Guidelines for the Creation of the

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

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, July 1, 2017 to June 30, 2018)*

Part – A

Data of the Institution

(data may be captured from IIQA)

1. Name of the Institution: Dhirubhai Ambani Institue of Information and Communication Technology, Gandhinagar

- Name of the Head of the institution: Prof. K. S. Dasgupta

- Designation: Director

- Does the institution function from own campus: Yes

- Phone no./Alternate phone no.:   079-68261572

- Mobile no.:   9327043614

- Registered Email: director@daiict.ac.in

- Alternate Email: registrar@daiict.ac.in

- Address: Near Indroda Circle, Gandhinagar, Gujarat

- City/Town: Gandhinagar

- State/UT: Gujarat

- Pin Code: 382007

2. Institutional status:

- University: State/Central/Deemed/ √Private: State University
  (Tick appropriative)
- Type of Institution: √ Co-education/Men/Women: Co-education

- Location : Rural/Semi-urban/√Urban: Urban

- Financial Status: Centrally funded/state funded/√Private: Private
  (please specify)

- Name of the IQAC Co-ordinator/Director: Dr. Anil K. Roy

- Phone no. /Alternate phone no. :   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: https://www.daiict.ac.in/institute/iqac/
   Web-link of the AQAR: (Previous Academic Year): This is the first IQAR, so no weblink of
   the previous report can be provided.

4. Whether Academic Calendar prepared during the year? Yes

Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

Weblink: https://www.daiict.ac.in/academics/academic-calendar/

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	A	3.11	2017	from: 27/11/2017 to: 26/11/2022
2nd				from: to:
3rd				from: to:
4th				from: to:
5th				from: to:

6. Date of Establishment of IQAC: DD/MM/YYYY: 29/04/2015

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
a) Regular meeting of IQAC	15/07/2015 14/09/2016 06/03/2017 20/03/2018	9 members present 10 members present 9 members present 11 members present
b) Submission of AQAR		
c) Feedback from graduating B.Tech	2011-2018 (each year	208 respondent in 2011

2014 batch collected and analysed and circulated among all faculty and functions heads	in May), analysis is done of 2011, 2014, 2015 & 2018 years data	206 respondent in 2014 203 respondent in 2015 258 respondent in 2018
d) Participation in NIRF	NIRF 2017	RANK - 70

> *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/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Government of Gujarat	Mentorship of Indian Institute of Information Technology Vadodara	Government of India	2014 (2014-2018)	Rs. 20 Lakh per year
Government of Gujarat	Anchor/Nodal Institute	Government of India	2018 (2018-2023)	Rs. 10 Crore (total grant)

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: **Yes**

      *upload latest notification of formation of IQAC

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: https://www.daiict.ac.in/institute/iqac/
Yes/No: **Yes**
   (Please upload, minutes of meetings and action taken report)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?   Yes/No: **No**

If yes, mention the amount: **Not applicable**

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

* Sensitization towards collecting inputs for improvement from the feedback
* 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.

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

14. Whether the AQAR was placed before statutory body?   Yes /No: **No**

Name of the statutory body: Date of meeting(s):

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?

Yes/No: Yes   Date: 14/09/2017

16. Whether institutional data submitted to AISHE: Yes/No: Yes

Year: 2017-18   Date of Submission: 08/03/2018

17. Does the Institution have Management Information System?

Yes/No   **Yes**

If yes, give a brief description and a list of modules currently operational.
(Maximum 500 words)

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 forms, 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 hotel 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 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			
Programme with Code	**Date of Introduction**	**Course with Code**	**Date of Introduction**
NIL		Cloud Computing IT627 (MSc IT Optional)	Autumn Sem 2017-18
		1. CAD of VLSI EL454 2. Approximation Algorithms (SC515) 3. Specification and Verification of Computing Systems (IT560) 4. Recommendation Engine and Applications (IT562)	Winter Sem 2017-18
1.2 Academic Flexibility			
1.2.1 New programmes/courses introduced during the Academic year			
Programme/Course			Date of introduction
No New Programme introduced			
New Course introduced in the 2017-18 Academic Year SC466 The Physics of Economics (UG Elective) 3-0-0-3 SC467 Mathematical Modeling and Simulation (UG Elective) 3-0-0-3 SC524 Parallel Distributed Dynamic Algorithms (MTech Regular) 3-0-0-3 IT627 Cloud Computing (MSc IT Optional) 3-0-0-3			Autumn Semester 2017-18 Academic Year
EL454 CAD of VLSI (UG Elective) 2-0-2-3 HM486 Development Trajectories (UG Elective) 3-0-0-3 SC465 Analysis of Multidisciplinary Problems (UG Elective) 3-0-0-3 SC468 Differential Equations and Applications (UG Elective) 3-0-0-3 SC515 Approximation Algorithms (MTech Elective) 3-0-0-3 IT560 Specification and Verification of Computing Systems (MTech Elective) 3-0-0-3 IT562 Recommendation Engine and Applications (MTech Elective) 3-0-0-3 IT561 Advanced Software Engineering (MTech Elective) 3-0-0-3			Winter Semester 2017-18 Academic Year
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**
Already 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		
Value added courses	Date of introduction	Number of students enrolled
Development Trajectories (HM486)	Winter Sem 2017-18	91

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
1. BTech – Rural Internship (PC232)	297 (AY 2017-18, Winter Semester)
2. BTech – Summer Research Internship (PC334)	195 (AY 2017-18, May-July 2018)
3. BTech – Industrial Internship (PC333)	97 (AY 2017-18, May-July 2018)
4. BTech Project (minor in CS) (PC424)	55 (AY 2017-18, Jan-April 2018)
5. BTech Project (ICT) (PC422)	222 (AY 2017-18, Jan-April 2018)
6. MSc (IT) – Summer Internship (PC649)	113 (AY 2017-18, Summer Semester)
7. MSc (IT) Project (PC614)	110 (AY 2017-18, Final Semester Internship (Dec 2017-May 2018)
8. MDes (CD) Project (PC714)	12 (AY 2017-18, Final Semester Internship (Dec 2017-May 2018)
9. MSc ICTARD Project (PC862)	3 (AY 2017-18, Jan-April 2018)

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/ No YES	Yes/ No NO	Yes/ No NO	Yes/ No NO	Yes/ No NO

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

Student Feedback is an exit feedback of B.Tech students at the time of their BTP defence in May month. It is a single page form of 18 questions pertaining to all aspects of campus life including academics, curriculum related, extra-curricular, sports, library, administration, hostel and overall impression on a scale of 1 to 5. The mean is then computed for each of them and shared among all activity owners for their information and subsequent introspection.

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 seats available	Number of applications received	Students Enrolled
1. BTech (ICT)	288	2901	263
2. B.Tech (honours in ICT with minor in CS)	72		71
3. MTech (ICT)	80	264	86
4. MSc (IT)	120	504	120

5. MDes (CD)	20	22	6
6. PhD	10-20	94	6

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
2017-18	1209	381	-	-	53

2.3 Teaching - Learning Process

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

Number of teachers on roll	Number of teachers using ICT *(LMS, e-Resources)*	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
53	53	Open source OS, open source softwares, license OS, license software , Projector , testing and measurement instruments, electronics kits/boards, electronics components	14 Class rooms 2 Workshops (1) 17 nos. of teaching labs. (2) 09 nos. of non-teaching labs	1 Smart city lab 1 IR Lab 1 Speech Lab	

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

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1590	53	1:30

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
NA	53	NA	2	51

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
16 January 2018	Dr. Saurabh Tiwari	Assistant Professor	Early Career Research Award, from SERB (DST), Govt. of India
9 January 2018	Prof. Hemant Patil	Professor	APSIPA Distinguished Lecturer for Term 2018-2019, from APSIPA (Asia-Pacific Signal and Information Processing Association) IRE Board
30 October 2017	Dr. Anil Roy	Associate Professor	IEEE Sensors Council 2017 Meritorious Service Award, from the IEEE Sensors Council

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
1. BTech (ICT)	01	2017-18	Autumn: 04-12-2017 Winter: 02-05-2018	Autumn:14-12-2017 Winter: 10-05-2018
2. BTech (honours in ICT with minor in CS)	01	2017-18	Autumn: 04-12-2017 Winter: 02-05-2018	Autumn:14-12-2017 Winter: 10-05-2018
3. MTech (ICT)	11	2017-18	Autumn: 04-12-2017 Winter: 02-05-2018	Autumn:14-12-2017 Winter: 10-05-2018
4. MSc (IT)	12	2017-18	Autumn: 04-12-2017 Winter: 02-05-2018	Autumn:14-12-2017 Winter: 10-05-2018
5. MDes (CD)	14	2017-18	Autumn: 04-12-2017 Winter: 02-05-2018	Autumn:14-12-2017 Winter: 10-05-2018
6. PhD	21	2017-18	Autumn: 04-12-2017 Winter: 02-05-2018	Autumn:14-12-2017 Winter: 10-05-2018

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 grievances about evaluation	Total number of students appeared in the examination	Percentage
None		

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. BTech (ICT)
2. B.Tech. (Honours) in ICT with minor in Computational Science
3. M.Tech. (ICT)
4. M.Sc. (IT)
5. M.Des. (Communication Design)
6. Ph.D.

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
01	BTech (ICT)	227	218	96.03
01	BTech (honours in ICT with minor in CS)	55	55	100
11	MTech (ICT)	59	55	93.22
12	MSc (IT)	111	111	100
14	MDes (CD)	12	12	100
21	PhD	11	11	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)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

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

	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	Prof. Saurabh	Early Career Research	16 January 2018	SERB (DST),

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	Tiwari	Award		Govt. of India
International	Prof. Hemant Patil	APSIPA Distinguished Lecturer for Term 2018-2019	9 January 2018	APSIPA (Asia-Pacific Signal and Information Processing Association) IRE Board

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
Junior Research Fellowship (JRF) – 11 Nos	1-3 years	ISRO, DoS, DAE-BRNS, DST-SERB, MHRD-IMPRINT
Project Personnel – 2 Nos.	1-3 years	DeITY

Sr.No.	Id Number	Name of Fellow	Designation	Project Incharge / Co-PI	Duration	Funding Agency	Relieving Date	Remarks
1	201200109	HARDIK SAILOR	Project personnel	Prof. Hemant Patil	16/05/2012	Deity	31/05/2018	
2	201500101	PANKAJ CHAUDHARY	Junior Research Fellow	Prof. Deepak Ghodgaonkar & Prof. Sanjeev Gupta	01/06/2017	DOS	30/11/2017	
3	201600103	MIRAL SHAH	Junior Research Fellow	Prof. Bhaskar Chaudhury	22/03/2016& 01/10/2018	DAEBRNS		upto 31/03/2018
4	201600111	MEETKUMAR SONI	Project personnel	Prof. Hemant Patil	15/11/2016	Deity	31/12/2017	
5	201700101	ANKUR POKHARA	Junior Research Fellow	Prof. Biswajit Mishra	13/02/2017	DOS	30/06/2018	
6	201700106	DEEPTI AMETA	Junior Research Fellow	Prof. Saurabh Tiwari	03/07/2017	SERB		upto 28/02/2019
7	201700107	RAHUL VASHISTH	Junior Research Fellow	Prof. Deepak Ghodgaonkar &	01/08/2017	DMASRS		upto 31/07/2018

				Prof. Sanjeev Gupta				
8	201700108	VIRAL DAVE	Junior Research Fellow	Prof. Ranendu Ghosh	05/09/2017	ISRO		upto 04/09/2020
9	201800101	GAURAV ARORA	Junior Research Fellow	Prof. Prasenjit Majumder	02/01/2018	MHRD	05/06/2018	
10	201800102	SWATI PRIYA	Junior Research Fellow	Prof. Ranendu Ghosh	01/02/2018	DOS-ISRO		upto 31/01/2021
11	201800103	MEGHA PANDYA	Junior Research Fellow	Prof. Ranendu Ghosh	02/04/2018	DOS-ISRO		upto 31/03/2021
12	201800116	SURUPENDU GANGOPADHYAY	Junior Research Fellow	Prof. Prasenjit Majumder	01/06/2018	MHRD		upto 31/07/2019
13	201800117	NUPUR JAIN	Junior Research Fellow	Prof. Biswajit Mishra	01/08/2018	DOS		upto 31/01/2019

