



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	SYNERGY INSTITUTE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr.Itishree Mohanty
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	06762225905
Mobile no.	9861187636
Registered Email	sietdkl@synergyinstitute.net
Alternate Email	principal@synergyinstitute.net
Address	BANAMALIPRASAD, BY THE SIDE OF NH-55, DHENKANAL
City/Town	DHENKANAL
State/UT	Orissa
Pincode	759001

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.Jayashree Singh
Phone no/Alternate Phone no.	06762225905
Mobile no.	9437292409
Registered Email	sietdkl@synergyinstitute.net
Alternate Email	snehaljayashree@gmail.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://www.synergyinstitute.net
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.synergyinstitute.net/pdf/calendar.pdf

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.41	2014	10-Dec-2014	12-Oct-2019

6. Date of Establishment of IQAC	13-Jan-2014
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
National Seminar	14-Mar-2019 2	349

National Seminar	01-Mar-2019 1	160
National WORKSHOP	14-Mar-2019 3	242
National WORKSHOP	06-Oct-2018 1	165
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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.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institute	nil	nil	2018 0	0
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

1

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

[View File](#)

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)

Different seminar and workshop was organised

research paper were published in various international journal of repute

Industry Institute interaction was strengthen

Attempts were made to establish different Center of excellence

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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	Achievements/Outcomes
. At least one seminar and workshop should be conducted.	One seminar and one workshop had been conducted.
One study tour for the students per year.	Pre-final year and final year students had gone for study tour.
Skill development training for one month.	Skill development training organised for one month.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
HOD COUNCIL MEETING	25-Aug-2018

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

Yes

Date of Visit

10-Dec-2014

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

12-Mar-2019

17. Does the Institution have Management Information System ?

Yes

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

Management Information System (Synergy Info System SIS) The management information system of our Institute hosted in the portal www.synergy.ac.in/intranet is designed and developed by the Department of Computer Science and Engineering. The ERP System is comprised of the following modules 1. Online Alumni Network. It is providing common platform for the institute. The objective of Alumni portal application is to allow old and new students of the college to have communication. This allows students to know about each

other and their current activities. 2. Online Attendance and SMS service. Online attendance system allows to automate our time table management by tracking the academic schedule and to communicate every day report with the parents. 3. Course Coverage It helps us to monitor the course coverage of the classes and enable the administrators for hands on control on academics. 4. Online Notice Board. It is the paperless notice board for all the day to day communications. 5. Online Library management. The library automation system digitized the library and implements the paper less library management software. 6. Online Inventory control This module automated the store department and it day to day activities. 7. Online Mentorship System Every faculty is assigned a group of 20 students under his mentorship. This system automated the mentorship system that every faculty can maintain all the details and communications with the mentees and enabled the administration to have the access of the mentorship system. 8. Online Grievance management System. It facilitates students / complainants to lodge his or her grievance, send reminder and view status on action taken with regard to their grievance(s).

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The college meticulously develops action plans for effective implementation of the curriculum. At the outset, the advisory committee of the college conducts protracted meetings with the staff members of various department heads to develop various strategies for effective implementation of the curriculum. Teachers are encouraged beforehand to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits, computer education apart from regular/traditional teaching methods. ? In the beginning of each semester all the faculty members are submitting an academic planner on their allotted papers which is duly verified by HODs. ? Also we have academic diary for each semester. This diary is maintained by each faculty and verified by HOD time to time. ? Monitoring and feedback is collected by principal and appropriate action taken to rectify the system as a continuous process. The curriculum prepared by the Biju Pattnaik University of Technology (BPUT), Odisha, to which the college is affiliated, is well transacted to the students after serious preparation as well as critical thought by the teachers concerned. Being an affiliated

