference,					
		INDICON 2019 -					
		Symposium					
		Proceedings					
All-Digital CMOS	Pokhara A.,	Communication	2019	Scopus	Government Women		
On-Chip	Mishra B.,	s in Computer			Engineering College, Ajmer,		
Temperature	Patel P.	and Information			305002, India; Dhirubhai		
Sensor with Time-		Science			Ambani Institute of Information		
Assisted Analytical		Solciloc			and Communication		
Model					Technology, Gandhinagar,		
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	-· · · ·	4.01.4	2010		382007, India	_	
An approach to	Tiwari S.,	ACM	2019	Scopus	DA-IICT, Gandhinagar, India;	2	
identify use case	Ameta D.,	International			Mälardalen University, Sweden		
scenarios from	Banerjee A.	Conference					
textual		Proceeding					
requirements		Series					
specification							
An ECG-PPG	Mishra B.,	Proceedings of	2019	Scopus	VLSI and Embedded Systems		
Wearable Device	Arora N.,	the 2019			Research Group, DA-IICT,		
for Real Time	Vora Y.	International			Gandhinagar382007, India		
Detection of		Symposium on					
Various		Embedded					
Arrhythmic		Computing and					
Cardiovascular		System Design,					
Diseases		ISED 2019					
	Usdadiya	ACM	2019	Scopus	DA-IICT, Gandhinagar, India;		
An empirical study		International	2019	Scopus			
on assessing the	C., Tiwari				Mälardalen University, Sweden		
quality of use case	S.,	Conference					
metrics	Banerjee A.	Proceeding					
		Series					
An enhanced	Verma P.,	Communication	2019	Scopus	Dhirubhai Ambani Institute of		
privacy-preserving	Vaishnav	s in Computer			Information and		
recommender	H.,	and Information			Communication Technology,		
system	Mathuria	Science			Gandhinagar, India		
	A.,						
	Dasgupta						
	S.						
AN	Kumar R.,	Biomedical	2019	Scopus	Department of Instrumentation		
EXPERIMENTAL	Kumar S.,	Engineering -			Control Engineering, Dr. B. R.		
ANALYSIS and	Sengupta	Applications,			Ambedkar National Institute of		
VALIDATION of	A.	Basis and			Technology, Jalandhar, India;		
ELECTRICAL	\ \frac{\sqrt{\chi}}{\chi}	Communication			DA-IICT, Gandhi Nagar, Gujarat,		
IMPEDANCE		S			India		
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TECHNIQUE for							
MEDICAL or							

INDUSTRIAL						
APPLICATION Analysis of Reverberation via Teager Energy Features for Replay Spoof Speech Detection	Kamble M.R., Patil H.A.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	2019	Scopus	Speech Research Lab, Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat, 382007, India	2
Approximation and Bit Truncation Techniques in Hardware for Edge Detection	Datta A., Mohanta A., Mishra B.	Proceedings of the 2019 International Symposium on Embedded Computing and System Design, ISED 2019	2019	Scopus	DA-IICT, Gandhinagar, Gujarat, India	
Automatic Target Recognition from SAR Images Using Capsule Networks	Shah R., Soni A., Mall V., Gadhiya T., Roy A.K.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, India; ADG of Police, Government of Gujarat, Gandhinagar, India	
Balanced Connected Subgraph Problem in Geometric Intersection Graphs	Bhore S., Jana S., Pandit S., Roy S.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	Scopus	Algorithms and Complexity Group, TU Wien, Vienna, Austria; Indian Statistical Institute, Kolkata, India; Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat, India	
Changes in the characteristics of chaotic optical signals owing to propagation in optical fibers	Ghosh A.K., Patel N.	Proceedings of SPIE - The International Society for Optical Engineering	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat 382007, India	
Characteristics of optical chaos generated by an acousto-optic system in the	Ghosh A.K.	Proceedings of SPIE - The International Society for	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat 382007, India	

Raman-Nath		Optical			
mode		Engineering			
Class Similarity Based Orthogonal Neighborhood Preserving Projections for Image Recognition CMOS power	Koringa P.A., Mitra S.K. Patel P., Mishra B.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Journal of Low	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, 382007, India
management unit along with load regulation using switched capacitor converters		Power Electronics			Research Group, DA-IICT, Gandhinagar, 382007, India
Combining evidences from variable teager energy source and mel cepstral features for classification of normal vs. Pathological voices	Patil H.A.	European Signal Processing Conference	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat 382007, India
comparative study on person re-identification using color and shape featuresbased body part matching	Lee S., Gwak J., Prakash O., Khare M., Khare A., Jeon M.	Lecture Notes in Electrical Engineering	2019	Scopus	School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Gwangju, 61005, South Korea; Biomedical Research Institute, Seoul National University Hospital (SNUH), Seoul, 03080, South Korea; Department of Radiology, Seoul National University Hospital (SNUH), Seoul, 03080, South Korea; Centre of Computer Education, Institute of Professional Studies, University of Allahabad, Allahabad, India; Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat, India;

Comprehensive evaluation of key management hierarchies for outsourced data	Kumar N., Mathuria A.	Cybersecurity	2019	Scopus	Department of Electronics and Communication, University of Allahabad, Allahabad, Uttar Pradesh, India Indian Institute of Information Technology, Vadodara, India; Dhirubhai Ambani Institute of Information and Communication Technology,		
DA Master at HASOC 2019: Identification of hate speech using machine learning and deep learning approaches for social media post	Parikh A., Desai H., Singh Bisht A.	CEUR Workshop Proceedings	2019	Scopus	Gandhinagar, India DA-IICTGujarat, India		
DeepExt: A Convolution Neural Network for Road Extraction using RGB images captured by UAV	Varia N., Dokania A., Senthilnath J.	Proceedings of the 2018 IEEE Symposium Series on Computational Intelligence, SSCI 2018	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, 382007, India; Department of Electronics and Electrical Engineering, IIT Guwahati, Guwahati, India; Institute for Infocomm Research, A STAR, Singapore, 138632, Singapore	1	
Design and implementation of autonomous UAV tracking system using GPS and GPRS	Thakkar D., Rajput P., Dubey R., Parekh R.	Advances in Intelligent Systems and Computing	2019	Scopus	VLSI and Embedded Systems Research Group, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat 382007, India		
Design and performance comparison of a novel high Q coaxial resonator filter and compact waveguide filter for millimeter wave payload applications	Dad V.K., Gupta S.	International Journal of RF and Microwave Computer-Aided Engineering	2019	Scopus & WoS	RF and Microwave Department, DA-IICT, Gandhinagar, Gujarat, India; Payload Passive Component Divison, Engr., SAC, Ahmedabad, Gujarat, India		1
Design and simulation of single electron transistor based SRAM and its	Badgujar J., Kale V., Shah M., Parekh R.	International Journal of Integrated Engineering	2019	Scopus	Department of VLSI and Embedded System, DA-IICT, Gandhinagar, Gujarat, 382007, India; Department of Computer Engineering, Nirma Unvirsity,		

memory controller at room					S.G.Highway, Ahmedabad, Gujarat, 382481, India		
Detection and Localization of Copy-Move Tampering Using Features of Locality Preserving Projection	Diwan A., Mall V., Roy A., Mitra S.	Proceedings of the IEEE International Conference Image Information Processing	2019	Scopus	DA-IICT, Gandhinagar, Gujarat, India; ADGP, Gujart Police, Gandhinagar, Gujarat, India		
Detection of node capture attack in wireless sensor networks	Agrawal S., Das M.L., Lopez J.	IEEE Systems Journal	2019	Scopus & WoS	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, 382007, India; University of Malaga, Malaga, 29016, Spain	2	1
Digital beamforming for antenna arrays	Dhami A., Parekh N.N., Vasavada Y.	2019 IEEE Indian Conference on Antennas and Propagation, InCAP 2019	2019	Scopus	Dhirubhai Ambani Institute of Information and Technology, Gandhinagar Gujarat, India		
Disruptive transactions: The complex configurations of sharing and the vulnerability of life in the Jarawa Reserve forest in the Andaman Islands	Pandya V., Mazumdar M.	Hunter Gatherer Research	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication technology, Gandhinagar, Gujarat, India	2	
DNA Based Hybrid Circuit Design Approaches	Patel R., Parekh R.	2019 IEEE 5th International Conference for Convergence in Technology, I2CT 2019	2019	Scopus	ISRO, Space Applications Centre, Ahmedabad, India; Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, India		
Document representation using extended locality preserving indexing	Khalpada V.S., Koringa P.A., Mitra S.K.	2019 IEEE 16th India Council International Conference, INDICON 2019 - Symposium Proceedings	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, 382007, India		
Effectiveness of cross-domain architectures for whisper-to-	Parmar M., Doshi S., Shah N.J., Patel M., Patil H.A.	European Signal Processing Conference	2019	Scopus	Speech Research Lab, DA-IICT, Gandhinagar, 382007, India		

normal speech						
conversion						
Enabling more	Jeong H.,	Lecture Notes in	2019	Scopus	Department of Electrical	
accurate bounding	Gwak J.,	Electrical	2013	Scopus	Engineering and Computer	
boxes for deep	Park C.,	Engineering			Science, Gwangju Institute of	
learning-based	Khare M.,	Linginicering			Science and Technology, 123,	
real-time human	Prakash O.,				Cheomdangwagi-ro, Buk-gu,	
detection						
detection	Song JI.				Gwangju, 61005, South Korea;	
					Biomedical Research Institute,	
					Seoul National University	
					Hospital (SNUH), Seoul, 03080,	
					South Korea; Department of	
					Radiology, Seoul National	
					University Hospital (SNUH),	
					Seoul, 03080, South Korea;	
					Dhirubhai Ambani Institute of	
					Information and	
					Communication Technology,	
					Gandhinagar, Gujarat, India;	
					Centre of Computer Education,	
					Institute of Professional	
					Studies, University of	
					Allahabad, Allahabad, India	
Energy separation	Patil H.A.,	European Signal	2019	Scopus	Speech Research Lab, DA-IICT,	
algorithm based	Viswanath	Processing			Gandhinagar, India; Ex-student,	
spectrum	S.	Conference			Speech Research Lab, DA-IICT,	
estimation for					Gandhinagar, India	
very short						
duration of						
speech						
Energy	Patil A.T.,	Proceedings of	2019	Scopus	Speech Research Lab,	
separation-based	Acharya R.,	the Annual			Dhirubhai Ambani Institute of	
instantaneous	Sai P.A.,	Conference of			Information and	
frequency	Patil H.A.	the			Communication Technology	
estimation for		International			(DA-IICT), Gandhinagar,	
cochlear cepstral		Speech			Gujarat, 382007, India; Indian	
feature for replay		Communication			Institute of Information	
spoof detection		Association,			Technology (IIIT), Vadodara,	
		INTERSPEECH			Gujarat, India	
EObjCount: An	Dokania A.,	Proceedings of	2019	Scopus	Department of Electronics and	
Evolving Spectral	Varia N.,	the 2018 IEEE			Electrical Engineering, IIT	
and Spatial	Senthilnath	Symposium			Guwahati, Guwahati, India;	
Approach for Tree	J.	Series on			Dhirubhai Ambani Institute of	
Count using		Computational			Information and	
Multispectral		Intelligence,			Communication Technology,	
Satellite Images		SSCI 2018			Gandhinagar, India; Institute	
					for Infocomm Research, A	
					STAR, Singapore, 138632,	
					Singapore	
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FIRE 2019 AILA track: Artificial intelligence for legal assistance	Bhattachar ya P., Ghosh K., Ghosh S., Pal A., Mehta P., Bhattachar ya A., Majumder P.	ACM International Conference Proceeding Series	2019	Scopus	Indian Institute of Technology, Kharagpur, India; Tata Research Development and Design Centre (TRDDC), Pune, India; Data61, CSIRO, Sydney, Australia; DA-IICT, Gandhinagar, India; Indian Institute of Technology, Kanpur, India VLSI and Embedded System	
Fully Digital, Low Energy Capacitive Sensor Interface with an Auto- calibration Unit	C., Mishra B.	s in Computer and Information Science	2019	Scopus	Research Lab, DA-IICT, Gandhinagar, 382007, India	
Gastric polyp detection using deep convolutional neural network	Laddha M., Jindal S., Wojciecho wski J.	ACM International Conference Proceeding Series	2019	Scopus	DAIICT, India, Flat no 304, 167/168 Precanco Colony, Indore, India; IIT Roorkee, India, Flat no 304, 167/168 Precanco Colony, Indore, India; Poznan University of Technology, Plac Marii Skłodowskiej-Curie 5, Poznań, 60-965, Poland	
GPU accelerated FDTD based Open- source SAR Simulator	Katkoria V., Ghosh P., Chaudhury B.	2019 IEEE MTT-S International Microwave and RF Conference, IMARC 2019	2019	Scopus	Group in Computational Science and HPC, DA-IICT, Gandhinagar, India	
Guided deformation transfer	Domadiya P., Shah P., Mitra S.K.	Proceedings - CVMP 2019: 16th ACM SIGGRAPH European Conference on Visual Media Production	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, India; Indian Institute of Information Technology, Vadodara, India	
Handling concurrent requests in a secret sharing based storage system using Petri Nets	Gupta P., Garg G.	International Symposium on Advanced Networks and Telecommunicat ion Systems, ANTS	2019	Scopus	DA-IICT, Gandhinagar, Gujarat, India	
Hybrid parallelization of particle in cell monte carlo collision (PIC-	Chaudhury B., Shah M., Parekh U., Gandhi H., Desai	Communication s in Computer and Information Science	2019	Scopus	Group in Computational Science and HPC, DA-IICT, Gandhinagar, 382007, India; ITER-India, Institute for Plasma Research (IPR), Gandhinagar,	