3.2 Resource Mobilization for Research				
3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects	1-3 years	SAC-ISRO, DST-SERB, ICSSR	Rs. 134.0 lakhs	Rs. 33,80,940 (of current year's projects) Rs. 15,64,896 of all previous projects
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University	1 year	DA-IICT (Seed Grant)	Rs. 1.28 lakhs	Rs. 1.28 lakhs
Students Research Projects *(other than compulsory by the University)*				
International Projects	3 years	DST (Indo-French)	Rs. 17.67 lakhs	Rs. 4,41,726
Any other(Specify)				
Total			Rs.152.95 lakhs	

Year	Sr. No.	Project Code	Title	PI/ CO-PI	Agency	Total Sanctioned Amount (in INR)
2017- 2018	1	SP-17/DoS/BSM/TDCSA	Development of Ultra Low Power And Low Voltage Time to Digital Converter (TDC) for Space Applications	Prof. Biswajit Mishra & Prof. Mazad Zaveri	SAC-ISRO	15,52,500
	2	17/ISRO/RAG/AVIRIS	Detection of heavy metal pollution in vegetation and characterization of soil clay minerals using AVIRIS-NG Data	Prof. Ranendu Ghosh & Prof. P.S. Kalyan Sasidhar	SAC-ISRO	21,00,000
	3	17/SERB/SAT/TAFUC	"UCMA: A Toolset to Automatically Analyze Functional Requirements Specified in the Use Cases	Prof. Saurabh Tiwari	SERB	9,65,690
	4	17/DMASRS/DKG/ISRO	RESPOND Project - "Development of microwave absorber (Carbonyl Iron filled Silicon Rubber Sheets) in 1 to 8 GHz range"	Prof Deepak Ghodgaonkar & Prof Sanjeev Gupta	SAC-ISRO	22,17,000
	5	17/ISRO/RAG/DLDMVA	Desertification and Land Degradation: Monitoring, Vulnerability Assessment and Combating Plans"	Prof Ranendu Ghosh	SAC-ISRO	42,00,000
	6	17/MHRD/PM/IMPRINT	Imprint 'A platform for Crosslingual and Multilingual Event Monitoring in Indian Languages	Prof Prasenjit Majumder	IIT Kharagpur	5,90,970
	7	18/ICSSR/ADP/MSMASP	Using Mobile Sensing Mechanism to access Smart Phone Addiction and Its Negative Impact on students	Prof Alka Parikh & Prof Kalyan Sasidhar	ICSSR	15,00,000

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
Best University in Innovation in Gujarat	DA-IICT	Government of Gujarat	5 Oct 2017	University
Plant disease detection using Deep Learning Method	Vaibhav Patel and Maharishi Vyas - First prize in Technological Innovation Category	Summer Innovation Challenge 2017 by Government of Gujarat	September 2017	Student - Technological Innovation Category

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

Incubation Centre	Name	Sponsored by
Nodal Institute for Start-ups	Nodal Institute for Start-ups	Industries Commissionerate (Govt. of Gujarat)
Student Start-up Innovation Policy	Student Start-up Innovation Policy	Department of Higher Education (Govt. of Gujarat) Started on 2 July 2010 Total fund received Rs. 102.5 lacs

Name of the Start-up	Nature of Start-up	Date of commencement
Yoctosehns Technologies Private Limited (Prof. Biswajit Mishra)	Does a through monitoring of cattle at a low cost. It helps in estrus detection with a simple user interface.	28 Nov 2017
Prof. Rutu Parekh	Generic approached based accident detection and notification system for motor vehicles	21 Feb 2018 SSIP – 1,19,000/-
Prof. Rutu Parekh	OBD based emission test and driving behavior detection system	21 Feb 2018 SSIP – 78,749/-
Prof. Kalyan Sasidhar	Design and development of an IoT enabled smart refrigerator	21 Feb 2018 SSIP – 60,691/-
Prof. Ranendu Ghosh	Crop disease identification and advisory	21 Feb 2018 SSIP – 2,00,000/-

3.4 Research Publications and Awards

Books:

1. **Alka Parikh**, "*Risks in Agriculture : Farmers' Perspective*," Singapore: Springer, 10 Dec. 2017. doi:10.1007/978-981-10-6271-1
2. **Alka Parikh**, Sumit Singh, and Krati Agrawal, "*India's Growth Story: Sector-wise*," Germany: Lambart Academic Publishing, 14 Jul. 2017. isbn: 978-3659609602
3. **Shweta Rao Garg**, Deepti Gupta (Eds.), "*The English Paradigm in India : Essays in Language, Literature and Culture*," Palgrave Macmillan, Singapore, 02 Oct. 2017. doi:10.1007/978-981-10-5332-0
4. **Prasenjit Majumder**, Mandar Mitra, Parth Mehta and Jainisha Sankhavara, Eds., "*Text Processing: FIRE 2016 International Workshop, Kolkata, India, 7-10 Dec. 2016, Revised Selected Papers*" Cham, Switzerland: Springer

International Publishing, 2018. DOI:10.1007/978-3-319-73606-8 (Edited Book)

Chapters in Books:

1. **Shweta Rao Garg**, "**Food Images and Identity in the Selected Writings of Three Indian American Women Writers**," In "*The English Paradigm in India*,"Rao Garg S., Gupta D., Eds, Palgrave Macmillan, Singapore, 2017. doi:10.1007/978-981-10-5332-0_15

2. Naveen Kumar, and **Anish Mathuria**, "**Security and Privacy Issues in Outsourced Personal Health Record**" in *Research advances in Cloud Computing*," Sanjay Chaudhary, Gaurav Somani, Rajkumar Buyya, Eds., Singapore: Springer, Dec. 2017, pp. 431-447. doi: 10.1007/978-981-10-5026-8_17.

3. Shrishail S. Gajbhar, and **Manjunath V. Joshi**, "**Image Denoising using Tight-Frame Dual-Tree Complex Wavelet Transform**," in *Machine Intelligence and Signal Processing*, M. Tanveer, and Ram Bilas Pachori, Eds., Singapore: Springer, 8 Aug. 2018, pp. 645-656. doi: 10.1007/978-981-13-0923-6_55

4. **Vishvajit Pandya** and **Madhumita Mazumdar**, "**'Dr. Kar I Presume!': 'Medical' Narratives from the Jarawa Tribal Reserve 126**," in *Locating the Medical: Explorations in South Asian History*, Rohan Deb Roy and Guy N.A. Attewell, Eds., India: Oxford University Press, 4 Jan., 2018, pp 126-151. Isbn: 978-0199480197

5. **Binita Desai** and Nina Sabnani, "**Pluralistic View of Indian Images: 2nd BCE to the 1990s**," in *History of Illustration*, Susan Doyle, Jaleen Grove, Whitney Sherman, Eds., U.K: Fairchild Books, 22 Feb. 2018. Isbn: 9781501342110

6. Prathmesh R. Madhu, and **Manjunath V. Joshi**, "**Digital Heritage Reconstruction Using Deep Learning-Based Super-Resolution**," in *"Heritage Preservation: A Computational Approach*, Bhabatosh Chanda, Subhasis Chaudhuri, and Santanu Chaudhury, Eds. , Singapore: Springer: 16 Jun. 2018. doi: 10.1007/978-981-10-7221-5_4.

7. Soumya Gargave, **Yash Agrawal**, and **Rutu Parekh**, "**Single-Precision Floating Point Matrix Multiplier Using Low-Power Arithmetic Circuits**,"in *Advances in Power Systems and Energy Management*, Garg A., Bhoi A., Sanjeevikumar P., Kamani K., Eds., Singapore: Springer, 2018, pp.683-691. doi:10.1007/978-981-10-4394-9_67

8. **Yash Agrawal**, **Rutu Parekh**, and Rajeevan Chandel, "**Performance Analysis of Current-Mode Interconnect System in Presence of Process, Voltage, and Temperature Variations**," in *Advances in Power Systems and Energy Management*, Garg A., Bhoi A., Sanjeevikumar P., Kamani K., Eds., Singapore: Springer, 2018, pp. 543-551. doi: 10.1007/978-981-10-4394-9_53

Journal Papers (International):

1. Yves Beghein, **Rajendra Mitharwal**, Kristof Cools, and Francesco P. Andriulli, "**On a Low-Frequency and Refinement Stable PMCHWT Integral Equation Leveraging the Quasi-Helmholtz Projectors**," *IEEE Transactions on Antennas and Propagation*, vol. 65, no. 10, pp. 5365-5375, Oct. 2017. doi: 10.1109/TAP.2017.2738061

2. Kamal Captain, and **Manjunath Joshi**, "**Performance Improvement in Wideband Spectrum Sensing Under Fading: Use of Diversity**," *IEEE Transactions on Vehicular Technology*, vol. 66, no. 9, pp. 8152-8162, Sept. 2017. doi: 10.1109/TVT.2017.2679282

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1. Hardik B. Sailor and **H. A. Patil**, "Representation learning for speech recognition system in agriculture commodity for Gujarati," in *Global Conference on Cyberspace (GCCS)*, MeitY, Govt. of India, New Delhi, 23-24 November 2017.
2. Shaival Thakkar, and **Manjunath V. Joshi**, "**Classification of Human Actions Using 3-D Convolutional Neural Networks: A Hierarchical Approach,**" in *National Conference on Computer Vision, Pattern Recognition, Image Processing, and Graphics (NCVPRIPG- 2017)*, Mandi, India, 16-19 December, 2017, pp. 14-23. Doi: 10.1007/978-981-13-0020-2_2 [Published on 26 April. 2018]
3. Shaival Thakkar, and **Manjunath V. Joshi**, "**Design of Biorthogonal Wavelet Filters of DTCWT Using Factorization of Halfband Polynomials,**" in *National Conference on Computer Vision, Pattern Recognition, Image Processing, and Graphics (NCVPRIPG- 2017)*, Mandi, India, 16-19 December, 2017, pp. 150-162. Doi: 10.1007/978-981-13-0020-2_14 [Published on 26 April. 2018]

3.4.1 PhDs awarded during the year

Name of the Department	No. of PhDs Awarded
ICT	11

Student Id	Student Name	Degree Awarded (20 January 2018)
201021001	NAVEEN KUMAR	14th Convocation
201021003	SHAH MILIND	14th Convocation
201021013	SONAM NAHAR	14th Convocation
201121003	MAULIK CHANDULAL MADHAVI	14th Convocation
201121004	V. RAM NARESH KUMAR	14th Convocation
201121012	SHALINI A RANKAWAT	14th Convocation
201121013	SARITA AGRAWAL	14th Convocation
201121015	PADALKAR MILIND GAJANAN	14th Convocation
201121016	SHRISHAIL SHARAD GAJBHAR	14th Convocation
201221003	TANVINA BHUPENDRABHAI PATEL	14th Convocation
201221013	VANDANA RAVINDRAN	14th 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	1	NA
International	ICT	32	2.9404

Journal Title	IF
IEEE Journal of Selected Topics in Signal Processing	6.688
Journal of Cleaner Production	6.395
IEEE Transactions on Intelligent Transportation Systems	5.744

IEEE Transactions on Vehicular Technology	5.339
IEEE Transactions on Antennas and Propagation	4.435
IEEE Transactions on Broadcasting	4.374
Information Processing & Management	3.892
Big Data Research	2.952
Computer Communications	2.766
Computer Communications	2.766
IEEE Transactions on Electromagnetic Compatibility	2.274
Quantum Information Processing	2.222
Circuit, System and Signal Proceesing	1.922
Circuits, System, and Signal Processing	1.922
Optik : International Journal for Light and Electron Optics	1.914
Computer Speech & Language	1.857
Computer Speech & Language	1.857
Computer Speech & Language	1.857
International Journal of Satellite Communications and Networking	1.633
KONA Powder and Particle Journal	1.553
Journal of Heat Transfer	1.479
Wireless Personal Communications	0.929
European Journal of Physics	0.861
IPSJ Transactions on Computer Vision and Applications	
Progress in Electromagnetics Research M	
International Journals of Control Theory and Applications	
World Academy of Science, Engineering and Technology, International Journal of Computer, Electrical, Automation, Control and Information Engineering	
Statistics, Optimization & Information Computing	
Electronic Notes in Discrete Mathematics	
Transportation Research Procedia	
International Journal of Computational Vision and Robotics	
International Journal of Image and Graphics	
Indian Journal of Science and Technology	