institution we are always in tune with the latest trends in education and guidelines. University conducts training programs such as refresher courses on different fields pertaining to technical education. Synergy Institute of Engineering and Technology, Dhenkanal Campus, Institute conduct, in house training program and various sponsored programs for the faculty by external expert and internal expert based on requirements with the support of AICTE, ISTE, University etc. Also the Institute organizes at department level training program before commencement of semester.1. All the faculty members are asked to do their lesson plans in a specific format and lecture notes. 2. All the lecture notes are available in the hard form as well as soft copy for the students. For quality education our institution is in regularly interact with industry, R&D Organization and academic institution. Institute conduct seminar, workshop attended by people from academia, research bodies and industries. They Share their experience on thrust areas of research, syllabus structure and market demand. Industrial visit is conducted every year. Invited talk by eminent persons from reputed organization. Our faculty members do their research under the professors of IIT , Bhubaneswar, Utkal university, Sambalpur University,NIT, Rourkela, etc. Basing on these facts our principal/ senior faculty member give suggestion in the board of studies. See Annexure- 1. About interaction with different stake holders. 1.1.6. What are the contribution of the institution and/or its staff members to the development of curriculum by the university?(number of staff members/departments represented on the board of studies, student feedback teacher feedback, stakeholder feedback provided, specific suggestion etc. The principal is a member of board of studies and our college supports the development of the curriculum through suggestions offered by our principal during the BOS meetings. Though the college faces a few constraints to modify the syllabus on its own, yet the affiliating university has a system in place to get recommendations from its affiliated colleges through Board of Studies. Large number of faculty represents the academic bodies of the BPUT, Odisha who regularly participate in the process of syllabus design. The members of the faculty brain storm and discuss amongst themselves the relevance of the syllabus designed by the affiliating university. While recommending or forwarding the suggestions to the Board of Studies our teachers normally take into consideration the students' feedback as well as other faculty members of various departments.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
No Data Entered/Not Applicable !!!					

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	EE,ME,ETC,CS,CIVIL	02/07/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Student Induction Training Program	16/08/2018	130
National seminar on Women Entrepreneurship : Prospects and Problems	07/03/2019	95
ENTREPRENEURSHIP AWARENESS CAMP	26/09/2018	79
NEURO LINGUISTIC PROGRAM	20/07/2018	145
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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	MECHANICAL	89
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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
<p>Some of our senior faculty members have contributed for the development of curriculum by the university. All faculty members take feedback from the students both informally through discussion and also formally in printed format. Feedback from the alumni also taken regularly. Advice and suggestion of academic peers and industry personals are also considered during their visit to the institution on different occasion. Principal/senior faculty members put the necessary suggestions before the academic council for develop the curriculum. Institute collects feedback from the students, alumni, parents, academic peers and industry personals regarding the effectiveness of the curriculum in the job market and national development. Their suggestions are analyzed and principal/senior faculty member discuss in the academic council for necessary changes in the curriculum and send the recommendation to university. (The feedback report will be presented at the time of PEER TEAM VISIT.)</p>

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
BTech	NIL	0	0	0
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	163	0	98	18	98

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
98	98	5	5	1	1162

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

? Students are guided regarding the future prospects of various options in different areas and they are further sensitized on the societal responsibilities through guest The class coordinators guide the students in academic personal matters by offering the required help in terms of mentoring counseling. However, serious matters are referred to a trained counselor. Academic and career counseling: The students, at the time of the admission are helped by our faculty in briefing about the various opportunities and scope in the hospitality industry. They are informed about the nature of the various subjects that form the syllabus. They are given the right kind of counseling which helps them shape their carrier. Personal and psychosocial counseling: The students during the course of their studies in the college come across many issues. They are, at times, too immature to handle these problems. The college provides them personal counseling. They can share their problem with the faculty. The concerned faculty are very supportive in guiding them face there problem. The students some time come across certain social issues or problems which tend to bring inferiority complex in them. The faculty makes sure that no such deterioration happens with the psychosocial understanding of the students. They are counseled and motivated to become better citizens and advice to stand upright for the social cause. lectures. ? Value added lectures on entrepreneurship skills are conducted. ? Campus placements for quality jobs in reputed companies are contacted and organized. ? For innovation in research aptitude students are encouraged to undertake, participate in research projects, national seminar conferences. ? Special events organized by students. ? The college is dedicated for quality education which helps in branding our students as the best in the operational areas. ? Students are motivated through personality development and encouraged to participate in activities for social and community service. ? The quality education and research development activities have been contributing significantly in transforming socioeconomic condition of the people. ? Guest lectures, seminars workshops are conducted by the College that provides exposure to business opportunities in the industries. ? Students also attend Guest lectures, seminars workshops conducted by other colleges to improve and nurture their entrepreneurial skills. ? The placement cell assesses the needs of entrepreneurs and prepares comprehensive training modules. Our placement cell prepares the following module to improve the skills and focus on the development of our students. ? Business skills ? Managerial skills ? Communication skills ? Professional skills ? Public speaking skills ? Leadership skills ? Marketing skills Academic performance, regularity, participation in cocurricular and extracurricular activities physical and emotional wellbeing – all these factors play a vital role in the progress of the students. The following monitoring methods are adopted by the institutions: ? Academic monitoring – The academic performance is monitored by observing the students performance in the classrooms through discussions, interactions, presentations, seminars, and assignments.

