

## ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC (July 1, 2017 to June 30, 2018)



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(Approved by AICTE, New Delhi, Accredited by NAAC, Affiliated to BPUT, Odisha)

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### The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (*Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013*)

1 Name of the Institution	AJAY BINAY INSTITUTE OF TECHNOLOGY, CUTTACK
.2 Address Line 1	Plot No- 11/1/A, SECTOR-1
Address Line 2	CDA, CUTTACK-753014, Odisha
City/Town	CUTTACK
State	ODISHA
Pin Code	753014
Institution e-mail address	abitew@yahoo.co.in
Contact Nos.	0671-2362012, 2362015
Name of the Head of the In	stitution:
Tel. No. with STD Code:	0671-2362012, 2362015
Mobile:	9861181558

Name of the IQAC Co-ordinator:	Biswaranjan Rout
Mobile:	9338150216
IQAC e-mail address:	iqac@abit.edu.in

1.3 NAAC Track ID (For ex. MHCOGN 18879)

ORCOGN25125

1.4 NAAC Executive Committee No. & Date:

EC(SC) / 18 / A & A / 79.1 dated 05-11-2016

1.5 Website address:

www.abit.edu.in

Web-link of the AQAR:

www.abit.edu.in/AQAR2017-18

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of	Validity
SI. INO.	Cycle	Grade	COFA	Accreditation	Period
1	1 <sup>st</sup> Cycle	В	2.4	2016	5 YRS
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

01.06.2015

**1.8 AQAR for the year** (for example 2010-11)

2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*(for example AQAR 2010-11submitted to NAAC on 12-10-2011)* 

i. AQAR	(28/02/2018)
1.10 Institutional Status	
University	State Central Deemed Private
Affiliated College	Yes ү No
Constituent College	Yes No 🗸
Autonomous college of UGC	Yes No 🗸
Regulatory Agency approved Inst	itution Yes $$ No
(eg. AICTE, BCI, MCI, PCI, NCI	)
Type of Institution Co-educati	on $$ Men $$ Women $$
Urban	Rural Tribal
Financial Status Grant-in-	-aid UGC 2(f) UGC 12B
Grant-in-ai	d + Self Financing Totally Self-financing $$
1.11 Type of Faculty/Programme	
Arts Science	Commerce Law PEI (Phys Edu)
TEI (Edu) Engineerin	g $$ Health Science Management $$
Others (Specify)	1CA
1.12 Name of the Affiliating Univers	BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ROURKELA, ODISHA

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

### Autonomy by State/Central Govt. / University

University with Potential for Excellence	UGC-CPE
DST Star Scheme	UGC-CE
UGC-Special Assistance Programme	DST-FIST
UGC-Innovative PG programmes	Any other ( <i>Specify</i> )
UGC-COP Programmes	

## 2. IQAC Composition and Activities

2.1 No. of Teachers		06
2.2 No. of Administrative/Technical staff	02	
2.3 No. of students	02	
2.4 No. of Management representatives		01
2.5 No. of Alumni	02	
2. 6 No. of any other stakeholder and	[	01
community representatives		01
2.7 No. of Employers/ Industrialists	01	
2.8 No. of other External Experts		
2.9 Total No. of members	16	
2.10 No. of IQAC meetings held	12	

2.11 No. of meetin	ngs with various stakeholders:	No. 12	Faculty	5		
Non-Tea	ching Staff / Students 5	Alumni 1	Others	1		
	ceived any funding from UGC	during the year?	Yes	No 🗸		
If yes, i	nention the amount					
2.13 Seminars and	Conferences (only quality rela	ted)				
(i) No. of Se	minars/Conferences/ Workshop	s/Symposia organ	ized by the IQ	QAC		
Total Nos	6 International	National	State	Institution Level	6	
ſ						
(ii) Themes Libre office, QMS in Welding fabrication, Ideation, Awareness programme on Welding Inspection Technology, Android Technology, Sustainable Materials for Engineering Application						
2.14 Significant A	ctivities and contributions made	e by IQAC				
• Formul	ation of machanisms to link as	domic courses to	real life case	studios for bands o	<u> </u>	

- Formulation of mechanisms to link academic courses to real life case studies for hands on exposure
- Conduct of skill development programmes to enhance employability of the students
- Initiation of Industrial Lecture session and technical sessions to bring resource persons from local industries to share their knowledge on technology advancement and business models.
- Proposal to enhance existing R&D Cell capacity by inducting research scholars and resource persons