P., Shah K.,				382428. India: Homi Bhabha		
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Dasgupta	(including			Gandhinagar, India		
S.	subseries					
	Lecture Notes in					
	Artificial					
	Intelligence and					
	Lecture Notes in					
	Bioinformatics)					
Koringa	Pattern Analysis	2019	Scopus	Dhirubhai Ambani Institute of		1
P.A., Mitra	and Applications		& WoS	Information and		
S.K.				Communication Technology,		
				Gandhinagar, India		
Gupta N.,	International	2019	Scopus	DA-IICT, Gandhinagar, Gujarat,		
Das M.L.,	Symposium on			India; Indian Institute of		
Nandi S.	Advanced			Technology, Guwahati, Assam,		
	Networks and			India		
	Telecommunicat					
	ion Systems,					
	ANTS					
Jain N.,	IET Computers	2019	Scopus	VLSI Design and, Embedded		
Mishra B.	•		& WoS	Research Group, Dhirubhai		
	_			Ambani Institute of Information		
Borozan V	European	2019	Scopus		1	
de La Vega	Journal of		& WoS	CNRS, LRI, OrsayLRI, Bât. 490,		
ue La vega	Journal Or			CIVING, LINI, OTSUVEINI, DUL. 450.		
	Koringa P.A., Mitra S.K. Gupta N., Das M.L., Nandi S. Jain N., Mishra B.	Phadnis A., Shah M., Bandyopad hyay M., Chakrabort y A. Deb T., Ghosh A.K., Mukherjee A. Simposium, TENSYMP 2019 Gajbhar S.S., Joshi Intelligent Systems and Computing Verma P., Mathuria A., Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Koringa P.A., Mitra S.K. Gupta N., Das M.L., Nandi S. Advanced Networks and Telecommunicat ion Systems, ANTS Jain N., Mishra B. IET Computers and Digital Techniques Borozan V., European	Phadnis A., Shah M., Bandyopad hyay M., Chakrabort y A. Deb T., Ghosh A.K., Mukherjee A. Symposium, TENSYMP 2019 Gajbhar S.S., Joshi M.V. Systems and Computing Verma P., Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Koringa P.A., Mitra S.K. Gupta N., Das M.L., Nandi S. K. Gupta N., Das M.L., Nandi S. Metworks and Telecommunicat ion Systems, ANTS Jain N., Mishra B. IET Computers and Digital Techniques Borozan V., European 2019	Phadnis A., Shah M., Bandyopad hyay M., Chakrabort y A. Deb T., Ghosh A.K., Mukherjee A. Gajbhar S.S., Joshi M.V. Verma P., Mathuria A., Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Koringa P.A., Mitra S.K. Gupta N., Das M.L., Nandi S. K. Gupta N., Das M.L., Nandi S. Metworks and Telecommunicat ion Systems, ANTS Jain N., Mishra B. Borozan V., European Proceedings of 2019 Scopus 2019 Scopu	Phadnis A., Shah M., Bandyopad hyay M., Chakrabort y A. Proceedings of Ghosh A.K., Mukherjee A. Gajbhar S.S., Joshi Intelligent Systems and Computing Verma P., Dasgupta S. Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Koringa P.A., Mitra S.K. Gupta N., Das M.L., Namidi S. Koringa D. P.A., Mitra S.K. Gupta N., Das M.L., Namidi S. Methodis S.K. Gupta N., Das M.L., Namidi S. Methodis S.K. Gupta N., Das M.L., Symposium on Advanced in Telecommunication Systems, ANTS Jain N., Bir T Computers and Digital Techniques Borozan V., European 2019 Scopus S. Scop	Phadnis A., Shah M., Bandyopad hyay M., Chakrabort y A. Proceedings of Chosh A.K., Mukherjee A. Gajbhar S.S., Joshi Intelligent Systems and Computing Computing Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) S.K. Koringa P.A., Mitra S.K. Koringa P.A., Mitra B. Matro S.S. ANTS Jain N., Das M.L., Nandi S. ANTS Jain N., Mishra B. Borozan V., European 2019 Scopus Scopus John Intelligent Scopus Science (including subseries Lecture Notes in Bioinformatics) Scopus S.S. Scopus Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, India National Institute (HBNI), Anushakti Nagar, Mumbai, 400094, India 400

MadGa	Manoussak is Y., Martinhon C., Muthu R., Pham H.P., Saad R.		2010		Fluminense Federal University, Institute of Computation, Niteroi, RJ 24210-240, Brazil; Dhirubhai Ambani Institute of Information and Communication Technology, Indroda Circle, DA IICT Road, Gandhinagar, Gujarat 382007, India; CMR Saint-Jean, Campus Saint-Jean, C.P.100 Succursale Bureau-chef, Richelain (QC), JOJ 1RO, Canada		
MedCop: Verifiable computation for mobile healthcare system	Gajera H., Naik S., Das M.L.	Communication s in Computer and Information Science	2019	Scopus	DA-IICT, Gandhinagar, India		
Modelling and short term forecasting of flash floods in an urban environment	Ogale S., Srivastava S.	25th National Conference on Communication s, NCC 2019	2019	Scopus	Dhirubhai Ambani Institute of Communication and Technology, Gandhinagar, Gujarat, 382007, India		
Modular facial expression recognition on noisy data using robust PCA	Mundra S., Sujata, Mitra S.K.	2019 IEEE 16th India Council International Conference, INDICON 2019 - Symposium Proceedings	2019	Scopus	Daiict, Gandhinagar, India		
Multichannel CNN for Facial Expression Recognition	Trivedi P., Mhasakar P., Sujata, Mitra S.K.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, India		
Network controllability analysis of intracellular signalling reveals viruses are actively controlling molecular systems	Ravindran V., Nacher J.C., Akutsu T., Ishitsuka M., Osadcenco A., Sunitha V., Bagler	Scientific Reports	2019	Scopus & WoS	Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, 382007, India; Department of Information Science, Faculty of Science, Toho University, Funabashi, 274-8510, Japan; Bioinformatics Center, Institute	1	2

	1		ı	1		
	G.,				for Chemical Research, Kyoto	
	Schwartz				University, Uji, 611-0011,	
	JM.,				Japan; Evolution and Genomic	
	Robertson				Sciences, School of Biological	
	D.L.				Sciences, University of	
					Manchester, Manchester, M13	
					9PT, United Kingdom; Centre	
					for Computational Biology,	
					Indraprastha Institute of	
					Information Technology Delhi	
					(IIIT-Delhi), New Delhi, 110020,	
					India; MRC-University of	
					Glasgow Centre for Virus	
					Research, Glasgow, G61 1QH,	
					United Kingdom	
New Results on a	Mitchell	Lecture Notes in	2019	Scopus	Stony Brook University, Stony	
Family of	J.S.B.,	Computer			Brook, NY, United States;	
Geometric Hitting	Pandit S.	Science			Dhirubhai Ambani Institute of	
Set Problems in		(including			Information and	
the Plane		subseries			Communication Technology,	
		Lecture Notes in			Gandhinagar, Gujarat, India	
		Artificial				
		Intelligence and				
		Lecture Notes in				
		Bioinformatics)				
Non-linear	Priya S.,	International	2019	Scopus	Dhirubhai Ambani Institute of	
autoencoder	Ghosh R.,	Archives of the	2013	Scopus	Information and	
based algorithm	Bhattachar	Photogrammetr			Communication Technology	
_		_			J	
for dimensionality	ya B.K.	y, Remote			(DA-IICT), Gandhinagar, India;	
reduction of		Sensing and			Space Applications Centre	
airborne		Spatial			(SAC), Ahmedabad, India	
hyperspectral		Information				
data		Sciences - ISPRS				
		Archives				
Novel adaptive	Patel M.,	2019 Asia-	2019	Scopus	Speech Research Lab,	
generative	Parmar M.,	Pacific Signal			Dhirubhai Ambani Institute of	
adversarial	Doshi S.,	and Information			Information and	
network for voice	Shah N.J.,	Processing			Communication Technology,	
conversion	Patil H.A.	Association			Gandhinagar, India; Arizona	
		Annual Summit			State University, Tempe,	
		and Conference,			United States	
		APSIPA ASC				
		2019				
Novel Enhanced	Acharya R.,	2019 IEEE	2019	Scopus	Speech Research Lab,	
Teager Energy	Patil H.A.,	Automatic		Scopus	Dhirubhai Ambani Institute of	
Based Cepstral	Kotta H.	Speech			Information and	
Coefficients for	Notta 11.	Recognition and			Communication Technology,	
		_				
Replay Spoof		Understanding			Gandhinagar, 382007, India	
Detection]	Workshop,		j		

		ASRU 2019 -				
		Proceedings				
Novel Inter	Shah N.J.,	2018 Asia-	2019	Scopus	Speech Research Lab,	
Mixture Weighted	Sreeraj R.,	Pacific Signal	2019	Scopus	Dhirubhai Ambani Institute of	
GMM	Shah N.,	and Information			Information and	
	-					
Posteriorgram for	Patil H.A.	Processing			Communication Technology,	
DNN and GAN-		Association			Gandhinagar, India	
based Voice		Annual Summit				
Conversion		and Conference,				
		APSIPA ASC				
		2018 -				
		Proceedings				
Novel Metric	Shah N.J.,	ICASSP, IEEE	2019	Scopus	Speech Research Lab,	
Learning for Non-	Patil H.A.	International			Dhirubhai Ambani Institute of	
parallel Voice		Conference on			Information and	
Conversion		Acoustics,			Communication Technology	
		Speech and			(DA-IICT), Gandhinagar, India	
		Signal				
		Processing -				
		Proceedings				
Novel Spectral	Tapkir P.A.,	2018 Asia-	2019	Scopus	Speech Research Lab,	
Root Cepstral	Patil A.T.,	Pacific Signal			Dhirubhai Ambani Institute of	
Features for	Shah N.,	and Information			Information and	
Replay Spoof	Patil H.A.	Processing			Communication Technology,	
Detection		Association			Gandhinagar, India	
		Annual Summit				
		and Conference,				
		APSIPA ASC				
		2018 -				
		Proceedings				
Novel Teager	Kamble	Lecture Notes in	2019	Scopus	Speech Research Lab,	
Energy Based	M.R.,	Computer			Dhirubhai Ambani Institute of	
Subband Features	Krishna	Science			Information and	
for Audio Acoustic	M.V.S.,	(including			Communication Technology	
Scene Detection	Pulikonda	subseries			(DA-IICT), Gandhinagar,	
and Classification	A.K.S., Patil	Lecture Notes in			Gujarat, India; Indian Institute	
and classification	H.A.	Artificial			of Information Technology	
	11.7 \.	Intelligence and			(IIIT), Vadodara, Gujarat, India	
		Lecture Notes in			(iiii), vaadaara, Gajarat, iiiala	
		Bioinformatics)				
On minimality	Hemantha	·	2010	Coopus	DA HCT Candhinagar India	
On minimality		Communication	2019	Scopus	DA-IICT, Gandhinagar, India	
attack for privacy-	K., Desai	s in Computer				
preserving data	N., Das	and Information				
publishing	M.L.	Science	2040	C	Dhimabhai Asslessi Leave a	
On the Hardness	Pandit S.	Lecture Notes in	2019	Scopus	Dhirubhai Ambani Institute of	
of Some		Computer			Information and	
Geometric		Science			Communication Technology,	
Optimization		(including			Gandhinagar, Gujarat, India	
		subseries				