Monitoring is also done by observing their performance in the internal examinations, and final semester examinations taking both theoretical and practical aspects into consideration. ? Regularity – The regularity of the students is monitored from the attendance taken in every class. ? Cocurricular and extracurricular activity monitoring – After identifying their areas of interest in cocurricular and extra curricular activities, the students participation/non participation is recorded. ? Monitoring of physical and emotional wellbeing – All the staff continually involve in students physical and emotional wellbeing through continuous counseling and offer help wherever necessary. The students are guided to progress in all these factors by constant encouragement. Any short comings in any one or all the above factors are adequately addressed. The students and parents are communicated about the progress over phone and mail. Parents and local guardians are invited to the college and discuss the necessary action to be implemented for the progress of the student. Communications of the student's performance to the parents are through the following

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
163	20	1:10

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
36	36	0	36	0

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 Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	UG	8TH/4TH	27/03/2019	29/05/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

2 In each semester two internal examinations are conducted 15 marks each for a duration of one hour. The question paper carries 10 marks comprising of 3 questions , first question comprises of five bits one mark each which is compulsory, out of rest two questions one must be answered which carries five marks .Quiz test, surprise test, assignments and attendance are taken into considerations for the left five marks during each internal assessment. In the sessional lab test are also conducted followed by quiz test, viva voce, performance and record submission. The internal assessment for laboratories carry 50 marks each .As per BPUT guideline at least 10 experiments are to be conducted which bears equal marks.? Improvements in Internal Assessment - Written tests, attendance, presentations, industrial visits, assignments, seminars, workshops, research activities, independent learning, and behavioral aspects ? Transparency in Internal Assessment - After evaluation of the

assignments/tests/projects/ etc. the outcome results are discussed in the class, results are put on the notice board, students are individually counseled, feedback is taken from the students for better assessment, as well as improving the existing standards of assessment. ? Weightage in Internal Assessment - While evaluating students for internal assessment due weight age is given for their behavioral aspects, independent learning and communication skills.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Since the Institute is affiliated to Biju Patnaik University and Technology Rourkela, The institute follows the Academic calendar of the university. Again The Institute prepares the academic calendar in the line of university calendar.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.synergyinstitute.net>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BTech	CIVIL	39	37	94.88
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.synergyinstitute.net>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	3	EDII AHMADABAD	0.2	0.2
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3.2 – Innovation Ecosystem

3.2.1 – 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
National seminar on Women Entrepreneurship : Prospects and Problems	Management	07/03/2019
National seminar on Advance Technology in	CIVIL	20/03/2019

civil engineering		
National workshop on Fixed wing Aircraft	Mechanical	14/03/2019
National workshop on Rural Electrification using green resources	Electrical	06/10/2018
Seminar on World of cement and concrete	CIVIL	25/07/2018
Seminar on PEGA Customer engagement and digital process automation software	COMPUTER SC	17/08/2018
National seminar on Recent trends in advanced computing	Computer Science	14/03/2019

3.2.2 – 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
Ph.D Coursework evaluation	Dr.L.D.SAMANT	BPUT	26/09/2018	RESEARCH
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
01	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
0	0

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	MECHANICAL	1	1
National	COMPUTER SCIENCE	1	1
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
0	0
No file uploaded.	

