ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC (July 1, 2016 to June 30, 2017)

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

CONTENT

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)*

Part – A

1. Details of the Institution

1.1 Name of the Institution

AJAY BINAY INSTITUTE OF TECHNOLOGY, CUTTACK

1.2 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 Institution:

Dr. Leena Samantaray

Tel. No. with STD Code:

0671-2362012, 2362015

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9861181558

Name of the IQAC Co-ordinator:

Prof. Chinmay Das

Mobile:

9437191495

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/AQAR2016-17

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B	2.4	2016	5 YRS
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC :   DD/MM/YYYY

01.06.2015

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

2016-17

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 _____ _____ (DD/MM/YYYY)4

ii.   AQAR_____ _____ (DD/MM/YYYY)

iii. AQAR_____ _____ (DD/MM/YYYY)

iv.   AQAR_____ _____ (DD/MM/YYYY)

1.10 Institutional Status

University   State [ ] Central [ ] Deemed [ ] Private [ ]

Affiliated College   Yes [√] No [ ]

Constituent College   Yes [ ] No [√]

Autonomous college of UGC Yes [ ] No [√]

Regulatory Agency approved Institution   Yes [√] No [ ]

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education [√] Men [ ] Women [ ]

                      Urban [√] Rural [ ] Tribal [ ]

Financial Status   Grant-in-aid [ ] UGC 2(f) [ ] UGC 12B [ ]

                      Grant-in-aid + Self Financing [ ] Totally Self-financing [√]

1.11 Type of Faculty/Programme

Arts [ ]   Science [ ] Commerce [ ] Law [ ] PEI (Phys Edu) [ ]

TEI (Edu) [ ] Engineering [√] Health Science [ ] Management [√]

Others (Specify) [MCA]

1.12 Name of the Affiliating University *(for the Colleges)*   BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ROURKELA, ODISHA

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

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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 (*Specify*)

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

   community representatives   01

2.7 No. of Employers/ Industrialists   01

2.8 No. of other External Experts   01

2.9 Total No. of members   16

2.10 No. of IQAC meetings held   10

2.11 No. of meetings with various stakeholders: No. | 10 | Faculty | 4 |

Non-Teaching Staff / Students | 4 | Alumni | 1 | Others | 1 |

2.12 Has IQAC received any funding from UGC during the year?   Yes [ ]   No [√]

If yes, mention the amount [   ]

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 5 | International [ ]   National [ ]   State [ ]   Institution Level | 5 |

(ii) Themes | BRIDGE DESIGN, WORKSHOP ON MASONSAND CONTRACTOR, SECURITIES, MARKET &THE COMMON MAN, CLASSROOM TO CORPORATE ENVIRONMENT, FDP ON ELEMENTS OF TEACHING & RESEARCH METHODS.

2.14 Significant Activities and contributions made by IQAC

- 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 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 design and drafting courses like AutoCAD, CATIA and quality assurance training like Non-Destructive Testing for mechanical engineering students	Students of mechanical engineering were placed in different organisations due to this skill development programme.
Training programmes like IOT for Electronics and Telecommunication, Computer Science, Electrical Engineering students	Many students of Electronics and Telecommunication, Computer Science, Electrical Engineering were placed in different organisations due to these skill development programmes.
Formation of R & D Cell with full time faculty and research persons	The existing R & D Cell capacity is enhanced 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 departments are given duty leave to attend one and two weeks Faculty Development Programmes, and Conferences at other reputed institutions	Faculty members have presented their research findings in different conferences. The networking with other resource persons have created platform for advanced learning.

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

2.15 Whether the AQAR was placed in statutory body   Yes [√]   No [ ]

Management [√]   Syndicate [ ]   Any other body [ ]

Provide the details of the action taken

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

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

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			2

Interdisciplinary				
Innovative				

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

Pattern	Number of programmes
Semester	9
Trimester	NIL
Annual	NIL

1.3 Feedback from stakeholders*   Alumni √   Parents √   Employers √   Students √
   (On all aspects)

   Mode of feedback   :   Online [ ] Manual √ Co-operating schools (for PEI) [ ]

Please provide an analysis of the feedback in the Annexure II

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

   Syllabus is changed for 2016 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.