Problems with Rectangles		Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)				
Optimal deterministic distributed algorithms for maximal independent set in geometric graphs	Molla A.R., Pandit S., Roy S.	Journal of Parallel and Distributed Computing	2019	Scopus & WoS	Computer and Communication Sciences Division, Indian Statistical Institute, 203, B. T. Road, Kolkata, 700108, India; Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujrat, 382007, India; Advanced Computing and Microelectronics Unit, Indian Statistical Institute, 203, B. T. Road, Kolkata, 700108, India	
Overview of the HASOC track at FIRE 2019: Hate speech and offensive content identification in Indo-European languages	Mandl T., Modha S., Majumder P., Patel D., Dave M., Mandlia C., Patel A.	ACM International Conference Proceeding Series	2019	Scopus & WoS	University of Hildesheim, Germany; DA-IICT, Gandhinagar, India; Dalhousie University, Halifax, Canada; LDRP-ITR, Gandhinagar, India; Analytica Consulting Pvt. Ltd, India	
Overview of the HASOC track at FIRE 2019: Hate speech and offensive content identification in indo-european languages	Modha S., Mandl T., Majumder P., Patel D.	CEUR Workshop Proceedings	2019	Scopus & WoS	DA-IICT, Gandhinagar, India; University of Hildesheim, Germany; LDRP-ITR, Gandhinagar, India	
P. C. Vaidya's contributions to mathematics and physics	Shashikum ara A.A., Kumbar R.	Current Science	2019	Scopus & WoS	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, 382 007, India; SLIS, Central University of Gujarat, Gandhinagar, 382 030, India	
Parallelizing Image Processing for Higher Efficiency	Taneja A., Khare M.	ACM International Conference Proceeding Series	2019	Scopus	DA-IICT, Gandhinagar Gujarat, India	
Phone aware nearest neighbor technique using	Shah N.J., Patil H.A.	Proceedings of the Annual Conference of	2019	Scopus	Speech Research Lab, Dhirubhai Ambani Institute of Information and	

spectral transition		the			Communication Technology		
measure for non-		International			(DA-IICT), Gandhinagar, India		
parallel voice		Speech					
conversion		Communication					
		Association,					
		INTERSPEECH					
PolSAR Band-to-	Patel A.,	Proceedings of	2019	Scopus	Dhirubhai Ambani Institute of		
Band Image	Patel M.,	IEEE Sensors			Information and		
Translation Using	Gadhiya T.,				Communication Technology,		
Conditional	Roy A.K.				Gandhinagar, 382007, India		
Adversarial							
Networks							
Raw Data	Patel M.,	2019 11th	2019	Scopus	Distributed Databases Group		
Processing	Bhise M.	International	-5-5	000000	DA-IICT, Gandhinagar, India		
Framework for IoT	Dilise ivi.	Conference on			bit her, danaminagar, maia		
Tranicwork for for		Communication					
		Systems and					
		Networks,					
		COMSNETS					
		2019		_			
Real-Time Human	Kaushik H.,	2019 IEEE	2019	Scopus	DA-IICT, Gandhinagar, India		
Detection	Zanzarukiy	International					
Tracking System	a A.,	Conference on					
Incorporating	Jethwa B.,	Electronics,					
MEMS Technology	Agrawal Y.,	Computing and					
	Parekh R.	Communication					
		Technologies,					
		CONECCT 2019					
Recognition of	Khare M.	Lecture Notes in	2019	Scopus	Dhirubhai Ambani Institute of		
human activities		Computer			Information and		
in daubechies		Science			Communication Technology		
complex wavelet		(including			(DA-IICT), Gandhinagar, India		
domain		subseries			(======================================		
domain		Lecture Notes in					
		Artificial					
		Intelligence and					
		Lecture Notes in					
Deals Co. C	T 5 .	Bioinformatics)	2042	6 -	Consult Box 1111		
Replay Spoof	Tapkir P.A.,	2018 Asia-	2019	Scopus	Speech Research Lab,	1	
Detection using	Kamble	Pacific Signal			Dhirubhai Ambani Institute of		
Power Function	M.R., Patil	and Information			Information and		
Based Features	H.A.,	Processing			Communication Technology		
	Madhavi	Association			(DA-IICT), Gandhinagar,		
	M.	Annual Summit			Gujarat, India; Department of		
		and Conference,			Electrical and Computer		
		APSIPA ASC			Engineering, National		
		2018 -			University of Singapore (NUS),		
		Proceedings			Singapore, Singapore		

Robust	Singh P.,	IEEE Computer	2019	Scopus	Dhirubhai Ambani Institute of		
homomorphic	Farid H.	Society			Information and		
image hashing		Conference on			Communication Technology,		
		Computer Vision			Gujarat, Gandhinagar, India;		
		and Pattern			University of California,		
		Recognition			Berkeley, Berkeley, CA, United		
		Workshops			States		
Signal processing	Vaishnav	IET Signal	2019	Scopus	Dhirubhai Ambani Institute of		
on graphs:	N., Tatu A.	Processing		& WoS	Information and		
Structure					Communication Technology,		
preserving maps					Gandhinagar, Gujarat, 382007,		
					India		
Significance of	Tapkir P.A.,	2018 Asia-	2019	Scopus	Speech Research Lab,	1	
Teager Energy	Patil H.A.	Pacific Signal			Dhirubhai Ambani Institute of		
Operator Phase		and Information			Information and		
for Replay Spoof		Processing			Communication Technology,		
Detection		Association			Gandhinagar, India		
		Annual Summit					
		and Conference,					
		APSIPA ASC					
		2018 -					
		Proceedings					
SNR wall for	Captain K.,	Physical	2019	Scopus	Dhirubhai Ambani Institute of	3	1
generalized	Joshi M.	Communication		& WoS	Information and		
energy detector in					Communication Technology,		
the presence of					India		
noise uncertainty							
and fading							
SNR Wall under	Captain	2019 11th	2019	Scopus	Dhirubhai Ambani Institute of	1	
Different	K.M., Joshi	International			Information and		
Scenarios for	M.V.	Conference on			Communication Technology		
Cooperative		Communication			Gujarat382007, India		
Spectrum Sensing		Systems and					
using GED		Networks,					
		COMSNETS					
		2019					
Speech	Kamble	2019 Asia-	2019	Scopus	Dhirubhai Ambani Institute of		
demodulation-	M.R.,	Pacific Signal			Information and		
based techniques	Krishna Sai	and Information			Communication Technology		
for replay and	P.A., Siva	Processing			(DA-IICT), Gandhinagar,		
presentation	Krishna	Association			Gujarat, India; Indian Institute		
attack detection	M.V., Patil	Annual Summit			of Information Technology		
	A.T.,	and Conference,			(IIIT), Vadodara, Gujarat, India		
	Acharya R.,	APSIPA ASC					
	Patil H.A.	2019					
Stacked	Gadhiya T.,	Lecture Notes in	2019	Scopus	Dhirubhai Ambani Institute of		
Autoencoder	Tangirala	Computer			Information and		
Based Feature	S., Roy A.K.	Science			Communication Technology,		
Extraction and		(including			Gandhinagar, India		

	1	<u> </u>	1	I	
Superpixel		subseries			
Generation for		Lecture Notes in			
Multifrequency		Artificial			
PolSAR Image		Intelligence and			
Classification		Lecture Notes in			
		Bioinformatics)			
STSDB: Spatio-	Vyas U.,	ACM	2019	Scopus	Distributed Databases Group
temporal sensor	Panchal P.,	International			DA-IICT, Gandhinagar, India
database for	Bhise M.,	Conference			
smart city query	Patel M.	Proceeding			
processing		Series			
Study of effect of	Mevada P.,	2019 IEEE Indian	2019	Scopus	ISRO, Space Applications
aperture tapering	Gupta S.,	Conference on	2013	Scopus	Centre (SAC), Ahmedabad,
	Kulshresth	Antennas and			India; Dhirubhai Ambani
on grating lobe in					
array antenna	a S.,	Propagation,			Institute of Information and
	Chakrabart	InCAP 2019			Communication Technology
	y S.,				(DA-IICT), Ghandhinagar, India
	Mahajan				
	M.				
Tag-reader	Kachhia R.,	Lecture Notes in	2019	Scopus	DA-IICT, Gandhinagar, India
authentication	Agrawal P.,	Computer			
system guarded	Das M.L.	Science			
by negative		(including			
identifier filtering		subseries			
and distance		Lecture Notes in			
bounding		Artificial			
		Intelligence and			
		Lecture Notes in			
		Bioinformatics)			
Task Allocation in	Joshi N.,	International	2019	Scopus	Dhirubhai Ambani Institute of
Three Tier Fog IoT	Srivastava	Symposium on	2013	Scopus	Information and
Architecture for	S.	Advanced			Communication Technology,
Patient	3.	Networks and			Gandhinagar, Gujarat, 382007,
		Telecommunicat			India
Monitoring					Illula
System using		ion Systems,			
Stackelberg Game		ANTS			
and Matching					
Algorithm					
Teaching Software	Tiwari S.,	Proceedings -	2019	Scopus	DA-IICT, Gandhinagar, India;
Process Models to	Singh	Asia-Pacific			ABV-IIITM Gwalior, Gwalior,
Software	Rathore S.	Software			India
Engineering		Engineering			
Students: An		Conference,			
Exploratory Study		APSEC			
The impact of Use	Barros-	Computer	2019	Scopus	School of Informatics (E.S.E.I.),
Cases in real-	Justo J.L.,	Standards and		& WoS	University of Vigo, Ourense,
world software	Benitti	Interfaces			32004, Spain; Universidade
development	F.B.V.,				Federal de Santa Catarina
projects: A	Tiwari S.				(UFSC), Florianópolis, Santa
r. 0,000,71	1	l .	i	<u> </u>	(

systematic mapping study Time-Frequency Mask-based	Shah N.,	2018 Asia-	2019	Scopus	Catarina, Brazil; Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, India Speech Research Lab, Dhirubhai Ambani Institute of	1
Speech Enhancement using Convolutional Generative Adversarial Network	Patil H.A., Soni M.H.	Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA ASC 2018 - Proceedings			Information and Communication Technology, Gandhinagar, India	
Two wheeler rash drive detection using smartphones	Sasidhar K., Upasini A.	2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019	2019	Scopus	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat, 382007, India	
Ultra low power digital front-end for single lead ECG acquisition	Thakkar S., Mishra B.	Proceedings - 32nd International Conference on VLSI Design, VLSID 2019 - Held concurrently with 18th International Conference on Embedded Systems, ES 2019	2019	Scopus	VLSI and Embedded Systems Research Group, DA-IICT, Gandhinagar, 382 007, India	
Ultra-low power digital front-end for single lead ECG acquisition integrated with a time-to-digital converter	Mishra B., Thakkar S., Jain N.	IET Computers and Digital Techniques	2019	Scopus & WoS	VLSI and Embedded Systems Research Group, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, 382 007, India	
Unsupervised GIST based clustering for object localization	Shah S., Khatri K., Mhasakar P., Nagar	25th National Conference on Communication s, NCC 2019	2019	Scopus	Information and Communication Technology, Dhirubhai Ambani Institute of Information and Communication Technology,	

			1	T	·	
	R., Raman				India; Electrical Engineering,	
	S.				Indian Institute of Technology,	
					Gandhinagar, Gujarat, India	
Vocal Tract Length	Madhavi	Computer	2019	Scopus	Department of Electrical and	
Normalization	M.C., Patil	Speech and		& WoS	Computer Engineering,	
using a Gaussian	H.A.	Language			National University of	
mixture model					Singapore, Singapore;	
framework for					Dhirubhai Ambani Institute of	
query-by-example					Information and	
spoken term					Communication Technology	
detection					(DA-IICT), Gandhinagar, India	
Wearable ECG for	Mishra B.,	2019 11th	2019	Scopus	VLSI and Embedded Systems	
Real Time	Arora N.,	International		'	Research Group, DA-IICT,	
Complex P-QRS-T	Vora Y.	Conference on			Gandhinagar, 382007, India	
Detection and		Communication				
Classification of		Systems and				
Various		Networks,				
Arrhythmias		COMSNETS				
,		2019				
Whether to	Shah N.J.,	Proceedings of	2019	Scopus	Speech Research Lab, DA-IICT,	
pretrain DNN or	Sailor H.B.,	the Annual		'	Gandhinagar, India; Speech and	
not?: An empirical	Patil H.A.	Conference of			Hearing Research Group,	
analysis for voice		the			University of Sheffield, United	
conversion		International			Kingdom	
		Speech				
		Communication				
		Association,				
		INTERSPEECH				
Word embeddings	Joshi I.,	2019	2019	Scopus	Dhirubhai Ambani Institute Of	
in low resource	Koringa P.,	International			Information and	
Gujarati language	Mitra S.	Conference on			Communication Technology,	
.,		Document			Gandhinagar, India	
		Analysis and				
		Recognition				
		Workshops,				
		ICDARW 2019				
		.33, 2013				
			l			

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science) h-index for institute for the year 2019 For Scopus is 34 and Web of Science 21 Title of the papers with number of citations exluding self citations as per above point 3.4.5

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

3.4.7 Taculty partici	5.4.7 Faculty participation in Seminars/Conferences and Symposia during the year.							
No. of Faculty	International level	National level	State level	Local level				
Attended								
Seminars/	23	23	6	Nil				
Workshops								
Presented	4	_	Nil	Nil				
papers	4	5	INII	INII				