3.3.5 – 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
PERFORMANCE ENHANCEMENT OF SOLAR STILL BY USING REFLECTORSJUTE CLOTHIMPROVED GLASS ANGLE	Dr. B. B. SAHOO AND MRS .CHANDANA SUBUDHI	THE JOURNAL OF ENGINEERING RESEARCH (TIJER)	2019	1	S. I. E. T, DHENKANAL	1
TWO NOVEL GRAPH THEORY BASED ALGORITHM FOR SALIENT OBJECT DETECTION	MR. S. ABHINASH	IEEE INTERNATIONAL CONFERENCE ICCCA18	2018	1	S. I. E. T Dhenkanal	1
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3.3.6 – h-Index of the Institutional Publications during the year. (based 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
PERFORMANCE ENHANCEMENT OF SOLAR STILL BY USING REFLECTORSJUTE CLOTHIMPROVED GLASS ANGLE	Dr. B. B. SAHOO AND MRS .CHANDANA SUBUDHI	THE JOURNAL OF ENGINEERING RESEARCH (TIJER)	2019	1	1	S. I. E. T, DHENKANAL
TWO NOVEL GRAPH THEORY BASED ALGORITHM FOR SALIENT OBJECT DETECTION	MR. S. ABHINASH	IEEE INTERNATIONAL CONFERENCE ICCCA18	2018	1	1	S. I. E. T, DHENKANAL
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	10	0	0
Presented papers	1	0	0	0

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3.4 – Extension Activities

3.4.1 – 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
RED CROSS	Blood donar and motivator asso. And State Govt	8	148
YRC	Blood donar and motivator asso. And State Govt	5	155
NSS	State Govt	3	168

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3.4.2 – 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
Ph.D Coursework evaluation	Recognition	BPUT	3

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Camp	INSTITUTE S.I.E.T, DHENKANAL	VANOMAHOTSAV	7	45
Social activity	S.I.E.T, DHENKANAL	Plantation	6	64
SUNSTROKE AWARENESS PROGRAM	S.I.E.T, DHENKANAL	SUNSTROKE AWARENESS PROGRAM	4	125
NSS	S.I.E.T, DHENKANAL	INTERNATIONAL OMENS DAY	3	84
Gender Issue,	S.I.E.T, DHENKANAL	BRAHMAKUMARI ISHWARIYA VISHWA VIDYALAYA	3	90

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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
0	0	0	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
No file uploaded.					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
UTKAL ASBESTOS	01/08/2018	INDUSTRY INSTITUTE INTERACTION	355
NAV BHARAT VENTURES PVT.LTD.	22/04/2019	INDUSTRY INSTITUTE INTERACTION	355
JIT MULTILAYER PRIVATE LIMITED	18/07/2018	INDUSTRY INSTITUTE INTERACTION	355
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
250000	208416

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh)	Existing

during the current year	
Classrooms with Wi-Fi OR LAN	Existing

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
INSTITUTE OWN DEVELOPMENT SOFTWARE	Fully	SQLSERVER 2000 OFFICE XP	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	5060	46586	13	31	5073	46617
e-Books	499	0	39	0	538	0
e-Journals	1158	0	0	0	1158	0
Digital Database	1162	0	291	0	1453	0
CD & Video	744	0	0	0	744	0
Others (specify)	375	0	0	0	375	0

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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 & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	340	163	30	60	60	4	23	10	0
Added	0	0	0	0	0	0	0	0	0
Total	340	163	30	60	60	4	23	10	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

10 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
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4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1100000	1054646	300000	263662

