

Yearly Status Report - 2018-2019

Part A				
Data of the Institution				
1. Name of the Institution	INSTITUTE OF AERONAUTICAL ENGINEERING			
Name of the head of the Institution	Dr. L V Narasimha Prasad			
Designation	Principal			
Does the Institution function from own campus	Yes			
Phone no/Alternate Phone no.	04029705852			
Mobile no.	9703618753			
Registered Email	principal@iare.ac.in			
Alternate Email	info@iare.ac.in			
Address	Institute of Aeronautical Engineering, Dundigal, Hyderabad -500043, Telangana, India.			
City/Town	Hyderabad			
State/UT	Telangana			
Pincode	500043			

2. Institutional Status				
Autonomous Status (Provide date of Co Autonomous Status)	13-Oct-2015			
Type of Institution	Co-education			
Location		Rural		
Financial Status		private		
Name of the IQAC co-ordinator/Directo	r	Dr.P Munaswa	my	
Phone no/Alternate Phone no.		04029705853		
Mobile no.		9573988829		
Registered Email		principal@ia	re.ac.in	
Alternate Email		p.munaswamy@iare.ac.in		
3. Website Address				
Web-link of the AQAR: (Previous Acad	emic Year)	<u>https://www.iare.ac.in/sites/default</u> /files/AQAR_2017-2018.pdf		
4. Whether Academic Calendar prepared during the year		Yes		
if yes,whether it is uploaded in the institutional website: Weblink :		https://www.iare.ac.in/?q=pages/iare- academic-calendar		
5. Accrediation Details				
Cvcle Grade	CGPA	Year of	Validity	
		Accrediation	Period From	Period To
1 A	3.05	2015	15-Nov-2015	31-Dec-2021
6. Date of Establishment of IQAC		10-Apr-2015		
7. Internal Quality Assurance Syste	m			

Regular meeting of Internal Quality Assurance Centre (IQAC)	04-Jun-2018 1	13
Regular meeting of Internal Quality Assurance Centre (IQAC)	01-Sep-2018 1	13
Regular meeting of Internal Quality Assurance Centre (IQAC)	07-Dec-2018 1	14
Regular meeting of Internal Quality Assurance Centre (IQAC)	25-Mar-2019 1	15
Submission of Annual Quality Assurance Report (AQAR) for Academic Year 2016-2017 and 2017-2018 to NAAC	31-Jan-2019 90	15
Feedback from all stakeholders collected, analysed and used for improvements	12-Aug-2018 4	4250
Conducted Internal Academic Audits	17-Dec-2018 6	261
Participation in National Institutional Ranking Framework (NIRF)	07-Dec-2018 30	30
Submitted e-SAR to National Board of Accreditation (NBA) for PG courses	18-Jun-2019 95	125
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

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Institution/Departmen t/Faculty	Scheme	Funding Agency		Funding Agency		Year of award with duration	Amount
Institution	Fund for Improvement of Science and Technology Infrastructure (FIST)	DST		2018 1800	4500000		
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9. Whether composition of IQAC as per latest NAAC guidelines:		Yes					
Upload latest notification of formation of IQAC		<u>View</u>	<u>File</u>				

10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<u>View File</u>
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

• With the concept of Quality initiative in teaching, college has recruited Ph.D degree holders as faculty. As of now 28 of faculty are Ph.D holders out of 261 total faculty. • Value added MOOC certificate courses (NPTEL / SWAYAM) Preplacement training programmes to enhance the level of placement. • Increase in quality of research in terms of publications and funded projects. • All Seven B.Tech programs got National Board of Accreditation (NBA)for 3 years from 30/06/2019 to 30/06/2022. • Taken initiative in promoting green energy, installed 160KW solar roof top power station LED lighting across campus to save energy.

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

Plan of Action	Achivements/Outcomes
Initiate skill development programs in up coming technologies such as AI, Blockchain and Robotics	Skill Development Programme has been initiated
Promote culture of Creativity, Innovation and Entrepreneurship amongst Students	Many awareness programmes were conducted. Students innovative projects improved.
Improve pedagogies for better teaching learning.	Upgraded ICT classrooms. Developed e- content for all courses (PPT, Lecture notes)
Rainwater Harvesting System to be installed.	Quotation has been invited for installing large-scale, improved version of Rainwater Harvesting mechanism.
Ensuring fully cashless transactions and online services for students and employees.	Institution follows a fully online mode of payments and receipts.
Identification of socio-economic problems and provide the assistancethrough Institutional Support	Through Unnat Bharath Abhiyan 5 villages were adopted and identified some problems.

	Participate in National Institutional Ranking Framework (NIRF) • Conduct and review on National ranking parameters and aim for better National ranking	Institution is ranked 139 in engineering category as per National Institutional Ranking Framework (NIRF)-2019, Ministry of Human resource Development (MHRD), Govt.of India. Institution also participated in Atal Ranking of Institutions on Innovation Achievements (ARIIA)		
Prepare and submit project proposals for external funding and collaborationwith other Research Organisations, industries and government agencies.		Various project proposals have been submitted, the details of the sanctionedprojects are given in Criteria VI & III.		
	Obtain Research Centre Recognition for CSE, ECE, Mechanical, Civil departments	Applications were submitted to JNTUH, Hyderabad.		
	Enhance MOU's and collaborations international universities / organizations for academic and research.	Institution has inked MoU's with 12 premiere universities and institutions in 9 countries for various collaborative activities including faculty as well as student exchange programs, joint research programs, symposia, workshops, internships, etc.		
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1 b	4. Whether AQAR was placed before statutory ody ?	Yes		
	Name of Statutory Body	Meeting Date		
	Name of Statutory Body Governing Body	Meeting Date 18-Sep-2019		
1 b a	Name of Statutory Body Governing Body 5. Whether NAAC/or any other accredited ody(s) visited IQAC or interacted with it to ssess the functioning ?	Meeting Date 18-sep-2019 No		
1 b a 1 A	Name of Statutory Body Governing Body 5. Whether NAAC/or any other accredited ody(s) visited IQAC or interacted with it to ssess the functioning ? 6. Whether institutional data submitted to ISHE:	Meeting Date 18-Sep-2019 No		
1 b a 1 A Y	Name of Statutory Body Governing Body 5. Whether NAAC/or any other accredited ody(s) visited IQAC or interacted with it to ssess the functioning ? 6. Whether institutional data submitted to ISHE: ear of Submission	Meeting Date 18-Sep-2019 No Yes 2019		
1 b a 1 A Y	Name of Statutory Body Governing Body 5. Whether NAAC/or any other accredited ody(s) visited IQAC or interacted with it to ssess the functioning ? 6. Whether institutional data submitted to ISHE: ear of Submission ate of Submission	Meeting Date 18-Sep-2019 No Yes 2019 05-Mar-2019		
1 b a 1 A Y D	Name of Statutory Body Governing Body 5. Whether NAAC/or any other accredited ody(s) visited IQAC or interacted with it to ssess the functioning ? 6. Whether institutional data submitted to ISHE: ear of Submission *ate of Submission 7. Does the Institution have Management formation System ?	Meeting Date 18-Sep-2019 No Yes 2019 05-Mar-2019 Yes		

the stakeholders. The Library is fully automated and digitalized. The administrative activities are fully computerized, right from the admission to the issue of Transfer Certificates. The centralized and digitalized Examination system is in practice. Some Modules of ICMS described below: • Examinations - This module takes care of the exam activities in the form of appointment of examiners, digital evaluation of answer booklets (both internal and end semester), display of answer booklets to students, and declaration of results. • Complete information management - this module manages entire information records of students, faculty and staff and is accessible anywhere anytime. Additionally, multiple targeted reports are available on hand for decision making support. • Academics -Academics activities are entirely automated. The management of classes (lecture hall, lab, seminar), courses offered (theory practical), allocation of faculty, management of academic calendar, time table creation, attendance, schedule of instructions, lesson plans, content delivery (PPT, handouts) and more. • Fees management management of various types of fees, fines, refunds, online payment and receipt management and generation of multiple type of reports as well. • Feedback Through this module all students of the institution give early semester feedback and end semester OBE feedback. Online feedback is an integral feature of evaluation of effective and efficient learning teaching practices.

C	CRITERION I – CURRICULAR ASPECTS					
1	.1 – Curriculum Design ar	nd Development				
	1.1.1 – Programmes for which syllabus revision was carried out during the Academic year					
	Name of Programme	Programme Code	Programme Specialization	Date of Revision		
	BTech	A21	Aeronautical Engineering	11/07/2018		
	BTech	A05	Computer Science and Engineering	16/07/2018		
	BTech	A12	Information Technology	09/07/2018		

Part B

BTech	A04	Electronics and Communication Engineering	10/07/2018
BTech	A02	Electrical and Electronics Engineering	09/07/2018
BTech	A03	Mechanical Engineering	11/07/2018
BTech	A01	Civil Engineering	10/07/2018
Mtech	D04	CAD/CAM	11/07/2018
Mtech	D58	Computer Science and Engineering	16/07/2018
Mtech	D55	Embedded Systems	10/07/2018
Mtech	D22	Structural Engineering	10/07/2018
MBA	E00	Master of Business Administration	17/07/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Aeronautical Engineering	16/07/2018	Basic Simulation with MAT Laboratory	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Engineering Thermodynamic	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Fluid Dynamics	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Mechanics of Solidsof Database Management Systems - ACS553	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Fluid Dynamics Laboratory	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Mechanics of Solids Laboratory	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Aerospace Structures	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Aerospace Propulsion	16/07/2018
BTech	Aeronautical Engineering	16/07/2018	Flight Mechanics	16/07/2018

BTech	Aeronaut Engineeri	ical ing	16/07/2018	Aerc	odynamics	16/07/2018
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1.2 – Academic Flexil	oility					
1.2.1 – New programm	es/courses intro	duced c	luring the Academic ye	ar		
Programme/C	Course	Pr	ogramme Specializatio	'n	Dates of	of Introduction
BTec	h		AERONAUTICAL ENGINEERING		16/07/2018	
BTec	h	(COMPUTER SCIENCE ENGINEERING	&	16/07/2018	
BTec	h	COMMU	ELECTRONICS & NICATION ENGINEE	RING	16	5/07/2018
BTec	h	ELEC	ELECTRICAL & TRONICS ENGINEER	ING	16	5/07/2018
BTec	h	ME	CHANICAL ENGINEE	RING	16	5/07/2018
BTec	h		CIVIL ENGINEERIN	ſĠ	16	5/07/2018
BTec	h	IN	FORMATION TECHNO	LOGY	16	5/07/2018
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1.2.2 – Programmes in College level during the	which Choice B Academic year.	ased Ci	redit System (CBCS)/E	lective Co	ourse System	implemented at the
Name of programm CBCS	es adopting	Pr	ogramme Specializatio	n	Date of in CBCS/Elect	nplementation of ive Course System
BTech Aeronautical Engineering			17/07/2018			
BTec	h	Co	omputer Science a Engineering	and	17	/07/2018
BTec	h	In	formation Techno	logy	17/07/2018	
BTec	h	Commu	Electronics and nication Enginee	l 17/0 ering		/07/2018
BTec	h	Elec	Electrical and tronics Engineer	ing	17	/07/2018
BTec	h	Mee	chanical Enginee:	ring	17	/07/2018
BTec	h		Civil Engineerin	g	17	//07/2018
Mtec	h		CAD/CAM		27	/08/2018
Mtec	h	Co	omputer Science a Engineering	and	27	/08/2018
Mtec	h	Embedded Systems		5	27	//08/2018
Mtec	ech		ructural Enginee:	ring	27	/08/2018
MBA		Master of Business Administration		SS	25	5/08/2018
1.3 – Curriculum Enri	chment					
1.3.1 – Value-added co	ourses imparting	transfe	rable and life skills offe	red during	g the year	
Value Added C	Courses		Date of Introduction		Number of	Students Enrolled

Material Testing	16/07/2018	132			
CNC Technologies	16/07/2018	128			
Generative Shape design using CATIA	16/07/2018	123			
Explicit Simulation with LS Dyna	16/07/2018	102			
Embedded System Design using Arduino	16/07/2018	160			
Mthematical modeling by MATLAB programming	16/07/2018	132			
Electrical machine winding design	16/07/2018	63			
Course on Solar Energy	16/07/2018	63			
Fundamentals and innovations in computers networks for cyber security	16/07/2018	158			
Design, Modeling and Simulation tools in Electronics and Communication Engineering	16/07/2018	168			
Bio-medical applications using principles and algorithms of digital signal processing	16/07/2018	177			
Recent advancements in Communication Technology	16/07/2018	200			
PEGA	16/07/2018	179			
Python for Machine Learning	16/07/2018	168			
Android Application Development	16/07/2018	173			
Deep Learning Applications	16/07/2018	170			
Ethical Hacking Cyber Security	16/07/2018	115			
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1.3.2 – Field Projects / Internships under taken during the year					
Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships			
BTech	Aeronautical Engineering	23			
BTech	Computer Science and Engineering	57			
BTech	Information Technology	26			
BTech	Electronics and	55			

	Communication Engineering	
BTech	Electrical and Electronics Engineering	43
BTech	Mechanical Engineering	29
BTech	Civil Engineering	15