#### 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
Skill Development Programme like digital	Students of mechanical engineering were placed
design and drafting courses like	in different organisations due to this skill
AutoCAD, CATIA and quality assurance	development programme.
training like Non-Destructive Testing for	
mechanical engineering students	
Training programmes like IOT for	Many students of Electronics and
Electronics and Telecommunication,	Telecommunication, Computer Science, Electrical
Computer Science, Electrical Engineering	Engineering were placed in different organisations
students	due to these skill development programmes.
Formation of R & D Cell with full time	The existing R & D Cell capacity is enhanced
faculty and research persons	through engagement of one full time dean cum
	professor and one full time research assistant.
	New equipment like personal computers,
	software, testing instruments, sensors, processors
	,etc are purchased for research into IOT fields.
Faculty members from different	Faculty members have presented their research
departments are encouraged to attend	findings in different conferences. The networking
Faculty Development Programmes, and	with other resource persons have created platform
Conferences at other reputed institutions	for advanced learning. Leaves and other facilities
	provided by Institutions.

\* Attach the Academic Calendar of the year as Annexure-1

Syndicate

2.15 Whether the AQAR was placed in statutory body

Management

Yes	 No	

Any other body

Provide the details of the action taken

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The AQAR was presented to management of institution for review and acceptance.

### Part – B

### Criterion – I

### **I. Curricular Aspects**

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD				
PG	3			
UG	6			2
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	9	1		2
Interdisciplinary				
Innovative				

1.1 Details about Academic Programmes

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options (ii) Pattern of programmes:

Pattern		Numbe	r of pr	ogramme	s				
Semester	9								
Trimester	NIL								
Annual	NIL								
1.3 Feedback from stakeholde (On all aspects)	ers* A	Alumni	$\checkmark$	Parents	$\checkmark$	Employers	$\checkmark$	Students	$\checkmark$
Mode of feedback	: 0	Online		Manual	$\checkmark$	Co-operating	g scho	ols (for Pl	EI)

\*Student feedback analysis of the in the Annexure II

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Syllabus is updated for 2017 intake batch, others no change in regulation or syllabi by University

1.5 Any new Department/Centre introduced during the year. If yes, give details.

NO

### Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
p •••••••	107	91	06	10	

2.2 No. of permanent faculty with Ph.D.

	Asst.		Associa	ite	Profes	sors	Others		Total	
2.3 No. of Faculty Positions Recruited (R) and Vacant (V)	Profes	sors	Profess	ors						
	R	V	R	V	R	V	R	V	R	V
during the year	0	2	1	0	0	0	0	0	1	2

03

11

2.4 No. of Guest and Visiting faculty and Temporary faculty

0	
---	--

0

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended			02
Presented papers	08	O6	
Resource Persons			

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Availability of study materials in institution website for download
- Weekly review of teaching progress of different subjects by Principal and Dean (Academics) for effective learning
- Pilot study regarding establishment of Virtual class room for efficient learning
- 2.7 Total No. of actual teaching days during this academic year

201

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

QUIZ, SURPRISE TEST, ASSIGNMENTS, VST

- 2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop
- 2.10 Average percentage of attendance of students

77	0/		
, ,	/0		

0

2.11 Course / Programme wise distribution of Pass %

Title of the Programme	Total no. of students		]	Division		
	appeared	Distinction %	I %	II %	III %	Pass %
B.TECH, CIVIL	68	NA	96	2		98
B.TECH, COMP.	24	NA	92	4		96
SC.						
B.TECH, EEE	21	NA	95			95
B.TECH, EE	43	NA	100			100
B.TECH, ENTC	17	NA	100			100
B.TECH, MECH	58	NA	100			100
MCA	53	NA	79	21		100
MBA	21	NA	6			96
M.TECH, COMP. SC	1	NA	1			100

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- IQAC has been closely monitoring the teaching & learning process starting from lesson plans, class notes till the delivery and suggesting improvements based on the weekly academic review.
- Student feedback is taken after 1<sup>st</sup> internal examination; data is compiled and shared with the concern faculties for necessary improvement.
- Question papers for internal examination are prepared at par with the quality standard of university question papers.
- Technical question papers are discussed in separate classes conducted by each department for various for various competitive examinations like GATE and engineering service.
- Gap analysis of course curriculum is done and bridging of the gap is done by conducting seminars, workshops and technical sessions.
- Industry oriented projects are done by students to provide hands on experience in industrial environment.