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Adequate infrastructure facilities are key available for effective and efficient conduct of the educational programmes. The growth of the infrastructure thus has to keep pace with the academic developments in the institution. The other supportive facilities in the campus are developed to contribute to the effective ambience for curricular, extracurricular and administrative activities. Regarding policy matters for creation and enhancement of infrastructure, Institution never take any wrong decision for effective teaching and learning process. The institute has well equipped laboratories. Hostels for boys and girls are beautiful. The institute's library is an Associate Institutional Member of DELNET. Students have a free access to the World Wide Web having more than 200 Libraries in 20 states of India and five countries abroad. Bank facilities, Gymnasium, Canteen, Market Complex, Transport facilities, Medical Aid Centre etc. are available in the campus. Facilities exist for both indoor games and outdoor games sports activities. Basketball court, Volleyball court, Cricket and Football fields are available which students use during free times. Interested students are encouraged to register their names with the incharge faculty members for participation in various activities. Boys' and girls' hostel common rooms are equipped with indoor games facilities like Table Tennis, Carrom, Chess. Additionally, all the hostels including the Girls' hostel have ultra modern Multi GYM for physical fitness and bodybuilding of both boys and girls. Badminton court is a common feature in each hostel. Detail the facilities available for a) Curricular and cocurricular activities - classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, specialized facilities and equipment for teaching, learning and research etc. b) Extra-curricular activities - sports, outdoor and indoor games, gymnasium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc. Sl.No FACILITIES NUMBER 1. Classrooms 50 2. Technology enabled learning space 02(Drawing halls) 3. Seminar halls 07 4. Tutorial spaces 12 5. Laboratories 56 6. Botanical garden 02 7. Equipments for teaching learning and research LCD,NPTL,ejournal Extracurricular facilities Sl.No FACILITIES NUMBER 1. Sports 01 2. Basketball court 01 3. Volleyball court 01 4. Cricket practice ground 01 5. Lawn tennis 01 6. Badminton court 02 The institution is having separate facilities with ramps for the physically challenged persons. There are no physically challenged students admitted till date. ? Hostel Facility - Accommodation available Ans: Yes ,for both boys and girls. ? Recreational facilities, gymnasium, yoga center, etc. Ans: Yes gymnasium, yoga center available. ? Computer facility including access to internet in hostel Ans: Yes,with WIFI technology . ? Facilities for medical emergencies Ans: Doctors chamber with physician and all first aid medicine and dressing equipments, 24 hours vehicle for medical services. ? Library facility in the hostels Ans: For campus hostel library main library remains open till 10PM on all working days and on Sunday from 9.30AM to 4.30 PM. Regarding the provisions of Health care, FirstAid facility are available including 24 hour

vehicle for medical service . Doctors on emergency call are made available in on campus and off campus as and when necessary.

<http://www.synergyinstitute.net>

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	Merrit Scholarship	0	0
Financial Support from Other Sources			
a) National	Prerana Bihar Govt Scholarship	189	6656000
b) International	0	0	0
View File			

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
Soft skill development,	09/07/2018	209	ARIFINLIMITED BHUBANESWAR
Remedial coaching	02/11/2018	450	Institute
Language lab	10/07/2018	580	Institute
Bridge courses	09/07/2018	580	Institute
Yoga, Meditation	09/07/2018	580	Institute/ Brahmakumari Iswaria Viswavidyalaya
Personal Counselling and Mentoring	06/08/2018	580	Institute
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	PREPLACEMENT TRAINING	270	270	125	49
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance
---------------------------	--------------------------------	-----------------------------------

		redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
WIPRO INFRASTRUCTURE (P) LTD	35	12	NIL	0	0
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	0	0	0	0	0
No file uploaded.					

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

Items	Number of students selected/ qualifying
GATE	2
View File	

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

Activity	Level	Number of Participants
100 MTR RUN	INSTITUTE	34
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	00	National	0	0	0	0
No file uploaded.						

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

The College has a wide range of sports, games, cultural and extracurricular activities that are available to the students. The college has always created a nice atmosphere for itself in the field of sports. The college provides excellent sports and games facilities in cricket, volley ball and basket ball. Basketball court, volleyball court, Lawn tennis court and cricket field are already exist inside the campus. Our students won prize in different intercollege sport competitions. Various cultural and extracurricular

activities like folk dances, classical singing, group singing, traditional heritage items, fine arts items, Quiz, Literary items are offered to the students. College also organizes annual Sports and annual function in the college campus.: "SYNERGY" encourages its students to publish materials like college magazine, wall magazines. The students are motivated to express their talent through articles, paintings, and graffiti. Their Creativity is given a free flight. The college magazine provides them with a platform to express them. The teachers motivate the students to bring out the creative genius in them. The institution also encourages the staff members to attend conferences and to publish papers in national and international levels. There are two class representatives (one boy and one girl) from each section. They are selected unanimously. If unanimous selection is not possible then HOD nominates the class representatives. These class representatives takes lead roll from students side on different occasion. The institute believes in giving the equal opportunity to the students in supporting the authorities in different affairs of the college. For this the college endeavors to provide them with opportunities to participate in the various bodies. The details of having students' representation are: NCC, NSS, RED RIBBON CLUB, ROTARACT, CULTURAL.SPORTS, ETC.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institution keeps pace and relation with former faculty and the Alumni to take advise on the institutional academic and other development. It keeps touch with them through the Alumni association, face book, mail id etc and through alumni meet annually.