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1.4 – Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Feedback is collected from all stakeholders. Feedback on faculty, for example, is collected from students at the begin and end of every semester. The feedback form is designed to incorporate depth of knowledge of the subject, presentation skills, sincerity, commitment, regularity, punctuality, syllabus coverage, ability to relate the course to real life situations, ability to generate interest, accessibility of teachers for clarifications outside the class, ability to command and control the class, and overall rating students give their feedback on faculty on the basis of 21 parameters. The feedback is analyzed by the IQAC team. In the analysis the team IQAC compare the feedback of the previous and current semester. If any improvements are called for, the matter is brought to Principal's notice. Then the Principal share the feedback with the faculty concerned and suggest necessary steps for improvement. Feedback on curriculum is collected from all stake holders, and the findings are communicated to the respective departments. Faculty members are appraised of their role in syllabus completion, based on feedback from students.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MBA	MBA	60	172	53
Mtech	Structural Engineering	24	74	20
Mtech	Mtech Embedded Systems		40	8
Mtech Computer Science and Engineering		18	39	7
Mtech	Mtech CAD/CAM		35	7
BTech	Civil	120	382	120

		Engineeri	ing								
	BTech	Mechani Engineeri	cal ing	1	.20		363	118			
	BTech	Electri and Electro Engineeri	Electrical and Electronics Engineering Electronics and Communication Engineering		.20		394	107			
	BTech	Electron and Communicat Engineeri			Electronics 240 and Communication Engineering		752		240		
	BTech	Informat Technolo	tion gy	1	.20		381	120			
	BTech	Comput Science a Engineeri	er and ing	2	240		731	240			
	BTech Aeronautic Engineering		ical ing	1	.20		367	118			
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2.2 – Catering to Student Diversity											
2	2.2.1 – Student - Ful	I time teacher ratio	o (currer	nt year data)						
	Year Number of students enrolled in the institution (UG)		Number of students enrolled in the institution (PG)		Number of fulltime teachers available in the institution teaching only UG courses		Number of fulltime teache available in th institution teaching only F courses	PG			
	2018	4443		186	22	0	25	16			
2	2.3 – Teaching - Le	arning Process									
í Ie	2.3.1 – Percentage c earning resources et	of teachers using IC c. (current year da	CT for e ta)	ffective tead	ching with L	.earning	Management S	Systems (LMS), E-			
	Number of Teachers on Roll ICT (LMS, e- Resources)		ICT T rese ava	ools and ources ailable	Number o enable Classroo	of ICT ed oms	Numberof sma classrooms	E-resources and techniques used			
	261	261		12	63	3	23	10			
		<u>View</u>	File	of ICT	Tools and	d resc	<u>ources</u>				
		<u>View Fil</u>	<u>e of</u> :	E-resour	ces and	techni	<u>ques used</u>				
4	2.3.2 – Students mei	ntoring system ava	ailable ir	the institut	ion? Give d	letails. (maximum 500 w	vords)			
	Student mentoring mentees are allo Academics • Extra meet the students rid of their person necessary. Thr Remedial Classe Remedial/Bridge Cl who have deficier	system is available otted to every facul and Co-curricular to discuss academ hal problems and th ough mentoring th s are conducted for lasses in Mathama	e in the ty. They • Partici nics as v ney can e mento or those atics and	Institution. I v monitor th pation for p vell as othe concentrate ors Identified students w d Computer	Based on th e following p lacement • r activities. e on their st d slow learn ho could no Programmi	ne stude paramet Disciplir With the udies. F ns and b t succee ing are o	nt strength in th ter of every stud he Issues During help of mentori Parents also call right students. F red in some of th conducted for La	e class around 15-20 lent • Attendance • g mentoring, mentors ing, mentees can get ed for counselling if For Slow learns: • e earlier subjects. • ateral Entry Students,			

Number of students enrolled in the institution				lumber of fulltime teachers			Mentor : Mentee Ratio					
4325			2	261				1:17				
2.4 – Teacher P	2.4 – Teacher Profile and Quality											
2.4.1 – Number	of full time te	eachers ap	pointed	during the	year							
No. of sanctic positions	oned No.	of filled po	sitions	Vacant p	ositions	Position the o	ns filled du current yea	uring ar	No. of faculty with Ph.D			
236	236 261 0 48 72											
2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)												
Year of A	Year of Award Name of fur receiving state level interna		full time ng awai el, natio nationa	time teachers Designation wards from national level, onal level		n	Name of the awar fellowship, received Government or recog bodies					
20	19		G Ra	mu	A: Pro	ssocia ofesso	sociate BRICS Y Sessor Scientes Departmen Science Technolo Governmen or		BRICS Young Scienteist Department of Science and Technology, ernmen of India			
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2.5 – Evaluatio	n Process a	and Refor	ms									
2.5.1 – Number the year	of days from	the date c	of seme	ster-end/ ye	ear- end exa	aminatio	n till the d	eclara	ation of results during			
Programme N	Programme Name Programme Code		Code	Semester/ year Last of semester/ end		Last d semes end	ate of the ter-end/ y examination	last ear- on	Date of declaration of results of semester- end/ year- end examination			
BTech	L	5		VI	:/III 23/05/		3/05/203	19	15/06/2019			
BTech	L	5		V/	/III 17/12/20		7/12/203	18	05/01/2019			
BTech	L	5		IV	7/II	23	3/05/202	19	11/06/2019			
BTech	L	5		II	I/II	17	7/12/203	18	05/01/2019			
BTech	L	5		I	II/I 2.		3/05/203	19	05/06/2019			
BTech	L	5		I	:/I	17	7/12/203	18	05/01/2019			
BTech	L	7		VII	I/IV	11	1/05/2019 15/06		15/06/2019			
BTech		7		VI	I/IV	17	7/12/20:	18	05/01/2019			
BTech	L	7		VI	/III	23	3/05/203	19	15/06/2019			
BTech		7		V/	III	17	7/12/20:	18	05/01/2019			
BTech	L	7		IV	/11	23	3/05/203	19	11/06/2019			
BTech	L	7		II	I/II	17	7/12/203	18	05/01/2019			
BTech	L	7		I	I/I	23	3/05/203	19	05/06/2019			
BTech	L	7		I	:/I	17	7/12/203	18	05/01/2019			
Mtech	L	15		I	I/I	17	7/06/20:	19	31/07/2019			
Mtech 15 I/		:/I	25	5/01/20:	19	02/03/2019						

			i	
Mtech	17	II/I	17/06/2019	31/07/2019
Mtech	17	I/I	25/01/2019	02/03/2019
Mtech	14	II/I 17/06/2019		31/07/2019
Mtech	14	I/I	25/01/2019	02/03/2019
BTech	1	VIII/IV	11/05/2019	15/06/2019
BTech	1	VII/IV	17/12/2018	05/01/2019
BTech	1	VI/III	23/05/2019	15/06/2019
BTech	1	V/III	17/12/2018	05/01/2019
BTech	1	IV/II	23/05/2019	11/06/2019
BTech	1	III/II	17/12/2018	05/01/2019
BTech	1	II/I	23/05/2019	05/06/2019
BTech	1	I/I	17/12/2018	05/01/2019
BTech	3	VIII/iv	11/05/2019	15/06/2019
BTech	3	VII/IV	17/12/2018	05/01/2019
BTech	3	VI/III	23/05/2019	15/06/2019
BTech	3	V/III	17/12/2018	05/01/2019
BTech	3	IV/II	23/05/2019	11/06/2019
BTech	3	III/II	17/12/2018	05/01/2019
BTech	3	II/I	23/05/2019	05/06/2019
BTech	3	I/I	17/12/2018	05/01/2019
BTech	2	VIII/IV	11/05/2019	15/06/2019
BTech	2	VII/IV	17/12/2018	05/01/2019
BTech	2	VI/III	20/04/2019	15/06/2019
BTech	2	V/III	08/11/2018	05/01/2019
BTech	2	IV/II	23/05/2019	11/06/2019
BTech	2	III/II	17/12/2018	05/01/2019
BTech	2	II/I	23/05/2018	05/06/2019
BTech	2	I/I	17/12/2018	05/01/2019
BTech	4	VIII/IV	11/05/2019	15/06/2019
BTech	4	VII/IV	17/12/2018	05/01/2019
BTech	4	VI/III	17/05/2019	15/06/2019
BTech	4	V/III	17/12/2018	05/01/2019
BTech	4	IV/II	23/05/2019	11/06/2019
BTech	4	III/II	17/12/2018	05/01/2019
BTech	4	II/I	23/05/2019	05/06/2019
BTech	4	I/I	17/12/2018	05/01/2019
BTech	6	VIII/IV	11/05/2019	15/06/2019
BTech	6	VII/IV	17/12/2018	05/01/2019
BTech	6	VI/III	23/05/2019	15/06/2019
BTech	6	V/III	23/11/2018	05/01/2019

BTech	6	IV	//II	2	3/05/2019	11/06/2019	
BTech	6	II	III/II 2		3/12/2018	05/01/2019	
BTech	6	I	II/I 2.		3/05/2019	05/06/2019	
BTech	б	1	I/I 1		7/12/2018	05/01/2019	
BTech	5	VIJ	[]/iv	13	L/05/2018	15/06/2019	
BTech	5	VI	I/IV	17	7/12/2018	05/01/2019	
		View	v File				
	rcentage of Student	t complaints/arievar	nces about e	valuati	on against total n	mber appeared in	
the examinations du	ring the year						
Number of compla	ints or grievances	Total number of s	tudents appe	eared	Perc	entage	
	27	3	957			0.68	
2.6 – Student Perf	ormance and Lea				<i>c</i>		
2.6.1 – Program ou institution are stated	tcomes, program sp and displayed in w	vebsite of the institu	tion (to provi	tcomes ide the	s for all programs (weblink)	offered by the	
	No I	ata Entered/N	ot Applic	able	111		
2.6.2 – Pass percer	ntage of students						
Programme Code	Programme Name	Programme Specialization	Number student appeared i final yea examinat	of ts n the ar tion	Number of students passed in final year examination	Pass Percentage	
09	MBA	MBA	54		45	83	
18	Mtech	Structural Engineering	24		20	83	
14	Mtech	CAD/CAM	10		10	100	
15	Mtech	Electronics and Communic ation Engineering	10		8	80	
17	Mtech	Computer Science and Engineering	15		11	74	
01	BTech	Civil Engineering	97		83	85	
03	BTech	Mechanical Engineering	115	5	91	79	
02	BTech	Electrical and Electronics Engineering	50		41	82	
04	BTech	Electronics and Communic ation Engineering	243	3	194	79	

06	BTech	Information Technology	49	45	91							
05	BTech	Computer Science and Engineering	219	181	82							
07	BTech	Aeronautical Engineering	109	101	92							
		<u>View</u>	<u>/ File</u>									
2.7 – Student Satis	faction Survey											
2.7.1 – Student Satis questionnaire) (result	sfaction Survey (SS ts and details be pr	SS) on overall instit ovided as weblink)	utional performanc	e (Institution may	[,] design the							
_htt iwm	tps://docs.goo ZjwaS12EuMDnc	gle.com/forms /viewform?ts=	/d/1W7UxDV-m: 5df1ed3c&edit	zbVFhZqnQJTzy requested=t	<u>rJgqVV-</u> rue							
CRITERION III – F	RESEARCH, INN	NOVATIONS AN	D EXTENSION									
3.1 – Promotion of	Research and Fa	acilities										
3.1.1 – The institutio	n provides seed m	oney to its teachers	s for research									
		Y	es									
Name of the teacher getting seed money												
	Dr. Vijay Vallabhuni											
		View	<u>/ File</u>									
3.1.2 – Teachers aw	arded National/Inte	ernational fellowshi	p for advanced stu	idies/ research du	iring the year							
Туре	Name of the te awarded th fellowship	eacher Name of t	he award Da	ite of award	Awarding agency							
National	Dr. G R	amu BRICS Scien	Young 2 Itist	9/06/2019	Department of Science andTechnology, Government of India							
		View	<u>r File</u>									
3.2 – Resource Mo	bilization for Res	search										
3.2.1 – Research fur	nds sanctioned and	I received from vari	ous agencies, ind	ustry and other or	ganisations							
Nature of the Proje	ct Duration	Name of th age	ne funding T ncy s	otal grant anctioned	Amount received during the year							
Minor Projects	730	DST, MSI	AICTE, ME	292.43	292.43							
Major	730	E	ST	52.55	52.55							

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

17

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Intellectual Property Rights	IPR Facilitation Centre	06/08/2018
Seminar on Indian Patent Regime	IPR Facilitation Centre	02/01/2018
CONCOCT-19 The Innovative Models on an Engineering Concept	Technology Innovation and Incubation Centre	30/03/2019
STUDENT INNOVATIVE PROJECT PROPOSALS-19	Technology Innovation and Incubation Centre	15/02/2019
Entrepreneurship Awareness Camp (EAC)-19	Entrepreneur Leadership Innovation Management	27/09/2018
Entrepreneurship Awareness Camp (EAC)-18	Entrepreneur Leadership Innovation Management	25/10/2018
Entrepreneurship Awareness Camp (EAC)-18	Entrepreneur Leadership Innovation Management	06/11/2018

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year									
Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category					
Mechatronics	G. Vikram Singh Tarun	SAE INDIA	17/06/2019	Student					
Plastic Die Engineering	K Bhavani Prasad Ch Kiran Pavan Kumar T Chaitanya Sai	SAE INDIA	17/06/2019	Student					
CFD Contest	A Saikumar V Rakesh	SAE INDIA	17/06/2019	Student					
Technical Paper Competition	V.Rohan	SAE INDIA	17/06/2019	Student					
Computer Aided Manufacturing Competition	Ch Madhu V. Jyothirmaye	SAE INDIA	17/06/2019	Student					
Engineering Design	K Ranadheer Y Nishit Kumar	SAE INDIA	17/06/2019	Student					
Human Powered Vehicles	V. Dharmateja Avinash Harika Keerthi Priya	SAE INDIA	17/06/2019	Student					