2.13 In	itiatives	undertaken	towards	faculty	development
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Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	16
UGC – Faculty Improvement Programme	
HRD programmes	
Orientation programmes	10
Faculty exchange programme	
Staff training conducted by the university	
Staff training conducted by other institutions	10
Summer / Winter schools, Workshops, etc.	1
Others	

#### 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	38	0	02	NIL
Technical Staff	40	1	3	NIL

### Criterion – III

### 3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

Faculties of each department are involved in R & D Cell. More subscription to online journals, tie up with local industries for seamless hassle free access to department laboratories.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	17	NIL	17	17
Outlay in Rs. Lakhs	4.7	NIL	4.7	

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	21	NIL	21	21
Outlay in Rs. Lakhs	0.3	NIL	0.3	

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	7	2	
Non-Peer Review Journals			
e-Journals			
Conference proceedings	4	2	

#### 3.5 Details on Impact factor of publications:

Range	Average
U	U

h-index

 $\sqrt{}$ 

Nos. in SCOPUS

S 5

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	2017-18	ABIT-PMCA Trust	4.7 lakh	4.7 lakh
Minor Projects	2017-18	ABIT-PMCA Trust	0.30 lakh	0.30 lakh
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects (other than compulsory by the University)				
Any other(Specify)				
Total	2017-18	ABIT-PMCA Trust	5.0 lakh	5.0 lakh

3.7 No. of books published	d i)V	With ISE	BN No.	1		Chapters i	n Edited I	Books	1	
	ii) V	Vithout	ISBN N	lo.	NIL					
3.8 No. of University Depa	artmer	nts receiv	ving fur	nds from						
			NIL	CAS	N	IL	DST-FIST			NIL
	DPE		NIL				DBT Sche	eme/fur	nds	NIL
3.9 For colleges	Auto INSF		NIL	CPE CE	E N		DBT Star Any Othe			
3.10 Revenue generated th	rough	consult	ancy	NIL						
3.11 No. of conferences		Level		Internat	ional	National	State	Unive	ersity	College
. 11 .1		Numbe	er	NIL		NIL	NIL N		,	5
organized by the Institution		Sponsoring agencies								
<ul> <li>3.12 No. of faculty served</li> <li>3.13 No. of collaborations</li> <li>3.14 No. of linkages create</li> <li>3.15 Total budget for research</li> </ul>	ed dur	In this y	nternatio year	onal N		persons National	5	Anyo	other	NIL
3.15 Total budget for resea	arcn IC	or curren	t year 1	n lakns :						
From Funding agency	NIL		From	Manage	ement	of Univers	sity/Colleg	ge 5.	0	
Total	5.0		]							
3.16 No. of patents receiv	ed this	s year	Type	e of Paten	t		N	umber		1
x		-	тур			Applied		NIL		-

d this year	Type of Patent		Number
	National	Applied	NIL
	National	Granted	NIL
	International	Applied	NIL
	International	Granted	NIL
	Commercialized	Applied	NIL
	Commercialised	Granted	NIL

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year

Total	International	National	State	University	Dist	College
NIL	NIL	NIL	NIL	NIL	NIL	NIL

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them47	
3.19 No. of Ph.D. awarded by faculty from the Inst	titution 2
3.20 No. of Research scholars receiving the Fellow	vships (Newly enrolled + existing ones)
JRF NIL SRF NIL	Project Fellows NIL Any other NIL
3.21 No. of students Participated in NSS events:	
	University level 96 State level NIL
	National level NIL International level NIL
3.22 No. of students participated in NCC events:	
	University level NI State level NIL
	National level NIL International level NIL
3.23 No. of Awards won in NSS:	
	University level NIL State level NIL
	National level NIL International level NIL
3.24 No. of Awards won in NCC:	
	University level NIL State level NIL
	National level NIL International level NIL

3.25 No. of Extension activities organized									
University forum	NIL	College forum	8						
NCC	NIL	NSS	3	Any other	NIL				

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Eye check up camps was organised in our campus.
- One blood donation camps was organised in our campus by NSS team
- Several Swachha Bharat initiatives under taken by various departments.
- Distribution of food packets and clothes in nearby orphanages.

### Criterion – IV 4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	2.5 acres	0		2.5 acres
Class rooms	8700 sq	0		8700 sq
	mt			mt
Laboratories	6000 sq	0		6000 sq
	mt			mt
Seminar Halls	2000 sq	0		2000 sq
	mt			mt
No. of important equipments purchased $(\geq 1-0 \text{ lakh})$ during the current year.	18			
Value of the equipment purchased during the year (Rs. in Lakhs)	22.2		ABIT	22.2
Others				

#### 4.2 Computerization of administration and library

Library, accounts section, examination section has computerized system and makes use of software to maintain student database, attendance, result analysis and books management.