5.4.2 – No. of enrolled Alumni:

205

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1

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)

Vision To become an internationally acceptable institute of technical education which always promote pursuit of excellence and inculcation Mission. To impart quality education and technological skill. To empower student with professional competencies for meeting global changes. To inculcate the habit of continual learning. To nourish the qualities of leadership, entrepreneurship, innovation and ethics. To create an outstanding ambience of academics, intellectual pursuits, innovative research and physical activities.

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 institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<p>The curriculum development is done by the university. As affiliated colleges we cannot develop the curriculum, but participate in curriculum development with proper feedback and put suggestions for the development of the curriculum from time to time.</p>
Teaching and Learning	<p>"Synergy Institute of Engineering and Technology" has its own teaching strategy to provide quality education to its students, so that they can compete globally. For this the college upgrade its laboratories keeping in view to the market need. Teaching Faculty, NonTeaching Staff ,Teaching Learning Student Evaluation CHAIRMAN , Principal , HOD Mech , HOD Civil, HOD EE,HOD ETC , HOD CSE</p> <p>Director,Administration, Account Purchase, Budget ,Training Placement Officer The college has a very good library with more than 1584 number of reference books. The college also subscribe journals to keep the faculty as well as the student's up to date in technology. The college has a mechanism in place for evaluating the teaching staff which is done at the end of the academic year. The HODs study the feedback forms and discuss with the staff, the improvements that have to be implemented. Soon after a student is admitted, The College has made provision for assessing students knowledge and skills for particular programme. Other than the lecture method of teaching, group discussion, field studies, debates, tutorials, seminars, study tours, competition on different subjects etc. are adopted for proper understanding of the subjects.</p> <p>The college has well experienced faculty members. The library staff is well qualified and their experience is used in updating library for the optimum use by the students. The College on its own conducts seminars, workshops etc. for the teachers to enrich their knowledge and skills. Also the teachers are encouraged to attend seminar and workshop in reputed institutes.</p>
Examination and Evaluation	<p>1.The semester examination is conducted by Biju pattnaik University of Technology. 2.Internal examinations</p>

done by the Institute. Our institute is the evaluation of online paper checking for BPUT exam ,Rourkela.

Research and Development

R D is an integral part of our institute. The faculties as well as students are encouraged for research work in addition to their regular work. A fullfledged research lab is functioning under the guidance of a retired professor from IIT Kharagpur, .In the past few years a good number of our faculties have registered for M. Tech. and Ph.D. programmes, with some almost on the verge of completion of the degrees. Other research activities of the departments include presentation and publication of research papers in seminars, conferences and journals and to take different project works.

Library, ICT and Physical Infrastructure / Instrumentation

- Library has been digitalized using own developed software.
- Computerized issue,return system
- Barcoding system followed
- Digital library facility to students and staff.
- EJournal available through DELNET
- The learning materials such as NPTEL, Class notes,Question bank etc available for access through our server.
- 10 No.s of computers with Internet facilities in Elibrary
- Issue of Education CD/DVD are to the users
- Reference book issue facility on overnight basic Library

Details : Library Area: 800sqm Library Timing is : Working day8AM to 10PM Holiday9.30AM to 4.30 PM Total no. Of Title: 5077no.s Total no. Of Books: 4639no.s Total no. Of EBooks: 568no.s Total no. Of EJournals: 33no.s1158 no.s(National and International journals through DELNET) Total no. Of Magazines: 25 no.s Total no. Of Newspaper: 14 no.s Reading Room Capacity: 120 nos. Reprography Facility: 01 Machine Student Book Issue Ratio: 1:5 Department library: Nine(09) departments Girls Hostel also. Digital Library: Total no of Computers: 10 nos Digital Class Notes: 71 nos Digital Journal Articles: 125 nos. Digital Question Bank: From 2011to 2018 Digital Short Type: 193 nos. Question Answer NPTEL Course Material: 271 nos Videos ICT: NPTEL, DELNET, Digital library, Digital class notes