Resource	Nil	Nil	Nil	nil
Persons		14		''''
			Canatianad Compant	
Sr. No.	Conference Date	Teacher	Sanctioned Support Amount (Rs.)	Conference Name
				regn/travel for
_				IEEE-CoDIT conf at
1	23-26 Apr 2019	Puneet Bhateja	94908	France
2	23-26 Apr 2019	Puneet Bhateja	73583	air tickets for conf IEEE-CoDIT
				for publication
				charges of his Ph D
3	01 May 2019	Biswajit Mishra	30165	student Ms. Neha
				for publication
				charges of his Ph D
4	01 May 2019	Biswajit Mishra	28083	student Ms. Purvi
				towards regn fee
5	4-5 May 2019	Yash Agarwal	5613	and travel expenses
				towards conf. regn
6	3-6 June 2019	Manish Khare	41676	fee
7	Jun-19	P Majumder	11974	Travel and visa fee
8	4-6 July 2019	Biswajit Mishra	22564	Conf registration
				Travel ticket
9	4-6 July 2019	Biswajit Mishra	13147	expense
				IEEE membership
10	10 Jul 2019	Yash Vasavada	6406	renwal
				paper presentation
				regn ICDAR WML
11	20-21 Sep 2019	Suman K Mitra	21571	2019, Sydeny
				To attend IEEE
				Convene conference
12	Jul-2019	Anil Roy	38184	in USA
		-		for oral presentation
13	5-6 Jul 2019	Alka Parikh	24000	at ICT 4SD 2019 Goa
				for student Arnav
				Shah to attend ICT
14	5-6 Jul 2019	R Ghosh	38000	4SD Goa
				for her Ph D student
				support in conf Mr.
15	10 Jul 2019	V Sunitha	34641	Rishikant
				for her Ph D student
				support in conf Mr.
16	Aug 2019	P Majumder	13283	Rishikant
				to support for
				illustration work to
17	15 Mar 2019	Shweta Garg	80000	Mdes students
		Ĭ		registration fee for
18	12-13 Sep 2019	Suman K Mitra	24000	02 paper

				presentation at
				MNIT
				To support UG
				student for attend
19	Jul 2019	Rutu Parekh	7331	conf
				regn fee and tour
				expense for SPIE
20	Aug 2019	Anjan Ghosh	171192	conf at San Diego
20	Aug 2013	Anjun Gnosn	171132	regn fee for PReMI
				2019 conference
21	10 12 Aug 2010	Suman K Mitra	14000	
21	10-12 Aug 2019	Suman K Mitra	14000	(IEEE CONECCT)
				to support PhD
				student Tushar, for
22	17-20 Dec 2019	Anil Roy	16000	regn PReMI2019
				Tour travel and regn
23	Sep 2019	P Majumder	11200	fee expense
				To support Ph D
				student Mr. Sumukh
24	13 Sept 2019	Aditya Tatu	25000	for visa/regn
				Publication charge
25	18 Sept 2019	Anil Roy	123311	for IEEE TGRS
	'	,		Air tickets to attend
26	Sep 2019	Bhaskar Chaudhury	99791	abroad conference
	OGF 2025	2asia. s.iada.a.,		Confer regn and
				travel exp ICIAP 19
27	9-13 Sep 2019	Manish Khare	71983	at Italy
27	J-13 3ep 2013	Widilish Khare	71363	· ·
				To support pre
20	20 Comt 2010	Dutu Darakh	F000	paper present for
28	30 Sept 2019	Rutu Parekh	5000	Int Conference
			40000	to attend conf. SSW-
29	20-21 Sep 2019	Hemant Patil	100000	2019 at Vienna
				travel exp for paper
				presentation at
30	13 Sept 2019	Suman K Mitra	4000	MNIT
				INAC Confernce
				regn fee,
31	26-27 Sept 2019	Vinay Palaparthy	5756	Ahmedabad
				Regn and travel
				expenses for 72nd
32	28 Oct - 1 Nov 2019	Bhaskar Chaudhury	86937	AGE Conf at Texas
				Regn and travel
				expenses for 72nd
33	28 Oct - 1 Nov 2019	Bhaskar Chaudhury	1610	AGE Conf at Texas
		,	<u> </u>	regn charges for 4th
				Int Conf on com In
34	27-29 Feb 2020	Suman Mitra	8000	CINE 2020
	2, 231002020	Saman Willia	0000	regn for 2nd Indian
				Conf on Anteena
35	19-22 Dec 2019	Sanjeev Gupta	14661	InCAP 2019
33	13-22 DEC 2013	Janjeev Gupta	14001	IIICAF ZUIJ

				regn for 2nd Indian
		Doorels		Conf on Anteena
26	10.22 0 2010	Deepak	4.4664	
36	19-22 Dec 2019	Ghodgaonkar	14661	InCAP 2019
				to support student
37	27-29 Sep 2019	MV Joshi	13250	for regn CVIP 2019
				to present paper in
				National conf on
38	22-24 Dec 2019	MV Joshi	7080	com vision
				IEEE membership
39	16 Dec 2019	Maniklal Das	8033	renwal
40	16 Dec 2019	Sanjeev Gupta	9176	Conference Regn
				conference regn
				physical sc. IACS
41	18-27 Dec 2019	Arnab Kumar Ray	6408	Kolkatta
		,		regn charges for
				accepted paper in
				9th ICPRAM 2020,
42	22-24 Feb 2020	Suman K Mitra	36000	Malta
				China visa fee on
				settlement from
43	05 Jan 2020	Supantha Pandit	11806	DST Proj
13	03 3411 2020	Supuriera i ariare	11000	for IEEE
				membership
44	10 Jan 2020	Manish K Gupta	10408	renewal
44	10 Jan 2020	Ivianish K dupta	10406	
				regn and travel
45	0.42 to 2020	Vario Assessal	40024	exp.to attend
45	9-13 Jan 2020	Yash Agarwal	10831	workshop- IIT Roorki
				To support Ph D
				student Ms Nidhi for
46	24 Jan 2020	Maniklal Das	21853	conf regn
				to support Stu kirtan
				Patel for conf regn
47	24 Jan 2020	Maniklal Das	13600	and travel
				Regn fee for ACM-
				SAC 2020
48	30 Mar - 3 Apr 20	Saurabh Tiwari	42906	conference
				regn fee for
49	30 Jan 2020	PS Kalayna Sasidhar	13983	conference
				travel support to his
				Ph D student
				Neha(COMSNETS
50	7-11 Jan 2020	Biswajit Mishra	10978	2020)
				for IEEE
				membership
51	10 Feb 2020	Manish K Gupta	10408	renewal
				for extra pages
				charges for pub. In
52	17 Feb 2020	MV Joshi	58694	IEEE journal JSTARS
52	1, 100 2020	303	30034	1222 30 41 1141 30 17 113

				IEEE membership
53	28 Feb 2020	Yash Vasavada	8878	renwal
				for regn fee
				presentation of
				paper AMLTA 2020,
54	13-15 Feb 2020	Pankaj Kumar	6500	Jaipur
				Travel exp inc for
				pre. paper at
				COCOA 2019 &
55	13-15 Dec 2019	Supantha Pandit	55573	WALCOM 20
				for regn fee
56	31 Mar - 2 Apr 20	Supantha Pandit	32845	WALCOM 2020
				financial support to
				btech student Karan
57	28 Feb 2020	R Ghosh	4500	for conf. regn
				Regn fee (to support
58	12 Mar 2020	Yash Agarwal	5000	his Mtech student)
				Regn fee (to support
59	12 Mar 2020	Yash Agarwal	5000	his Mtech student)
				travel exp. To
				present paper at
				ISDCS 2020 in IIEST
60	4-6 Mar 2020	Tapas Kumar Maiti	19294	Shibpur
61	4-6 Mar 2020	Tapas Kumar Maiti	14166	conference regn fee

3.5 Consultancy

Name of the	Name of Consultancy	Consulting/Sponsori	Revenue gene	Revenue generated (amount in rupee	
Consultant(s) / department	project	ng Agency	Amt Received	Expense	Surplus
R Ghosh	Crop Yield Prediction using satellite data and machine learning approach	Ammex Info Technology, Ahmedabad	808,470.25	481,584.00	326,886.25
P Majumder	Building of Prototype of Financial news Recommendation & Summariser System	Vista Intelligence Pvt Ltd, Kolkatta	652,500.00	75,000.00	577,500.00
Anil Roy	Development of Dew Map of Gujarat	Govt of Gujarat (Climate Change Deptt)			
Yash Vasavada	CP-19/SAC/YMV/DEBD (DESIGN FOR ENHANCED BURSTDEMODULATOR		453,400.00	453,400.00	(1,312.00)
Manik Lal Das	Workshop – Space		932,626.00	933,938.00	

Name of the	Title of the	e Programme	ogramme Agency seeking		ning Reve	nue generated	Number of	
Consultant(s)					(amo	ount in rupees)	trainees	
& Department								
		RECOGNITION	TATA CONSUL	TANCY	24,500	0.00		
	& DIARIZA	TION	SERVICES					
3.6 Extension	Activities							
						ration with indu	=	
community an	d Non- Gov	vernment Org	anisations thr	ough N	SS/NCC/Red cro	ss/Youth Red C	ross (YRC)	
etc., during the	e year							
Title of the Activ	vities	Organising ur	nit/ agency/	Numb	er of teachers	Number of stu	udents	
		collaborating	agency	coord	inated in such	participated in	n such	
				activit	ies	activities		
1			Ni	il				
3.6.2 Awards a	ınd recogni	ition received	for extension	activitie	s from Governr	ment and other	recognized	
bodies during	_						_	
Name of the Ac		Award/recog	nition	Award	ling bodies	No. of Studen	ts benefited	
	<i>,</i>	1 1, 1118	NI		0			
3.6.3 Students	participati	ng in extension			rnment Organis	sations, Non-Go	vernment	
	-	_			_	nder Issue, etc.		
year	ana progra	irinines sacir a	o ovvacimi bilar	at, 7as	,a. ee.s., e.e.	11401 13340, 000.	ading the	
Name of the	Orga	nising unit/	Name of th		Number of	Number of s	tudents	
scheme	ager	_	activity		teachers	participated		
Somerine	_	borating			coordinated in		activities	
	ager	_			such activities			
			Ni	il				
3.7 Collaborat	ions			· ·				
3.7.1 Number	of Collabor	ative activitie	s for research	, faculty	exchange, stud	dent exchange o	during the	
year								
Nature of A	ctivity	Part	icipant	Sou	rce of financial	Dura	ation	
					support			
Research Collab	ration visit	Prof. Manish	K Gupta	King A	bdulaziz	Sep 30, 2019	to Oct 25,	
to Saudi Arabia				Unive	rsity, Saudi	2019		
			Arabia					
Research Collabration visit to Fraunhofer Institut		Sourav Deb, F	hD Student	DST-D	AAD grant to PI	December 8, 2	2019-	
				Prof. I	Manish K. Gupta	December 24,	2019	
für Zelltherapie	und							
Immunologie								
Cormany		I		1		1		
Germany								
Resarch Collabr	ation visit	Dr. David M. S	Smith	DST-D	AAD grant to PI	Feb 10, 2020-	Feb 29, 2020	
		Dr. David M.	Smith	Prof. I	AAD grant to PI Manish K. Gupta r. David M.	Feb 10, 2020-	Feb 29, 2020	

Smith and DA-IICT Gandhinagar

DST-DAAD grant to PI

Prof. Manish K. Gupta

and Dr. David M.

Martin Glaser, PhD Student

for lectures

Resarch Collabration visit

to Prof. Manish K. Gupta

and DA-IICT Gandhinagar

Feb 10, 2020-Feb 23, 2020

Research and Development on Intelligent Systems and Circuits 3.7.2 Linkages with instit research facilities etc. du	Hiroshima Unive	ersity, Japan		and DA-IICT ninagar NA	July, 2019 - Onwards
Development on Intelligent Systems and Circuits 3.7.2 Linkages with instit research facilities etc. du		ersity, Japan	Gandh		July, 2019 - Onwards
Development on Intelligent Systems and Circuits 3.7.2 Linkages with instit research facilities etc. du		ersity, Japan		NA	July, 2019 - Onwards
Intelligent Systems and Circuits 3.7.2 Linkages with instit research facilities etc. du	utions/industrie				ļ
3.7.2 Linkages with instit	utions/industrie				
3.7.2 Linkages with instit research facilities etc. du	cutions/industrie				
research facilities etc. du	 :utions/industrie:				
research facilities etc. du	utions/industrie:				
		s for internsh	iip, on-	the-job training,	project work, sharing of
	iring the year				
	le of the linkage	Name of	the	Duration	Participant
/Collaborative	(Research	partnerii	-	(From-To)	
Research	Internship)	institution/ir			
		y/research			
		with cont			
		details	<u> </u>		
Internship	Intern	Microsoft	2 months		13
Internship	Intern	Sprinklr		2 months	7
Internship	Intern	Amazon		2 months	14
Internship	Intern	Morgan Stan	ley	2 months	4
Internship	Intern	LinkedIn		2 months	2
Internship	Intern	Goldman Sac		2 months	6
Internship	Intern	Deutsche Ba	nk	2 months	8
Internship	Intern	Innovaccer		2 months	
		Analytics		_	1
Internship	Intern	Headout		2 months	1
Internship	Intern	Kristal.ai		2 months	3
Internship	Intern	Opshub		2 months	2
_		tional, intern	ational	importance, oth	ner universities, industries,
corporate houses etc. du	, 		1		
Organisation	Date of Mo	U signed	Purpo	se and Activities	Number of
					students/teachers
					participated under MoUs
Indian Institute of				sign and offer	
Technology, Jammu	02/11/2018	and/or		undergraduate	6 faculty
				r Postgraduate	26 students
			teachi	ng programs	

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 allocated for infrastructure augmentation Budget utilized for infrastructure development				
15,50,00,000		9,85,56,899			
4.1.2 Details of augmentation in infrastructure facilities during the year					
Facilities		Existing	Newly added		
Campus area					
Class rooms		25			

Laboratories			23		
Seminar Halls			4	4	
Classrooms with LCD faciliti	es		25	25	
Classrooms with Wi-Fi/ LAN			25	25	
Seminar halls with ICT facility	ties		25	25	
Video Centre			3	3	
No. of important equipmen current year.	ts purchased (≥ 1-0 lakh) during th	e		08	
Value of the equipment pur	chased during the year (Rs. in Lak	ns)	Rs. 2,28,67,802/-		
Others					
4.2 Library as a Learning		and Cont	(II BAC\)		
	d (Integrated Library Managem		m (ILIVIS)}	T.,	
Name of the ILMS software	Nature of automation (fully or partially)	Version		Year of automation	
SLIM++ (2002-2016) KOHA ILS (2016 onwards)	Partially	16.11.06.000		2002	
121 Library Services					

4.2.1 Library Services:

1.2.1 Elorary Services.								
	Existing		New	ly added	Total			
	No.	Value	No.	Value	No.	Value		
Text Books	30259	58594330.98	496	1539840.00	32435	60134170.98		
Reference Books	1484	4839053.94	2	0	1486	4839053.94		
e-Books	52734	16702496.34	4240	1,786,583.57	55694	18489079.91		
Journals	94	988,503.26	-	-	94	988,503.26		
e-Journals	13488	8391920.53	763	856915.48	14096	9248836.00		
Digital Database	1	57,179.00	1	117,362.00	2	174,541.00		
CD & Video	4037	13,91,891.00	0		4037	13,91,891.00		
Library	Libram, A	utamatian platfar	m is davalar	and inhouse her	see cheure zore value			
automation	Library A	Library Automation platform is developed inhouse, hence shown zero value.						
Weeding (Hard &	NII	NII	Nil	Niil	NII	NII		
Soft)	INII	Nil Nil		Nil	Nil	Nil		
Others (specify)								

- 1. Journals and e-Journals are annually renewed and therefore there is no difference in existing and newly added values.
- 2. Digital database is also renewed annually.