#### 4.3 Library services:

	Exi	Existing		y added	Total		
	No.	Value	No.	Value	No.	Value	
Text Books	29399	4958302	184	45295	29583	5001597	
Reference Books	7021	875094	09	2275	7030	877369	
e-Books							
Journals	980	1150740	4	19300	984	1170040	
e-Journals	5	653031	01	84960	6	737991	
Digital Database							
CD & Video	2240		80		2320		
Others (specify)							

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart- ments	Others
Existing	467	10	21	1	1	20	25	
Added	36	0	1	0	0	0	0	
Total	503	10	22	1	1	20	25	

4.4 Technology up gradation (overall)

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

Research work using WSN by students in R & D Cell

4.6 Amount spent on maintenance in lakhs :

i) ICT	3.56
ii) Campus Infrastructure and facilities	18.7
iii) Equipments	14.07
iv) Others(Ground rent)	5.33

**Total:** 41.66

### Criterion – V 5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Several awareness and training programmes are held to enhance the skills of students like NDT, Auto CAD, CATIA, SIX SIGMA, ERP-SAP, IOT, PLC & SCADA, Renewable energy, Construction technology etc.

#### 5.2 Efforts made by the institution for tracking the progression

Weekly academic review is conducted; Pre placement training classes are done frequently. Feedback from students taken frequently.

5.3 (a) Total N	umber	of st	udents	UG 822	PG 191	Ph. D. NIL	Othe NIL	rs			
(b) No. of students outside the state 25											
(c) No. of i	nterna	tiona	l studen	ıts	NIL						
Men	No 640		***	men	No 182	% 22					
			Last Yea	ar				Т	his Yea	ır	
General	SC	ST	OBC	Physically Challenged	Tota	ll General	SC	ST	OBC	Physically Challenged	Total
543	137	23	183	NIL	886	5 456	170	23	173	NIL	822
De	mand	ratio		Dropout %	% 0.07						

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

GATE coaching is done for final year and pre final year students by respective departments. General aptitude, Reasoning, Quantitative aptitude for various competitive and banking services are given to final year and pre final year students by Training & placement cell.

No. of s	tudents bene	eficiaries	202				
5.5 No. of stu	lents qualifi	ed in these ex	amination	S			
NET	NIL	SET/SLET	NIL	GATE	5	CAT	1
IAS/IPS e	tc NIL	State PSC	1	UPSC	6	Others	34
5.6 Details of	student cour	nselling and ca	areer guid	ance			
•	Students a	re motivated	for higher	studies.			
•	Students a	re motivated t	for entrep	oreneurship	through E	ED Cell.	
•		vareness progi ke ERP-SAP, Si			ed for valu	e additior	n among

No. of students benefitted

822

(All students are benefitted)

5.7 Details of campus placement

	On campus		Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
23	183	90	18

#### 5.8 Details of gender sensitization programmes

One programme on women empowerment was conducted.

#### 5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level	85 National level	NIL	International level	NIL
No. of students participa	ated in cultural events			
State/ University level	35 National level	nil	International level	NIL

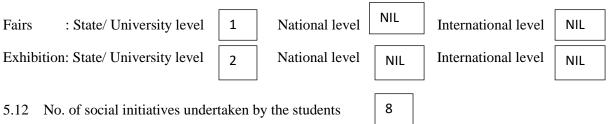
#### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level	4	National level	NIL	International level	NIL
	NUI	N	NU		NUI
Cultural: State/ University level	INIL	National level	NIL	International level	NIL

5.10 Scholarships and Financial Support. (Tuition fee reduction are given to selected students by the Institution)

	Number of Students	Amount
Financial support from institution	15	67000
Financial support from government	374	16230000
Financial support from other sources	NIL	NIL
Number of students who received International/ National recognitions	NIL	NIL

5.11 Student organised / initiatives



5.13 Major grievances of students (if any) redressed: Discrepancy in publication of result by the University.

### **Criterion – VI**

### 6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision of the Institution: To promote quality teaching, exploration, research and facilitate holistic development of students that would help create capable technical man power needed for industry and academia.

#### 6.2 Does the Institution has a management Information System

The institution does not have an MIS at the institute level but each strategic unit like library, accounts section, examination section has computerized system and makes use of software to maintain student database, attendance, result analysis and books management.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The basic outline of the curriculum is provided by the university. At the institute level, enrichment of the same is done to increase and refine students understanding.

- Gap analysis of students understanding and the pre-requisites for undertaking a course is done and corrective measures are taken. . For example, diploma students joining the course in second year face issues in mathematics as there are some courses required in engineering degree that they have not learnt in diploma. This creates an issue in clear understanding of advanced concepts. Special classes are conducted for them to align and integrate them with mainstream students.
- Bridge courses are undertaken at the institute level for new students prior to initiating the engineering course curriculum. This is termed as PREP
- STEP has been introduced for the final and pre-final year students for market readiness
- Soft skills training and language training is provided to make students employment ready

#### 6.3.2 Teaching and Learning

are:	Variou	is steps have been taken to enhance the teaching and learning process. Some of them
are.		
	•	Conduct of academic review on a weekly basis which ensures that course curriculum coverage, any issues in academics is addressed at the earliest
	٠	Workshops and seminars are conducted to update the students in latest technical
		trends and know how
	٠	Access to NPTEL videos and other online study materials provided to supplement
		the teaching process
	٠	Industrial visits are conducted to augment theoretical knowledge

#### 6.3.3 Examination and Evaluation

The university has computerized the evaluation process. Scripts are scanned and bar-coded prior to evaluation. They are then evaluated by the faculty online. This has made the system transparent and quick. Results are declared on time and in case of any issues/concerns raised by student, the answer scripts can be referred to easily and concerns addressed quickly due to digital availability of answer scripts.