   NIL

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of
permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
108	94	04	10	

2.2 No. of permanent faculty with Ph.D.

10

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
6	1	0	0	1	0	0	0	7	1

2.4 No. of Guest and Visiting faculty and Temporary faculty   03   0   0

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended			02
Presented papers	04	01	01
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   205

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

01	01	01

2.10 Average percentage of attendance of students

79 %

2.11 Course / Programme wise distribution of Pass %

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.TECH, CIVIL	68	0	57	38	3	95.59
B.TECH, COMP. SC.	24	0	0	92	8	100
B.TECH, EEE	21	0	76	20	5	90.48
B.TECH, EE	43	0	42	58	0	100
B.TECH, ENTC	17	0	71	29	0	100
B.TECH, MECH	58	0	62	38	0	100
MCA	34	0	94	0	0	94.11
MBA	22	0	32	50	18	100
M.TECH, COMP. SC	06	0	100	0	0	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.
- Students feedback are taken after 1st internal examination, data are compiled and shared to the concern faculties.
- Internal questions are being prepared in accordance with the quality of university question paper, GATE paper 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 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	
UGC – Faculty Improvement Programme	**2**
HRD programmes	
Orientation programmes	
Faculty exchange programme	
Staff training conducted by the university	
Staff training conducted by other institutions	8
Summer / Winter schools, Workshops, etc.	2
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	2	10	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

> More faculties 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			
Outlay in Rs. Lakhs	3.58			

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	33			
Outlay in Rs. Lakhs	1.31			

3.4   Details on research publications

	International	National	Others
Peer Review Journals	8	4	
Non-Peer Review Journals			
e-Journals			
Conference proceedings	4	2	

3.5 Details on Impact factor of publications:

Range [ ]   Average [√]   h-index [ ]   Nos. in SCOPUS [ ]

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	2006-17	ABIT-PMCA Trust	3.9lakh	3.9lakh
Minor Projects	2006-17	ABIT-PMCA Trust	1.31lakh	1.31lakh
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects *(other than compulsory by the University)*				
Any other(Specify)				
Total	2006-17	ABIT-PMCA Trust	5.11lakh	5.11lakh

3.7 No. of books published   i) With ISBN No. | 1 | Chapters in Edited Books | 2 |

ii) Without ISBN No. | NIL |

3.8 No. of University Departments receiving funds from

UGC-SAP | NIL | CAS | NIL | DST-FIST | NIL |

DPE | NIL | DBT Scheme/funds | NIL |

3.9 For colleges   Autonomy | NIL | CPE | NIL | DBT Star Scheme | |

INSPIRE | NIL | CE | NIL | Any Other (specify) | |

3.10 Revenue generated through consultancy | NIL |

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	NIL	NIL	NIL	NIL	5
Sponsoring agencies					

3.12 No. of faculty served as experts, chairpersons or resource persons | 2 |

3.13 No. of collaborations   International | 1 | National | 1 | Any other | NIL |

3.14 No. of linkages created during this year | 10 |

3.15 Total budget for research for current year in lakhs :

From Funding agency | NIL | From Management of University/College | 5.11 |

Total | 5.11 |

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	NIL
	Granted	NIL
International	Applied	NIL
	Granted	NIL
Commercialised	Applied	NIL
	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

| 4 |

   and students registered under them

| 7 |

3.19 No. of Ph.D. awarded by faculty from the Institution

| 2 |

3.20 No. of Research scholars receiving the Fellowships (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 mt	0		8700 sq mt
Laboratories	6000 sq mt	0		6000 sq mt
Seminar Halls	2000 sq mt	0		2000 sq mt
No. of important equipments purchased ($\geq$ 1-0 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:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	20483	6128035	80	27760	20563	6155795
Reference Books	8816	125061	20	6994	8863	132001
e-Books						
Journals	980	678289	4	18000	984	696289
e-Journals	5	644936	01	81075	6	726011
Digital Database						
CD & Video	2240		80		2320	
Others (specify)						

4.4 Technology up gradation (overall)

	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	

4.5 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   21.56

iii) Equipments   22.21

iv) Others(Ground rent)   15.0

Total :   62.33

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, Bridge design etc.

5.2 Efforts made by the institution for tracking the progression

> Weekly academic review is conducted, PPT classes are done frequently.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
886	265	NIL	NIL

(b) No. of students outside the state

80

(c) No. of international students

NIL

Men

No	%
650	73

Women

No	%
236	27

	Last Year						This Year				
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
669	117	30	233	NIL	1049	543	137	23	183	NIL	886

Demand 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 students beneficiaries | 380 |

5.5 No. of students qualified in these examinations

NET | NIL | SET/SLET | NIL | GATE | 5 | CAT | 1 |

IAS/IPS etc | NIL | State PSC | 1 | UPSC | NIL | Others | NIL |

5.6 Details of student counselling and career guidance

- Students are motivated for higher studies.

- Students are motivated for entrepreneurship through ED Cell.

- Various awareness programmes are conducted for value addition among students like ERP-SAP, Six Sigma, NDT etc.