Guidelines of IQAC and submission of AQAR for Universities

- 3. CD come free with books and DVDs we purchase. In the value cell what we are showing is the price of DVDs.
- 4. Library Automation platform is developed in-house, hence we have shown zero value for this.

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

a motivational (Learning Wanagement System (Livis) etc						
Name of the teacher	Name of the module	Platform on which	Date of launching e - content			
		module is developed				
Nil						
4 3 IT Infrastructure						

4.3.1 Tec	4.3.1 Technology Upgradation (overall)								
	Total	Comp	Internet	Browsing	Compute	Office	De	Available	Others (
	Computer	uter		Centres	r Centres		par	band width	Wi-fi Access
		Labs					tm	(M/GBPS)	Points)
							ent		
							S		
Existing	1253	28	1253	4	3	-		1Gbps+20M	119 (Wireless
								bps	APs)
Added	45	-	40	-	-	-		50Mbps	
Total	1298	28	1293	4	3	-	NA	1Gbps+20M	119 (Wireless
								bps+50Mbp	APs)
								S	

Note:

- 1. Total computers includes Desktops and Laptops.
- 2. Computer Labs include Research Labs also
- 3. Internet available in all PCs based on authentication & request
- 4. In browsing centers one center shared with computer Lab
- 4.3.2 Bandwidth available of internet connection in the Institution (Leased line)
- 1 Gbps & 20 Mbps fibre Leased line

4.3.3 Facility for e-content

the terminal		
Name of the e-content development facility	Provide the link of the videos and media centre and	
	recording facility	
Access the Digital resource CD/DVD collection	ftp://rcmedia.daiict.ac.in (Passward Protected)	
Online Lecture delivery to remote location using video	Online delivery using VC	
conference facility	Offilite delivery using vc	

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 Expenditure incurred on		Assigned budget	Expenditure incurred on
academic facilities	maintenance of academic	on physical	maintenance of physical
facilities		facilities	facilities
	(In INR)		(In INR)
2,27,69,000 6,79,88,222		10,29,77,000	10,18,07,695

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)

1. Introduction:

1.1 The Estate Section in Administration Division headed by the Estate Engineer under the supervision of Head (Administration) is responsible for maintenance of campus buildings, machineries and equipment. The section contains supervisory and technical staff such as Estate Engineer, General Assistant, Electricians, Plumber and Carpenter.

1.2 The staffing allocations as narrated above have enabled the Institute to implement effective preventive maintenance and also attend to break-downs and defects instantly and maintain all the equipment and computers in working condition on 24 x 7 basis.

All classrooms are enabled with ICT facilities and are available for academic activities as per academic Timetable for the students those who are admitted in the Institute. The classrooms, white boards and furniture facilities are utilized regularly by the students but sometimes it is also made available for conducting the exams, Student events, seminars and workshops. The office computers are also connected through LAN. The staff and faculty members can make use of the computer system with internet facilities at their seating places. Moreover, the management has also provided Laptops to Faculty members and management staff. Institute has implemented remote online Learning & Management system for students for easy access to courses and eLearning content and conducting online exam anywhere, anytime. The students on the campus have access to high speed Wi-Fi connectivity to helps them for accessing online classes, course material and assignments posted by teachers. Institute also provide printing facilitates to the students to help them to take hardcopy of important documents.

Standard Guidelines

The Resource Centre (RC) which is the library of DAIICT has a rich and diverse collection of books, e-books, print and e-journals, audiovisual material, databases and it also maintains an institutional repository of faculty publications, historical documents of the institute, students theses and doctoral dissertations.

The RC is managed by a team of qualified library professionals. The RC has a library committee responsible for policy guidelines and implementation strategies.

The following are the summaries of Key process guidelines for library management:

1. Collection Development

The objective is to provide a framework for the maintenance and development of the DA-IICT Resource Centre's collections.

It covers acquisition methods for all the library material, procurement process, book selection and bill processing. The journals and databases follow a different process. It also lists terms and conditions for the library material vendors for books, journals and periodicals.

2. Resource Centre budgeting

Resource Centre budget denotes the financial allocation to procure documents, provide access to the information resources and delivering library services. Librarian is responsible for the Resource Centre's budget and prepares a proposal that clearly outlines RC's actual funding.

The budget is proposed/allocated under separate heads to support different areas of collection activity. These are under CAPEX (Books, New Audio-visual Materials, e-Journals, Databases/E-books) and OPEX (Print Journals, subscriptions for the Digital/Online Resources, ICT Related Expenditure, Furniture & Fixtures)

3. Stock verification

Objectives of Stock Verification are updating library stock, rectify the arrangement of books on the shelves and reveal the losses. As per the current stock volume, the verification is done once every 3 years. A formal report on the physical stock verification The budget to the Director, DAIICT.

4. Binding policy

This policy covers physical journals and books. To maintain the journals' back issues in a safe condition, they are sent for binding once all the issues are received. The binders need to follow a standard format including

the colour of the jacket, font size etc as given to them. The books with loose pages and weak binding are also sent for re-binding to extend their shelf life.

5. Alumni and Institutional membership policy

This policy intends to extend this collection's benefit to the past students and faculty members by offering them an Alumni Membership. The corporates and institutes can also avail this membership. The policy specifies the details of the membership fees and service offerings.

6. **Book borrowing and issue return policy**

The policy specifies the number of documents that can be borrowed by the different categories of the users, the fines in case of late returns. The issue/return explains the actual process when the book is issued and when it is returned.

2. Maintenance Policy:

The Institute has three distinct maintenance policies – (a) Preventive. (b) Break-down and (c) Total Maintenance.

- 2.1 The Estate Engineer conducts periodical inspection of campus buildings and generates proposals for required maintenance. The proposals, after review by the Head (Administration), are forwarded for approval of the Executive Registrar/Director depending upon the estimated cost. In case the estimated cost exceeds Rs.1.00 lakh a detailed assessment of the proposal is carried out by a Committee consisting of the Executive Registrar, Head (Admin. & HR), Estate Engineer and Commercial Officer and based on the recommendations of the Committee, on approval of the Director, tenders are invited from selected building maintenance contractors.
- 2.2 On technical and financial evaluation of the tenders received, with the approval of the Director the work is awarded to a Contractor who has the reputation of rendering quality maintenance work of buildings and at a cost moderately lower.
- 2.3 In respect of machineries and equipment such as transformers, generator, air conditioners, water treatment plants, garden irrigation system, annual maintenance contract is awarded which includes preventive maintenance and break-down occurrences to Contractors who are specialized in maintenance of machineries and equipment following the tender procedures as described in Sl. No. 2.1 and 2.2.
- 2.4 The Estate Section monitors and certifies the quality of work carried out by the Contractors. In certain specialized maintenance work, external experts are invited to assess the quality of work and certify.
- 2.5 The contract awarded specifies preventive, defective and break-down maintenances. The Contractor assigns a group of specialized technical personnel.
- 2.6 The building maintenance of campus is handled by the Estate Section.

Laboratories : Preventive maintenance – twice a year – before start of each semester, Breakdown maintenance : Depends on symptoms – 1^{st} level in-house repairing, if any major issue – call basis repairing through concern vendor at on site /off site and during the breakdown maintenance, utilising stand by equipment – based on availability.

The maintenance of Classroom ICT equipments and computers and Lab Computers are done before the start of every semester. Upgradation of Classrooms and Lab computers are done as and when required by the faculty member.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support (for presenting their research papers at conferences through CPDA) from DA-IICT):

	Name /Title of the	Number of students	Amount in Rupees
	scheme		
1	DA-IICT Merit-Cum-Means	40	
	Scholarship		
2	DA-IICT Merit Scholarship	30	
3	R-Comm Merit-Cum-	40	
	Means Scholarship		

Financial support from other sources

a) National	UGC	2 PhD students	Amount not known
b) International			

Financial Support for Students (for presenting their research papers at conferences through CPDA) from DA-IICT):

Date	Student Name	Faculty	Particulars	Amount (INR)
05 Aug 2019	Rishikant R	Prof. V. Sunitha	for conf travel/visa etc	30000
11 Oct 2019	Archanan Nigam	Prof. Sanjay Srivastava	conference regn	17264
11 Dec 2019	Anjali Diwan	Prof. Suman Mitra	Registration for conf.	15553
			ICIIP 19	
11 Dec 2019	Miral Shah	Prof. Bhaskar	Regn, travel for paper	10606
		Chaudhury	pre at 12th int conf at	
			Lucknow	
11 Dec 2019	Pankaj Chaudhary	Prof. Deepak	regn for InCAP 2019	7697
		Ghodgaonkar	conf at Ahmedabad	
11 Dec 2019	Rahul Vasisth	Prof. Deepak	regn for InCAP 2019	7697
		Ghodgaonkar	conf at Ahmedabad	
02 Jan 2020	Sujata	Prof. Suman Mitra	Regn fee of Conference	10000
			INDICON 2019	
02 Jan 2020	Pranave Verma	Prof. Anish Mathuria	Regn fee for paper at	18599
			IDRBT Hyd	
2 Jan 2020	Ankita	Prof. Sanjeev Gupta	Conference regn INCAP	7302
			2019	
7 Jan 2020	Sujata	Prof. Suman Mitra	NCVPRIPG Conf. regn	7080
7 Jan 2020	Pramod Kumar	Prof. P.S. Kalyan	Conference regn fee	25808
	Tripathi	Sasidhar		
8 Jan 2020	Miral Shah	Prof. Bhaskar	conf regn and travel	3216
		Chaudhury	exp. PLASMS 2019 AT	
			Chennai	
10 Jan 2020	Anjali Diwan	Prof. Suman Mitra	NCVPRIPG Conf. regn	19080
			/regn fee	

16 Jan 2020	Hardik Gajera	Prof. Manik Lal Das	for presentation of	26180
			paper in COMSNET	_3366
			• •	
			2020	
27 Jan 2020	Maitri Vaghela	Prof. P.S. Kalyan	for travel and regn fee	22759
		Sasidhar	ACM ICDCN 21st Int	
			Conf	
27 Jan 2020	Nikita Joshi	Prof. Sanjay Srivastava	for travel and regn fee	25027
			for IEEE ANTS-2019 Goa	
31 Jan 2020	Kalgi Gandhi	Prof. Minal Bhise	Conference	10000
			reginstration fee	
4 Feb 2020	Hardik Gajera	Prof. Manik Lal Das	for regn fee of	26290
			COMSNET Conference	
		Total		290158

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.,

Wientering etci,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Weekly Debate Session	25/07/2018	>80	Debate Club, DA-IICT
Entelechy (Online magazine)	25/07/2018	>60	Press Club, DA-IICT
Quizzing Sessions	25/07/2018	>60	Headrush Club, DA-IICT
Remedial Classes	Mid-September	~55	Academic Committee/B Tech TAs
Student Mentorship	25/07/2018	11	Anti-Ragging Committee
Personal Counsellors	25/07/2018	Variable	Institute's Professional Counsellors

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

Year	Name of the	Number of	Number of	Number of	Number of
	scheme	benefited	benefited	students who	students
		students by	students by	have passed in	placed
		Guidance for	Career	the competitive	
		Competitive	Counselling	exam	
		examination	activities		
2019-20	Pre Placement		~550		
	Mock Online				
	Test				
2019-20	Industry		~520		
	Leader's tech				
	talk				
2019-20	Engineering		~570		
	Workshops				

2019-20	Placement	~580	We do not keep record of this
	readiness		data.
	seminar/talk by		
	Placement Team		
2019-20	Placement	~590	
	Orientation		
2019-20	Career	~550	
	Counselling,		
	Hackathons /		
	Online contest		
	etc.		