At the institute level, very similar tests (as per university pattern) are conducted to acclimatize students' prior to appearing for university examinations. Quizzes and multiple choice questions, assignments are given regularly by subject teachers. Technical seminars have been introduced from second year onwards to make students confident and it also helps them in being aware about latest concepts beyond the curriculum.

#### 6.3.4 Research and Development

The Research and development team at the college has been working on the following areas;

- 3D printing and Advanced Materials
- Internet of Things
- LoRA/ZBee/BLE
- Machine Learning, AI and Deep Learning using tools for image analytics and processing.
- Solar PV, Smart Grid and Energy Storage

The R&D team comprises of a multi-disciplinary group contributing to research in the above selected focus areas. Students are also encouraged to be part of the R&D cell.

The institute has provided space for incubation. Technical assistance and help is also provided to them.

#### 6.3.5 Library, ICT and physical infrastructure / instrumentation

Various books have been procured to meet the demands of the enhanced curriculum as prescribed by the university, notably in the areas of 6000 Sqft, Number of Titles 6997 with total number of volume 29,394 and total number of E-Books is 2320.

Library functions such as acquisition, cataloguing, circulation, serials control are automated using the software Smart Library Management. Computers in the library are connected through the LAN for information access as well as management. Library remains open from Monday to Saturday with timing 8AM to 7PM and Sunday with timing 9AM to 2PM.

Incubation space has been provided to three start-ups. One of these start-ups is by a current student of our institute.

#### 6.3.6 Human Resource Management

Adequate no. of qualified teaching and supporting staff are appointed through procedures of open advertisement, referrals, Demo & interview by Expert committee. AICTE/Govt. of Orissa/BPUT rules and guidance is adhered to while appointing faculty and supporting staff.

Faculty members are encouraged to attend seminars, short- term courses, etc to enhance their technical know-how and skill and also disseminate the information amongst their colleagues. They are also encouraged to pursue higher studies and appropriate leeway is provided for the same.

Annual picnics, observance of Women's day, engineers day, teachers days, etc are done to make the work environment a happy and satisfied place to work in.

#### 6.3.7 Faculty and Staff recruitment

Planning for recruitment is organized and need based. Before commencement of the semester, HODs of every department, send in their consolidated faculty requirement to the Principal. Based on above request by the departments, the following process is adopted to fill the vacancies, taking into consideration AICTE guidelines:

- Advertisement in leading regional and national newspapers
- Openings published on website
- Internal faculty referrals

Resumes received from the above sources are analyzed and shortlisted candidates are called for an interview followed by a demo class. A selection committee is formed comprising of Principal, Director, , and concerned head of the department. Subject matter experts are invited to the selection committee in case of recruitment of senior positions like Heads of Department, Principal, etc. The team selects the appropriate candidate taking into consideration subject knowledge, prior similar experience and appropriateness and fitment for the role.

6.3.8 Industry Interaction / Collaboration

- Faculty and students are given ample scope for study tour to the nearby industries for better exposure through close interaction.
- Site visits are organized by the respective departments to gain perspective of application of engineering disciplines in Industries. Regular visits happen from Electrical and Civil engineering departments to electricity distribution centres / relay stations, bridge construction and water supply management sites.
- Seminars and workshops are conducted by inviting speakers from various industries and academia.

The Training and Placement department assists students to arrange industrial training and identify projects in industries.

#### 6.3.9 Admission of Students

The students are taking admission through the centralized admission process conducted by council of OJEE, ODISHA. The number of students taking admission in this college has been on a rising trend.

#### 6.4 Welfare schemes for

Teaching	Sponsorship & leaves are given for higher studies, FDP's and National/International Conferences. Life style coaching such as yoga and spiritual awareness programme are conducted.
Non teaching	Medical facilities through ESI Scheme and statutory requirements such as EPF facilities are given.
Students	Students from socially backward and economically backward get scholarships from State Government. Every student gets insurance scheme offered by Biju Pattnaik University of Technology. Deserving candidates are given scholarship by the Institution.