No. of students benefitted | 1151 | (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
09	209	58	48

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 participated 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 |

Cultural: State/ University level | NIL | 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	184	7985000
Financial support from other sources	NA	NA
Number of students who received International/ National recognitions	NA	NA

5.11   Student organised / initiatives

Fairs   : State/ University level | 1 | National level | NIL | International level | NIL |

Exhibition: State/ University level | 2 | National level | NIL | International level | NIL |

5.12   No. of social initiatives undertaken by the students | 5 |

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

> Various 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
> - Workshops and seminars are conducted to update the students in latest technical trends and know how
> - Access to NPTEL videos and other online study materials provided to supplement the teaching process
> - 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 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   Yes   √   No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	BPUT	YES	PRINCIPAL
Administrative	YES	BPUT	YES	PRINCIPAL

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes   √   No

For PG Programmes   Yes   √   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 √   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:

- Percentage of faculty members involved in research and consultancy activities is less`

     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**

- Experts from industry will be invited to deliberate industry relevance of curricular topics.

- Talks of eminent personalities from R&D organization will be conducted to present ongoing research topics and futuristic trends research.

- Every class room and laboratory will be equipped with multimedia teaching aids which can be used to access any E-resource during lectures and lab sessions.

- Teachers effectively will make use audio visual aids to make learning a satisfying experience for the students.

- More software's will be purchased and licenses will be upgraded as per requirement and also firewall & anti virus software will be upgraded.

Name :   *Prof. Chinmay Das*   Name : *Dr. Leena Samantray*

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

_____***_____

Annexure-1(Academic Calendar 2016-17)

Ajay Binay Institute of Technology, Cuttack
Academic Calendar for the Academic Year 2016-17

ODD Semester Activities	1st Semester	3rd Semester	5th Semester	7th Semester
Starting Date of instruction	01.08.2016	11.07.2016	11.07.2016	11.07.2016
Registration without fine	01.08.2016-20.08.2016	11.07.2016-16.07.2016	11.07.2016-16.07.2016	11.07.2016-16.07.2016
Registration (fine of Rs.500/-)	NA	18.07.2016-23.7.2016	18.07.2016-23.7.2016	18.07.2016-23.7.2016
Registration (fine of Rs.1000/-)	NA	25.07.2016-30.07.2016	25.07.2016-30.07.2016	25.07.2016-30.07.2016
Class Test – I	19.09.2016-24.09.2016	16.08.2016-22.08.2016	16.08.2016-22.08.2016	16.08.2016-22.08.2016
On-line sending of marks	03.10.2016-06.10.2016	25.08.2016-31.08.2016	25.08.2016-31.08.2016	25.08.2016-31.08.2016
Display of Internal marks(Un-Normalized)	06.10.2016	01.09.2016	01.09.2016	01.09.2016
Class Test – II	23.11.2016-29.11.2016	17.10.2016-22.10.2016	17.10.2016-22.10.2016	17.10.2016-22.10.2016
On-line sending of marks	03.12.2016-05.12.2016	24.10.2016-28.10.2016	24.10.2016-28.10.2016	24.10.2016-28.10.2016
Display of Internal marks(Un-Normalized)	06.12.2016	31.10.2016	31.10.2016	31.10.2016
Closing date of instruction	02.12.2016	28.10.2016	28.10.2016	28.10.2016
Foundation Day	21.11.2016	21.11.2016	21.11.2016	21.11.2016
End Semester Examinations	07.12.2016-21.12.2016	07.11.2016-07.12.2016	07.11.2016-07.12.2016	07.11.2016-07.12.2016
Semester Break	22.12.2016-31.12.2016	07.12.2016-24.12.2016	07.12.2016-24.12.2016	07.12.2016-24.12.2016
Sports Meet	26.12.2016-27.12.2016	26.12.2016-27.12.2016	26.12.2016-27.12.2016	26.12.2016-27.12.2016
Publication of Results	10.02.2017	30.01.2017	30.01.2017	30.01.2017

EVEN Semester Activities	2nd Semester	4th Semester	6th Semester	8th Semester
Starting Date of instruction	02.01.2017	02.01.2017	02.01.2017	02.01.2017
Registration without fine	02.01.2017-09.01.2017	02.01.2017-09.01.2017	02.01.2017-09.01.2017	02.01.2017-09.01.2017
Registration (fine of Rs.500/-)	10.01.2017-17.01.2017	10.01.2017-17.01.2017	10.01.2017-17.01.2017	10.01.2017-17.01.2017
Registration (fine of Rs.1000/-)	18.01.2017-25.01.2017	18.01.2017-25.01.2017	18.01.2017-25.01.2017	18.01.2017-25.01.2017
Class Test – I	02.02.2017-07.02.2017	02.02.2017-07.02.2017	02.02.2017-07.02.2017	02.02.2017-07.02.2017
On-line sending of marks	08.02.2017-14.02.2017	08.02.2017-14.02.2017	08.02.2017-14.02.2017	08.02.2017-14.02.2017
Display of Internal marks(Un-Normalized)	15.02.2017	15.02.2017	15.02.2017	15.02.2017
Ignitix (Annual sports)	18.02.2017-19.02.2017			
Ignitron (Technofest and Annual Day)	20.02.2017-22.02.2017			
Innovation And Talent Meet				
Class Test - II	17.03.2017-19.03.2017	17.03.2017-19.03.2017	17.03.2017-19.03.2017	17.03.2017-19.03.2017
On-line sending of marks	20.03.2017-25.03.2017	20.03.2017-25.03.2017	20.03.2017-25.03.2017	20.03.2017-25.03.2017
Display of Internal marks(Un-Normalized)	27.03.2017-03.04.2017	27.03.2017-03.04.2017	27.03.2017-03.04.2017	27.03.2017-03.04.2017
Closing date of instruction	04.04.2017	04.04.2017	04.04.2017	04.04.2017
	13.04.2017	13.04.2017	13.04.2017	13.04.2017
End Semester Examinations	24.04.2017-13.05.2017	24.04.2017-13.05.2017	24.04.2017-13.05.2017	24.04.2017-13.05.2017
Semester Break	14.05.2017-14.06.2017	14.05.2017-14.06.2017	14.05.2017-14.06.2017	24.04.2017-13.05.2017
Publication of Results	14.06.2017	14.06.2017	14.06.2017	31.05.2017