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	4 Books 8 Chapters in edited volume of Books 55 Papers in International Conferences 3 Papers in National Conferences **Per Teacher 1.32 (70 publication / 53 Full Time Faculties)**

3.4.4 Patents published/awarded during the year

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

Title	Authors	Source Title	Publication Year	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Securing wireless sensor networks with public key techniques	Kumar V., Das M.L.	Ad-Hoc and Sensor Wireless Networks	2018	Scopus		9
Auditory filterbank learning for temporal modulation features in replay spoof speech detection	Sailor H.B., Kamble M.R., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	2018	Scopus		6
Human action recognition using fusion of features for unconstrained video sequences	Patel C.I., Garg S., Zaveri T., Banerjee A., Patel R.	Computers and Electrical Engineering	2018	Scopus		5
Toward better statistical validation of machine learning-based multimedia quality estimators	Narwaria M.	IEEE Transactions on Broadcasting	2018	Scopus		5
An Efficient Crosstalk Model for Coupled Multiwalled Carbon Nanotube Interconnects	Kumar M.G., Chandel R., Agrawal Y.	IEEE Transactions on Electromagnetic Compatibility	2018	Scopus		5
Time-Frequency Masking-Based Speech Enhancement Using Generative Adversarial Network	Soni M.H., Shah N., Patil H.A.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	2018	Scopus		4
Effective aggregation of various summarization techniques	Mehta P., Majumder P.	Information Processing and Management	2018	Scopus		4
Effectiveness of speech demodulation-based features for replay detection	Kamble M.R., Tak H., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association,	2018	Scopus		4

		INTERSPEECH				
Combining evidences from magnitude and phase information using VTEO for person recognition using humming	Patil H.A., Madhavi M.C.	Computer Speech and Language	2018	Scopus		2
Scattering of surface gravity waves over a pair of trenches	Kar P., Koley S., Sahoo T.	Applied Mathematical Modelling	2018	Scopus		2
Let's HPC: A web-based platform to aid parallel, distributed and high performance computing education	Chaudhury B., Varma A., Keswani Y., Bhatnagar Y., Parikh S.	Journal of Parallel and Distributed Computing	2018	Scopus		2
Data Analysis in Multimedia Quality Assessment: Revisiting the Statistical Tests	Narwaria M., Krasula L., Le Callet P.	IEEE Transactions on Multimedia	2018	Scopus		2
Designing mobile based computational support for low-literate community health workers	Shah H., Sengupta A.	International Journal of Human Computer Studies	2018	Scopus		2
Perusal of web application security approach	Hasan A.M., Meva D.T., Roy A.K., Doshi J.	ICCT 2017 - International Conference on Intelligent Communication and Computational Techniques	2018	Scopus		2
Design of an all-digital, low power time-to-digital converter in 0.18μm CMOS	Pokhara A., Agrawal J., Mishra B.	2017 7th International Symposium on Embedded Computing and System Design, ISED 2017	2018	Scopus		2
Coupling and cohesion metrics for object-oriented software: A systematic mapping study	Tiwari S., Rathore S.S.	ACM International Conference Proceeding Series	2018	Scopus		2
Unsupervised vocal tract length warped posterior features for non-parallel voice conversion	Shah N.J., Madhavi M.C., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	2018	Scopus		2
Novel variable length energy separation algorithm using instantaneous amplitude features for replay	Kamble M.R., Patil H.A.	Proceedings of the Annual Conference of the International Speech	2018	Scopus		2

detection		Communication Association, INTERSPEECH				
Novel empirical mode decomposition cepstral features for replay spoof detection	Tapkir P.A., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	2018	Scopus		2
Fredholm integral equation technique for hydroelastic analysis of a floating flexible porous plate	Koley S., Mondal R., Sahoo T.	European Journal of Mechanics, B/Fluids	2018	Scopus		2
Sensor Based Hand Gesture Recognition System for English Alphabets Used in Sign Language of Deaf-Mute People	Jani A.B., Kotak N.A., Roy A.K.	Proceedings of IEEE Sensors	2018	Scopus		1
GaAs MMIC low noise amplifier with integrated high-power absorptive receive protection switch	Rao C.V.N., Ghodgaonkar D.K., Sharma N.	IEEE Microwave and Wireless Components Letters	2018	Scopus		1
Improving the efficiency of solid-state power amplifier by frequency switching for satellite communication	Doshi R.J., Ghodgaonkar D.	International Journal of Satellite Communications and Networking	2018	Scopus		1
Family of Constrained Codes for Archival DNA Data Storage	Limbachiya D., Gupta M.K., Aggarwal V.	IEEE Communications Letters	2018	Scopus		1
ONPPn: Orthogonal Neighborhood Preserving Projection with Normalization and its applications	Koringa P.A., Mitra S.K.	Image and Vision Computing	2018	Scopus		1
Accelerated simulation of microwave breakdown in gases on Xeon Phi based cluster-application to self-organized plasma pattern formation	Chaudhury B., Gupta A., Shah H., Bhadani S.	Computer Physics Communications	2018	Scopus		1
On the Security of Remote Key Less Entry for Vehicles	Patel J., Das M.L., Nandi S.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2018	Scopus		1
Performance evaluation of memory guided directional MAC protocol	Mudliar S., Pillutla L.S.	11th IEEE International Conference on	2018	Scopus		1

in the presence of relays		Advanced Networks and Telecommunications Systems, ANTS 2017					
Cuffless blood pressure monitoring using PTT and PWV methods	Mishra B., Thakkar N.	International Conference on Recent Innovations in Signal Processing and Embedded Systems, RISE 2017	2018	Scopus			1
Multivariate-data-visualization-based investigation of projectiles in sports	Shah A., Chauhan Y., Patel P., Chaudhury B.	European Journal of Physics	2018	Scopus			1
A Unified Delay, Power and Crosstalk Model for Current Mode Signaling Multiwall Carbon Nanotube Interconnects	Agrawal Y., Kumar M.G., Chandel R.	Circuits, Systems, and Signal Processing	2018	Scopus			1
SNR wall for cooperative spectrum sensing using generalized energy detector	Captain K.M., Joshi M.V.	2018 10th International Conference on Communication Systems and Networks, COMSNETS 2018	2018	Scopus			1
Image compression using 2D-discrete wavelet transform on a light weight reconfigurable hardware	Jain N., Singh M., Mishra B.	Proceedings of the IEEE International Conference on VLSI Design	2018	Scopus			1
Human detection in complex real scenes based on combination of biorthogonal wavelet transform and Zernike moments	Prakash O., Gwak J., Khare M., Khare A., Jeon M.	Optik	2018	Scopus			1
Adaptive learning based directional MAC protocol for millimeter Wave (mmWave) Wireless networks	Tiwari P., Meena D.K., Pillutla A.S.	IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC	2018	Scopus			1
Priority based functional group identification of organic molecules using machine learning	Nalla R., Pinge R., Narwaria M., Chaudhury B.	ACM International Conference Proceeding Series	2018	Scopus			1
DA-IICT/IIITV system for low resource speech	Sailor H.B., Siva Krishna M.V.,	Proceedings of the Annual	2018	Scopus			1

recognition challenge 2018	Chhabra D., Patil A.T., Kamble M.R., Patil H.A.	Conference of the International Speech Communication Association, INTERSPEECH					
Novel linear frequency residual cepstral feature for replay attack detection	Tak H., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	2018	Scopus			1
Effectiveness of generative adversarial network for non-audible murmur-to-whisper speech conversion	Shah N., Shah N.J., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	2018	Scopus			1
Effectiveness of dynamic features in Inca and temporal context-inca	Shah N.J., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	2018	Scopus			1
A generative adversarial network for tone mapping HDR images	Patel V.A., Shah P., Raman S.	Communications in Computer and Information Science	2018	Scopus			1
Early detection of lung cancer from CT images: Nodule segmentation and classification using deep learning	Sharma M., Bhatt J.S., Joshi M.V.	Proceedings of SPIE - The International Society for Optical Engineering	2018	Scopus			1
Classification of human actions using 3-D convolutional neural networks: A hierarchical approach	Thakkar S., Joshi M.V.	Communications in Computer and Information Science	2018	Scopus			1
A Multiresolution Approach for Content-Based Image Retrieval Using Wavelet Transform of Local Binary Pattern	Khare M., Srivastava P., Gwak J., Khare A.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2018	Scopus			1

Title	Authors	Source	Year	Database		Count
GPU based Computational Simulation of Aircraft Evacuation: Temporal and Spatial Analysis	Poudel M., Chaudhury B., Sharma K., Tabakov P.Y., Mora-Camino F.	Transportation Research Procedia	2018	Scopus		1
Significance of Higher-Order Spectral Analysis in Infant Cry Classification	Chittora A., Patil H.A.	Circuits, Systems, and Signal Processing	2018	Scopus		1
Novel Energy Separation Based Frequency Modulation Features for Spoofed Speech Classification	Kamble M.R., Patil H.A.	2017 9th International Conference on Advances in Pattern Recognition, ICAPR 2017	2018	Scopus		0
Two Stage Zero-resource Approaches for QbE-STD	Madhavi M.C., Patil H.A.	2017 9th International Conference on Advances in Pattern Recognition, ICAPR 2017	2018	Scopus		0
Sub-band Autoencoder features for Automatic Speech Recognition	Soni M.H., Sharma M., Sailor H.B., Patil H.A.	2017 9th International Conference on Advances in Pattern Recognition, ICAPR 2017	2018	Scopus		0
Unsupervised Filterbank Learning for Speech-based Access System for Agricultural Commodity	Sailor H.B., Patil H.A., Rajpal A.	2017 9th International Conference on Advances in Pattern Recognition, ICAPR 2017	2018	Scopus		0
Public Toilet Hygiene Monitoring and Reporting System	Chandra S., Srivastava S., Roy A.	Proceedings of IEEE Sensors	2018	Scopus		0
Lie bodies based 3D shape morphing and interpolation	Bansal S., Tatu A.	Proceedings - CVMP 2018: 15th ACM SIGGRAPH European Conference on Visual Media Production	2018	Scopus		0
Dual Band Circularly Polarized Dielectric Resonator Antenna using DSWPD with Phase Shifter for IRNSS	Chaudhary P., Ghodgaonkar D.K., Gupta S., Shukla A.	RFM 2018 - 2018 IEEE International RF and Microwave Conference, Proceedings	2018	Scopus		0
Permittivity and	Vashisth R.,	RFM 2018 - 2018	2018	Scopus		0

Permeability Measurements of CISR sheets for Microwave Absorber Applications	Ghodgaonkar D., Gupta S.	IEEE International RF and Microwave Conference, Proceedings				
Query Processing for Streaming RDF Data	Sha R., Pandat A., Bhise M.	2018 IEEE International WIE Conference on Electrical and Computer Engineering, WIECON-ECE 2018	2018	Scopus		0
Scene-change detection using locality preserving projections	Patel L., Patel K., Koringa P.A., Mitra S.K.	Proceedings of 2018 IEEE Applied Signal Processing Conference, ASPCON 2018	2018	Scopus		0
A modular approach for facial expression recognition using euler principal component analysis (e-PCA)	Sujata, Trivedi M., Mitra S.K.	Proceedings of 2018 IEEE Applied Signal Processing Conference, ASPCON 2018	2018	Scopus		0
A theoretical prediction of rotating waves in Type-I hydraulic jumps	Ray A.K., Sarkar N., Basu A., Bhattacharjee J.K.	Physics Letters, Section A: General, Atomic and Solid State Physics	2018	Scopus		0
Fuzzy integrated desertification vulnerability model	Dave V.A., Sur K.	International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives	2018	Scopus		0
Analysis of performance of flat earth phase removal methods	Desai K., Joshi P., Chirakkal S., Putrevu D., Ghosh R.	International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives	2018	Scopus		0
Change detection of polarimetric SAR data for monitoring of agricultural areas	Varia N., Davawala N., Chirakkal S., Haldar D., Ghosh R., Putrevu D.	ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences	2018	Scopus		0
A Vector File Generation Program for Simulating Single Electron	Patel R., Agrawal Y., Parekh R.	Proceedings of International Conference on	2018	Scopus		0