6.5 Total corpus fund generated	Total corpus fund generated: As ABIT is a self financed
I G	Institutions, the total corpus fund generated is equal to
	the FEE collected from students as per the guide lines of
	State Government

6.6 Whether annual financial audit has been done



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

Audit Type	Extern	al	Inte	rnal
	Yes/No	Agency	Yes/No	Authority
Academic	YES	BPUT	YES	PRINCIPAL
Administrative	YES	BPUT	YES	PRINCIPAL
6.8 Does the University/ A	utonomous College o	leclares resu	ults within 30 days	s?
H	For UG Programmes	Yes	V No	]
F	For PG Programmes	Yes	V No	]

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

On Line question distribution in the day of Examination and On Line evaluation process has been implemented for smooth and strict conduct of examination and timely publication of results.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

University follows the guide lines of UGC and State Government in this regard.

6.11 Activities and support from the Alumni Association

Alumni interaction programme is organized each year. The Ex-students of the college attend and share their views, experience and opportunities with the students. In the forum, they offer useful tips to final year students and others regarding how to equip themselves and meet the expectations of the industries

#### 6.12 Activities and support from the Parent – Teacher Association

Parent- Teacher Association is very important to ensure overall development of students. Parent-teacher Association supports and contributes in all the college activities whole heartedly. Many Parents from the technical background and expertise are invited as guest lecturers and judges for various competitions. Parents voluntarily offer sponsorships to various events. Their feedback, suggestions and views help institute to improve curricular and co-curricular activities.

6.13 Development programmes for support staff

The college follows many best practices for the development of support staff. Some examples include study leave for pursuing higher studies, Sabbatical leave in industry, the concession for the wards of support staff.

6.14 Initiatives taken by the institution to make the campus eco-friendly

Though the college is located in crowded city area, it has maintained large number of trees in its campus, which helps to reduce air pollution. Rain water harvesting is also used to make the campus Eco-friendly.

### **Criterion – VII**

### 7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

The Institution has developed new practices to firm foothold to face the emerging challenges in technical education. There is ample encouragement and organization of programmes for students and faculties in co-curricular and extra curricular areas to foster innovation. Some examples include the following.

At second year level, a soft skill programme is offered to the students coming from rural and vernacular background. This program is offered with the help of career lunch and T&P officer of the college.

At third year level, for all students employ ability Enhancement program is offered. This 40 hours programs includes modules such as presentation Skill, Personality analysis, group discussion, higher studies opportunities, innovation and patenting

Learning through projects: Faculty members motivate students to perform research based projects in various areas like 3-D printing, Advance material, storage cell, Photo voltaic cell, IOT etc. This also helps learning process by building intellectual competence of the students.

Students are encouraged and supported to enroll for national creativity aptitude test (NCAT). Game based Teaching like Role Play, Quiz etc has been adopted.

Experts from industry are invited to deliberate industry relevance of the curricular topics and for informative sessions on latest technology.

Talks of eminent personalities from R&D institutes are organized to present ongoing research topics.

- College has very good interaction with many industries for activities such as students projects, internships, student and faculty training.
- 7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year
  - Student Placement: The institution has gained the benefits of the interaction with various industries. More than 80% of the total eligible students are placed in this year and good number of students pursues higher studies in India and abroad.
  - Research and publication: Due to the interaction with industry and R&D organizational experts, publication in national and international journals has been increased progressively.
  - At the end of third year, during summer vacation, students were enrolled for internship. The Six weeks vacation period was utilized for such internship.
  - College has procured more three hundred books in academic session 2016-2017 as per the new syllabus introduced.
  - Laboratory Set Up: Two Labs for civil engineering, one Lab for mechanical engineering and Advance Lab in each department have been set up as per the new syllabus introduced.

3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

(a) The college takes efforts to bring innovations in Teaching-Learning process such as adopting social platforms and use of modern teaching tools.

(b)The college has unique association with industry in day-to-day functioning as well as in long-term planning.

7.4 Contribution to environmental awareness / protection

- Creating of the parking area
- Planting of new trees
- Rain water harvesting
- Conducting environmental awareness programs

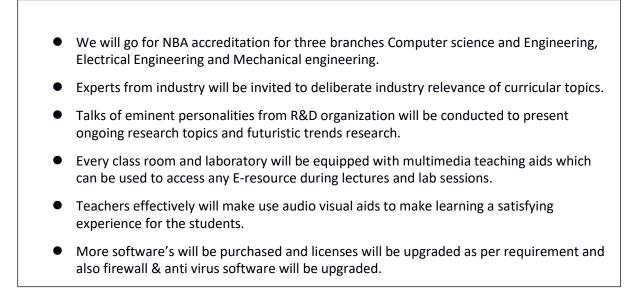
7.5 Whether environmental audit was conducted?