Annexure-II(Feedback sheet)

STUDENT FEED BACK FORM
ABIT GROUP OF INSTITUTIONS , SECTOR -1, CDA , CUTTACK

SEMESTER: 1ST   BRANCH: MBA

DATE: 29.10.17

		ME	MPP	MM	SDS	FA	OB	ECS
	SUB. NAME / FACULTY NAME	KKK	BBM	JSM	SK	DKO	PKM	SB
1.	TIMELINESS	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
2.	STUDENT RELATIONSHIP	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
3.	PREPARATION FOR CLASSES	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
4.	CLASS INTERACTION	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
5.	SUBJECT EXPLAINATION CLARITY	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
6.	PACE OF TEACHING	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
7.	CLEARING OF DOUBT	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
8.	COURSE COVERAGE	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
9.	UNIVERSITY QUESTION DISCUSSION	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No
10.	ASSISTANT & COUNSELLING TO STUDENT	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No	● Yes ○ No

Annexure-II(Feedback sheet)

Annexure-III(Feedback Analysis)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	File name	[COURSE COMPLETION] MODULE1	[COURSE COMPLETION] MODULE2	[COURSE COMPLETION] MODULE3	[FACTORS OF FACULTY] CLASS INTERACTION	[FACTORS OF FACULTY] CLASS PREPARATION	[FACTORS OF FACULTY] STUDENT RELATIONSHIP	[FACTORS OF FACULTY] SUBJECT EXPLANATION CLARITY	[FACTORS OF FACULTY] TIMELINESS OF CLASSES	[TEACHING AIDS] CLASS NOTES	[TEACHING AIDS] DOUBT CLEARANCE	[TEACHING AIDS] PHYSICAL MODEL	[TEACHING AIDS] PRACTICAL EXAMPLES	[TEACHING AIDS] REFERENCE TEXT RECOM.	[TEACHING AIDS] UNIVERSITY QUESTION DISCUSSION	[TEACHING PACE] TEACHING PACE	[UNDERSTANDING DEGREE] UNDERSTANDING DEGREE
2	Image03			95	2	5	2	4	1	YES	YES	NO	NO	YES	NO	EXPECTI	4
3	Image04			85	5	5	5	5	4	YES	YES	YES	YES	YES	NO	EXPECTI	5
4	Image01			95	4	5	4	5	5	YES	YES	YES	YES	YES	YES	EXPECTI	4
5	Image02			95	4	5	1	4	4	NO|YES	YES	YES	YES	YES	NO	EXPECTI	4
6	Image07			95	5	5	5	5	4	YES	YES	NO	NO	YES	YES	EXPECTI	5
7	Image08	85	85	85						YES		YES	YES			FAST	2
8	Image05			95	5	5	5	5	5	YES	YES	YES	YES	YES	NO	EXPECTI	5
9	Image06			75											NO		5
10		85	85.0	90.0	83.33333	100	73.33333	93.33333	76.66667	75	75	62.5	62.5	75	25	75	85
11	Perc / Yes / Rat 5 / expt	85.0	85.0	90.0	3	6	3	4	2	6	6	5	5	6	2	6	4
12	No / Rat 4 / Fast				2	0	1	2	3	0	0	2	2	1	4	1	3
13	Rat 3 / Slow				0	0	0	0	0							0	0
14	Rat 2				1	0	1	0	0								1
15	Rat 1				0	0	1	0	1								0
16																	
17																	
18	Effectiveness Index	85.0	85.0	90.0	2.00	3.00	1.33	2.67	1.67	1.00	1.00	0.43	0.43	0.71	-0.33	0.71	2.13

Annexure IV (Abbreviations)

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

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