Human Resource Management

The institution has a progressive transparent recruitment policy. As an educational institution the main human

resource is faculties. Faculty recruitment starts from the open advertisement in the regional and national newspaper. After thoroughly scrutinizing the application the selected candidates are called for interview. The interview is conducted department wise by a committee headed by the concern HOD. The committee recommend the selected candidates name to the principal who take the final decision with consultation with the management. For the lab Asst. post the selection procedure is same as for the faculty. For office staff the recruitment is conducted by the registrar. For all the post the candidates are appointed on probation for a stipulated period depending on post. After successful completion of the probation period they are appointed on a regular scale. Quality is given the highest priority by the management. To maintain quality, performance based incentive is given to the employees. The faculties are encouraged to do research work, publish paper in reputed journals and apply for projects in different agencies. The department functions as an independent body. There is no interference of the management in day to day affairs of the department except routine review.

Industry Interaction / Collaboration

Industry interaction is the integral part of the technical education. To make the students more industry oriented our institute arrange industrial tour every year for the 3rd year students. After their industrial visit they give a presentation before their department staff. Apart from this seminars are also organized where people from industries are invited to give talk and interact with the students .

Admission of Students

4 year B Tech students are admitted through JEEMAIN entrance. 3 year lateral entry BTech entry students admitted through odisha JEE entrance. 2 year MTech students admitted here through odisha JEE entrance.

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

E-governance area	Details
Administration	The institution is administered by the SIVANI Education and Charitable Trust . The Management, the Principal and the

faculty are always stepping in together for designing and proper applications of the quality policy and plans. The Principal of the college is the head of the institution and is always there to provide requisite leadership to the system. The Principal ensures that all provisions of the University byelaws, the Statutes and the regulations are observed. He also convenes meetings of the Academic council, various others bodies and performs all such acts as may be necessary to carry out and give effect to the decisions of the said bodies. Importantly, the Principal provides academic leadership and in association with the various faculties, evolves strategies for academic growth. The faculty is actively involved in decisionmaking process. The teachers hold periodic meetings in department level or through the committee. The recommendations taken in the meeting are submitted to the Managing Committee and the Management arrives at suitable decisions for implementation. Hence they are actively involved in the decisionmaking process to sustain and enhance quality of education imparted by the institution. The Principal is both the academic and the administrative head of the institution. He is accountable for achieving excellence in the college in all the parameters of the predefined mission components. He is appropriately empowered and has autonomy to achieve the objectives. He identifies the abilities of the individuals and assigns their responsibilities to them. The Principal guides and motivates all others staff to achieve their institutional goals and objectives. He is a bridge between management and faculty /nonteaching staff. The management of the college communicates with the principal and the staff members. The problems and issues related to college development, administration, infrastructural needs and student disciplines are discussed in the frequently conducted meetings between the management and different committees. In the meetings responsibilities are defined and communicated to the staff. If situation demands the director of the institution conducts meeting with teachers to communicate directly and bestows the

responsibilities. The teaching as well as the nonteaching staff follows on the instructions and obey the order in the interest of the institution..

Finance and Accounts

The institution has an effective internal control system to monitor effective and efficient use of available financial resources. The institution has appointed M/S Sourya prakash Mohapatra (Sourjya And Biswajit) as chartered accountant, Cuttack, to carry out internal audit for the FY 201314. The external audit of the institution is done by M/S Kiran .c. Sethaia, Cuttack, chartered accountants since inception

Student Admission and Support

4 year B Tech students admitted through JEEMAIN entrance test. 3 year lateral entry BTech students admitted through Odisha JEE Entrance test 2 year MTech students admitted through Odisha

Examination

Examination and Evaluation: 1. The semester examination is conducted by Biju pattnaik University of Technology. 2. Internal examinations, assignment quiz test, surprise test, lab test, are conducted by the Institute. 3. External examiner is involved for the evaluation of final year Projects and comprehensive viva The university examination evaluation is conducted online system. Our institute is one of the evaluation centre, where the faculty members are assigned to evaluate the papers online semester wise.