Modeling an Animation Competition	d S. Srika	anth	SAE	INDIA	17	7/06/2019	1	Student		
BIOMIMICRY	Yarlaga Gnanadee Thokala Har	arlagadda nanadeep ala Harshit		INDIA	17	7/06/2019	1	Student		
Aircraft Design	G.Srav Kumar	an	S Interna	AE Itional	11	L/03/2019	:	Student		
Aircraft Design	Sai Vin Sandapet	nay ta	S Interna	AE Itional	11	L/03/2019	:	Student		
Aircraft Design	Gopavaran Pradhyana I	n Sai Reddy	S Interna	AE itional	11	L/03/2019	:	Student		
Aircraft Design	Parre S Kiran	Sai	S Interna	AE tional	11	L/03/2019	:	Student		
Aircraft Design	Nikitl Rachel A	na ni	S Interna	AE Itional	11	L/03/2019	:	Student		
Aircraft Design	Venkata Charan NathMitt	Naga ta	S Interna	AE tional	11	L/03/2019	1	Student		
Aircraft Design	Tiruvedl Lakshmi Na	Tiruvedhula kshmi Naveen		AE tional	11	L/03/2019	Student			
Aircraft Design	Aircraft Jyothi Sushma Design		S Interna	SAE 11/03/2019 cernational		:	Student			
Aircraft Design	Aircraft Yekkaluru Design Dedeepya		S Interna	SAE 11/03/2019 national		L/03/2019	:	Student		
Aircraft Design	aft Engle Arthi S		S Interna	AE itional	11/03/2019		:	Student		
Aircraft Design	Doddy Aishwarya	y Rani	S Interna	AE tional	11/03/2019		i 11/03/2019 Ional		:	Student
Eighth National Leve Inter Engineering Collegiate Sports	Prem Swa	roop	Vidya Institu Techno (Anu Instit	Jyothi ute of ology urag tute)	03/04/2019		ł	Student		
			View	<u>r File</u>						
3.3.3 – No. of Incuba	ation centre create	d, start-	ups incubat	ed on camp	ous durii	ng the year				
Incubation Center	Name	Spon	sered By	Name of Start-u	f the up	Nature of Star up	t- Coi	Date of mmencement		
IPR Cell	IPR Facilitation Centre	Ma Educa Soc	aruthi ational ciety	Thinks Buildi	space ing	Virtual		30/03/2018		
-	-		-	SIC Feedba Revie	oT ack ws	Virtual	1	L7/04/2018		
-	-		-	Sun S Tech	Seas n	Physical	L	06/06/2018		
-	-		-	Build Virtual	l IT Lab	Virtual	(09/11/2018		

	-	-	-	Card Game Design and Play	Virtual	03/12/2018	
	-	-	-	E-Waste Retail Services	Virtual	19/02/2019	
	Innovation Park	Science and Technology Start-up Park	Maruthi Educational Society	Carbon2Green Solutions Pvt. Ltd.	Physical	09/01/2018	
	Incubation Units	Techonolgy Innovation and Incubation Centre	Maruthi Educational Society	Vinci Innovative Engineering	Virtual	08/02/2018	
	Incubation Unit	Makers Space for Smart Manufa cturing	Maruthi Educational Society	Jahnavi Plasto Tech	Physical	15/02/2018	
	Incubation Unit	ASPIRE Technology Business Incubation Centre	Ministry of Micro, Small and Medium Enterprise (MSME)	OSFA IT solutions	Virtual	13/03/2018	
			View	<u>v File</u>			
3	.4 – Research Pu	blications and A	wards				
_	Na	me of the Departm	ient	Num	ber of PhD's Awa	ded	
	Electi	rical and Ele Engineering	ctronics	1			
	Mech	nanical Engin	eering	2			
	Fre	eshman Engine	ering	5			
		MBA		1			
	Computer	Science and	Engineering	1			
	Info	ormation Tech	nology		1		
	Electro	nics Communic Engineering	ation and		3		
	3.4.2 – Research P	ublications in the	ournals notified on	JGC website during	the year		
	Туре		Department	Number of Public	cation Average	e Impact Factor (if any)	
	Internati	onal A Er	eronautical gineering	18		2	
	Tatomati	onal Com	puter Science	21		3	

International	Information Technology	5	3		
International	Electronics and Communication Engineering	12	2		
International	Mechanical Engineering	2	2		
International	Civil Engineering	9	1		
International	Freshman Engineering	2	1		
National	Aeronautical Engineering	13	2		
National	Computer Science and Engineering	30	2		
National	Information Technology	5	3		
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Freshman Engineering	7
Mechanical Engineering	2
Electrical and Electronics Engineering	2
Information Technology	1
Computer Science and Engineering	15

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3.4.4 - Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Bird strike protector for Aircraft Engine	Filed	311087	16/10/2018
Bracket for rectangular with circular ends Curtain Rods	Filed	311088	16/10/2018
Wall Slot Cutter	Filed	313984001	18/01/2019
Card for Playing Game	Filed	313985001	18/01/2019
Spindle hub for wheels	Published	300078	26/10/2018
Base for CNC machine	Published	299812	04/01/2019
CNC machine fixture	Published	299813	05/10/2018

Train toilet commode	Published	299903	28/06/2019
Train toilet commode	Published	299904	07/06/2019
Train sewerage tank	Published	299906	21/12/2018
Chassis for automobiles	Published	300077	18/01/2019
Device Apparatus to Detect Physical Properties and Physical Characteristics of a Cloth	Published	201841033886	21/09/2018
System and Method for Generating Electric Power to an Electric Vehicle	Published	201841031239	28/06/2019
Streetlight system and method for generating efficient energy using renewable energy sources	Published	201841031627	28/06/2019
Bird Strike Protector Blade for Aircraft Engine	Filed	311085	16/10/2018
Bird strike protector Blade cover for Aircraft Engine	Filed	311086	16/10/2018
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Concurrent synthesis of nitroge n-doped carbon dots for cell imaging and ZnO@ni trogen- doped carbon sheets for	Shanmugam M,et.al	Journal of Photoch emistry and Photob iology A: Chemistry	2018	40	Department of Chemistry, Institute of Aeronau tical Engi neering, Dundigal, Hyderabad, 500043, India	1

photocatal ytic degra dation of methylene blue Analysis of the influence of friction stir processing on gas tungsten arc welding of 2024 aluminum alloy weld zone	Devireddy K,et.al	Internat ional Journal of Mechanical and Production Engineerin g Research and Develo pment	2018	36	Department of Mechanical Engineerin g, Institute of Aeronau tical Engi neeringTel angana, India	11
High- energy green supe rcapacitor driven by ionic liquid ele ctrolytes as an ultra-high stable nex t-generati on energy storage device	Thangavel V,et.al	Journal of Power Sources	2018	33	Department of Electrical and Electr onics Engi neering, Institute of Aeronau tical Engi neering, Hyderabad, Telangana 500 043, India	0
Using normal dis tribution to retrieve temporal a ssociation s by Euclidean distance	Rajasekhar N,et.al	Proceedi ngs - 2017 Internatio nal Conference on Enginee ring and MIS, ICEMIS 2017	2018	16	Computer Science Engg Dept, Institute of Aeronau tical Engg, Hyderabad, India	0
Shifted Adaption H omomorphis m Encryption for Mobile and Cloud Learning	Krishnaiah R.V,et.al	Computers and Electrical Engineerin g	2018	15	Computer Science En gineering Department , Institute of Aeronau tical Engi neering, Hyderabad, 500043,	0

					India	
Performa nce comparison of building integrated multi- wattage ph otovoltaic generators mounted vertically and horizo ntally	Navothna B ,et.al	Proceedi ngs of the 2017 Inter national Conference On Smart Technology for Smart Nation, Sm artTechCon 2017	2018	12	Department of Electrical and Electr onics Engi neering, Institute of Aeronau tical Engi neering, Dundigal, Hyderabad, Telangana, 500 043, India	0
A Review of Research Progress on Dissimilar Laser Weld- Brazing of Automotive Applicatio ns	Krishnaja D,et.al	IOP Conference Series: Materials Science and Engine ering	2018	11	Department of Mechanical Engineerin g, Institute of Aeronau tical Engi neeringTel angana 500043, India	28
Design of UWB monopole antenna with dual notched band chara cteristics by using ï€-shaped slot and EBG resonator	Peddakri shna S,et.al	AEU - In ternationa l Journal of Electro nics and C ommunicati ons	2018	6	Department of Electro nics and C ommunicati on Enginee ring, Institute of Aeronau tical Engi neering, Hyderabad, India	0
Facile one-pot synthesis of novel structured IONP@C- HIOP composite as superior e lectrocata lyst for hydrogen	Shanmugam M ,et.al	Journal of Molecular Liquids	2018	6	Department of Chemistry, Institute of Aeronau tical Engi neering, Dundigal, Hyderabad, 500043, India	6

evolution reaction and aqueous waste inve stigation of bio- imaging ap plications Power analysis data set for 4-Bit MOCLA adder	Nehru K ,et.al	Data in Brief	2018	6	Institute of Aeronau tical Engi neering, Hyderabad,	0
					500043, India	
			<u>View File</u>			
3.4.6 – h-Index o	f the Institutiona	Publications du	ring the year. (ba	ased on Scopus/	Web of science))
Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Simulation of dielectric and impedance data using modified Lorentz equation in accordance with exper imental data on Ca 0.1Sr0.9La xBi2-xTa20 9 ceramics	Rizwana ,et.al	Ferroele ctrics	2018	2	0	Institute of Aeronau tical Engi neering
A Droop Controlled Operation of Interli nking Converters for Power Sharing in Hybrid AC/DC Subgrids	Muda H ,et.al	National Power Systems Co nference, NPSC 2018	2018	2	0	Institute of Aeronau tical Engi neering
An efficient robotic	Rao B.V,et.al	Indian Journal of Public	2018	2	0	Institute of Aeronau

process automation platform designed for the modern enterprise home using GSM and CDMA		Health Research and Develo pment				tical Engi neering
A study on medical imaging techniques with metrics and issues in security c ryptosyste m	Reddy V.P,et.al	Indian Journal of Public Health Research and Develo pment	2018	2	0	Institute of Aeronau tical Engi neering
A survey of precision medicine strategy using cognitive computing	Ramu G,et.al	Internat ional Journal of Machine Learning and Computing	2018	2	0	Institute of Aeronau tical Engi neering
Sensitiz ing effect of Yb3 ions on ph otolumines cence properties of Er3 ions in lead phosphate glasses: Optical fiber amplifiers	Depuru S.R,et.al	Optical Materials	2018	2	0	Institute of Aeronau tical Engi neering
One dime nsional two phase problem	Naresh B,et.al	Proceedi ngs of the Internatio nal Conference on Smart Systems and Inventive Technology , ICSSIT 2018	2018	2	0	Institute of Aeronau tical Engi neering

	Shannon Logic Based Novel QCA Full Adder Design with Energy Dis sipation Analysis	Kandasam N,et.al	Interna ional Journal o Theoretic l Physic	nt 2 of s	018	2	0		Institute of Aeronau tical Engi neering
	An efficient technique for energy proficient clustering based routing for packet split and merge in wireless sensor networks	Santhaia C,et.al	Indian Journal of Public Health Research and Devel pment	n 2 of 	018	2	2		Institute of Aeronau tical Engi neering
	Functional MRI Data Analysis Using Conn ectivity Strengths to Identify Cognitive States	Ramakr hna J.S,et.a	is 2018 In ernationa Conference on Advances in Computing Communica ions and nformatic , ICACCI 2018	at 2 al se s f, at I ss s	018	2	5		Institute of Aeronau tical Engi neering
				<u>View</u>	<u>v File</u>				
	3.4.7 – Faculty p	articipation ir	n Seminars/Confe	erences and	Sympos	sia during the ye	ar		
	Number of Fac	culty li	nternational	Natio	onal	State	;		Local
	Attended/ nars/Worksh	Semi nops	14		55	22	2		5
	Present papers	ed	42		2	0			0
	Resourc persons	e.	10		57	18	3		2
				View	<u>v File</u>				
3	.5 – Consultan	су							
3	3.5.1 – Revenue	generated fr	om Consultancy	during the y	/ear				
	Name of the Co departm	onsultan(s) ent	Name of cons project	ultancy	Consu	ulting/Sponsoring Agency) Ro	evenue amoun	e generated t in rupees)
	Mechar	nical	Developemn	t of 3D	MT	E Industries	3	775000	

	and Develop 2D Fabric model	he Bed Pvt.Ltd. Model Road, H ment of ation		Hyderabad	
Civil Engineer	ing Detailed investiga repor	l Soil ation t	Modi Hyd	Properties, lerabad	3021
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3.5.2 – Revenue genera	ated from Corporate Tr	aining by the	e institution	during the year	
Name of the Consultan(s) department	Title of the programme	Agency s train	seeking / hing	Revenue generate (amount in rupees	ed Number of trainees S)
Electronics and Communication Engineering	NI LabVIEW Training	Qua: Logic	lCore : Ltd	20000	20
Computer science and Engineering	RUST training and certification	Ar Info Limi	rnit tech .ted	20000	20
Computer science and Engineering	NI SDR training	Concen Tek Pvt Ltd		20000	20
Electronics and Communication Engineering	VLSI Circuit Design Using Cadence Training	Analogics Tech India Pvt Ltd		20000	20
Electronics and Communication Engineering	ARM and Embedded Software Training	Chak Infote	kilam ch Ltd	20000	20
Electrical And Electronics Engineering	PCB Design and Fabrication Centre Training	Socti Techno Pvt	ronics logies Ltd	20000	20
Computer Science and Engineering	SAP ABAP - Training	Mino Infoma Private	d Map atics Limited	20000	20
Computer science and Engineering	CCNACollabora tion Training	Great Soft	Deccan ware	20000	20
Information Technology	Internet of Things (IoT) and Applications Training	Wine Yard Technologies		20000	20
Information Technology	Hadoop Big Data and Analytics Training	Or Resea Technolo Lt	bit arch ogy Pvt d	20000	20
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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities				
Haaritha Haram	NSS, IARE	10	200				
Youth festival conducted in IARE	NSS, IARE	8	120				
Cancer awareness programme	Marri Laxman Reddy Instistute of Engineering and Management	15	75				
Blood Donation Camp	HDFC bank and Red cross society	12	90				
Blood Donation Camp	NSS, IARE	10	150				
Health Check Up for faculty	NSS, IARE	7	50				
International White cane day	NSS, IARE	8	60				
Haaritha Haram	NSS, IARE	5	100				
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Largest Student Run NGO	Best Division	Street Cause, Hyderabad	300
Blood Donation	Genereosity and Dedication	Thalaseemia Sickle Cell Society	100
0.22-inch Rifle Firing	Gold medal	NCC , Warangal	1
Best Technicial Trophy of Secunderabad unit of AP and Telangana	Best Technical Unit	NCC, Secunderabad	1
		- 1 - 2	