Transistor based Computing System		2018 IEEE Electron Device Kolkata Conference, EDKCON 2018					
An efficient and novel FDTD method based performance investigation in high-speed current-mode signaling SWCNT bundle interconnect	Agrawal Y., Girish M., Chandel R.	Sadhana - Academy Proceedings in Engineering Sciences	2018	Scopus			0
Optimized Wishart Network for an Efficient Classification of Multifrequency PolSAR Data	Gadhiya T., Roy A.K.	IEEE Geoscience and Remote Sensing Letters	2018	Scopus			0
Design of mixture of GMMs for Query-by-Example Spoken Term Detection	Madhavi M.C., Patil H.A.	Computer Speech and Language	2018	Scopus			0
A novel approach for abundance estimation using discontinuity preserving prior	Patel J.R., Joshi M.V., Bhatt J.S.	International Geoscience and Remote Sensing Symposium (IGARSS)	2018	Scopus			0
Security Vulnerability Analysis using Ontology-based Attack Graphs	Falodiya K., Das M.L.	2017 14th IEEE India Council International Conference, INDICON 2017	2018	Scopus			0
Narrow Band Jamming Detection & Filtering in Satellite Transponder	Prakash C., Vasavada Y.	2018 IEEE International Conference on Electronics, Computing and Communication Technologies, CONECCT 2018	2018	Scopus			0
Balancing on the edge, the golden ratio, the Fibonacci sequence and their generalization	Dutta G., Mehta M., Pathak P.	European Journal of Physics	2018	Scopus			0
A Multitemporal Linear Spectral Unmixing: An Iterative Approach Accounting for Abundance Variations	Bhatt J.S., Joshi M.V., Vijayashekhar S.S.	Workshop on Hyperspectral Image and Signal Processing, Evolution in Remote Sensing	2018	Scopus			0
Baseband I/Q regeneration method for direct conversion receiver to nullify effect of second order intermodulation distortion	Shah M., Gupta S.	IEEE MTT-S International Microwave and RF Conference, IMaRC 2017	2018	Scopus			0
Amplitude and phase	Vasavada Y.,	IEEE MTT-S	2018	Scopus			0

calibration of antenna arrays	Reed J.H.	International Microwave and RF Conference, IMaRC 2017					
Novel high q coaxial resonator filter for millimeter wave application	Dad V.K., Gupta S.	IEEE MTT-S International Microwave and RF Conference, IMaRC 2017	2018	Scopus			0
On DNA Codes using the Ring Z$<$inf$>$4$<$/inf$>$ + wZ$<$inf$>$4$<$/inf$>$	Limbachiya D., Benerjee K.G., Rao B., Gupta M.K.	IEEE International Symposium on Information Theory - Proceedings	2018	Scopus			0
Computational investigation of power efficient plasma-based reconfigurable microstrip antenna	Vyas H., Chaudhury B.	IET Microwaves, Antennas and Propagation	2018	Scopus			0
Design and analysis of a flexible multifractal cantor antenna	Shah M., Gupta S.	2017 IEEE International Conference on Antenna Innovations and Modern Technologies for Ground, Aircraft and Satellite Applications, iAIM 2017	2018	Scopus			0
Design of compact circularly polarized rectangular dielectric resonator antenna with WBLC for navigational satellite applications	Chaudhary P., Ghodgaonkar D.K., Gupta S., Makwana G.D.	2017 IEEE International Conference on Antenna Innovations and Modern Technologies for Ground, Aircraft and Satellite Applications, iAIM 2017	2018	Scopus			0
Fast Private License Plate Matching Using Symmetric Homomorphic Encryption	Vaishnav H., Mathuria A.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2018	Scopus			0
Low Power Management Unit with Load Regulation using DC-DC Switched Capacitor Converters in 0.18μm CMOS	Patel P., Mishra B.	Proceedings of the 2018 8th International Symposium on Embedded Computing and System Design,	2018	Scopus			0

		ISED 2018					
An Iterative Delay Chain based Impedance to Digital Converter using 0.18μm CMOS	Mishra B., Jigalur L.	Proceedings of the 2018 8th International Symposium on Embedded Computing and System Design, ISED 2018	2018	Scopus			0
A Wearable Device for Real-Time ECG Monitoring and Cardiovascular Arrhythmia Detection for Resource Constrained Regions	Mishra B., Arora N., Vora Y.	Proceedings of the 2018 8th International Symposium on Embedded Computing and System Design, ISED 2018	2018	Scopus			0
Novel amplitude weighted frequency modulation features for replay spoof detection	Kamble M.R., Patil H.A.	2018 11th International Symposium on Chinese Spoken Language Processing, ISCSLP 2018 - Proceedings	2018	Scopus			0
Novel demodulation-based features using classifier-level fusion of GMM and CNN for replay detection	Kamble M.R., Tak H., Siva Krishna M.V., Patil H.A.	2018 11th International Symposium on Chinese Spoken Language Processing, ISCSLP 2018 - Proceedings	2018	Scopus			0
Object Identify Using Electrical Impedance Tomography Technique for Industrial Application	Kumar R., Kumar S., Sengupta A.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	Scopus			0
Preeminent Buffer Insertion Technique For Long Advanced On-Chip Graphene Interconnects	Pathade T., Shah U., Agrawal Y., Parekh R.	IEEE Electrical Design of Advanced Packaging and Systems Symposium, EDAPS 2018	2018	Scopus			0
Contemporary On-chip System Modeling using FDTD in Low Power Regime	Agrawal Y., Chandel R., Girish M., Parekh R.	IEEE Electrical Design of Advanced Packaging and Systems Symposium, EDAPS 2018	2018	Scopus			0
Combining phase-based features for replay spoof	Srinivas K., Das R.K., Patil H.A.	2018 11th International	2018	Scopus			0

detection system		Symposium on Chinese Spoken Language Processing, ISCSLP 2018 - Proceedings				
Recursive network with explicit neighbor connection for image captioning	Shaikh M.K., Joshi M.V.	SPCOM 2018 - 12th International Conference on Signal Processing and Communications	2018	Scopus		0
Iterative channel and symbol estimation for OFDM and for SIMO diversity	Vasavada Y.M., Beex A., Reed J.H.	SPCOM 2018 - 12th International Conference on Signal Processing and Communications	2018	Scopus		0
Feature extraction from temporal phase for speaker recognition	Gandhi A., Patil H.A.	SPCOM 2018 - 12th International Conference on Signal Processing and Communications	2018	Scopus		0
Analysis of downsampling of DCT-graphs	Vaishnav N., Tatu A.	SPCOM 2018 - 12th International Conference on Signal Processing and Communications	2018	Scopus		0
Relay based wireless networks with joint modulation, power allocation and relay selection	Baghel S., Pillutla L.S.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	Scopus		0
Privacy-preserving services in VANET with misbehavior detection	Parikh N., Das M.L.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	Scopus		0
A hierarchical cyber physical system for integrated demand side management of power usage in buildings	Vasavada Y., Sasidhar P.S.K.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	Scopus		0
Teaching requirements engineering concepts	Tiwari S., Ameta D., Singh P.,	Proceedings - International	2018	Scopus		0

using case-based learning	Sureka A.	Conference on Software Engineering				
A 46 nW power management unit with battery extender for solar energy harvesters using 0.18 μm CMOS	Patel P., Mishra B., Nagchoudhuri D.	Journal of Low Power Electronics	2018	Scopus		0
Multivariate generalized Gram–Charlier series in vector notations	Dharmani B.C.	Journal of Mathematical Chemistry	2018	Scopus		0
Vector Graph Representation for Deformation Transfer Using Poisson Interpolation	Domadiya P., Shah P., Mitra S.K.	Proceedings - 2018 IEEE Winter Conference on Applications of Computer Vision, WACV 2018	2018	Scopus		0
Adaptive Thermal Management Technique to Improve the Efficiency of SSPA for Geo-Synchronous Satellite	Doshi R.J., Ghodgaonkar D.	Journal of Heat Transfer	2018	Scopus		0
Reliability improvement technique of GaN SSPA for geo synchronous satellites	Doshi R.J., Ghodagaonkar D.	2017 International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2017	2018	Scopus		0
Accurate characterization of high power SSPA under multicarrier operation for satellite communications	Doshi R.J., Ghodgaonkar D., Bhardhwaj P.S., Singh D.K., Das D.K.	2017 International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2017	2018	Scopus		0
Capacity of a quantum memory channel correlated by matrix product states	Mulherkar J., Sunitha V.	Quantum Information Processing	2018	Scopus		0
Information extraction from wikipedia articles using DeepDive	Ameta D., Jat P.M.	Proceedings - 2018 International Conference on Communication, Information and Computing Technology, ICCICT 2018	2018	Scopus		0
High power test set up:	Doshi R.J.,	Proceedings of	2018	Scopus		0

From trolley to table top	Parekh V.D., Patil A.N., Ghodagaonkar D.	the 2nd International Conference on Communication and Electronics Systems, ICCES 2017				
Techniques to reduce the cost of the satellite base solutions	Doshi R.J., Ghodagaonkar D.	Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES 2017	2018	Scopus		0
Downsampling on bipartite graphs: An algebraic perspective	Vishnav N., Tatu A.	2017 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2017 - Proceedings	2018	Scopus		0
Development of a modular and optimum multisensor integration platform for navigation	Sajithra Varun S., Nagaraj R.	Proceedings - International Conference on Trends in Electronics and Informatics, ICEI 2017	2018	Scopus		0
Design and optimization of single electron transistor based 4-bit arithmetic and logic unit at room temperature operation	Joshi R., Parekh R., Agrawal Y.	Proceedings - 2017 IEEE International Symposium on Nanoelectronic and Information Systems, iNIS 2017	2018	Scopus		0
Integrated acquisition and tracking scheme for channel estimation in millimeter wave wireless networks	Pillutla L.S., Annavajjala R.	IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC	2018	Scopus		0
A case study on the application of case-based learning in software testing	Tiwari S., Saini V., Singh P., Sureka A.	ACM International Conference Proceeding Series	2018	Scopus		0
A report on the workshop on emerging sofware engineering education (WESEE 2018)	Singh P., Farooq S.U., Tiwari S.	ACM International Conference Proceeding Series	2018	Scopus		0
A novel implementation of 2D3V Particle-in-Cell	Shah H., Kamaria S., Markandeya	Proceedings - 24th IEEE	2018	Scopus		0

(PIC) algorithm for kepler GPU Architecture	R., Shah M., Chaudhury B.	International Conference on High Performance Computing, HiPC 2017				
On the convergence of INCA algorithm	Shah N.J., Patil H.A.	Proceedings - 9th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA ASC 2017	2018	Scopus		0
Combining evidences from detection sources for query-by-example spoken term detection	Madhavi M.C., Patil H.A.	Proceedings - 9th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA ASC 2017	2018	Scopus		0
A novel filtering-based F_0 estimation algorithm with an application to voice conversion	Shah N.J., Bachhav P.B., Patil H.A.	Proceedings - 9th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA ASC 2017	2018	Scopus		0
Use of ICT on village development plan (VDP)	Sahu K.C., Ghosh R.	Proceedings - 2017 IEEE Technological Innovations in ICT for Agriculture and Rural Development, TIAR 2017	2018	Scopus		0
Impact of canal irrigation on agriculture in Halvad block of Gujarat using remote sensing and GIS technology	Yadav M.K., Ghosh R., Sahu K.C., Kalubarme M.H.	Proceedings - 2017 IEEE Technological Innovations in ICT for Agriculture and Rural Development, TIAR 2017	2018	Scopus		0
Biomedical document retrieval for clinical	Sankhavara J.	ACL 2018 - 56th Annual Meeting	2018	Scopus		0

decision support system		of the Association for Computational Linguistics, Proceedings of the Student Research Workshop				
Daiict-hildesheim @ information retrieval from microblogs during disasters (IRMIDIS 2018)	Fadaei N., Im C., Modha S., Mandl T.	CEUR Workshop Proceedings	2018	Scopus		0
Auditory filterbank learning using ConvRBM for infant cry classification	Sailor H.B., Patil H.A.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	2018	Scopus		0
Novel Subthreshold Modelling of Advanced On-Chip Graphene Interconnect Using Numerical Method Analysis	Patel N.R., Agrawal Y., Parekh R.	IETE Journal of Research	2018	Scopus		0
Shadow-Free, Expeditious and Precise, Moving Object Separation from Video	Domadiya P., Shah P., Mitra S.K.	International Journal of Image and Graphics	2018	Scopus		0
Extraction of Professional Details from Web-URLs using DeepDive	Vyas A., Kadakia U., Jat P.M.	Procedia Computer Science	2018	Scopus		0
Noise removing filters and its implementation on FPGA	Mishra A.S., Parekh R.	Lecture Notes in Electrical Engineering	2018	Scopus		0
Modeling and simulation of 1/f noise during threshold switching for phase change memory	Parekh R., Baghini M.S., Rajendran B.	Lecture Notes in Electrical Engineering	2018	Scopus		0
Printed Gujarati character classification using high-level strokes	Goswami M.M., Mitra S.K.	Advances in Intelligent Systems and Computing	2018	Scopus		0
Combining Zernike moment and complex wavelet transform for human object classification	Khare M., Prakash O., Srivastava R.K.	International Journal of Computational Vision and Robotics	2018	Scopus		0
Automatic detection and inpainting of defaced regions and cracks in heritage monuments	Padalkar M.G., Joshi M.V.	Digital Hampi: Preserving Indian Cultural Heritage	2018	Scopus		0
Design of biorthogonal wavelet filters of	Gajbhar S.S., Joshi M.V.	Communications in Computer and	2018	Scopus		0