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	No. of grievances redressed	Average number of days for
		grievance redressal
9	9	Not Applicable

5.2 Student Progression

5.2.1 Details of campus placement during the year

On car	npus		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
Acies Consulting LLP	26	1	Aditech Infotech	NA	1
Acko Technology & Services pvt ltd	218	7	Appmastery	NA	1
Almaconnect	35	1	Atlan	NA	1
Almashine	20	2	Aubergine	NA	1
Amadeus	32	3	Bacancy Technology	NA	1
Amazon	575	19	EmpowerED	NA	1
AssetTrackr Pvt Ltd	20	2	Gojek	NA	1
Awaaz De Infosystems Pvt. Ltd.	83	3	Google India	NA	1
BYJU's (Think & Learn Pvt Ltd)	47	1	Google India	NA	1
Cadence Design Systems	9	1	Headout	NA	1
Capgemini	54	4	Hubilo	NA	1
Capillary Technologies	42	4	Jumpup Intelligent servives pvt LTD	NA	1
Cloudera	108	4	Niyantras	NA	1
COVIAM Technology & Services Pvt Ltd	118	10	OYE RICKSHAW	NA	1
Deutsche Bank (DBOI Global Services Private Ltd)	225	12	PIRIMID	NA	2
EmpowerED	79	1	Solulab	NA	2
Endurance International Group	364	2	Toddle	NA	1
ezDI Solutions (India) LLP	112	1	Universal Software	NA	1
Factset	37	1	V4Count	NA	3

Fintech Global Center	46	5	WCFN Solutions PVT LTD	NA	1
Flock	226	3	Zen Axim Pvt LTD	NA	1
Fractal Analytics	36	3	Zignuts Technlabs Pvt Itd	NA	1
Futures First Info Services Pvt. Ltd	187	1	Total		26
GE Digital	109	4			
Goldman Sachs	489	7			
Gridle	48	5			
Grofers	56	2			
Gujarat State Petronet Limited	13	1			
HashedIn Technologies	105	2			
HSBC	61	3			
Infocusp Innovations Pvt. Ltd.	143	3			
InfoObjects Software Pvt Ltd	45	3			
Infosys Limited	70	5			
Innovaccer Analytics Pvt Ltd	87	3			
Innovify	53	10			
Juniper Networks India Pvt. Ltd.	41	3			
KPIT Technologies	6	6			
Kristal.ai	36	2			
Kuliza Techologies Pvt. Ltd	87	2			
LinkedIn	185	3			
Magenta Connect Pvt Ltd	46	5			
MAQ Software	137	15			
Mercer Mettl	30	2			
Microsoft India Pvt. Ltd.	Preplacement offer	4			
MindTickle Interactive Media Pvt Ltd	146	2			
Morgan Stanley	299	2			
Nagarro Software Pvt Ltd	57	3			
Nutanix India Technologies PVT. LTD.	167	2			
Ontic Technologies	77	5			
Opshub Technologies Pvt Ltd	Preplacement offer	5			
Optimized Solutions Pvt Ltd	67	5			
Oracle India Private Limited	81	15			
OYO (Oravel Stays Private Limited)	106	11			
Pay1 (MindsArray Technologies Pvt Ltd)	65	4			
Philips India Limited	46	5			
Proptiger	65	7			
Publicis Sapient	69	5			

Qualcomm - Only fo	r	8		1				
Women		٥		1				
Quikr India Pvt Ltd		158		3				
Rishabh Software		13		4				
S&P Global		48		3				
Samsung R & D		39		5				
Searce		153		5				
Si2 Technologies		52		1				
SiFive		2		2				
Silverleaf Capital Ser Pvt. Ltd.	rvices	211		3				
Skillwin Technology (Octro Inc.)	Pvt Ltd	51		3				
Sprinklr India Pvt Ltd	.	565		20				
Sublime Data System		13		20				
•		13						
Synopsys India Pvt L Internship)		6		1				
Synopsys India Pvt L Job)	td (Only	8		2				
Synoptek		55		4				
Tata Consultancy		22		-				
Services(CTO)		23		5				
TCS Design Hiring		5		1				
TCS Digital Hiring		75		4				
Tekion India Pvt. Ltd		256		12				
Treebo Hotels		44		5				
Truebil.com (Paix		400		2				
Technology Pvt. Ltd))	103		2				
TruSource Technolo	gy Pvt	1.4		0				
Ltd		14		8				
VADICT Innovations	Pvt. Ltd	58		4				
Veratech Intelligenc	e Pvt Ltd	54		2				
Verse Innovation Pri	ivate	Preplacer	nent	_				
Limited,		offer		1				
VISA		Preplacer offer		1				
VOICEZEN INDIA PRI LIMITED	IVATE	132		5				
Vuclip India Pvt. Ltd.	•	115		8				
<u> </u>		124		2				
· ·		15		1				
Zomato 112			3					
ZS Associates(Data Science								
Challenge - 2019)		34		1				
Total		8337	7	376				
5.2.2 Student prog	ression t				entage during the	year	I	1
Year	Number			ramme	Department		me of	Name of
	students	5	_	uated from	graduated from	inst	titution	Programme
	enrolling	g into				joir	ned	admitted to

	higher education			
2020	21 B T B T (Ho wit	rech (ICT) rech pnours) in ICT ch minor CS Tech (ICT)	List atta belo however not exhausti	w (-, this is an
The below list is ind	icative	·	•	
Year	Name of students enrolling into higher education	Programme graduated from	Name of institution joined	Name of Programme admitted to
2019-20	Desai Anushka Bhupendra	B.Tech. (ICT)	Arizona State University	MS Information Systems
2019-20	Shah Manish Rasiklal	B.Tech. (ICT)	UNCG, USA	MS in CS
2019-20	Shivam Agarwal	B.Tech. (ICT)	MDI Gurgaon	HR
2019-20	Mayank Kumar Jethwa	B.Tech. (ICT)	Humber Institute of Technology	Human Resource Management
2019-20	Anery Kirtibhai Patel	B.Tech. (ICT)	Northwestern University	MS
2019-20	Vishnu Kanduri Sreenivas	B.Tech. (ICT)	Presidency University	Data Science
2019-20	Shikhar Dubey	B.Tech. (ICT)	IIM Calcutta	MBA
2019-20	Kavit Amit Shah	B.Tech. (ICT)	Rutgers University	Masters in Computer Science
2019-20	Vraj Swetal Mashruwala	B.Tech. (ICT)	Arizona State University	MS Information Systems Management
2019-20	Aaklit Taneja	B.Tech. (ICT)	INSEAD	MIM
2019-20	Patel Naishal	B.Tech. (ICT)	Rutgers University	MS in CS specialization in DS
2019-20	Patel Mohil Kartikbhai	B.Tech. (ICT)	Lakehead University	MS in Computer Science
2019-20	Abhignyana Lakshmi Chalamcharla	B.Tech. (ICT)	IIM Ahmedabad	PGP
2019-20	Shah Sulay Anandbhai	B.Tech. (Honours in ICT with minor in CS)	Arizona State University	Masters in Computer Science
2019-20	Saksena Devansh Jayantkumar	B.Tech. (ICT)	University of Greenwich	M.Sc. Computer Science
2019-20	Bishesh Oram	B.Tech. (ICT)	IIM Kozhikode	PGP / MBA
2019-20	Rutvik Shah	B.Tech. (Honours in ICT with minor in CS)	Yale University- School of Management	МВА

2019-20	Kunal Manish Jani	B.Tech. (Honours in ICT with minor in CS)	Santa Clara University	Computer Science and Engineering
2019-20	Vishrut Chetan Jetly	B.Tech. (Honours in ICT with minor in CS)	University of Southern California	M.Sc. Computer Science
2019-20	Karan Pardasani	B.Tech. (Honours in ICT with minor in CS)	Rutgers University	Masters in Computer Science
2019-20	Patil Kirtiraj Samadhan	M.Tech. (ICT)	DA IICT	Ph.D.

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

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET		
SET		
SLET		
GATE		
GMAT		
CAT	We are not collecting this data.	
GRE		
TOFEL		
Civil Services		
State Government Services		
Any Other		

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

Activity	Level	Participants
Concours	Inter-college sports fest	Not Applicable
Intra DA-IICT sports – inter-wing	Intra DA-IICT	Not Applicable
and inter-batch for the 8 sports –		
basketball, football, badminton,		
carrom, chess, cricket, table tennis,		
volleyball		
Synapse (cultural fest)	Cultural Fest	Not Applicable
Maniere (fashion)	Intra DA-IICT	Not Applicable
Raaga & Rhyme (music)	Intra DA-IICT	Not Applicable
Rangmanch (drama)	Intra DA-IICT	Not Applicable
Intra-DA Spell Bee	Intra DA-IICT	Not Applicable

5.3 Student Participation and Activities

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

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2019-20	SPM PDPU Pratibimb Winner	National	-	Dance	Not Applicable	DA-IICT
2019-20	IIM-A Chaos – Second Runner Up	National	-	Dance	Not Applicable	DA-IICT
2019-20	IIT Gandhinagar Blithchron – First Runner Up	National	-	Dance	Not Applicable	DA-IICT
2019-20	Nirma University Genesis – First Runner Up	National	-	Dance	Not Applicable	DA-IICT
2019-20	DAIICT Synapse – First Runner Up	National	-	Dance	Not Applicable	DA-IICT
2019-20	Khelaiya club won the 1st Runner-up prize in IIM-A fest Chaos	National	-	Dance	Not Applicable	DA-IICT
2019-20	IIT Gandhinagar - Blithchron - 1st prize	National	-	Music	201701261	Shivam Pandita
2019-20	Nirma University - Genesis - 1st prize	National	-	Music	201701261	Shivam Pandita
2019-20	DAIICT - Synapse (RHAPSODY Duet) - 1st prize	National	-	Music	201912118, 201801056	Biswaranja Padhy, Dhruvil Bhatt
2019-20	DAIICT - Synapse (RHAPSODY Solo) - 1st prize	National	-	Music	201912118	Biswaranja Padhy
2019-20	DAIICT - Synapse (RAAGA) - 3rd prize	National	-	Music	201701133	Krupa Joshi
2019-20	DAIICT - Synapse (RAAGA) - 2nd prize	National	-	Music	201701261	Shivam Pandita
2019-20	DAIICT - Synapse Mime – Gold (1)	National	-	Drama	Not Applicable	DA-IICT
2019-20	DAIICT - Synapse Stage play – Silver (1)	National	-	Drama	Not Applicable	DA-IICT
2019-20	DAIICT - Synapse Street play – Bronze (1), Gold (1)	National	-	Drama	Not Applicable	DA-IICT
2019-20	Pop Ki Kamai - Ahmedabad edition – 2020 at IIM Ahmedabad - Winner	National	-	Quiz	201801402, 201701023	Bhargav Dave, Dhruv Charan
2019-20	Magister General Quiz 2020 on the	National	-	Quiz	201701023, 201801402	Dhruv Charan, Bhargav Dave

	state level First &					
	Second					
2019-20	General Quiz at Chaos, IIM Ahmedabad - Third	National	-	Quiz	201701011 201801402, 201701023	Anish Deshpande, Bhargav Dave and Dhruv
2019-20	Spectrum 2020, NIFT - General Quiz Winner	National	-	Quiz	201601401, 201921006	Charan Mit Vasani and Sayan Mukherjee
2019-20	Spectrum 2020, NIFT - General Quiz Second	National	-	Quiz	201701011, 201801402	Anish Deshpande and Bhargav Dave
2019-20	DAIICT - Synapse Synapse- The Literature Quiz - Second	National	-	Quiz	201701023, 201701011	Dhruv Charan and Anish Deshpande
2019-20	Inter University Volleyball (Men) – Silver (1)	National	VolleyBall	-	Not Applicable	DA-IICT
2019-20	Inter University Carrom – Silver (1)	National	Carrom	-	Not Applicable	DA-IICT
2019-20	Inter University Table tennis – Gold (2)	National	Table Tennis	-	Not Applicable	DA-IICT
2019-20	Inter University Badminton (Women) – Silver (1)	National	Badminton	-	Not Applicable	DA-IICT
2019-20	Inter University Badminton (Men) – Gold (1)	National	Badminton	-	Not Applicable	DA-IICT
2019-20	Inter University Athletics (400 m) – Silver (1)	National	Athletics	-	Not Applicable	DA-IICT
2019-20	Inter University Football (Women) – Bronze (1)	National	Football	-	Not Applicable	DA-IICT
2019-20	Inter University Lawn Tennis (Women) – Gold (1)	National	Lawntennis	-	Not Applicable	DA-IICT
2019-20	Inter University Football (Men) – Silver (1)	National	Football	-	Not Applicable	DA-IICT
2019-20	Inter University Basketball (Women) - Silver (1)	National	BasketBall	-	Not Applicable	DA-IICT

2019-20	Inter University	National	Long Jump	-	Not	DA-IICT
	Long Jump – Bronze				Applicable	
	(1)					
2019-20	Senior open state-	National	Boxing	-	201801244	Siddhi Patel
	level competition					
	Bronze					

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

The student council consists of several clubs and committees led by the Student Body Government (SBG) core. The SBG is responsible for ensuring student representation in institute policies, and for creating a supportive environment for all students. The SBG core, consisting of the convenor, deputy convenor, secretary and treasurer, assisted Dean Students. is bv the They together play key role In maintaining a healthy relationship with the administration and managing the funds provided by the institute for extracurricular activities. The Academic Committee works as an interface between the student community and the administration of the institute (including Dean Academics, Registrar, Institute committees, and the Director) for the development of the academic environment, and enhancement of academic life in DA-IICT. Their primary function is to convey the views, concerns, and problems, related to academics, of the student community to the institute administration (specifically, the various academic related committees of the institute) so as to enhance the quality of academic life and programs, and foster a conducive academic environment in the institute. They also organize activities that will enhance the academic aspects of student life in any and every possible way. Other sections of the Student Body include the Annual Festival Committee, Cafeteria Management Committee, Cultural Committee, Hostel Management Committee, Committee, Sports Committee and Student Placement Cell. These committees look at other crucial aspects of the students' life on campus like sports, cultural activities and cafeteria food. The Student Placement Cell facilitates the placement procedure. The representatives in these committees are elected by the students based on certain criteria defined in the SBG constitution. The election procedure is looked over by the election commission.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

Yes

Institute has registered Alumni Association. Its name is DA-IICT Alumni Association. Its date of registration is: 24 Dec 2017. It has its Bylaws, its own PAN card, it has applied for registration under 80G. The first Executive Committee of this AA is formed by DA-IICT Director's choice. In subsequent years it was constituted based on its Bylaws. DA-IICT has provided an office space and a telephone for the AA to function from the campus.