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

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Medical Camp	Well wishers foundation	Spoorthy Orphanage, Dundigal Medical Camp	10	20

Food Donation	Well wishers foundation	Akshaya Patra, Shamirpet, Volunteering	20	35
Say No to Plastic	Well wishers foundation	Spoorthy Orphanage, Dundigal Paper bags	15	70
Say No to Plastic	Well wishers foundation	Spoorthy Orphanage, Dundigal Paper bags	20	80
Save water	Well wishers foundation	Meeting with commissioner at khairathabad GHMC	25	50
Donation for Poor kids	Well wishers foundation	Distribution of R kits (Cloth bag, Steel tiffin box and Egg tray)	30	85
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Structural Health Monitoring using Machine Learning and Neural Networks Deployed in Edge Computing Node.	Jay Karan Telukunta	Nanyang Technological Unive rsity,Singapore	150
Impact of Corporate social responsibility on Firms Financial and Marketing performance on Indian firms.	P. Alekhya	University of Malaya, Malaysia	90
The Impact of Revamping FDI in Emerging Economy India.	E. Mounika	University of Malaya, Malaysia	90
Interface Shear of UHPC	R. Greeshma	University of Alabama, USA	90
CFD Analysis of Convection cooling used in Gas Turbine Blade	Gundavarapu Indira Lakshmi	University of Malaya, Malaysia	90
CFD Analysis of Convection cooling	Nimmala Dheeraja	University of Malaya, Malaysia	90

	used in Gas T Blade	urbine							
	Photo Real Image Synthe using SPA Algorith	istic esis DE m	G Sai Ruchith Reddy		King Mongkuts Institute of Technology Ladkrabang, Thailand		120		
	Photo Real Image Synth using SPA Algorith	istic esis DE m	Ρ	Sai Charan	King Mongkuts Institute of Technology Ladkrabang, Thailand		120		
	Classificat Skin Cancer T Deep Learn	ion of hrough ing	Ha	rdik Nahata	Nanyang Technological Unive rsity,Singapore			150	
				View	<u>v File</u>				
(fa	3.7.2 – Linkages wit acilities etc. during t	h instituti he year	ons/indus	tries for internship,	on-the- job training,	project w	vork, shari	ng of research	
	Nature of linkage	Title of the linkage		Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To		Participant	
	Internship, Sharing of Research	Aca Link	demic age	Ravindra College of Engineering for Women, Kurnool.	14/11/2018	14/1	1/2019	Faculty	
	Internship, Sharing of Research	Aca Link	demic age	Santhiram Engineering College, Nandyal.	14/11/2018	14/11/2019		Faculty	
	Internship, Sharing of Research	Academic Linkage		Shetty Institute of Technology, Gulbarga, Karnataka	14/11/2018	14/1	1/2018	Faculty	
	Internship, Sharing of Research	Academic Linkage		Sri Sai Educational Society Group of Ins titutions, Ramapuram, Kodad.	14/11/2018	14/11/2019		Faculty	
	Internship, Sharing of Research	Aca Link	demic age	SVR Engineering College, Nandyal.Sri Sai Educational Society	14/11/2018	14/1	1/2019	Faculty	

		Group of Ins titutions, Ramapuram, Kodad.			
Internship, Sharing of Research	Academic Linkage	Gandhi Academy of Technical Education , Kodad	14/11/2018	14/11/2018	Faculty
Internship, Sharing of Research	Academic Linkage	Lingaraj Appa Engineering College, Bidar Karnataka	14/11/2018	14/11/2019	Faculty
Internship, Sharing of Research	Academic Linkage	Mahaveer Institute of Science Technology, Bandlaguda, Hyderabad	14/11/2018	14/11/2019	Faculty
Internship, Sharing of Research	Internatio nal	Institute Teknologi Bandung, Indonesia	14/12/2019	31/12/2019	Faculty and Students
Internship, Sharing of Research	Internatio nal	University of Malaya, Malaysia	09/02/2019	31/12/2019	Students
Internship, Sharing of Research	Internatio nal	Center for Innovative Materials Ar chitecturesV ietnam National University, Ho Chi Minh City, Vietn, Ho Chi Minh	08/01/2019	31/12/2019	Faculty and Students
Internship, Sharing of Research	Internatio nal	Southern University and AM College, Baton Rouge, USA	04/12/2018	04/12/2019	Faculty and Students
Internship, Sharing of Research	Internatio nal	King Mongkut,s Institute of Technology, Thailand	29/10/2018	29/09/2019	Faculty and Students
Internship, Sharing of Research	Internatio nal	Nakhon Pat homRajabhat University, Thailand	16/09/2018	16/09/2019	Faculty and Students

GATE Coaching	Academic Linkage	LEAD GATE Coaching, Thirupathi	21/01/2019	21/12/2019	Faculty and Students
Internship, Sharing of Research	Industrical Linkage	Access Power Care Systems, New Bowenpally, Secbad	30/01/2019	30/12/2019	Students
Internship, Sharing of Research	Industrical Linkage	Sandhya Electrical, Chandanagar, Hyderabad	30/01/2019	30/12/2019	Students
Internship, Sharing of Research	Industrical Linkage	Bhagyanagar Electricals, Kukatpally, Hyderabad.	31/01/2019	31/12/2019	Students
Internship, Sharing of Research	Industrical Linkage	Sprint Power Techno logies, Pvt. Ltd, Hyderabad	30/01/2019	30/12/2019	Students
Internship, Sharing of Research	Industrical Linkage	MSME Tool Room Hyd, Central Institute of Tool Design, Balanagar, Hyderabad.	17/12/2018	17/12/2019	Faculty and Students
Internship, Sharing of Research	Industrical Linkage	National Small Industries Corporation Technical Services Center (NSICTSC), Hyderabad	12/12/2018	12/12/2019	Students
Internship, Sharing of Research	Industrical Linkage	Aspring Minds Assessment Pvt. Ltd, Gorgon	12/10/2018	12/10/2019	Faculty
Internship, Sharing of Research	Academic Linkage	Siva Sai Industries, Balanagar.	08/11/2018	08/11/2019	Students
Internship, Sharing of Research	Academic Linkage	Narsimha Reddy Engineering College, Mai sammaguda, Hyderabad	14/11/2018	14/11/2019	Faculty

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

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Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
King Mongkut,s Institution of Technology, Thailand	29/10/2018	 Development of Collaborative research 2. Organization of Seminar Workshop 3. Exchange of Students 4. Exchange of Research Project 5. Exchange of Faculty Members 	2
Nanyang Technological Unive rsity,Singapore	18/04/2019	 Development of Collaborative research 2. Organization of Seminars, workshops, and other meetings on Specific topics 3. Exchange of Students 4. Exchange of research Scholars 5. Exchange of research Scholar 6. Exchange of Faculty Members and any Ot 	2
University of Malaya, Kuala Lumpur, Malaysia	04/04/2019	 Development of Collaborative research 2. Organization of Seminars, workshops, and other meetings on Specific topics 3. Exchange of Students 4. Exchange of research Scholars 5. Exchange of research Scholar 6. Exchange of Faculty Members and any Ot 	4
University of Alabama, US	06/01/2019	 Development of Collaborative Research 2. Organization of Seminar Workshop and Other Meetings 	2

Nakhon PathomRajabhat University, Thailand	16/09/2019	on Specific Topics 3. Exchange of Students 4. Exchange of Research Project 5. Exchange of Faculty Members 1. Development of Collaboration Research 2. Organization of Seminar Workshop 3.	0
		Exchange of Students 4. Exchange of Research Project 5. Exchange of Faculty Members	
Southern University and AM College, Baton Rouge, USA	04/12/2019	 Faculty and Student Exchange 2. Joint Research Activities 3. Offer Joint Selected courses that involve both faculty from both institution 4. Offer Online Courses that would facilitate students registering from both Institutions 5. Cultural Exch 	0
Military College of Electronics and Mechanical Engineering, Hyderabad	22/01/2019	 Academic and intellectual, Interaction R D and Implementation of Research Outcomes in the form of Process Product or Technology 	2
Mahaveer Institution of Science Technology, Bandlaguda, Hyderabad	14/11/2019	1. To improve the teaching and learning process through programs and conduct faculty development programmers for effective implementation of outcome based education 2. To upgrade the technical knowledge by promoting research	3

						colla	aborations i areas o	n			
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С	CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES										
4.	4.1 – Physical Facilities										
4	.1.1 – Budget al	location, exc	cludii	ng salary for infra	astructu	re augm	entation during th	ne year			
Γ	Budget alloc	ated for infra	astru	icture augmentat	ion	Bu	dget utilized for i	nfrastructure de	velopment		
		5	550					549			
4	4.1.2 – Details of augmentation in infrastructure facilities during the year										
		Faci	lities				Existing	or Newly Added			
		Campu	ıs A	rea			I	Existing			
		Class	s ro	ooms			I	Existing			
		Labor	ato	ries			I	Existing			
		Semina	ar H	Ialls			I	Existing			
	Classr	cooms wit	h Lo	CD facilitie	s		Ne	wly Added			
	Seminar	halls wi	th	ICT facilit	ies		Ne	wly Added			
		Video	Cei	ntre			Ne	wly Added			
	Value c during	of the eq the year	uipı (r:	ment purchas s. in lakhs)	sed	Newly Added					
	Number purchase dur	c of impo d (Greate ing the c	rtan er t eurr	nt equipment han 1-0 lak ent year	:s h)	Newly Added					
	Class	srooms wi	th 1	Wi-Fi OR LAN	T	Newly Added					
					View	File					
4.	2 – Library as	a Learning	Res	source							
4	.2.1 – Library is	automated	(Integ	grated Library M	anagem	ent Syst	em (ILMS)}				
	Name of the softwa	e ILMS re	Nat	ure of automatio or patially)	n (fully	Version		Year of	Year of automation		
	New Ge	n lib		Fully			3		2008		
4	.2.2 – Library Se	ervices									
Γ	Library Service Type		Exist	ting		Newly	Added	То	tal		
	Text Books	54102	2	12000604	1	172	503802	55274	12504406		
	Reference Books	7139		551060	1	89	42052	7228	593112		
	e-Books	15091	1	100300		0	0	150911	100300		
	Journals	169		350143		0	350143	169	700286		
	e- Journals	224		1167900		2	1042498	226	2210398		
	Digital Database	1196		28500		0	0	1196	28500		

Library Automation	1	12500	0	12390	1	24890
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & amp; institutional (Learning Management System (LMS) etc

Name of the Module Platform on which module is developed		Date of launching e- content
IARE Go-Labs - BuildIT Contest	Linux, XIMPP server	12/07/2018
IARE Go-Labs - BuildIT Tutorials	Linux, XIMPP server	15/07/2018
IARE Go-Labs - BuildIT Flipped Classrooms	Linux, XIMPP server	12/09/2018
Proficiency Tests- Aptitude	Linux, XIMPP server	16/07/2018
Proficiency Tests- English	Linux, XIMPP server	16/08/2018
Proficiency Tests- Paragraph Writing	Linux, XIMPP server	15/05/2019
Proficiency Tests- Email Writing	Linux, XIMPP server	15/07/2018
Proficiency Tests- Story Writing	Linux, XIMPP server	15/07/2018
Dhanush -2019	Linux, XIMPP server	05/05/2019
IARE -Mobile Applications	iOS and Android	10/06/2019
	Name of the Module IARE Go-Labs - BuildIT Contest IARE Go-Labs - BuildIT Tutorials IARE Go-Labs - BuildIT Flipped Classrooms Proficiency Tests- Aptitude Proficiency Tests- English Proficiency Tests- Paragraph Writing Proficiency Tests- Email Writing Proficiency Tests- Story Writing Dhanush -2019 IARE -Mobile Applications	Name of the ModulePlatform on which module is developedIARE Go-Labs - BuildIT ContestLinux, XIMPP serverIARE Go-Labs - BuildIT TutorialsLinux, XIMPP serverIARE Go-Labs - BuildIT Flipped ClassroomsLinux, XIMPP serverProficiency Tests AptitudeLinux, XIMPP serverProficiency Tests- EnglishLinux, XIMPP serverProficiency Tests- EnglishLinux, XIMPP serverProficiency Tests- Paragraph WritingLinux, XIMPP serverProficiency Tests- Email WritingLinux, XIMPP serverProficiency Tests- Story WritingLinux, XIMPP serverDhanush -2019Linux, XIMPP serverIARE -Mobile ApplicationsiOS and Android Android