DTCWT using factorization of halfband polynomials		Information Science				
Convolutional neural network with transfer learning for rice type classification	Patel V.A., Joshi M.V.	Proceedings of SPIE - The International Society for Optical Engineering	2018	Scopus		0
Semi-frames and Fusion Semi-frames	Sahu N.K., Mohapatra R.N.	Communications in Computer and Information Science	2018	Scopus		0
Judgement of learning for metacognitive type-2 fuzzy inference system	Mahajan K.	Communications in Computer and Information Science	2018	Scopus		0
Improved directionally driven self-regulating particle swarm optimizer	Jariwala S.	Communications in Computer and Information Science	2018	Scopus		0
Content based weighted consensus summarization	Mehta P., Majumder P.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2018	Scopus		0
Computing Theory Prime Implicates in Modal Logic	Raut M.K., Kokane T.V., Agarwal R.	Advances in Intelligent Systems and Computing	2018	Scopus		0
Preface	Majumder P., Mitra M., Mehta P., Sankhavara J.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2018	Scopus		0
Auditing Access to Private Data on Android Platform	Maral V., Trivedi N., Das M.L.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2018	Scopus		0

An Efficient Crosstalk Model For Coupled Multiwalled Carbon Nanotube Interconnects	Kumar, Mekala Girish; Chandel, Rajeevan; Agrawal, Yash	IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY	2018		Web of Science	7
Toward Better Statistical Validation of Machine Learning-Based Multimedia Quality Estimators	Narwaria, Manish	IEEE TRANSACTIONS ON BROADCASTING	2018		Web of Science	5
Data Analysis in Multimedia Quality Assessment: Revisiting the Statistical Tests	Narwaria, Manish; Krasula, Lukas; Le Callet, Patrick	IEEE TRANSACTIONS ON MULTIMEDIA	2018		Web of Science	4
Effective aggregation of various summarization techniques	Mehta, Parth; Majumder, Prasenjit	INFORMATION PROCESSING & MANAGEMENT	2018		Web of Science	4
Fredholm integral equation technique for hydroelastic analysis of a floating flexible porous plate	Koley, S.; Mondal, R.; Sahoo, T.	EUROPEAN JOURNAL OF MECHANICS B-FLUIDS	2018		Web of Science	3
ONPPn: Orthogonal Neighborhood Preserving Projection with Normalization and its applications	Koringa, Purvi A.; Mitra, Suman K.	IMAGE AND VISION COMPUTING	2018		Web of Science	2
Let's HPC: A web-based platform to aid parallel, distributed and high performance computing education	Chaudhury, Bhaskar; Varma, Akshar; Keswani, Yashwant; Bhatnagar, Yashodhan; Parikh, Samarth	JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING	2018		Web of Science	2
A Unified Delay, Power and Crosstalk Model for Current Mode Signaling Multiwall Carbon Nanotube Interconnects	Agrawal, Yash; Kumar, Mekala Girish; Chandel, Rajeevan	CIRCUITS SYSTEMS AND SIGNAL PROCESSING	2018		Web of Science	2
Human detection in complex real scenes based on combination of biorthogonal wavelet transform and Zernike moments	Prakash, Om; Gwak, Jeonghwan; Khare, Manish; Khare, Ashish; Jeon, Moongu	OPTIK	2018		Web of Science	2
Design of mixture of GMMs for Query-by-Example Spoken Term Detection	Madhavi, Maulik C.; Patil, Hemant A.	COMPUTER SPEECH AND LANGUAGE	2018		Web of Science	1
Family of Constrained Codes for Archival DNA Data Storage	Limbachiya, Dixita; Gupta, Manish K.;	IEEE COMMUNICATIONS LETTERS	2018		Web of Science	1

	Aggarwal, Vancet					
Scattering of surface gravity waves over a pair of trenches	Kar, P.; Koley, S.; Sahoo, T.	APPLIED MATHEMATICAL MODELLING	2018	Web of Science		1
Human action recognition using fusion of features for unconstrained video sequences	Patel, Chirag I.; Garg, Sanjay; Zaveri, Tanish; Banerjee, Asim; Patel, Ripal	COMPUTERS & ELECTRICAL ENGINEERING	2018	Web of Science		1
Accelerated simulation of microwave breakdown in gases on Xeon Phi based cluster-application to self-organized plasma pattern formation	Chaudhury, Bhaskar; Gupta, Anurag; Shah, Henil; Bhadani, Saumya	COMPUTER PHYSICS COMMUNICATIONS	2018	Web of Science		1
GaAs MMIC Low Noise Amplifier With Integrated High-Power Absorptive Receive Protection Switch	Rao, Ch. V. N.; Ghodgaonkar, D. K.; Sharma, Nitesh	IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS	2018	Web of Science		0
A theoretical prediction of rotating waves in Type-I hydraulic jumps	Ray, Arnab K.; Sarkar, Niladri; Basu, Abhik; Bhattacharjee, Jayanta K.	PHYSICS LETTERS A	2018	Web of Science		0
Optimized Wishart Network for an Efficient Classification of Multifrequency PolSAR Data	Gadhiya, Tushar; Roy, Anil K.	IEEE GEOSCIENCE AND REMOTE SENSING LETTERS	2018	Web of Science		0
Balancing on the edge, the golden ratio, the Fibonacci sequence and their generalization	Dutta, Gautam; Mehta, Mitaxi; Pathak, Praveen	EUROPEAN JOURNAL OF PHYSICS	2018	Web of Science		0
Improving the efficiency of solid-state power amplifier by frequency switching for satellite communication	Doshi, R. J.; Ghodgaonkar, Deepak	INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS AND NETWORKING	2018	Web of Science		0
An efficient and novel FDTD method based performance investigation in high-speed current-mode signaling SWCNT bundle interconnect	Agrawal, Yash; Girish, M.; Chandel, Rajeevan	SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES	2018	Web of Science		0
Combining evidences from magnitude and phase information using VTEO for person recognition using humming	Patil, Hemant A.; Madhavi, Maulik C.	COMPUTER SPEECH AND LANGUAGE	2018	Web of Science		0

Computational investigation of power efficient plasma-based reconfigurable microstrip antenna	Vyas, Hardik; Chaudhury, Bhaskar	IET MICROWAVES ANTENNAS & PROPAGATION	2018	Web of Science		0
Multivariate generalized Gram-Charlier series in vector notations	Dharmani, Bhaveshkumar C.	JOURNAL OF MATHEMATICAL CHEMISTRY	2018	Web of Science		0
Adaptive Thermal Management Technique to Improve the Efficiency of SSPA for Geo-Synchronous Satellite	Doshi, R. J.; Ghodgaonkar, Deepak	JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME	2018	Web of Science		0
Capacity of a quantum memory channel correlated by matrix product states	Mulherkar, Jaideep; Sunitha, V.	QUANTUM INFORMATION PROCESSING	2018	Web of Science		0
Gadamer on Tradition: Historical Context and the Limits of Reflection	Kollipara, Bharani	HUMAN STUDIES	2018	Web of Science		0
Significance of Higher-Order Spectral Analysis in Infant Cry Classification	Chittora, Anshu; Patil, Hemant A.	CIRCUITS SYSTEMS AND SIGNAL PROCESSING	2018	Web of Science		0

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

| Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Please refer to the following graph				25		

h-graph for set of 696 Documents

h-graph Measures the impact of a set of articles and shows the number of citations per document.   Export Print Email

696 cited documents   Back to citation overview

Document *h*-index : 25 Scopus does not have complete citation information for articles published before 1996.

Documents	Citations ▾
1	261
2	122
3	122
4	90
5	62
6	54
7	52
8	41
9	40
10	39
11	38
12	36
13	36
14	36
15	35
16	32

The *h*-index for these documents is 25
Of the documents considered for the *h*-index, 25 have been cited at least 25 times
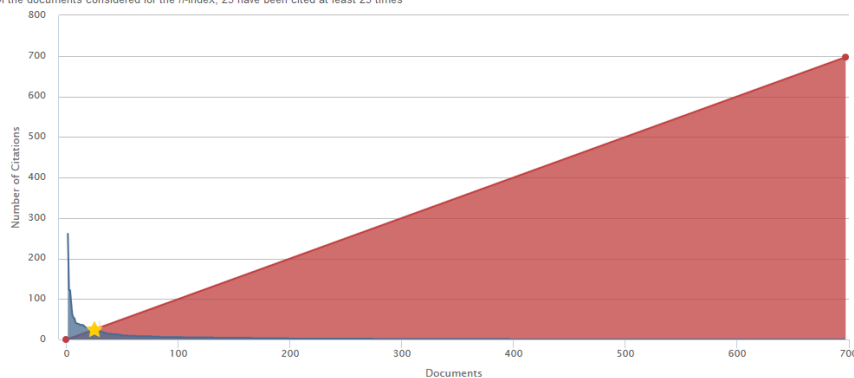
3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshop	10	21	2	
Presented papers	10	23	3	
Resource Persons	10	21	2	

Sr. No.	Approved Date	Faculty Name	Sanctioned Support Amount (Rs.)	Conference Name	Conference Date
1	Jul-17	Rahul Muthu	45000	ITCDM Conf at Taiwan	18-21 July 2017
2	Jul-17	Saurabh Tiwari	55000	IEEE International Requirements Engineering Conference (RE), Portugal	4-8 Sep 2017
3	Jun-17	M V Joshi	50000	paper presentation in IEEE Conf	Aug 2017
4	Aug-17	Laxminarayan Pillutla	97000	paper presentation at Singapore	4-8 Dec 2017
5	Aug-17	Aditya Tatu	41500	IEEE Global Conference on Signal & Information	14-16 Nov 2017

				Processing, Canada	
6	Aug-17	Aditya Tatu	47000	IEEE Workshop on Multimedia Signal Processing, UK	16-18 Oct 2017
7	Sep-17	M V Joshi	50620	IEEE conference Registration fee	
8	Feb-17	Puneet Bhateja	25000	SCSS – 2017	
9	Sep-17	Rajib Lochan Das	27000	registration fee IEEE IGST	
10	Oct-17	Minal Bhise	40000	Registration fee and to attend an international conference	
11	Oct-17	Sanjay Srivastava	50000	Registration fee and to attend an international conference	
12	13/10/2017	Yash Vasavada	20897	Registration fee and to attend a national conference	
13	02/01/2018	Sanjeev Gupta	17200	Conf registration fee IMaRC 2017	11-13 Dec 2017
14	02/01/2018	Anish Mathuria	22500	ICISS 2017 at IITB	18-20 Dec 2017
15	02/01/2018	Suman K. Mitra	30000	PReMI 2017	5-8 Dec 2017
16	02/01/2018	Manoj Raut	47000	ISDA 2017 (International Conference on Intelligent Systems Design and Applications)	14-16 Dec 2017
17	12/01/2018	Sourish Dasgupta	175000	KCAP 2017 (International Conference on Knowledge Capture), USA	4-6 Dec 2017
18	18/01/2018	Yash Vasavada	30991	Conf registration fee ICACCI 2017	Dec-17
19	24/01/2018	Manish Narwaria	22342	The ACM India Joint International Conference on Data Science & Management of Data, Goa	11-13 Jan 2018
20	24/01/2018	Prasenjit Majumder	7200	IISc Bangalore for FIRE 2017 Meeting	10-12 Dec 2017