5.3.2 No. of registered Alumni:	~5587

5.3.3 Alumni contribution during the year (in Rupees):

Nil

5.3.4 Meetings/activities organized by Alumni Association:

Git & GitHub Hands On session (16 January 2020)

GSoC session by DA alumni, Rajat Talesara, (6 February 2020)

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

DA-IICT has adopted decentralization, participative management and empowerment for academic, administrative, finance, research and development activities. The faculty members decide on all matters related to academic activities pertaining to their courses from creating syllabus to evaluation. Feedback is obtained from the students each semester to improve the teaching and learning process.

Recruitment process for faculty is also carried out by a committee. There is a faculty search committee, chaired by the director. The committee meets once in every month to scrutinize the application and shortlist the applications. The short listed candidates are then asked to appear for an interview. The panel of examinations of this interview committee consists of experts from within the institute and outside the institute. The external experts are selected by the director. The experts are from the premiere institutions of the country. As we have this method of faculty recruitment hence we usually do not advertise in the newspaper for the recruitment. This type of rolling advertisement for recruiting faculty is practiced by many premiere institutes in the country. Faculty Selection process consists of a Research presentation (45-50 minutes) followed by Technical Interview (40-50 minutes) for each faculty candidate.

6.1.2 Does the institution have a Management Information System (MIS)? Yes/No/Partial:

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):

Curriculum Development

The curriculums of the teaching programs are reviewed and updated once in 3-5 years with participation of external experts and industry representatives. The B.Tech. (ICT) curriculum, reviewed and restructured by a Committee, was in the second year of implementation during the reporting year. The curriculums of M.Tech. (ICT) and M.Sc. (IT) Programs were also reviewed and restructured taking into consideration industry needs and emerging technologies. It was also planned to review the M. Des. (Communication Design) Program.

Teaching and Learning

We have an online course feedback system through which we take feedback of each course at the end of the semester. This feedback is shared with respective course instructors. The course instructors are supposed to take those points into consideration while delivering next time the same course.

As far as possible we do not give any instructor to teach a core course for more than three consecutive years. It automatically takes care of giving the instructor sufficient time and opportunity to improve his/her course delivery, if at all required.

A faculty is also encouraged to offer at least one elective course which belongs to his/her own research interest area. It takes care of the research growth of the instructor.

Examination and Evaluation :

Framed and impletemted exam rules for differently abled student as per Govt. Guidelines.

In the year 2019-20, due to Covid – 19 pandemic situation, we conducted the end semester exams of Winter 2019-20, using online mode. The exams were conducted on Google Classroom which was online-open book mode. The Exams were conducted successfully (on-time delivery of question paper with fixed time limit to submit the answer books using pen paper scan upload mode).

Research and Development

DA-IICT continues to expand its range of research infrastructure and facilities, such as well-equipped dedicated research laboratories, specialized equipments, campus-wide networking, and high-speed Internet access, and subscription to hundreds of print and online journals. The Institute has been awarded DST-FIST Grant of INR 57 lakhs for Infrastructure Development based on the presentation at DST, New Delhi on 28th September 2019. DA-IICT has also been selected by GUJCOST for the award of the establishment of the Supercomputer. The Institute has also procured a GPU Workstation which is now a centralized facility for the students, researchers and the faculty for conducting high-end in-house advance computing studies and research work. Two Dean's Awards for Excellence in Research for UG/PG students (Certificate and cash prize of Rs. 10,000/- to each) were introduced in January 2020. The Institute newsletter (highlighting research activities among other) was also introduced. On 7-9 February 2020, DCEI organized "Swadheenta", a fruitful combination of two flagship events of DCEI: Hack Infinity 2.0, and "Indradhanush"- Entrepreneurship workshop for Women, with the aim of giving rise to new entrepreneurial ventures.

Library, ICT and Physical Infrastructure / Instrumentation

Yearly budget provision with input from concern users & based on input from concern course instructror for any requirement of equipment/software at laboratory, made it available from exisiting available resource else if required to purchase then through the defined process, procuring the same to have at laboratory before start of semester. Necessary training / orientation of the newly received equipment for concern staff as well as for students during the lab session.

Deployement of the equipment are static as well as ad-hoc at laboratories reference to the requirement duing the semester.

The Information and Communication Technology (ICT) Committee works towards the mission to provide the best computing facilities possible for faculty research and student learning. During the reporting year, the Institute has invested Rs. 1.08 crore for purchasing & upgrading existing ICT infrastructure including hardware software upgrade and acquiring new hardware and software. Major infrastructure development activity undertaken Institute has subscribed campus wide license of 500 users of Grammarly premium edition. Institute has also upgraded Firewall with to support large users with better features and for better performance. Institutes also deployed GSuite for education cloud solutions for Online classes, assignment submission and for online exam. Institute has purchase 45 Qty. of Higher End Desktop Pcs for the use Computer Labs.

Human Resource Management

Introduced a formal faculty promotion policy from January, 2018. The limit to avail cashless medical benefit under the Group Medical Insurance Policy for faculty and staff was revised from Rs.5.00 lakh to Rs.7.00 lakh per year. An agreement was signed with Aashka Hospital, Gandhinagar, a multi-speciality hospital, for the faculty, staff and students to avail medical facilities on priority and discounted rates. The support to administrative staff to participate at conferences/seminars was liberalised and this resulted in Library Staff presenting ___conference/seminar papers in 2019-20.

Industry Interaction / Collaboration

The Institute interacts with more than 100 Companies for placement of students and to draw expert and faculty resources. During the reporting period, the companies the faculty members have interacted for either research or consultancy are (n)Code Solutions, Gandhinagar, for consultancy, research and training, Macak Technologies LLP, Ahmedabad to set up a Research Lab at the Institute and institute Doctoral Fellowships, Gujarat Informatics Limited for supporting start-ups initiated by the Institute, Samyuk Instrumentation Private Limited, Ahmedabad for using technology developed by Prof Biswajit Misra and IBM India for the Institute to collaborate and launch an MTech/MS Program in Data Analytics.

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

Day to day work progress information sharing by creating a WhatsApp group to save time, energy and paper. Campus security report via email mentioning all contractual manpower attendance report, Pool vehicle running kms report, STP operation report, on campus students' info report, security personnel deployment report, visitor's report, lost & found report etc.

Planning and Development

The Institute has placed greater emphasis on use of information technology in its operations and management. The e-campus is the primary e-governance system successfully used for the last fifteen years. The e-campus has the following modules:

Student Admission	Student	Student	Office	Others
	Registration	Evaluation	Administration	
Application Process	Program Structure	List of Courses	Human Resources	Inventory
Applicants' Profile	Registration Process	Grade Submission	General Administration	ICT Inventory
Counselling	Approvals	Grade Modification	Salary	Campus Information
Students Profile	Semester Fees	Calculation of SPI/CPI	IT Resources	Hostel Management
Admission Fee	Reports	Approvals	Reports	Reports
Reports		Reports		

Administration

The procurement of goods and services, maintenance of records of campus maintenance, construction, processing of bills of contractors and suppliers are computerised.

Finance and Accounts

The Institute is using 'Tally ERP 9 'system for maintenance of books of accounts to finalization of accounts. The pay roll and related transactions are handled by using Saral Pay Package system.

Student Admission and Support

We have an online admissions system. All the admission processes are available online starting from receiving applications to counselling and announcement of seats. Dashboard with relevant admission related information is made available to the candidates, which helps them in getting information updates about the status of their

admission without any delay. After admissions the joining and documents verification process is also done online.

Examination:

During the examinations, we have introcuded two new mode of communication system i.e., WhatsApp helpline and G-Chat. This was very much helpful to invigilators, students and the Controller of Examination Team for addressing issues in the real time. The course instructors also were able to contact / post messages online during the examinations for solving doubts raised by the students.

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	Name of the	Amount of
		conference/	professional body	support
		workshop	for which	
		attended for	membership fee is	
		which financial	provided / Dates of	
		support provided	Conference	
05 Aug 2019	V Sunitha	for her Ph D	Jul-19	34641
		student support		
		in conf Mr.		
		Rishikant		
09 Aug 2019	P Majumder	to attned conf,	Aug-19	13283
		regn and travel		
21 Aug 2019	Shweta Garg	to support for	Mar-19	80000
		illustration work		
		to Mdes		
		students		
26 Aug 2019	Suman K Mitra	registration fee	Sep-19	24000
		for 02 paper		
		presentation at		
		MNIT		
28 Aug 2019	Rutu Parekh	To support UG	Jul-19	7331
		student for		
		attend conf		
28 Aug 2019	Anjan Ghosh	regn fee and	Aug-19	171192
		tour expense for		
		SPIE conf at San		
		Diego		
28 Aug 2019	Suman K Mitra	regn fee for	Aug-19	14000
		PReMI 2019		
		conference		
16 Sept 2019	P Majumder	Tour travel and	Sep-19	11200
		regn fee expense		
16 Sept 2019	Aditya Tatu	To support Ph D	Sep-19	25000
		student Mr.		
		Sumukh for		
		visa/regn		

18 Sept 2019	Anil Roy	Publication charge for IEEE	Sep-19	123311
		TGRS		
18 Sept 2019	Bhaskar Chaudhury	Air tickets to	Sep-19	99791
		attend abroad		
		conference		
20 Sept 2019	Manish Khare	Confer regn and	Sep-19	71983
		travel exp ICIAP		
		19 at Italy		
26 Sept 2019	Rutu Parekh	To support	Sep-19	5000
		present paper to		
		Mtech students		
11 Oct 2019	Hemant Patil	to attend conf.	Sep-19	100000
		SSW-2019 at		
		Vienna		
14 Oct 2019	Suman K Mitra	travel exp for	Sep-19	4000
		paper		
		presentation at		
		MNIT		
29 Nov 2019	Bhaskar Chaudhury	Regn and travel	28.101.11.19	86937
	,	expenses for		
		72nd AGE Conf		
		at Texas		
29 Nov 2019	Bhaskar Chaudhury	Regn and travel	28.101.11.19	1610
	That is a second of the second	expenses for		
		72nd AGE Conf		
		at Texas		
2 Dec 2019	Suman Mitra	regn charges for	27-29.2.2020	8000
		4th Int Conf on		
		com In CINE		
		2020		
3 Dec 2019	Sanjeev Gupta	regn for 2nd	19-22.12.2019	14661
	our our our	Indian Conf on		
		Anteena InCAP		
		2019		
4 Dec 2019	Deepak Ghodgaonkar	regn for 2nd	19-22.12.19	14661
. 500 2015	Deepar Gried Buoring	Indian Conf on	15 22.12.15	1.001
		Anteena InCAP		
		2019		
18 Dec 2019	Maniklal Das	IEEE	16.12.19	8033
10 000 2019	ividilikidi Das	membership	10.12.13	0033
		renwal		
18 Dec 2019	Sanjeev Gupta	Conference Regn	16.12.19	9176
7 Jan 2020	Arnab Kumar Ray	conference regn	18.12-27.12.19	6408
, Juli 2020	Alliab Kalliai Kay	physical sc. IACS	10.12 27.12.13	0400
		Kolkatta		
10 Jan 2020	Suman K Mitra	regn charges for	Jan-20	36000
10 Jail 2020	Suman K Willia	accepted paper	Jaii-20	30000
		in ICPRAM 2020		
		III ICPKAIVI 2020		

10 Jan 2020	Supantha Pandit	China visa fee on settlement from DST Proj	Jan-20	11806
17 Jan 2020	Manish K Gupta	for IEEE membership renewal	Jan-20	10408
20 Jan 2020	Yash Agarwal	regn and travel exp.to attend workshop- IIT Roorki	9-13.1.2020	10831
27 Jan 2020	Maniklal Das	To support Ph D student Ms Nidhi for conf regn	Jan-20	21853
27 Jan 2020	Maniklal Das	to support Stu kirtan Patel for conf regn and travel	Jan-20	13600
27 Jan 2020	Saurabh Tiwari	Regn fee for ACM-SAC 2020 conference	Jan-20	42906
4 Feb 2020	Biswajit Mishra	travel support to his Ph D student Neha(COMSNETS 2020)	7 - 11.1.20	10978
4 Feb 2020	Manish K Gupta	for IEEE membership renewal	Jan-20	10408
18 Feb 2020	MV Joshi	for extra pages charges for pub. In IEEE journal	Jan-20	58694
06 Mar 2020	Pankaj Kumar	for registration fee presentation of paper AMLTA 2020	13-15 February 2020	6500
06 Mar 2020	Supantha Pandit	Travel exp inc for pre. paper at COCOA 2019 & WALCOM 20	Dec-19	55573
06 Mar 2020	Supantha Pandit	for regn fee WALCOM 2020	Dec-19	32845
12 Mar 2020	R Ghosh	financial support to btech student Karan for conf. regn	Feb-20	4500
16 Mar 2020	Yash Agarwal	Regn fee (to support his Mtech student)	Mar-20	5000