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Туре	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwidt h (MBPS/ GBPS)	Others
Existin g	1338	45	1	2	2	1	9	200	0
Added	230	5	0	2	0	0	0	200	0
Total	1568	50	1	4	2	1	9	400	0
4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)									

400 MBPS/ GBPS

4.3.3 - Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Introduction to Engineering Mechanics	https://www.youtube.com/watch?v=2AJL8Y2 IpZU
Introduction to C Language	https://www.youtube.com/watch?v=8S6 Yy8 iDx8
C Programming Language Introduction	<u>https://www.youtube.com/watch?v=6zN_n5E</u> jSrk&feature=youtu.be
Introduction to Applied Thermodynamics	https://www.youtube.com/watch?v=uowTQXA KGJU
Introduction to Prepositions	https://www.youtube.com/watch?v=_zAfReX <u>tZXM</u>
Hydrodynamic Lubrication of Bearings	<u>https://www.youtube.com/watch?v=fTEE-</u> <u>O1Bsxo</u>
Bearings (Machine design)	https://www.youtube.com/watch?v=JdMHjSt p1E8
Applied Thermodynamics Working of Engines	https://www.youtube.com/watch?v=cr00-S9 UPag
Longitudinal Applied Force Moment	https://www.youtube.com/watch?v=baUAJM7 <u>sXUw</u>
Introduction to listening skills	https://www.youtube.com/watch?v=_rtK4Hl <u>eV3E</u>
Introduction to Quantum mechanics	https://www.youtube.com/watch?v=xaxYKXC <u>Q0M4</u>
De-Broglie Hypothesis	https://www.youtube.com/watch?v=4JOsD0G j9f0
Introduction to Quantum mechanics	https://www.youtube.com/watch?v=30BXt8a X1nw
Listening Skills	https://www.youtube.com/watch?v=2tkgx8X 3Ztk
Introduction to heat transfer	https://www.youtube.com/watch?v=Aj8h_0M 77ZA
Introduction to communication skills	https://www.youtube.com/watch?v=ftsRRNh <u>Fcx4</u>

Roots finding Methods-I

Heat Transfer Introduction-I

https://www.youtube.com/watch?v=FVg64MQ iJYA

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
110	108.31	455	451.2

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)

The infrastructure pertaining to physical, academic and support facilities in the Institution are regularly maintained to ensure that they are of maximum benefit to the students as well as teaching and nonteaching staff. Laboratory: Record of maintenance account is maintained by lab in charge and supervised by HODs of the concerned departments. Other measures to maintain laboratories are as follows: • The calibration, repairing and maintenance of sophisticated lab equipment are done by the technicians of related owner enterprises. • There is systematic disposal of waste of all types chemicals and e-waste. Library: The requirement and list of books is taken from the concerned departments and HoDs are involved in the process. The finalized list of required books is duly approved and signed by the Principal. • Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment. • To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exam. • The proper account of visitors (students and staff) on daily basis is maintained. • Other issues such as weeding out of old titles, schedule of issue/ return of books etc are chalked out / resolved by the library committee. • Open access journals facilities are available. Sports: Regarding the maintenance of sports equipment the Institution deputed qualified Physical Directors. They make the play field ready for the students, by marking the ground and providing the play kits and also train the students to participate in various competitions. Computers: More funds are used to maintain computers in the college. Computer maintenance through AMC is done regularly and nonrepairable systems are disposed off. • Centralized computer laboratory established to enrich the student facilities • ICMS software is used for maintaining faculty and students details. • Each Department having appropriate computer for their requirements. • Institution is Internet and WIFI Enabled campus. Classrooms: At the departmental level, HoDs submit their requirements to the Principal regarding classroom furniture and other. The college development fund is utilized for maintenance and minor repair of furniture and other electrical equipments. • With the help of the full time sweepers cleanliness of class rooms is maintained. They are well equipped with modern tools of cleaning such as mops, gloves and vacuum cleaner. • A complaint register is maintained in office in which students as well as faculty can register their problems which are resolved within a set time frame. • Students are sensitized regarding cleanliness and motivated for energy conservation by careful use of electricity in classrooms. • There are technicians, masons, plumbers, carpenters deputed by management who ensure the maintenance of

https://www.iare.ac.in/sites/default/files/LIST%20OF%20COMMITTEES%20UPDATED.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees		
Financial Support from institution	IARE Scholarships 464 and Merit Awards		2320000		
Financial Support from Other Sources					
a) National	Prime Minister's Scholarship Scheme PMSSS	2295	107627800		
b)International	0	0	0		
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
BIG Data and Argumented Analytics	12/03/2018	309	Mrs. Kalyani.M ,P rofessor,KLUniversi ty,Hyderabad
Data science concepts and techniques with applications	02/04/2018	309	Mr T Sai Prasad ,VIT ,Vellore
Data mining information and advanced topics	22/10/2018	309	Dr.S.Santhosh,Ass ociate Professor,Vardhaman
Computer vision and facial reorganization	21/01/2018	324	Dr. T. MADHUR,BVR IT,Hyderabad
Soft skills for professional growth	12/06/2018	300	Rahul Kamble, M.A, PhD
Communicate well at work	15/10/2018	300	Marina George M.A, PGDTE, PhD
High performance teams	12/12/2018	300	Dr.Paroma Sanyal
The role of creativity in career development	21/01/2018	300	William Casson M.A, PhD
Technology Training for Placements	01/06/2018	86	ABC for Technology Training , Bangalore
Interpersonal Relationship	18/10/2018	345	Dr D Nagaraju,Softskill Trainer at Accenture

	Focus on Self Control		04/11/2018		456	Suni Pro:	Dr B D Y Sunil,Assistant Professor,IARE	
	Time Management 1		5/03/2018	478	Mr Kuma Suj Manag	Mr Manikanta Kumar,Stratagic Supply Chain Manager,Hyderabad		
				View	<u>/ File</u>			
ع ir	5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the nstitution during the year							
	Year	Name sche	of the eme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed	
	2018	Plac And Tra Dhanus	ement aining h 2018	0	620	0	558	
	2018	Tech Trainin practio a G	nical ng and ce for ATE	64	0	27	0	
	2018	Tech Trainin practio a Verba munica	nical ng and ce for al Com ation	125	0	105	0	
	2018	Sem on Ca Counse	inars reer lling	0	825	0	0	
				View	<u>r File</u>			
ع h	5.1.4 – Institutional arassment and rag	mechanis ging case	m for tran s during t	sparency, timely re he year	dressal of student	grievances, Prever	ntion of sexual	
	Total grievan	ces receiv	ved	Number of grievances redressed		Avg. number of days for grievance redressal		
		0			0	0		
5	.2 – Student Prog	gression						
Ę	5.2.1 – Details of ca	ampus pla	cement d	uring the year				
		On ca	mpus			Off campus		
	Nameof organizations visited	Numb stude partici	per of ents pated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed	
	63	6	62	579	Nill	0	0	
				<u>View</u>	<u>/ File</u>			
5	5.2.2 – Student prog	gression t	o higher e	ducation in percent	tage during the yea	r		
	Year	Numb stude	per of ents	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme	

	enrolling into higher education				admitted to
2018	1	B TECH	Aeronautical Engineering	IUBH University of Applied Sciences, Germany	MS
2018	1	B TECH	Aeronautical Engineering	Central Queensland Unviersity, Australia	MS
2018	1	B TECH	Aeronautical Engineering	Pursuing Master of Mechanical Engineering in University of British Columbia, Vancouver	MS
2018	1	B TECH	Aeronautical Engineering	Nalsar University of Law, Hyderabad	M TECH
2018	1	B TECH	Aeronautical Engineering	The University of Texas, Arlington	MS
2018	2	B TECH	Aeronautical Engineering	Victoria University, Sydney	MS
2018	1	B TECH	Aeronautical Engineering	University of Central Missouri, Missouri	MS
2018	1	B TECH	Aeronautical Engineering	JNTU, Hyderabad	M TECH
2018	1	B TECH	Aeronautical Engineering	CFD Masters Program (Online) at Skill-Lync	MS
2018	1	B TECH	Aeronautical Engineering	MRCET	M TECH
2018	1	B TECH	Aeronautical Engineering	The University of Texas, Arlington	MS
2018	1	B TECH	Aeronautical Engineering	RMIT Unversity, Australia	MS

2018	1	B TECH	Aeronautical Engineering	Masters of Business Adm inistration Internationa l Business	MBA
2018	1	B TECH	Aeronautical Engineering	Embry- Riddle Aeronautical University, Florida	MS
2018	1	B TECH	Aeronautical Engineering	NEW JERSEY INSTITUTE OF TECHNOLOGY, USA	MS
2018	1	B TECH	Aeronautical Engineering	CLEVELAND STATE UNIVER SITY,USA	MS
2018	1	B TECH	Electronics and Communic ation Engineering	GOVERNERS STATE UNIVER SITY,USA	MS
2018	1	B TECH	Electronics and Communic ation Engineering	UNIVERSITY OF MARYLAND,USA	COMMUNICAT IONS
2018	1	B TECH	Electronics and Communic ation Engineering	"BVRIT, HYDERABAD "	M TECH
2018	1	B TECH	Electronics and Communic ation Engineering	NEW JERSEY INSTITUTE OF TECHNOLOGY, USA	M TECH
2018	1	B TECH	Electronics and Communic ation Engineering	"LEAKEHEAD UNIVERSITY, CANADA "	MS
2018	1	B TECH	Electronics and Communic ation Engineering	GEORGE MASON UNIVER SITY,USA	TELECOMMUN ICATIONS
2018	1	B TECH	Electronics and Communic ation Engineering	NEW JERSEY INSTITUTE OF TECHNOLOGY, USA	TELECOMMUN ICATIONS
2018	1	B TECH		CLEVELAND	COMMUNICAT

			Electronics and Communic ation Engineering	STATE UNIVER SITY,USA	ION SYSTEMS
2018	1	B TECH	Electronics and Communic ation Engineering	"YORK UNIVERSITY, CANADA "	ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
2018	1	B TECH	Electronics and Communic ation Engineering	THE UNIVERSITY OF LIVERPOOL,UK	TELECOMMUN ICATIONS AND WIRELESS SYSTEMS
2018	1	B TECH	Electronics and Communic ation Engineering	STAFFORDSH IRE UNIVERSITY	MICROELECT RONIC SYSTEMS
2018	1	B TECH	Electronics and Communic ation Engineering	"UNIVERSITY OF STRATHCLYDE GLASGOW,UK "	MOBILE COMPUTING AND COMMUNIC ATIONS NETWORKS
2018	1	B TECH	Electronics and Communic ation Engineering	UNIVERSITY COLLEGE DUBLIN	DATA AND C OMPUTATIONAL SCIENCE
2018	1	B TECH	Electronics and Communic ation Engineering	NEW JERSEY INSTITUTE OF TECHNOLOGY, USA	TELECOMMUN ICATIONS
2018	1	B TECH	Electronics and Communic ation Engineering	UNIVERSITY OF DAYTON,USA	DIGITAL SYSTEMS
2018	1	B TECH	Electronics and Communic ation Engineering	NYENRODE BUSINESS UNI VERSITY,BREU KELEN	MBA
2018	1	B TECH	Electronics and Communic ation Engineering	"LEAKEHEAD UNIVERSITY, CANADA"	COMMUNICAT IONS AND NETWORKING
2018	1	B TECH	Computer Science and Engineering	Western Illinois university	MS(CSE)
2018	1	B TECH	Computer	Conestoga	MS(CSE)

			Science and Engineering	College,Cana da	
2018	1	B TECH	Computer Science and Engineering	university of central missouri	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	yanam university, tinslinia	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	under process (working in TCS)	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	University of Southern Queensland, Australia	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	canada lambton college toranto	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	cleveland state university	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	NYU Tandon School Of Engineering	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	Cégep De La Gaspésie Et Des Îles	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	Deakin University, Australia	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	University Of Colorado,USA	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	La Trobe U niversity,Au stralia	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	Deakin University, Australia	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	University Of Colorado,USA	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	Illinois State University	MS(CSE)
2018	1	B TECH	Computer Science and Engineering	NYU Tandon School Of Engineering	MS(CSE)
2018	1	B TECH	Computer	Deakin	MS(CSE)