21	12/02/2018	Manish Khare	10161	Machine Learning & its Applications, FDP at IIT Roorkee	1-5 Feb, 2018
22	06/03/18	Hemant Patil	43000	ICASSP 2018, Canada	15-20 April, 2018
23	26/03/2018	Manish Khare	113610	ACIIDS 2018 (Asian Conference on Intelligent Information and Database Systems), Vietnam	19-21 Mar 2018
24	01/05/2018	M V Joshi	33026	COMSNETS 2018 (International Conference on COMmunication Systems & NETworkS), Bangalore	3-7 Jan 2018
25	28/06/2018	Manish K. Gupta	101534	IEEE International Symposium on Information Theory, Colorado, USA	13-24 Jun 2018

3.5 Consultancy

3.5.1 Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
M.V. Joshi	Optical character recognition (OCR) algorithms to enhance the accuracy of numeric data recognition by the machine	Factset Systems India Pvt. Ltd.	8,76,000

3.5.2 Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees
NIL				

3.6 Extension Activities

3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers **coordinated** in such activities	Number of students participated in such activities
1. HackInfinity in Agriculture 2017 on 11-12 Nov 2017	CIIE, IIM-A Ahmedabad		National participation, over 150
2. Eco-Youth Run on 26 Jan 2018 to promote the 3R's- *"Reduce Reuse Recycle"*.	DA-IICT's own initiative	15 faculty and 10 staffs	Over 400 from all over Gujarat

3. "Vigyaan Shaala" – proposal of an initiative of teaching science in govt. schools	Supported by GUJCOST	Currently it has been conceptualized and a proposal is under consideration by GUJCOST to support it.	
4. Blood donation camps organized during the year	Annually we organize at least 2 Blood Donation Camps through our Sambhav club in which the team from Civil Hospital, Gandhinagar comes to facilitate the process and collect the donated blood. At least 15 faculty, equal number of staff and over 200 students donate blood in this camp.		

3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
NIL	NIL		

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

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers **coordinated** in such activities	Number of students participated in such activities
	Andaman and Nicobar Tribal Research Institute	"*Ang Katha*" - a project to provide the Jarawas in the Great Andaman an opportunity to participate in the development of a modality of schooling for children by combining elements of modern numerical and verbal literacy with indigenous knowledge and cultural values.		
	Rahelba Vruddhashram	Visit to an Old Age Home on 31 October 2017	1 (Prof. Alka Parikh)	*Sambhav* Group of DA-IICT
Swachh Bharat	Govt. of Gujarat	Eco Youth Run on 26 January 2018 to promote the 3R's- *"Reduce Reuse Recycle"*	15 Faculty	DA-IICT Students, Faculty and Staff
National Technology Day	SAC (ISRO), Ahmedabad	Presentation on the topic - "Science and Technology for Sustainable Future: Space Perspective" on National Technology Day on 16th May 2018	1 (Prof. Ranendu Ghosh)	Prithvish Doshi (201601043) Aayush Agrawal (201501139)

3.7 Collaborations

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
Visited the institute of Information Science and	Parth Mehta (PhD Student)	*Erasmus Mundus* exchange program between DAIICT and Universität Hildesheim.	16 weeks

Natural Language Processing			
Attended the annual European Conference (ECIR) on Information Retrieval and to present his work on automatic text summarization	Parth Mehta (PhD Student)	Got a support of 800 € as a student grant.	1 week
To undertake a research internship at the Viterbi School of Engineering, California, USA.	Omkar Damle (BTech student)	Viterbi-India Program.	May-July 2018
Visited The Center for Language and Speech Processing, Johns Hopkins University for her BTech Project in Information Retrieval	Nidhi Vyas (BTech student)	The Center for Language and Speech Processing, Johns Hopkins University.	Jan- April 2018

3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/industry/research lab with contact details	Duration (From-To)	Participant
Development of design modules under MHRD's Open Design School concept	SWAYAM	Industrial Design Centre, IIT Bombay	2017	Prof. Binita Desai
A project to provide the Jarawas of the Great Andaman an opportunity to participate in the development of a modality of schooling for children by combining elements of modern numerical and verbal literacy with indigenous knowledge and cultural values.	"*Ang Katha*"	ANTRI (Andaman & Nicobar Tribal Research Institute, Port Blair	2017	Prof. Vishwajit Pandya (Honorary Director)
Development of drone based pollution monitoring application	Weather Drone	IEEE Gujarat Section	Oct 2017	Prof. Anil Roy
	Development of smart city lab	Marwadi University, Rajkot	Aug 2017	Prof. Anil Roy

3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
Government of Gujarat	25 Sep 2017	a. DA-IICT is identified as Anchor Institute for Course offerings under the Anchor Institute Program by the Centre for Entrepreneurship Development, Government of Gujarat.	1. "Digital System Architecture Using Verilog HDL", June 4-8, 2018, Instructors: Profs. Amit Bhatt, Yash Agrawal, Persons benefitted: 21 2. "Design & Implementation Of Relational Databases", June 11-15, 2018, Instructors: Profs. P M Jat, Amit Mankodi, Persons benefitted:

			15 3. "C/C Programming", June 11 to 15, 2018, Instructors: Profs. Asim Banerjee & Lavneet Singh, Persons benefitted: 8
		b. DA-IICT is identified as a Nodal Institute for promotion of Entrepreneurship under SSIP (Student Start-up and Innovation Policy)	Proposals of startup which were supported: 1.Generic approach based accident detection and notification system for motor-vehicles, Approved budget : 1,19,000, Date : 21-02-2018, No of Students : 2, Mentor : 1. 2. Smart Travel Bag, Aproved budget : 96,434, Date : 04-04-2018, No of student : 1, Mentor : 1 Events support: 1. HackInfinity (Hackathon), Budget : 1,50,000, Date 11-12 Nov 2017, No. of Participants: 112
		c. Design and Innovation Lab established at DA-IICT by GUJCOST in 2017 to foster innovation, encourage and publicize design and innovation in ICT field for underprivileged community.	Data not captured in this way. However, the facility is being utilized.
Bennett University, Noida	Aug 2017	To collaborate with *Leadingindia.ai,* one of the largest nation-wide initiative on skilling and research in Deep Learning and Artificial Intelligence Technologies. This project has the potential to change the landscape of Artificial Intelligence research in India	No activity in this period
Infinium Solutionz Pvt Ltd, Ahmedabad	21 Sep 2017	- To support DA-IICT's efforts in education, training and research in the areas of Geospatial Technology and other research areas of mutual interest. - Infinium Scholarship will be provided to the students who will be working on a problem mutually decided by DA-IICT and Infinium Solutionz	3 B.Tech. students (Rushikesh, ID 201401106 and Urmil ID 201401013 and Gamita, ID 201401101) have completed paid BTP with Amnex on mutually defined problems.

Gujarat Knowledge Society	25 Sep 2017	Implementation of the Student Startup and Innovation Policy (SSIP) of Government of Gujarat.	Same as above (SSIP)
Universiti Teknologi MARA, 40450 Shah Alam, Selangor Malaysia	29 Aug 2017	To promote academic and research cooperation as follows: a. Institutional exchanges between faculty and staff; b. Acceptance of undergraduate and graduate students between parties for periods of study and/or research and joint guidance of students on projects and theses. c. Organization of joint seminars, workshops, symposia, conferences, short courses and meetings on research issues; d. Exchange of information pertaining to developments in teaching, student development and research institutions.	1. There was exchange of information via e-mail with staff and students of Microwave Research Institute (MRI), UiTM and DA-IICT several times in last one year. This was about research on MNDT and submitting sponsored research projects to Malaysian Government Agencies. We have one project under consideration under international collaboration fund. Also, two PhD students visited Malaysia in December 2018 to present conference papers and exchanged information with MRI staff.
Dr. C R RAO Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad	5 Mar 2018	a. To allow and use their best endeavors to affect visits from one Institute to the other by members of the academic staff for the purpose of participating in joint teaching, joint research and guidance and joint Conferences/Seminars /Training Programs. b. To allow visits of Research Fellows to each other Institute to utilize the facilities and research support for short terms. c. To encourage the exchange of scientific materials, publications and information with secrecy to be maintained. d. To prepare, as necessary, P.G./Ph.D. Programs detailing specific forms and contents of cooperation.	It has just started and its impact will be observed later.

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	Budget utilized for infrastructure development

	augmentation

Data not available in this way.

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	Data not available in this way.	
Class rooms		
Laboratories		
Seminar Halls		
Classrooms with LCD facilities		
Classrooms with Wi-Fi/ LAN		
Seminar halls with ICT facilities		
Video Centre		
No. of important equipments purchased (≥ 1-0 lakh) during the current year.		
Value of the equipment purchased during the year (Rs. in Lakhs)		
Others		

4.2 Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA ILS	Partially	16.11.06.000	2016

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	29704	5,87,84,435.72	641	16,07,120.59	30,345	6,03,91,556.31
Reference Books	1253	47,56,571.32	9	42,894.62	1,262	47,99,465.94
e-Books	18413	1,38,14,332.34	1,231	17,23,797.00	19,644	1,50,09,129.34
Journals[1]	NA	NA	82	7,04,214.23	82	7.04,214.23
e-Journals[1]	NA	NA	5,644	83,48,551.02	5644	83,48,551.02
Digital Database[2]	1		1	56,335.00	1	56,335.00
CD & Video[3]	3940	13,91,891.00	87		4027	
Library automation[4]	Yes	Nil	Yes	Nil	Yes	Nil
Weeding (Hard & Soft)	0	0	0	0	0	0
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.

[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 inhouse, 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

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e -

		content
Prof. Binita Desai	Introduction to Design Module: Design for Society	SWAYAM	May 2018

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (M/GBPS)	Others (Wi-fi Access Points)
Existing	1195	26	1195	4*	3			1GBPS + 20MBps	46
Added	72	2	72	0	0				54
Total	1267	28	1267	4	3			1GBPS + 20MBps	100

Note:

Total computers includes Desktops, Laptops & spares

Computer Labs includes Research Labs also

Internet available in all PCs based on authentication & request

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

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
Online Lecture delivery to remote location using video conference facility	Online 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 academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities

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)

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

	Name /Title of the scheme	Number of students	Amount in Rupees
	MYSY	255	14070000

Financial support from institution	Hon. CM Scholarship scheme	39	1950000
	Other Govt. Scholarships	12	1645000
	Tuition Fees Waiver Scheme (TFWS)	18	2436000
	DA-IICT / Rcom	63	7567000
	DA-IICT (TAship)	250	23958716

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	Amt	Perticular
14.7.17	Tushar Gadiya	Prof Anil K Roy	20,000	paper pre at Kochi
4.10.17	Trupti Padiya	Prof Minal Bhise	30,000	conf regn
25.10.17	Ronak Odhaviya	Prof A Mathuria	4,440	travel support for conf
9.1.18	Milind Shah	Prof Sanjeev Gupta	6,000	regn fee for IMaRC-2017 conf
9.1.18	Vineet Dad	Prof Sanjeev Gupta	6,000	regn fee for IMaRC-2017 conf
18.1.18	Sujata	Prof Suman Mitra	20,000	regn /travel for ICAPR 2017 conf
18.1.18	Pankaj Chaudhary	Prof D Ghodgaonkar	1,500	IMaRC 2017 conf regn
31.1.18	Rahul Vasisth	Prof D Ghodgaonkar	1,500	IMaRC 2017 conf regn
6.3.18	Kamal Captain	Prof MV Joshi	6,000	conf regn
14.3.18	Parth Mehta	Prof P Majumder	7,500	Travel exp
4.4.2018	Purvi Patel	Prof Biswajit Mishra	37,721	Publication regn charges Jun 18

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Weekly Debate Session	25/07/2018	>80	Debate Club, DA-IICT
Entelechy (Online magazine)	25/07/2018	>80	Press Club, DA-IICT
Quizzing Sessions	25/07/2018	>50	Headrush Club, DA-IICT
Remedial Classes	Mid-September	~40	Academic Committee/B Tech TAs
Student Mentorship	25/07/2018	12	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 scheme	Number of benefited students by Guidance for Competitive	Number of benefited students by Career	Number of students who have passed in the competitive	Number of students placed

		examination	Counselling activities	exam	
2018	Alumni interactive sessions	>30 (UPSC like government exams)	>100	None	327