16 Mar 202	.0 Yash Aga	rwal	Regn fee (to	Mai	r-20	5000
			support his			
			Mtech student)			
17 Mar 202	0 Tapas Kum	ar Maiti	travel exp. To	4-6 Ma	arch 20	19294
			present paper at			
			ISDCS 2020 in			
			IIEST Shibpur			
17 Mar 202	0 Tapas Kum	ar Maiti	conference regn	4-6 Ma	arch 20	14166
			fee		5 25	
19 Jun 2020	0 Vinay Pala	narthy	for presentation	14 16	5.2.20	19957
15 3411 202	Villay Fala	partity	of his project	14.10	,.2.20	13337
			work at Delhi			
19 Jun 2020	O Kalyan Sask	vidahr D				39980
19 Juli 2020	0 Kalyan Sash	iluani P	Airfare, visa,			39980
			membership			
221 222			IEEE			400=
30 Jun 2020	0 Rutu Pa	rekh	IEEE Regt fee for	Jul-	-20	4887
			IEEE CONECCT			
			2020 orgd at			
			B'lore sec			
13 Jul 2020	0 Amit Ma	nkodi	IEEE Regn fee for	Jul-	-20	38177
			presentation of			
			papers - 04			
15 Jul 2020	Rutu Pa	rekh	To support 02	38.3.20	/29.4.20	14500
			student for regn			
			fee to present			
			papers			
15 Jul 2020	Rutu Pa	rekh	for regn fee of	Jun	-20	15910
			03 conf (MCCS			
			2020,IEEE			
			CONECCT)			
27 Jul 2020	Yash Vasa	avada	overlegnth	Iul.	-20	100994
27 301 2020	, rasii vasi	avada	charges for	341	20	100551
			presentation of			
			paper IEEE Sig			
			Pro Pro			
27 1 2020) Rutu Pa	rokh		11	20	7000
27 Jul 2020	Kutu Pa	IEKII	Regn Fee for	Jul-	-20	7000
			Conference			
20 : 1225		<u>.</u>	5NANO2020		20	F0-0-
29 Jul 2020	Saurabh ⁻	Tiwari	Regn fee for	Jul-	-20	53560
			28th IEEE			
						1599545
6.3.2 Nu	mber of professional do University fo		ministrative trainir on teaching staff c			zed by the
Year	Title of the	Title of the	Dates (from-		No. of	No. of
	professional	administrative		-	participants	participants
	development	training			(Teaching	(Non-
	programme organised	programme			staff)	teaching
	for teaching staff	organised for			Jean /	staff)
	Tor teaching stail	organiseu iui				J. Stall)

			non-teaching				
			staff				
Nil	Nil		Nil		Nil	Nil	Nil
	<u> </u>						
		• .		•	nent programmes, viz.,		rogramme,
			· · · · · · · · · · · · · · · · · · ·		oment Programmes dur	· · · · · · · · · · · · · · · · · · ·	
Title of the	e professional d	evelopme	nt programme		mber of teachers who		d Duration
				att	ended	(fro	m – to)
Comprehen	sive Online Cer	tificate Co	urse on IPR	ВА	KUL GOHEL		
Artificial Int	elligence: Devic	es to Circu	uits under the	Yas	sh Agrawal		
aegis of Elec	ctronics and ICT	- Academy	, IIT Roorkee as				
•	elopment Progr	ram at IIT I	Roorkee from				
	13th Jan 2020.						
6.3.4 Facu	ılty and Staff r	ecruitme	nt (no. for perm	ane	nt/fulltime recruitment	:):	
		aching				-teaching	
	nanent		Contract		Permanent		ontract
(07		01		03	04 Library	
							Officer and 01
						Library Lib	rary Assistant
C 2 E Walfa							
Teaching	are schemes fo		odical consultation	n 2	nd medicine from campu	us modical son	tro: discounto
reactiling					•		
		hospitalization and medical support from a multi-specialty hospital in Gandhinagar; group medical insurance with annual coverage of Rs.7.00 lakh; accident insurance					
		coverage; subsidized canteen; interest free loan and leave encashment on					
		-	tion/retirement.		•		
Non teachin	ng			on a	nd medicine from campu	ıs medical cen	tre; discounted
		hospita	lization and med	ical s	support from a multi-spec	cialty hospital	in Gandhinagar
		group medical insurance with annual coverage of Rs.5.00 lakh; accident insurance					
		coverage; subsidized canteen; interest free loan and leave encashment on					
			tion/retirement.				
Students					secure financial support		
					rom campus medical cen		
			•) lakh; accident insuranc	•	
			•		nd medical support from	i a multi-spec	iaity hospital ir
		Gandni	nagar and subsidi	zea	canteen.		
<u> </u>		<u> </u>					
6.4 Financi	ai Manageme	nt and Re	esource Mobiliz	atio		h: 100	

6.4.1 Institution conducts internal and external financial audits regularly (within 100 words)

The Finance Committee, constituted under the provisions of clause 16 of the Dhirubhai Ambani Institute of Information and Communication Technology Act, 2003 at its meeting held on 21st March, 2017 appointed separate auditors for internal audit and statutory audit for the year 2017-18. The Internal Auditors were M/s J.T. Shah & Company, Chartered Accountants, Ahmedabad, and their scope of work included conducting the quarterly internal audit of accounts and assets, rendering advice on improving the existing administrative and financial systems and procedures and carrying out the system audit. They also handled tax assessments and filing of tax returns.

M/s Pathak H.D. Associates, Chartered Accountants, Mumbai were the Statutory Auditors and they carried out the statutory audit of the accounts for the year 2019-20.

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	Funds/ Grants received in Rs.	Purpose
funding agencies/ individuals		
SPRINKLR INDIA PVT LTD	2500000	FINANCIAL SUPPORT TO STUDENTS

6.4.2 Total corpus fund generated

NIL

6.5 Internal Quality Assurance System

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

Audit Type	Ex	External		Internal		
	Yes/No	Agency	Yes/No	Authority		
Academic	Yes					
Administrative	Yes	M/s JT Shah & Company, Chartered				
		Accountants, Ahmedabad				

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

Nil

6.5.3 Development programmes for support staff (at least three)

- 1) Hotel Landmark for Hotel Supervisor at Ahmedabad 15/11/19 to 17/11/19
- 2) Office Administration, Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad
- 3) Changing Landscape of Science & Technology Libraries (CLSTL 2019) at IIT Gandhinagar (India) during 28th February to 02nd March 2019
- 4) Western Regional Training Programme for PDS (URKUND) University Administrators (West) at MGM University of Health Sciences, Navi Mumbai on 29th August'19

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

DA-IICT participated in the NIRF and GSIRF rankings. In India NIRF rankings 2020 DA-IICT was ranked 111.

2. A constant improvement in research publications number seen in various citation databases such as Scopus, Web of Science, Microsoft Academic, Google Scholar etc., indexed research publications and its citations of DA-IICT has steadily increased as seen below:

PUBLICATION DETAILS (For last 3 calendar years, i.e. 2018,2019, 2020)			
Source of Data	Publications	Citations	
Web of Science	284	783	
Scopus	375	1311	

3. New M.Sc Program introduced.

6.5.5

a. Submission of Data for AISHE portal : Yes

b. Participation in NIRF : Yes Rank 91

c. ISO Certification : No d. NBA or any other quality audit : No

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality	Date of	Duration	Number of
	initiative by	conducting	(fromto	participants
	IQAC	activity)	
Nothing to report as of now.				

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Title of the programme	Period (from-to)	Participants	
		Female	Male
For gender equity, a gender sensitization	2019-20	Btech 1st Year (2019	Btech 1st
play was organized by the Gender Cell in		Batch)	Year (2019
collaboration with the drama club - DTG			Batch)
during the orientation for the 2019 UG and			
PG batches. Apart from the play, interactive			
sessions were organized in the group to			
discuss various aspects of society and how			
they affect various genders. This also			
included analysing the way the movies,			
music and forms of popular culture affect			
the pre-existing notions about gender and			
thus play an essential role in defining the			
way the society functions. Most of these			
discussions were led by the student			
representatives of the Gender Cell at DA-			
IICT and by Prof Shweta Garg.			

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

Environment

DA-IICT is spread over 50 acres of land in Gandhinagar, Capital City of Gujarat. The DA-IICT campus is caringly planned and designed as an environmentally conscious campus in the country. The architecture of DA-IICT is

functional, but what surrounds it is a fascinating garden. The entire design is oriented towards preserving the environment. The campus with trees, lawns and bushes bearing green leaves and exotic flowers surrounding the buildings and pathways instills environment consciousness among students and enrich their learning. The campus is a haven for bird-watchers, with a variety of species of birds being spotted. The campus has the following:

Herb Garden:

The campus also has a herb garden with species of rare medicinal plants.

Nursery:

A plant nursery is maintained to replace the plants as and when required.

Solid Waste Management:

• Food Waste:

Wet and Dry Waste are collected by the Gandhinagar Municipal Corporation on daily basis. Surplus food is donated by FBOs to the needy persons to feed cattle.

Skin of fruit and vegetables is used for Wormy Compost.

Horticulture Waste:

Dry leaves, cut lawns, hedge, flowers etc.. are being processed as Organic Waste Compost and Wormy Compost.

The fertilizer generated from above sources is being used for horticulture within the campus.

Water Treatment Plants:

Drinking Water Treatment Plant (Capacity: 6,000 LPH)

Residual water after treatment is used for washing purposes.

- The generated water is being used for drinking and cooking purposes.
- Sewage Treatment Plant (Capacity : 3,50,000 Ltr per day)

Sewage Treated Water is being used in garden for irrigation purposes.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Ramp Facility	Yes	
Washroom Facility	Yes	
Medical Facility	Yes	

7.1.4 Inclusion and Situatedness

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

	-					
Year	Number of	Number of	Date and	Name of the	Issues	Number
	initiatives to	initiatives	duration of	initiative	addressed	of
	address	taken to	the initiative			participat
	locational	engage with				ing
	advantages	and contribute				students
	and	to local				and staff
	disadvantages	community				

- 1. Blood donation camps at least twice a year.
- 2. Old and warm clothes collection and distribution for the daily wages persons working for the campus Once in a year.
 - 3. Lunch for the daily wages person working for the campus twice a year (Before Holi and Diwali)

7.1.5 Human Values and Professional Ethics				
Code of conduct (handbooks) for various stakeholders				
Title	Date of Publication	Follow up (maximum 100 words		
		each)		
Faculty Handbook	Under Preparation			

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (fromto)	Number of participants
Youth Run: Saahi Poshan Desh Roshan	29 September 2019	~1500
Street Plays with a motive	Throughout the year	~20 in each play

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

- 1 Vermi Compost (VC) Plant
- 2 Organic Waste Compost (OWC) Plant
- 3 Sewage Treatment (ST) Plant
- 4 E-Loader vehicles
- 5 Maximum reduction of plastic use in campus

7.2 Best Practices

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

- 1. Co-curricular activities and creative art forms are encouraged in tandem with the academic requirements. Students are facilitated by the institute to excel into sports, drama, debate, music, and other forms of hobbies.
- 2. Women empowerment and gender equality are embedded culturally in our institutional legacy.

7.3 Institutional Distinctiveness

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

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

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

Enhancing the faculty strength to achieve healthy Faculty: Student ratio and adding foreign nationals as adjunct faculty.

Set up Theme based Research Centers at such institutes based on the institutes Faculty strength and infrastructure.

Encourage more collaborative Mega Research projects among these institutes;

To attract talents, foster creativity, motivate youth in cutting edge research

Transforming knowledge into practice through actionable resolutions for impacting lives of people and societies and creation of socially applicable knowledge through inter-disciplinary research in collaboration with universities, civil societies, industry and government organisations.

Name Dr. Anil K. Roy

Name Prof. K.S. Dasgupta

Signature of the Coordinator, IQAC

K.S. Das Gupe

Signature of the Chairperson, IQAC

Dr. K S Dasgupta
Director
DA-IICT, Gandhinagar.

Annexure I

Abbreviations:

CAS - Career Advancement Scheme

CAT - Common Admission Test

CBCS - Choice Based Credit System

CE - Centre for Excellence

COP - Career Oriented Programme

CPE - College with Potential for Excellence

DPE - Department with Potential for Excellence

GATE - Graduate Aptitude Test

NET - National Eligibility Test

PEI - Physical Education Institution

SAP - Special Assistance Programme

SF - Self Financing

SLET - State Level Eligibility Test

TEI - Teacher Education Institution

UPE - University with Potential Excellence

For Communication with NAAC

The Director

National Assessment and Accreditation Council (NAAC)

(An Autonomous Institution of the University Grants Commission)

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Guidelines of IQAC and submission of AQAR for Universities