				Science and Engineering	University, Australia	
	2018	1	B TECH	Computer Science and Engineering	Northeastern University	MS(CSE)
	2018	1	B TECH	Computer Science and Engineering	Montreal College of IT,Canada	MS(CSE)
	2018	1	B TECH	Computer Science and Engineering	Illinois State University	MS(CSE)
	2018	1	B TECH	Computer Science and Engineering	Deakin University, Australia	MS(CSE)
	2018	1	B TECH	Computer Science and Engineering	Kent State University	MS(CSE)
	2018	1	B TECH	Information Technology	CQ UNIVERSITY, AUSTRALIA	MS
	2018	1	B TECH	Information Technology	AMITY UNIVERSITY, DUBAI	MS
	2018	1	B TECH	Information Technology	CQ UNIVERSITY, AUSTRALIA	MS
	2018	1	B TECH	Information Technology	CQ UNIVERSITY, AUSTRALIA	MS
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ع (و	5.2.3 – Students qu eg:NET/SET/SLET/	alifying in state/ nat GATE/GMAT/CAT/	tional/ international /GRE/TOFEL/Civil \$	level examinations Services/State Gov	during the year ernment Services)	
		Items		Number of students selected/ qualifying		
		GATE			27	
		GRE		82		

Any Other	29
TOFEL	22
CAT	4
GMAT	2
GRE	82

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

Activity	Level	Number of Participants			
Badmintion (Girls) Single	Institution Level	48			
Badmintion (Boys) Doubles	Institution Level	106			

Badmintion (Boys) Single	Institution Level	56			
Volleyball (Girls)	Institution Level	84			
Volleyball (Boys)	Institution Level	96			
Basketball (Girls)	Institution Level	82			
Basketball (Boys)	Institution Level	114			
Throw ball	Institution Level	128			
Foot Ball	Institution Level	120			
Cricket	Institution Level	111			
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student	
2018	First prize	National	1	Nill	16951A05M0	G. Sushma	
2018	First prize	National	1	Nill	17951A0540	Deepak Kumar	
2018	First prize	National	1	Nill	18951A0501	K Achyuth Kumar	
2018	Second prize	National	2	Nill	18951A0529	B Tejesh Kumar	
2018	First prize	National	1	Nill	16951A04H4	Shivam Singh	
2018	First prize	National	1	Nill	18951A02A1	L Udith Raj	
2019	First prize	National	1	Nill	18951A05N1	Vipin Chandra Mouli	
2018	Third prize	National	3	Nill	16951A0361	GRahul	
2018	Third prize	National	3	Nill	16951A0307	Prem	
2018	First prize	National	1	Nill	17951A0522	Palle Arun Kumar	
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5.3.2 – Activity of Student Council & amp; representation of students on academic & amp; administrative bodies/committees of the institution (maximum 500 words)

To inculcate leadership skills, organizing skills and to also play an active part in the day to day academic and co-curricular activities of the institution, students are appointed in various academic and administrative committees. Academic Committees: 1) Class Representatives Committee Activities: Monitor on the syllabus coverage both in theory and laboratory, monitor

discipline in the class and represent any issues related to students. One Class representative and one Lady representative from each class is nominated at the beginning of each year. 2) Library Committee Activities: To give feedback on the library services periodically and represent their needs to the Library committee. One representative from each department is nominated at the beginning of each year. Administrative Committees: 1) Anti ragging Committee Activities: The student representatives in this committee take prudent steps in prevention of incidents and help the anti-ragging committee maintain the campus ragging free. Two representatives from senior students, one first year student are nominated at the beginning of each year. 2) Women Grievances Redressal Committee Activities: To enquire and address the grievances of girl students and lady staff individuals. Two students, one from senior group and one from first year are nominated at the beginning of each year. 3) Canteen Committee Activities: To give regular feedback on the cleanliness, quality and the prices of the food items provided in the canteen. One representative from each department is nominated at the beginning of each year. 4) Student Grievance Committee Activities: To represent the grievances of the students periodically to the Student Grievance Committee on the academic facilities, transportation facility, sports and games facility and any other issues related to students. One representative from each department is nominated at the beginning of each year. 5) Student chapters Activities: To register as members and participate in various professional activities conducted by the student chapter like workshops, conferences for paper presentations, specialized tests and so on. 6) Editorial Board cativities: The Editorial Board comprises of Chief Editors, Editor and Students Editors. The Board invites writing from students and teachers and publishes them in the form of College News letter. 7) Extra-Curricular Committee: This Committee is constituted to promote the cultural activities among the students. Culturally talented students are spotted by Committee members and the efforts are made to develop their skills and talents

by encouragement, right training and performances.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

This Institution has a registered Alumni Association named Institution of Aeronautical Engineering Alumni Association registered under the Telangana Societies Registration Act., 2001. The following are the activities of alumni associate. 1. Alumni association meetings are held once a year in the campus. 2. Members of Alumni are in the Boards of Studies, IQAC. 3. Alumni address the third year and fourth year students periodically towards carrier guidance. 4. Some of the Alumni have become entrepreneurs. It is a happy note that some of them recruited our own students, becoming employers. 5. Heads of departments regularly are in touch by emails with the respective alumni to receive their feedback in framing Vision, Mission, PEOs and POs. 6. At draft course structure and syllabi level some of the Alumni are involved in the finalization of syllabus The Association plans to setup guidance cell to aid the present and past students in the task of trying to give their future a definite and purposeful direction. The guidance cell, apart from assisting the placement cell, will also assist present students in availing project facilities in various industries in their area of interest.

5.4.2 - No. of registered Alumni:

4201

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

200000

5.4.4 - Meetings/activities organized by Alumni Association :

Institution of Aeronautical Engineering conducts ALUMNI Meet every year in the month of March. The event witnesses the alumni of IARE meeting at one place, sharing their experiences. The Alumni Meet is organized by the management, principal and staff of Institution of Aeronautical Engineering. More than 200 alumni attend the event every year to share their experiences with the juniors.

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)

Institution practices decentralization and participative management. The success of an institution is the result of the combined efforts of all who work towards attaining the vision of the institution. Right from the management to the staff and students, all the stakeholders have a role to play in building of the college. Their involvement and cooperation in devising and implementing decision making policies for academic and administrative affairs through various bodies and committees have contributed to the growth of the college. Institution focuses keen on decentralization by intending equal opportunity (equal role to participate is the functioning of the institution management comprises of management members, institute governing body and each committee has been provided with specific functions cater to the needs of institution for the ongoing progress and development of the institution. Management members takes case of infrastructure facilities which fulfil the quality and the required needs of the higher education bodies to reach the set goals or benchmarks of the institution. It also extends all the amenities for the teaching and nonteaching faculty and students. Institute governing body takes care of financial management and the implementation of facilities for the institution with the cries to upgrade the standard of amenities which supports effectively the teaching learning and research aspects. It guides and articulates the available resources and provides freehand to the head of the institution to carry out the activities in order To reach the expected maximum standard in turn to motivate the teaching and nonteaching faculty to work according to the goal set. The principal, heads of the departments, teaching and nonteaching staff along with class student representatives together concentrate on fostering the progress of institution by sharing the responsibilities and participate growth of institution and to act according to the aims and objectives of the institution. The following committees are formed for attaining the best overall performance of the institute in academic, cocurricular and extracurricular activities: • Disciplinary committee • Antiragging committee • Placement and Training (PAT) committee • Internal Quality Assurance Centre (IQAC) • ResearchDevelopment committee (RD) • IPR/ Patents and copy rights committee • Build IT / office automation, online services and website committee • Student Startup and business incubation centre committee • Information and communications technology committee • Infrastructure development and maintenance committee • Campus cleaning committee (campus classrooms/ labs and library) • Women harassment committee • Collegiate women's development committee • Grievances and redressal committee (faculty and staff) • Grievances and redressal committee (students) • Library committee • SC / ST committee • Sports and games committee • Cultural committee • Finance committee • Examination committee • Admission committee

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

Yes

6.2 – Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the ins	stitution for each of the following (with in 100 words each):			
Strategy Type	Details			
Teaching and Learning	 In order to ensure quality teaching Learning, Innovative teaching methods are implemented. Active Learning methods are implemented to bring innovation within classrooms. Continuous seminars/ lectures / workshops are arranged for the faculty to enable them to create a learner centric environment. • We are following OBE methodologies. To make learning more effective we have choicebased credit and grading system of examinations. We have devised new teaching pedagogies for different category of students. We ensure a perfect blend of classroom teaching ICT enabled teaching so that the students are motivated all the times. We ensure state of the art lab facilities, Computational facilities, Library also competent faculty. • Elearning is promoted through ICT, opening an NPTEL Local Chapter Continuous online assessment process called Hackathonis also introduced for assessing the students 			
Curriculum Development	 The Curriculum was discussed at various levels and then presented to the Board of Studies, which includes members from other institutes and industries. This was sent to the Academic Council for approval. • Course objectives are mapped with the course outcomes. A course end semester OBE survey is conducted at the end of every course and necessary measures are taken for improvement. The results of mid exams were mapped with course outcomes and the achievement levels are indexed. The curriculum design is based on the following • Model curriculum prescribed by AICTE • Curricular structure • Syllabus for various competitive exams like GATE, IES, etc. • Syllabus of various reputed Indian and International Universities 			
Admission of Students	 Upon recommendations of University Grants Commission (UGC), New Delhi and the State Government, Jawaharlal Nehru Technological University Hyderabad has conferred Autonomous Status to the Institution from Academic year 2016-17, whereby the College will award Degree on behalf of Jawaharlal Nehru 			

Technological University Hyderabad. Admissions to the Institution are made along with the other engineering colleges in the state through a common entrance test conducted by the Govt. of Telangana. The Eligibility Criteria for Admission to B.Tech Courses : • The minimum qualification for admission to first year of the B.Tech course is a pass in the Intermediate (10 2) conducted by the board of Intermediate education, Govt. of Telangana or any other examination recognized as equivalent thereto with Mathematics, Physics and Chemistry as optional subjects. • 70 of the seats are allotted based on the merit in the Engineering and Medical Common Entrance Test (EAMCET) conducted by Govt. of Telangana.30 of the seats are earmarked for Management / NRI candidates. In addition to the above, Diploma holders are admitted in second year of B.Tech to the extent of 20 of intake based on the merit in the Engineering Common Entrance Test (ECET), under lateral entry scheme conducted by Govt. of Telangana. The Eligibility Criteria for Admission to M.Tech Courses : • M.Tech - Aerospace Engineering: B.E / B.Tech /AMIE in Aeronautical Engineering / Mechanical Engineering and allied specilizations with valid GATE score / based on the rank obtained in the test conducted by JNTUH. • M.Tech - Computer Science Engineering: B.E./B.Tech./AMIE

in CSE/CSIT/Electronics Computers Engg. / IT Computer Science and Systems Engineering. Equivalent or MCA or M.Sc in Computer Science or equivalent with valid GATE score / based on the rank

obtained in the test conducted by JNTUH. • M.Tech - Embedded Systems: B.E

./ B.Tech/AIME in Electronics and Communications Engineering / Electrical and Electronics Engineering / Computer Science and Engineering / Information

Technology / Electronics and Instrumentation Engineering with valid GATE score / based on the rank obtained in the Test conducted by JNTUH • M.Tech

- Electrical Power Systems B.E. / B.Tech. / AMIE in Electrical

Electronics Engg. / Electrical Engg. or Equivalent with valid GATE score / based on the rank obtained in the test conducted by JNTUH. • M.Tech - Computer Aided Design / Computer Aided

	<pre>Manufacturing (CAD/CAM): B.E / B.Tech /AMIE Mechanical Engineering / Production Engineering /Manufacturing Engineering / Automobile Engineering /Aeronautical Engineering with valid GATE score / based on the rank obtained in the test conducted by JNTUH. • M.Tech - Structural Engineering: B.E. / B.Tech. / AMIE in Civil Engg. / Construction Engg. / Civil and Environmental Engg. or equivalent with valid GATE score / based on the rank obtained in the test conducted by JNTUH. The Eligibility Criteria for Admission to MBA Course: • The minimum qualification for admission to first year of the MBA is a pass in undergraduate course (10 2 3). • 70 of the seats are allotted based on the merit in the Integrated Common Entrance Test (ICET) conducted by Govt. of Telangana.30 of the seats are earmarked for Management / NRI candidates.</pre>
Industry Interaction / Collaboration	 Better interaction between Technical institutions and industry is the need of the hour. This will have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. • The IndustryInstitute Partnership Centre (IIPC) of the institute is a dedicated to promote the close interaction of industry and various departments of the institute. The IIPC facilitates consultancy, sponsored R D projects and industrial and academic trainings those are not prescribed in the syllabus in addition to conducting industrial exhibitions and interaction meets. IIPC prepares engineering students for jobs in multinational companies, by exposing them to newer technologies and engineering methodologies. This bridges the gap between industry and the academic institute. To promote Industry Institute Interaction following schemes are being undertaken • Organizing workshops, conferences and symposia with joint participation of the faculty and the industries. • Encouraging engineers from industry to visit Institution to deliver lectures. • Participation of experts from industry in curriculum development. • Arranging visits of staff members to various

	<pre>industry • Professional consultancy by the faculty to industries. • Industrial testing by faculty technicians at site or in laboratory. • Joint research programmes and field studies by faculty and people from industries. • Memoranda of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer. • B.Tech and M.Tech projects / dissertation work in industries under joint guidance of the faculty and experts from industry. • Visiting faculty/professors from industries. • Professorial Chairs sponsored by industries at the Institute. • Practical training of students in industries.</pre>
Human Resource Management	 The faculty and staff requirements are assessed based on the workload as per the AICTE norms. • Before commencement of every academic year the faculty and staff requirements are assessed, and the vacancies are advertised in leading dailies. Duly constituted selection committees recruit the faculty and staff. • A selfdevised facultyself appraisal system is followed to mentor and monitor faculty competence. • Quality enhancement measures like deputing to Faculty development programs in subject and capacity building domains etc Selfappraisal method: Faculty are required to submit their assessment through self appraisal form. The self appraisal form is studied by the Principal and the Management. The suggestions, remarks are communicated to the faculty on specific points for improvement. Staff annual increments are linked to their self appraisal form.
Library, ICT and Physical Infrastructure / Instrumentation	 Library has a modern infrastructure with a reading capacity of 500 students and 55000 volumes of books. It has subscribed to more than 180 online journals of IEEE, ASME and it is subscribing more than 156 Indian Journals Magazines in print. • Digital library with 40 systems to access Ejournals, Ebooks, Elearning, Multimedia Centre and photocopying are made available for the convenience of the users. NPTEL facility (National Programme on Technology Enhanced Learning) to access video lectures.