Yes	٧	No	

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strength-Weakness-Opportunities-Challenges (SWOC):
Strength
Transparent & proactive Management
Adequate and well maintained in fracture
High faculty retention
Good academic environment
Structured Entrepreneurship Promotional activities.
Weakness:
<ul> <li>Percentage of faculty members involved in research and consultancy activities is less`</li> </ul>
Opportunities:
• Enhancement in Entrepreneurship activities with the help of Industries
• To emerge as a role model in the field of Engineering education adapting best pedagogic practices.
Challenges:
Establishment of centre of excellence of national repute
Attractive research grants from funding agencies

#### 8. Plans of institution for next year



Name : Prof. Biswaranjan Rout

Signature of the Coordinator, IQAC

Name : Dr. Leena Samantray

Signature of the chair person IQAC

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### <u>Annexure-1(Academic Calendar 2017-18)</u>

#### BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA ROURKELA ACADEMIC CALENDAR FOR THE SESSION 2017-18 3rd 5th 7th 1st **ODD** Semester Activities 03-07-2017 03-07-2017 Starting Date of instruction 01-08-2017 03-07-2017 03-07-2017 - 10-07-2017 01-08-2017 - 21-08-2017 03-07-2017 - 10-07-2017 03-07-2017 - 10-07-2017 Registration without fine 11-07-2017 - 18-07-2017 11-07-2017 - 18-07-2017 11-07-2017 - 18-07-2017 NA Registration (Fine of ₹ 500/-) 19-07-2017 - 26-07-2017 19-07-2017 - 26-07-2017 19-07-2017 - 26-07-2017 NA Registration (Fine of ₹1,000/-) 16-08-2017 - 21-08-2017 16-08-2017 - 21-08-2017 16-08-2017 - 21-08-2017 NA Backlog Registration 22-08-2017 - 28-08-2017 22-08-2017 - 28-08-2017 20-09-2017 - 26-09-2017 22-08-2017 - 28-08-2017 Class Test - I 04-09-2017 - 05-09-2017 04-09-2017 - 05-09-2017 Display of Internal marks 07-10-2017 - 08-10-2017 04-09-2017 - 05-09-2017 07-09-2017 - 12-09-2017 10-10-2017 -14-10-2017 07-09-2017 - 12-09-2017 07-09-2017 - 12-09-2017 On-line sending of marks 29-11-2017 - 06-12-2017 10-10-2017 - 14-10-2017 10-10-2017 - 14-10-2017 10-10-2017 - 14-10-2017 Class Test - II 07-12-2017 - 08-12-2017 17-10-2017 - 18-10-2017 17-10-2017 - 18-10-2017 17-10-2017 - 18-10-2017 Display of Internal marks 18-10-2017 18-10-2017 18-10-2017 08-12-2017 Closing date of instruction 21-10-2017 - 24-10-2017 21-10-2017 - 24-10-2017 09-12-2017 - 11-12-2017 21-10-2017 - 24-10-2017 On-line sending of marks 30-10-2017 - 17-11-2017 30-10-2017 - 17-11-2017 13-12-2017 - 22-12-2017 30-10-2017 - 17-11-2017 End Semester Examinations 18-11-2017 - 22-11-2017 18-11-2017 - 22-11-2017 Students' Training 18-11-2017 - 22-11-2017 23-11-2017 - 03-12-2017 23-12-2017 - 01-01-2018 23-11-2017 - 03-12-2017 23-11-2017 - 03-12-2017 emester Break 26-12-2017 - 28-12-2017 | 26-12-2017 - 28-12-2017 26-12-2017 - 28-12-2017 26-12-2017 - 28-12-2017 Sports Meet 18-02-2018 06-02-2018 24-01-2018 18-02-2018 Publication of Results 2nd 4th 6th 8th **EVEN Semester Activities** 04-12-2017 04-12-2017 04-12-2017 02-01-2018 Starting Date of instruction 04-12-2017 - 12-12-2017 04-12-2017 - 12-12-2017 04-12-2017 - 12-12-2017 02-01-2018 - 09-01-2018 Registration without fine 13-12-2017 - 20-12-2017 13-12-2017 - 20-12-2017 13-12-2017 -20-12-2017 10-01-2018 - 17-01-2018 Registration (Fine of ₹ 500/-) 21-12-2017 - 28-12-2017 21-12-2017 - 28-12-2017 21-12-2017 - 28-12-2017 18-01-2018 - 29-01-2018 Registration (Fine of ₹ 1,000/-) 10-01-2018 -10-01-2018 - 18-01-2018 18-01-2018 06-02-2018 - 13-02-2018 10-01-2018 - 18-01-2018 Class Test - I 22-01-2018 - 25-01-2018 22-01-2018 - 25-01-2018 22-01-2018 - 25-01-2018 Display of Internal marks 16-02-2018 - 19-02-2018 25-01-2018 - 31-01-2018 25-01-2018 - 31-01-2018 25-01-2018 - 31-01-2018 20-02-2018 - 24-02-2018 On-line sending of marks 20-02-2018 - 23-02-2018 20-02-2018 - 23-02-2018 20-02-2018 - 23-02-2018 12-03-2018 - 15-03-2018 Backlog Registration 24-02-2018 - 28-02-2018 / 24-02-2018 - 28-02-2018 24-02-2018 - 28-02-2018 Class Test - II 05-04-2018 - 11-04-2018 02-03-2018 - 05-03-2018 02-03-2018 - 05-03-2018 02-03-2018 - 05-03-2018 Display of Internal marks 13-04-2018 - 16-04-2018 06-03-2018 - 12-03-2018 06-03-2018 - 12-03-2018 18-04-2018 - 25-04-2018 06-03-2018 - 12-03-2018 On-line sending of marks 22-03-2018 . 22-03-2018 22-03-2018 27-04-2018 Closing date of instruction 27-03-2018 - 17-04-2018 27-03-2018 - 17-04-2018 07-05-2018 - 27-05-2018 27-03-2018 - 17-04-2018 End Semester Examinations 22-04-2018 18-04-2018 - 22-04-2018 18-04-2018 Students' Training 23-04-2018 - 30-06-2018 23-04-2018 - 30-06-2018 28-05-2018 - 30-06-2018 Semester Break (for students) 31-05-2018 30-06-2018 30-06-2018 30-06-2018 Publication of Results By Order of Hon'ble Vice-Chancellor