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

NIL

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Directi	284	7	CADENCE DESIGN SYSTEMS	8	2
Amazon	331	15			
Sprinklr India Pvt LTD.	224	19			
Microsoft India Pvt Ltd	74	8			
Qualcomm	64	4			
Amazon Cloud	172	3			
ZS Associates	11	1			
Morgan Stanley	191	10			
Endurance International Group	274	1			
Logistixian Technologies	112	5			
Postman (Postdot Technologies Pvt Ltd)	154	1			
HSBC	71	7			
Mettl	10	1			
Zapr Media labs	124	2			
UpGrad Education Private Limited	8	1			
Juniper Networks pvt ltd	92	7			
GE Digital	113	5			
SAP Labs	86	4			
Service Lee Technologies Private Limited	124	7			
Verse Innovation Pvt ltd	237	9			
Innovacer Analytics Pvt ltd	72	1			
Futures First	79	3			

Factset	144	9			
Ola(ANI Technologies)	26	1			
Oracle India Private Limited	99	9			
Kivi Technologies	110	3			
Byju's	9	2			
Samsung R & D Pvt ltd	20	5			
Searce Logistics Pvt ltd	154	7			
Delhivery Private Limited	78	3			
Infosys	112	10			
IntelliMind LLC	64	1			
Educational Initiatives	164	1			
Infocusp	106	3			
Intello Labs Pvt Ltd	113	6			
Vehant Technologies Pvt Ltd	116	2			
MAQ Software Pvt Ltd	130	1			
Kuliza Technologies Private Limited	141	9			
ADSOM GLOBALTECH PVT. LTD.	17	3			
VISA	30	1			
Saba Software	92	7			
HERE Solutions	44	2			
Deloitte	174	14			
Capillary Technologies	55	1			
Evolutionary Systems Pvt. Ltd.	136	3			
COVIAM Technology & Services Pvt Ltd	133	6			
rtCamp		5			
Fractal Analytics Pvt. Ltd.	57	1			
Halftick Info Services	57	1			
Next Education India Pvt. Ltd.	49	1			
Dolcera	31	3			
Sophos	77	5			
Apttus Software	76	10			
Hansa Cequity	36	10			
Multi Commodity Exchange of India	88	2			

Ltd.					
Evive Software Analytics	33	2			
Open Silicon Reseach Pvt ltd		3			
LTI - L & T Group	18	4			
NAGARRO SOFTWARE	80	5			
UX Reactor	5	1			
ezDI	65	5			
Bit Mapper Integration Technologies Pvt. Ltd.		2			
Wishbook Infoservices	10	1			
PlexusMD	146	4			
RapidOps Solutions Pvt. Ltd.	19	4			
Sankalp Semiconductors Pvt LTD	4	1			
Infosys	112	18			
Gateway TechnoLabs	18	5			
DSC	3	1			
Ekutir	56	2			
OPSHUB	30	3			

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018	23	BTech in ICT or BTech in ICT (CS)		List attached below	

Name	Undergrad course	Finalized College	MS Course
Urmil Kadakia	ICT with CS	Stony Brook University, Stony Brook, New York State	MS in Computer Science
Rushikesh Nalla	ICT with CS	Stony Brook University, Stony Brook, New York State	MS in Computer Science
Purvik Shah	ICT with CS	Stony Brook University, Stony Brook, New York State	MS in Computer Science
Keval Shah	ICT with CS	University of Colorado Boulder, Colorado	MS in Computer Science
Kenil Shah	ICT with CS	Texas A&M University, College Station, Texas	MS in Management Information System
Anishi Mehta	ICT with CS	Georgia Tech, Atlanta, Georgia	MS in Computer Science (ML specialization)
Aalisha Dalal	ICT with CS	University of California Los Angeles, California	MS in Computer Science
Aditya Joglekar	ICT with CS	University of California Los Angeles, California	MS in Computer Science
Omkar Damle	ICT with CS	New York University Courant Institute, New York	MS in Computer Science
Smriti Sharma	ICT with CS	Carnegie Mellon University, Pittsburgh, Pennsylvania	MS in Public Policy Management: Data Analytics
Aditya Vyas	ICT with CS	Rutgers University, New Brunswick, New Jersey	MS in Data Science
Saumya Jariwala	ICT with CS	New York University Courant Institute, New York	MS in Computer Science
Vaibhav Patel	ICT with CS	University Of Arizona, Tucson, Arizona	Ph.D. in Computer Vision
Samarth Parikh	ICT	Northeastern University, Boston, Massachusetts	MS in Computer Science
Viral Pandey	ICT	Northeastern University, Boston, Massachusetts	MS in Data Science
Nandini Nerurkar	ICT	Carnegie Mellon University, Pittsburgh, Pennsylvania	MS in Information Systems Management
Khushboo Chandwani	ICT	Northeastern University, Boston, Massachusetts	MS in Computer Science
Jay Shah	ICT	Arizona State University, Tempe, Arizona	MS in Computer Science
Kamlesh Rathinam	ICT	University of Massachusetts, Lowell, Massachusetts	MS in Computer Engineering with Concentration in Machine and Artific
Malvika Singh	ICT with CS	Carnegie Mellon University, Pittsburgh, Pennsylvania	MS in Public Policy Management: Data Analytics
JOSHI TORAL JAYANTKUMAR	ICT	New Jersey Institute of Technology, New Jersey	MS in Business and Information System
SUTHAR KUNAL VINAYKUMAR	ICT	Arizona State University, Arizona	MS in Computer Science
ASHUTOSH ADHIKARI	ICT with CS	University of Waterloo, Ontario, Canada	Master of Mathematics (Computer Science) (Thesis) University

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

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	We are not collecting this data.	
SET		
SLET		
GATE		
GMAT		
CAT		
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 (Annual Sports Festival)	National	~15 Institutes

iFest (Annual Technical Festival)	National	~4000
Synapse (Annual Cultural Festival)	National	~40000
All Cultural Festivals	Institutional	All Students
Raaga (Music Competition)	Institutional	All Students
Dance Competition	Institutional	All Students
Fashion Night	Institutional	All Students
Drama Night	Institutional	All Students

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
Data for 2017-18 available on SBG Website						

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

DA-IICT has a Student Body Government (SBG) which comprises of 122 members acting as representatives to 8 committees: *Academic Committee, Cultural Committee, Hostel Management Committee, Sports Committee, Annual Festival Committee, Cafeteria Management Committee, ICT Committee and Student Placement Cell.* These members are elected through Parliamentary elections conducted by the Election Commission, DA-IICT. The members of SBG (8 committees), among them, elect Convener, Deputy Convener, Treasurer and Secretary of the SBG, known as the SBG Core Team. Apart from these committee members, there are nearly 20 hobby-driven clubs who conduct various activities for the students as a part of the SBG calendar. The SBG Core Team acts as an interface between the SBG (the student community representatives) and the Administration/Faculty. Dean (Students) is the official mentor of the SBG. SBG General Meetings are conducted regularly to discuss the happenings within campus and what work needs to be done by the SBG. This ensures smooth functioning of the SBG.

5.3 Alumni Engagement

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

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 will be 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:
Over 4000
5.3.3 Alumni contribution during the year (in Rupees) **:**
NIL
5.3.4 Meetings/activities organized by Alumni Association **:**
The first Alumni Meet after formation of the AA was organized on 19 Jan 2018. Around 60 alumni besides the batch which was there to attend the convocation attended this meet.
CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT
6.1 Institutional Vision and Leadership
6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)
In August 2017, the University Grants Commission (UGC) vide UGC (Institutions of Eminence Deemed to be Universities) Regulations, 2017 has issued policy guidelines and regulations for institutions seeking to evolve into world class teaching and research institutions called 'Institutions of Eminence (IoE). DA-IICT aspires to become an Institution of Eminence and it has been observed that the present strategic plan and its implementation process have certain deficiencies for the Institute to achieve this target. Therefore, it has been decided to review the existing strategic plan and lay down tangible actions. Normally, the formulation and/or review of strategic vision plans are carried out by the Committee of Board of Governors and such Committees thus are accountable to the Board. The Institute has consciously taken a decision to depart from this practice and instituted a Committee of internal faculty members with the Convener-ship of Prof Anish Mathuria having the mandate to involve all stake holders, i.e., faculty, staff, students and alumni in the review and preparation of s new strategic vision plan. The Committee was constituted by notification dated 13th January, 2018 and the work of the Committee is in progress.
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 under the Convenorship of Prof Maniklal Das, 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. The restructured Programs have been implemented from the academic year 2017-18. 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

We have developed two systems to administer examinations efficiently -- Question Paper Uploading System (QPUS) and Examination Schedule Generator (ESG) System. QPUS, developed by the Institute for faculty to upload question papers   has an auto-email notification feature which sends two-way communication on the actions taken on them. ESG is an automated system which helps error free preparation of examination schedule, rational utilization of examination rooms and effective invigilation.

❖   Research and Development

The institute provides financial support to each faculty and his/her research students (PG/UG) to attend conference (national or international). There is a cap of this support for a time bracket of 3 years, but so far it has been found sufficient.

Many research labs are established to take care of research interest of faculty. Submitting R&D project proposals and getting them sanctioned has been highly encouraged. Foreign collaboration projects are also highly promoted.

❖   Library, ICT and Physical Infrastructure / Instrumentation

Resource Centre (Library), implemented several quality measures and notable among them were VIVOWEB to create visibility of Institute's publications, subjects/research guides to connect resources subject-wise, Virtual Reference Shelf to provide ready reference to the users, enhanced AV collection by adding Udemy courses, conducting regular Author workshops for improving writing skills of the users and collaborating with INFLIBNET and NDLI to share this institutional knowledge with the global research community. The strengthening of ICT infrastructure supportive to teaching and research has always been a priority for the Institute and during 2017-18 the Institute acquired additional ICT resources worth over Rs.275.00 lakh. As regards physical infrastructure, 3 Lecture Theaters were renovated, set up a new engineering design laboratory, created additional 140 sq. ft. of space for start-ups, and renovated all washrooms in hostels incurring an expenditure of over Rs.650.00 lakh. The plan for a new hostel to house 240 students at an estimated cost of Rs.1050.00 lakh was also finalized.

❖   Human Resource Management

The quality improvement strategies adopted in human resources management are wide-ranging.   A unique one is involving faculty and staff in managing the affairs of the Institute by appointing them as coordinators and/or members of internal Committees which gives them a sense of ownership and commitment to the Institute. Two of the faculty members serve as members of the Governing Body of the Institute participate in decision making.   Some of the HR practices that have been augmented are professional and career development policies for faculty and staff, career planning, performance appraisal, knowledge sharing, performance guidance, sponsorship for conferences and training, funding for seed research and publications, reward and recognition. The HR practices and its impact on quality improvements are assessed through faculty and staff meetings and an online feedback collected from the students.

❖   Industry Interaction / Collaboration

The Institute interacts with 70-80 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.

❖   Admission of Students

UG/PG admissions are done and managed by an institutional committee annually. PhD admission is done twice a year. Our admission process is quite transparent. Everything is kept online including fee payment. Most of the admission processes are complying with the state government's rules and guidelines.

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

❖   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 Registration	Student Evaluation	Office Administration	Others
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

A new employee management system with features such as employee data, attendance integration and management, tax management, benefits management, asset tracking with the provision for self-service for employees was implemented. A new Identity Card (ID Card) System for faculty, staff and students have been developed and integrated to the e-campus system. The applicant for ID Card can enter the personal data in a designated platform and the applicant as well as the administrator can access the data, complete the process and print the ID Card and provide the card to the applicant within few hours.

Finance and Accounts

The Institute has a separate financial and accounting management system which integrates all financial transactions with its stake holders, i.e., employees, students, project investigators, researchers, suppliers and contactors. The budget utilization monitoring system introduced in 2017-18 enable the administrators to obtain up-to-date financial status of the Institute and project investigators the status on their sponsored research projects.

Student Admission and Support

The Institute is using an online computerized admission system designed and developed by one of its students. The system handles online submission of application form, payment of application fee, fee accounting, counselling and final admission. An online course feedback system has been implemented in 2017-18 for the students to provide their feedback on courses. A system called student service request system is now being developed for students and graduates of the Institute to request for various services from the Institute such as grade sheets, certificates and other documents and the system will have features for applicants to pay fee for services online, notification on dispatch of documents, their tracking and confirm document receipts.