	Library is fully computerized with barcoding system. The institute regularly increases ICT facilities like wall mount television, Cameras, LCD Projectors, for all classrooms, tutorial rooms and Laboratories. Classrooms equipped with audio system, WiFi facility and wired internet/ network facility, each department is provided Laptops for faculty usage in
Research and Development	• The Institute has established Research Development Centre at the Institution level topromote Research Innovation among the faculty student. • The institution facilitates faculty participation in research by granting leave and providing financial assistance for attending seminars, conferences, FDPs etc. Adequate infrastructure like wellequipped laboratory, computing facilities and library are made available to carry out research. • Research incentives and awards to members of faculty for publishing in reputed and high impact factor journals. • Conducting research meetings on weekly basis to facilitate interdisciplinary research. • Members of faculty mentoring students to transform innovative ideas into products Our faculty invariably gets minor and major research grants from AICTE, DST, UGC every year. We have 10 patents from our faculty and students. Our faculty has published books from reputed publishing houses like Wiley ,
Examination and Evaluation	 The Institute strictly follows examination and evaluation schedule. The examination and evaluation schedule is mentioned in the academic calendar. Automation of the Controller of Examination (COE) office to ensure timely Conducting the Continuous Internal Examinations (CIE) and Semester End Examinations (SEE).Processing and publishing results in time. Issuing certificates such as Grade Sheet, Consolidated Statements of Grade, Provisional Certificate and Transcripts. Sending a list of successful candidates with their Cumulative Grade Point Average (CGPA) to the Jawaharlal Nehru Technological University Hyderabad, Hyderabad for issuing Original Degree Certificate. Evaluation of marks comprises internal

marks obtained from continuous assessment and external marks secured in End semester examination. The final grade is determined by considering marks obtained both in internal examination and end semester examination.

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

E-governace area	Details
Finance and Accounts	• With the aim to produce immediate information in finance and Accounts, this section is partiallye governed. The Institute uses the, ICMS, Tally for the transparent functioning of Accounts department. The same software is used to generate various reports
Student Admission and Support	 Student admission for the year 20182019 is partially implemented online. The ICMS software is developed so as to fulfil the need of Student admission and Support. The software is also used for student support like issuing • Transfer Certificate • Bonafide certificates • Admission Forms Receipt for payment • Examination
Examination	 Online Mark Entry System for Internal and External examinations • Hall Ticket with Student Photos • Bar code system for coding and decoding of scripts • The college publishes the Rules and Regulations for all programs. In addition to the academic rules and regulations, the regulations governing examination, evaluation and mal practices etc., have been manifested. A comprehensive (up dated) examination manual is in place. • The college conducts regular orientation and awareness programs to bring awareness about the Rules and Regulations. • Online Registrations for Institution Electives. • All answer papers of end semester examinations undergo double valuation including by an external evaluator • Answer sheets are subjected to third evaluation by another examiner, if there are undue discrepancies noted in the double evaluation and personal identification ? Some of the other noteworthy reforms in examinations:- o Computerization of mark sheet printing and Transfer Certificate o Photographs are also captured and put in database at the time of enrolment.

Planning and Development	• To use ICT in the process of planning instituteevents and activities, institute uses personal emails. Important notices and reports are also circulated via emails, faculty bulletin board, telegram. Egovernance is the integration of Information and Communication Technology in all the working processes of the system. It aims to minimize the manual efforts and improve the communication, create transparent system, and to be cost and time effective. To facilitate the same Institute is using ICMS software with Student, Examination, Finance Account, Employee, Library Modules.
Administration	 The Institute has Biometric attendance for teaching and nonteachingstaff. The campus is equipped with 200 CCTV Cameras installed at various places ofneed. To surveillance on mobile by Principal, software is available for surveillance on computer for collegeAuthorities. ICT has been introduced in the Administrativework. Telegram Group helps to provide the brief notices of any event to be happened oncollege. Telegram Groups are also used for awareness and of smooth functioning of thesame.

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
2018	Dr.KHari Prasad	Electrospun nanocomposite polymer fibrous membrane electrolyte for DSSC application	International Workshop on Advanced Materials 2017	14000
2018	Dr.K Hari Prasad	Structural and electrical conductivity studies of LiMnBO3 nanoparticles	IWAM 2017	14000
2019	Dr.J Sirisha Devi	A Novel Approach for Sentiment Analysis of	International Conference Innovations in Computer	18000

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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for eaching and non teaching staff during the year									
Year	Title profe deve prog orgar teach	e of the essional lopment ramme nised for ing staff	Title of the administrativ training programme organised fo non-teaching staff	From date From date		To Date	Numbe participa (Teach staff)	r of ants ing)	Number of participants (non-teaching staff)
2018	Arti Inte ce Mac Lear	ficial lligen and chine rning.	-	29/04/2019	04	/05/2019	52	2	Nill
2018	Rası pi pyth	oberry with on-IoT	-	16/01/2019	19	/01/2019	67	7	Nill
2018	Di lea thr web clou	igital rning cough o and d apps	-	26/07/2019	27	/07/2019	84	1	Nill
6.3.3 – No. of tea Course, Short Te	achers rm Cou	attending ırse, Facu	professional o	development progr ent Programmes d	amn uring	nes, viz., Orie g the year	ntation Pr	ogram	nme, Refresher
Title of the professiona developmen programme	e al nt e	Number who a	of teachers attended	From Date		To dat	te		Duration
FDPon "D Science and engineeri Applicatic using Pyth	ata its ng ons non		18	29/04/2018	8	04/05/	/2018		6
FDP on "Raspberry pi with python- IoT"		8	16/01/2019	9	19/01/	/2019		4	
FDP or "Digital learning through web cloud app	n l g and s"		9	26/07/2019	9	27/07/	/2019		2
IOT application green ener system	n in rgy		17	27/04/2018	8	03/05/	/2018		7

	A Three day National Level workshop on Teaching, Learning and Evaluation online with MoodleMOOC Platform Open Education Resources	1 26/02/2019 28/02/201 1 1 26/02/2019 28/02/201		3/02/2019	3				
				View	<u>/ File</u>				
(6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):								
		Teaching					Non-teach	ling	
	Permanent		Full Tim	ie	Pei	rmanen	t	Full Time	
	243		243	3		170		170	
ſ	3.3.5 – Welfare scheme	s for							
	Teaching	J		Non-tea	aching		Students		
6	• Group Ins Policy • Uniform supporting s Advance to meet expenditure • F aid to educa children of su staff Transpo	surance ns for the taff • emergency financial te the pportive rtation	ince • Group Insurance for the Policy • Uniforms for the Strain f • supporting staff • argency Advance to meet emergency con- incial expenditure • Financial strain the aid to educate the rtive children of supportive tion staff Transportation pro- generation pro- tion backform of the strain of the strain of the staff strain of the strain of t		• Student fee concessi student cultu insti Organi program year s matte acade discipl	<pre>Student Welfare Fund for fee waivers and concession. • Conduct of student initiated techno cultural events at institute level. • Organize orientation programs for the first year students on all matters relating to academics, student discipline and services</pre>			
(6.4.1 – Institution condu	ucts internal and	d extern	al financial a	audits regul	arly (wit	h in 100 wor	ds each)	
	Finance Committee prepares the Annual budget proposals for the College and budget estimates based on the revenue received from student fees and other grants to meet the requirements. Additional grants required if any, based on revised budget estimates are sought from the management. The accounts audited regularly, and the audited statements are submitted for the approval of the Governing Body.The institute regularly conducts internal and external financial audits. The Accounts Department since inception to ensure maintenance of annual accounts and audits.								
е У	5.4.2 – Funds / Grants r ear(not covered in Crite	received from m erion III)	nanager	nent, non-ge	overnment l	bodies,	individuals, p	bhilanthropies during the	
	Name of the non go funding agencies /i	overnment individuals	Fun	ids/ Grnats r	eceived in l	Rs.		Purpose	
	Tata Consu Service	ltancy s		155	0000		Utiliz Resour Ex	ation of Physical ces for Online caminations	
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6.4.3 - Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	Exte	rnal	Inte	rnal
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Audit committee formed by the Department involving external academicians (At least two	Yes	Institute of Aeronautical Engineering
Administrative	Yes	Audit committee formed by the Department involving external academicians (At least two	Yes	Institute of Aeronautical Engineering

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

Parents Meet was conducted on 17thMarch, 2019. More than 400 parents attended the programme and interacted with the respective Student Counsellors and HODs.
To foster and promote good relationship among the members of the teaching staff, students and parents/guardians, Parent Teacher Meetings are organized from time to time in the college where in parents are informed about their wards' academic performance and attendance records. Feedback from parents as well as from students is taken.
Academic performance of the students. Discussion on discipline and ethical values followed by students and given suggestions for the improvement of the same

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

 Training programs are conducted on regular basis either by the faculty of by the technical people from the equipment / instruments suppliers to upgrade their skills in handling and maintaining them in laboratories.
 Basic computer training is provided to the supporting staff. It enables the staff to effectively use the computer for various departmental works.
 Staff members are encouraged to pursue higher education and short term courses for knowledge upgradation. Financial support is given for acquiring higher qualification.
 Providing ESI, EPF facilities for supporting staff members.

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

 The College is accredited by National Board of Accreditation NBA, New Delhi for all seven branches of Engineering from 30/06/2019 to 30/06/2022 • Institute is ranked 139 in Engineering category as per National Institutional Ranking Framework (NIRF) 2019, Ministry of Human Resource Development (MHRD), Govt. of India. • Strengthen ICT infrastructure online learning resources • Launching of incubation and RD Centre • Teachers are encouraged to engaged themselves in various researchoriented Activities • The office of international affairs came into existence in 2018 and acts as a bridge between the Institute of Aeronautical Engineering and the world. Within 1 year since its inception, the office has inked MoU's with 12 premiere universities and institutions in 9 countries for various collaborative activities including faculty as well as student exchange programs, joint research programs, symposia, workshops, internships, etc. The institute works relentlessly to promote global engagement to meet world class standards of education.

6.5.5 - Internal Quality Assurance System Details

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

6.5.6 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Regular meeting of Internal Quality Assurance Centre (IQAC)	04/06/2018	04/06/2018	04/06/2018	13
2018	Regular meeting of Internal Quality Assurance Centre (IQAC)	01/09/2018	01/09/2018	01/09/2018	13
2018	Regular meeting of Internal Quality Assurance Centre (IQAC)	07/12/2018	07/12/2018	07/12/2018	13
2019	Regular meeting of Internal Quality Assurance Centre (IQAC)	25/03/2019	25/03/2019	25/03/2019	15
2019	Submission of Annual Quality Assurance Report (AQAR) for Academic Year 20162017 and	31/01/2019	31/01/2019	31/01/2019	12

	20172018 to NAAC							
2019	Feedback from all stakeholders collected, analysed and used for improvements	31/	07/2019	07/08/2019 22/12/2018		07/08/201	9 4252	
2019	Conducted Internal Academic Audits	17/	12/2018			22/12/201	8 261	
2018	Participat ion in NIRF19	30/	0/11/2018 30/		2018	30/11/201	8 15	
2019	Submitted eSAR to National Board of Acc reditation (NBA) for PG courses	18/	06/2019	019 18/06/2018 018 30/06/2018		18/06/201	8 82	
2019	Performance Based Apprai salSystem	01/	07/2018			30/06/201	8 261	
			<u>View</u>	<u>File</u>				
CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES								
7.1 – Institutional	Values and Socia	l Respo	onsibilities	5				
7.1.1 – Gender Equ year)	ity (Number of geno	der equi	ty promotio	n programm	nes orga	nized by the ins	titution during the	
Title of the programme	Period from	m	Perio	d To		Number of Pa	articipants	
				F		emale	Male	
Art of Min Control	d 24/02/2	019	24/02/2019		80		45	
Awareness Program on Women Safety and Respect	07/08/2	07/08/2018		07/08/2018		52	65	
Seminar or Bodies that Matter: The Ideology of Gender	n 14/09/2	14/09/2018		15/09/2018		148	58	
YOGA for Successful li	17/02/2 fe	019	17/02	2/2019	45		64	
Gender Sensitizatio	n 23/02/2	23/02/2019		23/02/2019		201	49	