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Director, Curriculum Development

### Annexure-II(Feedback sheet)

	SEMESTER	Г		1ST				B	RANCH	Г	1	MBA		7	
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	DATE	0	9.1	0 .	17										
	SUB. NAME		ME		MPP		MM		SDS	T	FA	Τ	OB	T	ECS
	FACULTY NAME		KKK		BBM		JSM		SK		DKO		PKM		SB
1.	TIMELINESS	۲	Yes		Yes		Yes		Yes		Yes	•	Yes		Yes
		0	No	0	No	0	No	0	No	0	No	0	No	0	No
2.	STUDENT	•	Yes		Yes		Yes		Yes		Yes		Yes		Yes
	RELATIONSHIP	0	No	0	No	0	No	0	No	0	No	0	No	0	No
3	PREPARATION		Yes		Yes		Yes		Yes		Yes		Yes		Yes
5.	FOR CLASSES	0	No	0	No	0	0.0254755	0	No	0	No	0	No	0	No
				10		10									
4.	CLASS	۲	Yes	۲	Yes	۲	Yes		Yes		Yes		Yes	۲	Yes
	INTERACTION	0	No	0	No	0	No	0	No	0	No	0	No	0	No
5.	SUBJECT		Yes		Yes		Yes		Yes		Yes		Yes		Yes
	EXPLAINATION	0	No	0	No	0	No	0	No	0	No	0	No	0	No
	CLARITY														
6.	PACE OF	0	Yes	•	Yes	•	Yes		Yes	•	Yes	•	Yes		Yes
	TEACHING	0	No	0	No	0	No	0	No	0	No	0	No	0	No
7.	CLEARING	۲	Yes		Yes	0	Yes		Yes		Yes		Yes		Yes
	OF DOUBT	0	No	0	No	0	No	0	No	-	No	0	No	0	No
8	COURSE		Yes		Yes		Yes		Yes		Yes		Yes		Yes
	COVERAGE	0	No	-	No		No		No	+7	No		No		No
		0											110		NO
9.	UNIVERSITY	•	Yes	۲	Yes	0	Yes	۲	Yes		Yes	۲	Yes		Yes
	QUESTION	0	No	0	No	0	No	0	No	0	No	0	No	0	No



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### Annexure-III(Feedback Analysis)

	SUB TEACHER-K RAMESH SUB :-SS 5TH SEMESTER BRANCH-ENTC														
COURSE COMPLETION			FACTORS OF FACULTY					TEACHING AID						OTHERS	
													UNIVERSI TY		
						SUBJECT					PRACTIC		QUESTIO		
			CLASS	CLASS	STUDENT	EXPLANA	TIMELINE		DOUBT		AL	REFEREN	N		UNDERS
MODULE	MODULE	MODULE	INTERAC	PREPARA	RELATIO	TION	\$\$ OF	CLASS	CLEARAN	PHYSICA	EXAMPLE	CE TEXT	DISCUSSI	TEACHIN	TANDING
1	2	3	TION	TION	NSHIP	CLARITY	CLASSES	NOTES	CE	L MODEL	\$	RECOM.	ON	G PACE	DEGREE
95	94	90	94	94	94	94	94	93	86	71	79	86	86	64	94

#### <u>Annexure IV</u>(Abbreviations)

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
СОР	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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