Examination

The two e-governance systems are Question Paper Upload System (QPUS) and Examination Schedule Generator (ESG). QPUS is a locally configured system which allows faculty to upload the question papers pertaining to their courses. The system has auto-email notification features which sends two-way communication to faculty and Controller of Examinations on actions taken on the question papers. The QPUS permit the faculty to upload multiple question papers up to 10 files of 20 Mbs each. The QPUS auto-generates the depository of all the question papers uploaded. The Examination Schedule Generator (ESG) **has** replaced the previous method of preparation of examination schedules manually. ESG enables quick preparation and modification of schedules, utilization of examination venues rationally, avoidance of overlapping of examinations and assigning invigilators in an orderly manner.

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2017	Aditya Tatu	MMSP 2017 GLOBALSIP 2017 in Nov-17 19th IEEE Workshop on Multimedia, Canada		88500
2017	Laxminarayana Pillutla	PIMRC 2017 Conference, Indore		28841
		Conference on Wireless Networks, Singapore		28850
2018	Hemant Patil	SPCOM 2018 at IIsc,Banagalore		5835
2018		ICASSP 2018,Canada		43000
2017		PreMI 2017,Kolkata		14944
2017		EUSIPCO 2017, Istanbul		82945
2018		BCL Workshop 2018 IISC, Bangalore		7259
2017		GCCS 2017, New Delhi		9725
2018	MV Joshi	COMSNETS 2018, Bangalore		33026
2017	Amit Bhatt	Cadence Seminar,Bangalore		19340
2017	Bhaskar Chaudhury	HiPC Conference, Jaipur		1661
2017	Biswajit Mishra	IEEE-RISE 2017, Bhopal		23696

2017		VLSID Conference 2018		10800
2018		IEEE VDAD 2018, Madurai		24204
2017	Anish Mathuria	SIN'17 10th ACM International Conference		8000
2017		ICISS 17 International Conference		12250
2017		Space 2017		2400
2018	Sanjeev Gupta	IMARC 2017, Delhi		18531
2017	Saurabh Tiwari	IEEE RE 2017, Portugal		54580
2017	Shweta Garg	Conference on Women and Sectarian Violence, Central University of Gujarat, Gandhinagar		4000
2018	Manish Khare	10th ACIIDS, Vietnam		113610
2018	Madhumita Mazumdar	INTNIL Conference University International Conference, Panang-Malaysia		64911
2018	Vishvajit Pandya	INTNIL Conference University International Conference, Panang-Malaysia		64911
2018	Manish Narwaria	ACM CoDS , Goa		22342
2017	Manish Kumar Gupta	ISIT 2018 Delhi and USA		104318
2018		DNA Z4 + wZ4 2018 IEEE, Colorado, USA		101534
2017	Manoj Kumar Raut	ISDA 2017, Delhi		27600
2017	Manik Lal Das	Membership of IEEE Society	IEEE	6774
2018	Kamal Captain	COMSNETS 2018,Bangalore		8223
2017	Nachiket Trivedi	Conference Blockchain Technology, Mumbai		17100
2018		Workshop Blockchain Technology, Combatore.		6300
2017	Prasenjit Majumder	International Retrieval Conference ISI, Kolkata		11756
2017		FIRE 2017, Bangalore		13782
2018		Hildesheim, Germany University Staff Mobility Programme, Germany		26829
2017	S K Mitra	PReMI 2017, Kolkata		25823
2017	Sourish Dasgupta	Invited talk series at the university of Missourie, Kansa City, USA		174362
2017	Yash Vasavada	ICACCI Conference Manipal		20897

2017		ICACCI Conference Bhubneshwar			21991
2017		ICACCI Conference, IMaRC Conference, Bhubaneshwar			9000
2018		OFDM SIMO SPCOM 2018 at IISc, Bangalore			16729
2017	Harshul Vaishnav	SPACE 2017 Conference paper presentation, Madgaon			9614
2018	Hardik Gajera	Workshop on Blockchain, Coimbatore			8370
		Workshop at LIMOS French CNRS LAB, France			105383
2017	Ankur Pokhara	IEEE Conference, Kolkata			21823
2017	Ashutosh Adhikari	Conference on Neural Networks, Alaska, USA			30000
2017	Ronak Odhavia	10th ACM International Conference SIN '17, Jaipur			4440
2017	Sujata Chandraprakash	ICAPR Conference 2017, Bangalore			20000
2017	Mohmad Shaikh	SPCOM 2017, IISc, Bangalore			19722
2017	Pradip Tilala	TENCON Conference, Malaysia			22750
2017	Pankaj Chaudhary	IEEE Iaim-2017, Bangalore			16112
2018	Prashant Domadiya	IEEE conference on Computer Vision,Lake Tatire, USA			50000
2018	Dixita limbachiya	Conference on DNA Codes and their Application, Bangalore			7928
2018	Parth Mehta	FIRE 2017, Bangalore			8520
2018	Rahul Vasisth	IMaRC, Ahmedabad			1500
2017	Milind Shah	IMARC 2017, Ahmedabad			6000
2017	Nisith Kotak	TENCON 2017, Malaysia			22750
2017	Vineet Lad	IMARC 2017, Ahmedabad			6000
2018	Nilesh Vaishnav	SPCOM 2018, Bangalore			11000
2018	Jainisha Sankhvara	Australia ACL 2018,Australia			119334
		FIRE 2017, Bangalore			10341

6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)

teaching staff				
Nil	Nil	Nil	Nil	Nil

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
NIL		

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

DA-IICT believes that competent and committed faculty will be the foremost building block in the development of an academic institution, who would enjoy academic freedom and flexibility to create, innovate and implement new frontiers in teaching and learning, focus on research and publications, and to do all that will benefit the student body and the society at large.

For recruitment of faculty, DA-IICT follows the eligibility criteria stipulated by UGC. The recruitment advertisements are placed on the Institute's website as a rolling advertisement throughout the year. The Institute also publishes recruitment advertisements in leading newspapers, professional journals and magazines. A Faculty Search Committee comprising of internal and external experts selects candidates by a process that shortlists candidates through an initial screening process of educational background, teaching and research experience, publications etc., followed by a seminar and interview with the expert panel.

There was no new faculty member recruited during 2017-18 period (1 July 2017 to 30 June 2018).

The staff recruitments are done following the procedures of advertisement in newspapers/web site of the Institute followed by skill tests and personal interview with an expert committee. The Junior Research Fellows are recruited for a fixed term to work for sponsored projects. They are included in the staff category.

The research and administrative staff members recruited during 2017-18 is as follows:

Sr. No.	Name	Designation	Date of Joining	Status
1	Rahul Vashisth	Junior Research Fellow	01 August 2017	Contract
2	Julfikar Ahmed	Library Trainee	01 August 2017	Contract
3	Vishal Puri Goswami	Library Trainee	01 August 2017	Contract
4	Abid Fakhre	Library Trainee	08 August 2017	Contract
5	Viral Dave	Junior Research Fellow	05 September 2017	Contract
6	Dharmik Mehta	Laboratory Assistant	08 January 2018	Regular
7	Tanvi Rangwala	Consultant, Student start-ups	15 January 2018	Contract

8	Swati Priya	Junior Research Fellow	01 February 2018	Contract	
9	Nitin Gamit	Library Trainee	12 March 2018	Contract	
10	Megha Pandya	Junior Research Fellow	02 April 2018	Contract	
11	Surupendu	Junior Research Fellow	01 June 2018	Contract	
12	Sneha Thakker	Manager, Placement	25 June 2018	Regular	

Teaching		Non-teaching	
Permanent	Contract	Permanent	Contract
0	0	2	10

6.3.5 Welfare schemes for	
Teaching	Free medical consultation and medicine from campus medical centre; discounted hospitalization and medical support from a multi-speciality hospital in Gandhinagar; group medical insurance with annual coverage of Rs.5.00 lakh; accident insurance coverage; subsidised canteen; interest free loan and leave encashment on resignation/retirement.
Non teaching	Free medical consultation and medicine from campus medical centre; discounted hospitalization and medical support from a multi-speciality hospital in Gandhinagar; group medical insurance with annual coverage of Rs.5.00 lakh; accident insurance coverage; subsidised canteen; interest free loan and leave encashment on resignation/retirement.
Students	Institutional arrangements to secure financial support and scholarships; free medical consultation and medicine from campus medical centre; group medical insurance annual coverage of Rs.1.000 lakh; accident insurance coverage of Rs.00.50 lakh; discounted hospitalization and medical support from a multi-speciality hospital in Gandhinagar and subsidised canteen.

6.4 Financial Management and Resource Mobilization

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

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 2017-18.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
Nil	Nil	Nil

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

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

Not applicable

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

Nothing to report as of now.

6.5.4 Development programmes for support staff (at least three)

1. Encouraging support staff to pursue higher studies by (a) interest free loan for payment of fees; (b) rescheduling official timings to attend classes.
2. Sponsorship to participate at training programs relevant to the post the support staff is holding.
3. Permission to participate at conferences, seminars, workshops and training programs conducted by the Institute.

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

The Institute encourages and supports the administrative staff to pursue higher studies in their areas of work as well as sponsor them for higher degree/certificate studies, short term training programs, conferences, seminars and workshops. They are also permitted to participate at these events conducted at the Institute. During the reporting period, the following staff members pursued/nominated for the higher Degree/Certificate courses

1. Mr Shashikumara AA - Permission was granted to pursue Doctoral Studies in Library Science at the Central University, Gandhinagar. Also rescheduled his office timings to attend classes and granted permission to use support facilities to carry out research for his doctoral thesis.

2. Mr Rajesh Patel, Estate Engineer, Mr Kirit Pandya, Assistant Administrative Officer and Mr Jitendra Parmar, Senior Hostel Supervisor – sponsored to participate at the Certificate course on Role of Volunteers and Youth in Disaster Management at Gujarat Institute of Disaster Management, Gandhinagar.

6.5.6

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

6.5.7 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants

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
Programming Contests for HoR-Men and HoR-Women	One per semester	Residents of respective HoRs	Residents of respective HoRs

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

1. Lights on the pathways are timer operated, these turn on as per the set time. This setting of time is season specific.

2. We have water recycle plant on the campus. We use this water for gardening.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	No	
Provision for lift	No	
Ramp/ Rails	Yes	Everyone
Braille Software/facilities	No	
Rest Rooms	Yes	Everyone
Scribes for examination	Yes	Anybody who needs
Special skill development for differently abled students	Yes	Same for all
Any other similar facility	No	

7.1.4 Inclusion and Situatedness

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

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

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)
Not available		

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-------to-------)	Number of participants
Gender Sensitization Session	During Orientation of new batches	All freshers
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. Mass Cleanliness Drive in the hostels where all residents clean their rooms together.

2. Students are not allowed to have cars on campus. Only one two-wheeler is allowed per student.
3. Tree plantation organized within campus by the students.
4. Drained water from hostels, etc. is treated and used in sprinklers at various places on campus.
5. Cleanliness Drives outside the campus, where the students gather and clean their surroundings.
6. Reducing the use of plastic in the cafeteria by increasing the use of glass bottles and paper glasses for tea.

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. BTech students have to do a mandatory 1-month Rural Internship as a part of their curriculum, which exposes them to the needs of the society and they realize how the can apply their learning to help the society.
2. All the solid waste generated on campus is recycled at a vermicom post plant inside the campus.

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

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8. <u>Future Plans of action for next academic year (500 words)</u>

The delay in collating data and publishing in the IQAR would be shortened next time. This year's delay was attributed to bring all process-owners on same wavelength and to make them understand which data are important and how to track them. This took a lot of time and discussion. Now we think that the process of collection of data for this report generation is understood in a better way and we would face little difficulty in publishing the next report.

We also observed that the data collection cycle for the Annual Report of the Institute is 1 Aug to 31 July, whereas the cycle that we decided for IQAR was 1 July to 30 June. To make it operationally consistent, we will align IQAR cycle also with that of Annual Report, i.e., the next IQAR will cover the period of 1 July 2018 to 31 July 2019. And then onward IQARs will also be based on the performance/data of the period 1 Aug to 31 July.

Name Dr. Anil K. Roy   *Name Prof. K.S. Dasgupta*

Signature of the Coordinator, IQAC   Signature of the Chairperson, IQAC

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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

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For Communication with NAAC

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