	Heartful Meditati	lness ion	26/02/2	019	26/0	2/2019		60		75	
	Univer Human Val	sal Lues	27/02/2	019	27/0	02/2019		150		100	
	Wome Scienti Program - Scheme awarene	n st DST s ss	27/07/2	019	27/0	27/07/2019		34		1	
	Awarenes Women Sch	ss on emes	22/10/2	019	22/1	0/2019		28		2	
7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:											
	Pe	ercentage of p	ower requ	iremen	t of the Univ	versity met b	y the re	enewable	energy source	S	
	Altern renewable	native Ene energy so / Tota	rgy Ini urces 6 al power	tiati 6 (Po 7 requ	ves perco wer requi lirement)	entage of irement m x 100 (powe newt 1 315/4	er requ by renew 75) x 1	irements m wable ener .00 66	et by gy source	
-	7.1.3 – Differen	tly abled (Divy	/angjan) f	riendline	ess			-			
	lte	m facilities			Yes	/No		Nu	mber of benef	iciaries	
	Physic	al facili	ties		Y	es.			10		
	Provi	sion for l	ift		Y	les			40		
	R	amp/Rails			Y	es		25			
	Softwar	Braille re/facilit:	ies	No			0				
	R	est Rooms			Y	es			25		
	Scribes	for examin	nation		Y	les			5		
	Spe devel differ s	ecial skill copment for cently able tudents	l r ed		Yes		2				
-	7.1.4 – Inclusio	n and Situated	dness								
	Year	Number of initiatives to address locational advantages and disadva ntages	Number initiative taken t engage v and contribute local commur	of es o vith e to nity	Date	Duration	N: in	ame of itiative	Issues addressed	Number of participating students and staff	
	2018	15	2		27/12/2 018	12	S Fa: R Com	cience ir for ural munity	Lack of Technolog y, Poor I nfrastrcu tre,Probl em solving approach and devel oping the appropria	250	

						te techno					
						logies					
			<u>Vi</u> e	<u>ew File</u>							
-	7.1.5 – Human Values and Professional Ethics										
	Title		Date of	publication	Fol	Follow up(max 100 words)					
	Title Student Handbook		01/	07/2018	adu induct st handl deta: miss: pro diffe wit conduc acad asse exami info facil a insti is gi rules nonad miscon Disc:	At the time of admission or during induction programme every student is given a handbook which provides details like vision and mission of the college, program outcomes for different programs along with general code of conduct for the students, academic delivery and assessment procedures, examination regulations, information on various facilities and amenities available in the institution. The student is given instructions on rules to be followed and consequences of nonadherence to rules or misconduct of any nature.					
	Activities conducted t	or promoti	ion of universal V	alues and Ethic	I S						
┢	Activity	Du	Iration From Duration To		ion To	Number of participants					
	Professional Ethics and Human Values Course	1	9/12/2018	26/0	4/2019	1155					

7.2.1 – Describe at least two institutional best practices

Integrated with the Curriculum with the designed syllabus

7.2 – Best Practices

Best Practice - I 1. Title of the Practice: Promotion of Research Research is the major component of Higher Education. It widens the intellectual perspective of both the staff and the students. The mental caliber of an individual is adjudged by the contribution made by him/ her to research. The research achievement of both the teachers and the students is the most important factor that determines the rank of the institutions. Generation of new knowledge and the expansion of the existing knowledge pave way for the progress of the

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• Energy Conservation • Use of Renewable Energy • Waste Management • Water Conservation and Management

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

country in the world arena as the economic development of any country depends

solely on research. IARE vies with other institutions in providing opportunities, creating and augmenting infrastructure facilities encouraging and supporting staff and students to launch on research projects. 2. Objectives of the Practice • To keep pace with the relentless wheel of change and update the intellectual calibre of the faculty. • To encourage the faculty to pursue Ph.D. • To acquire guide ship to produce more research scholars. • To motivate the faculty to apply for the major and minor research projects by providing guidelines and details of funding agencies. • To fulfill the requirements to promote the research departments into research centres. • To collaborate with other institutions and universities in and abroad. • To arrange for interface among the institutions, industries and the public to take up research projects relevant for the present day. • To encourage the faculty and the students to organize and present research papers in the national/ international seminars/ conferences/ workshops. • To publish quality research articles in reputed journals, edit study materials for the prescribed syllabus and author books of high originality. • To provide seed money for research activities. 3. The Context Being aware of the need of research in Higher Educational Institutions,

the Institute has multiplied the required infrastructure facilities for research in the Institute. The college is supported by DST FIST from the academic year 201819 to enhance the research activities. • All Departments have been provided with laboratories filled with advanced High Tech equipment. • The number of books required for research has been added to the library stock. • The research section in the library displays the copes of dissertations, theses and project reports of the scholars. • Easy access is made to net facility in the Library and departments. • Staff and students are encouraged to organise/ attend and present papers in the research oriented conferences/ seminars within and out of the Institute and publish research papers in peer reviewed journals with high impact factor. • Lack of interest to take up research. • Lack of time

on the part of the teachers who are bent on improving the academic standard of the first generation learners. • Reluctance to learn and use modern technological devices for research. 4. The Practice The Research committee has created a research environment at the Institute through Research Forum. It has provided a platform for the Ph.D. Research Scholars to make the presentation of their findings in the Research forum. The views and comments offered by the Principal, the Guides of the Research Scholars, the other teachers and peers have instilled in them confidence to focus on their research. • The institution motivates the faculty to do research for Ph.D. The Institute encourages the teachers to undertake Major and Minor Research Projects funded by AICTE, UGC, DST or other agencies. Support facilities for research • Leave is sanctioned to the staff who are on the verge of completing their research work. • Special Permission and Leave are given on request to visit to various universities and libraries for data collection. • The management motivates the staff to go to the educational institutions in other countries for paper presentation by procuring travel grant from the AICTE. • MoUs is formed with International Universities, to promote teaching, learning and research. • The management extends financial assistance to the selffinanced faculty who make research publications in the journals with high impact factor. 5. Problems faced in the pursuit of research • The gap between academia and industries is not fully bridged to fulfil the needs of industries due to lack of time for the internship of the students in the industries. • Getting funds from various funding agencies is a challenge to the staff and the students. • The period of handson training in the industries is inadequate to address challenges faced in the job market. • Field Research is planned to be undertaken in Extension Programme to solve real life problems. • The students and the teachers have to be encouraged to take up Interdisciplinary and socioeconomic developmental research. • Ph.D. holders can be motivated to publicize their research in the form of books. 6. Evidence of Success • 72 faculty with Ph.D • 234.45 Lakh

amount sanctioned towards Major and Minor Research Projects from various agencies • 24 State/National Level Seminars /Workshops were organized by the Departments and IQAC. • 163 staff have published 221 papers in the National and International Journals and conferences. • patents filed 9 patents published, 5patents granted in2018. • Eighteen staff members published 20 books. • 40 students have published 29 papers in the Journals and 16 students have presented 12 papers in the Conferences. • 22 staff acted as resource persons and enriched others with their expertise in their subjects. Best Practice II: 1. Title of the Practice : Integration of Information and Communication Technology (ICT) resources into Classroom teaching The Information and Communication Technology to be precise has become a driving force behind economic growth and a developmental tool as well. ICT is an extended term for Information technology which is a technological source to make information available at the right time, right place in the right form to the right user. Earlier, one had to wait for the newspapers to get the information across the world. Now with the smarter technology, information can be accessed from anywhere using smart phones and gadgets. All this is made possible with the help of Information and Communication Technology. Information technology has been influencing our lives in the recent years in the fields of education, healthcare, and business. Going an extra mile, Information and communication technology in Institution has had a major impact. 2. Objectives of ICT implementation in education: • To implement the principle of lifelong learning / education. • To increase a variety of educational services and medium / method. • To develop a system of collecting and disseminating educational information. • To promote technology literacy of all citizens, especially for students • To promote the culture of learning at institution (development of learning skills, expansion of optional education, open source of education, etc.) • To support Institution in sharing experience and information with others. 3. The Context In this technological era, ICT in education has compelled many higher education institutions to get accustomed to smart technology. This communication software uses computers, the internet, and multimedia as the medium of communication which helps the students for an advanced learning by using the specific instructional strategies and techniques.ICT Encourages participatory learning and student centric learning wherein the mode, technique/method and the pace of learning are decided by the students. Some of the instructional strategies of ICT are mentioned here under: Computer based learning, Internet, Classroom Learning, Video conferencing 4. The Practice: ICT facilities are adequately available in the institution for academic purposes. There are well equipped computer laboratories in the institution. The departments have their own computer facilities along with printers. Apart from computer facilities in the departments, Digital library facility is also there. Computers having internet connection facilities. 4000 MBPS leased line for internet access is extended to the entire campus. Campus networking is with Fibre Optic cables. Classrooms are equipped with audio visual aids to cater to the needs of the students. ICT Infrastructure: The ICT infrastructure includes Facilities for elearning, econtent development, Digital Library. WiFi internet availability and a good number of Workstations and LCDs. The institution has introduced NPTEL massive online open courses by using ICT aids for some courses like IOT, Python Programming. 5. Evidence of Success: Students would be able to know and understand practically how IOT (Internet of Things) with Raspberry Pi works. For example Students can work on their academic projects on IOT like Smart dustbins, Smart water level equipment etc., Students of Under Graduate engineering are encouraged to do specific projects with the help of IOT Like Online Temperature Measurement for characterizing heat transfer enhancers, impact energy measurements for calibrating force transducers. Some of the IOT based projects done by the Engineering students are: • Automated Street Light Management System • Ultrasonic Laser enabled visually impaired guiding system • Smart Helmet • Smart Parking system •

Automatic Plant watering by soil moistening detection • College Bus parking system • Hybrid Power generation system 6. Problems encountered and resources required: One significant problem student are faced with is disconnectivity (connectivity may be missed out) due to Power

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

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

As a part of vision and mission of our college to produce innovative research that emboldens entrepreneurship industryready students. The Institute of Aeronautical Engineering is devoted to enhancing knowledge through research across all academic disciplines. Focus areas include Nanotechnology, Environment, Aerospace and Dynamics, CAD/CAM, CNC Machining, Embedded Systems and Low Power VLSI Digital System Design. Emphasis is also being laid on Business Analytics, Big Data, Cloud Computing, Wireless technology and Multimedia for video, text processing and Next Generation Networks. The Institution has to its credit, over 600 research publications in Scopus indexed International Journals, National Journals, International Conferences and National Conferences. 30 Patents have been filed / granted to faculty and students. Got research grant sanctioned Rs. 21.39 crores through 14 Research projects, 23 research schemes from DST, UGC, AICTE and other Government agencies. The Institute of Aeronautical Engineering runs a Science Technology StartUp Park (STSP), a technology business incubator facility to support startups in the areas of information technology, electronics and mechanical engineering enabling Smart Manufacturing via the Make in India Initiative. It aims at offering students with innovative ideas and an opportunity to become entrepreneurs. Promising candidates, who have exciting ideas, can start right from the first year. STSP functions in association with the Ministry of Micro, Small Medium Enterprises, the Confederation of Indian Industry, National Entrepreneurship Network, Ministry of Skill Development Entrepreneurship, PMC IEDC, ITCOT, EDI, SIDCO and TIIC. We have signed an agreement with 16 corporate houses to facilitate incubation of ideas. Better interaction between Technical institutions and industry is the need of the hour. This will have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. The Industry Institute Partnership Centre (IIPC) of the institute is a dedicated to promote the close interaction of industry and various departments of the institute. The IIPC facilitates consultancy, sponsored RD projects and industrial and academic trainings those are not prescribed in the syllabus in addition to conducting industrial exhibitions and interaction meets. IIPC prepares engineering students for jobs in multinational companies, by exposing them to newer technologies and engineering methodologies. This bridges the gap between industry and the academic institute. Institute of Aeronautical IAREBI is an initiative supported by Maruthi Educational Society and MTE Industries, Hyderabad. It aims to nurture technology and knowledge based entrepreneur's right from ideation stage to starting a business venture. The incubation centre will focus (not limited to) on working with the startups in the areas of: • Smart Manufacturing • Rapid Prototyping • Composite material • Embedded Systems • Internet of Things • Agriculture • Smart Grid • Instrumentation and Sensors • Avionics The Ministry of Micro, Small and Medium Enterprises has sanctioned a grant of Rs. 96.5 lakh towards plant and machinery for various innovative projects developed by the students attached to the Technology Innovation and Incubation Centre of the

Institute of Aeronautical Engineering. The funds have been sanctioned under the MSME's support for entrepreneurial and

Provide the weblink of the institution

https://www.iare.ac.in/?g=basicpage/student-start-and-innovation

8. Future Plans of Actions for Next Academic Year

To be one among 150 NIRF ranked institutions. • Center for Creative Writing and Language Sciences Collaboration with University of Columbia • Technology Transfer Center for Rural Area Innovations • Incubator and Knowledge Park - Major Boost to Patenting and Startups • Seamless Connected Classrooms Knowledge and Resource Sharing and Inter University Collaborative Research • AERONET station at IARE (MoU with NRSA for Aerosol Robotic Network and Lightening) • Advanced Climate Research Laboratory (MoU with ISRO, Govt. of India) • Leadership in Energy and Environmental Design (LEED) Green Campus Certification • Improve Quality of research and attract more funding from agencies like UGC, AICTE, DRDO, DST, etc. • Extending RD activities towards Industrial consultancy • To start new specialized and demand-based Post Graduate Programmes • To enhance the number of Doctorates from 30 to 50