Planning and Development

1 Institutional Vision and Leadership State the vision and mission of the Institution and enumerate on how the mission statement defines the institutions distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institutions traditions and value orientations, vision for the future, etc. Vision To become an internationally acceptable institute of technical education which always promote pursuit of excellence and inculcation of human values. Mission :To impart quality education and technological skill . To empower student with professional competencies for meeting global changes. To inculcate the habit of continual learning. To nourish the qualities of

leadership, entrepreneurship, innovation and ethics. To create an outstanding ambience of academics, intellectual pursuits, innovative research and physical activities. Objectives :Competency based education and training to the students. Continual improvement. Team work and total involvement of faculty and support staff. Continual upgradation of knowledge skills and attitude of faculty and support staffs. Total involvement of Students. Optimum utilization of resources and interaction with the industry. Goal. To make synergy a preferred place to work and study Long Term Goals. To forge strong alliances with National and International organizations for academic and RD activities in thrust areas of Engineering, Technology. To reach the pinnacles through continual nurturing and updating of intellectual skills, stimulate the qualitative teaching and learning practice. To establish a Deemed University in near future in the field of Engineering Technology with the expertise of enormous experience in respective fields. Short Term Goals To Establish Active Industry Departmental interactive programs for students and faculty in teaching and research areas. To establish full fledged Employability Enhancement Centre for the benefit of the students. To achieve academic efficiency with the help of experienced committed mentors and would them to be proficient technocrats. Quality Policy. Synergy is committed to impart quality education and training in the field of engineering and technology to the utmost satisfaction of the students. It aims to be an institute of excellence, which facilitates to :enrich academics, develop personality and update knowledge of students through continual improvement to match the global needs. SIET Philosophy. To groom the students to become intellectually creative and professionally competitive. To explore the opportunities in the professional fields. To channelize the activities and tune them in heights of commitment and sincerity, the requisites to climb the never ending ladder of success year after year. The institution has adopted participatory managerial principles to

ensure progress through the following practices: The flow of information is always from lower level to higher.

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
2019	Prof.S.S.Pati	One day workshop on approval process 20192020	Heritage Institute , kolkata	7086

[View File](#)

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	International Yoga Day	International Yoga Day	21/06/2019	21/06/2019	20	30

[View File](#)

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Faculty Enablement Programmes	1	04/06/2018	08/06/2018	5
Corporali Social Responsibility	2	14/11/2018	14/11/2018	1
Orientatio program conducted by NTA as Centre Observer	3	02/12/2018	02/12/2018	1
Workshop on Approval process 201920	1	27/01/2019	27/01/2019	1
Workshop on Examination	1	21/01/2019	21/01/2019	1

Reform conducted by AICTE				
Solid Waste Management	1	13/06/2019	13/06/2019	1
Equity action plan	2	04/06/2019	04/06/2019	1
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
98	98	104	104

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
EPF/ESI	EPF/ESI	WELFARE FUND OF BPUT

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The institution has an effective internal control system to monitor effective and efficient use of available financial resources. The institution has appointed M/S Sourya prakash Mohapatra (Sourjya And Biswajit) as chartered accountant, Cuttack, to carry out internal audit for the FY 201314. The external audit of the institution is done by M/S Kiran .c. Sethaia, Cuttack, chartered accountants since inception.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
government bodies (EDII Bangalore)	20000	Research development
View File		

6.4.3 – Total corpus fund generated

435132791

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	SIT, BBSR	Yes	Internal audit team
Administrative	Yes	SIT, BBSR AND M/S Sourya prakash Mohapatra (Sourjya And Biswajit) as chartered accountant,	Yes	Internal audit team

Cuttack, to carry out internal audit for the FY 201314. The external audit of the institution is done by M/S Kiran .c. Sethaia, Cuttack, chartered accountants

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

Every year three to four times the parents are coming to attend the parent’s meet for discussing their student’s growth. Parents are always in touch with the mentors for their child’s growth. Parents can contact any faculty for any kind of information. Parents can meet the HODs of different departments for the discussion for their wards performance and future action.

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

The staffs are motivated in the staff council meeting held twice or thrice in a year. Staffs are encouraged by achievement awards in the institute. Staffs are also participating in annual games and sometimes organizing cricket matches for their good health. Nonteaching staff(Lab.Asst) are encouraged for higher studies and short term courses. Office staff also take training on office automation.

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

TO CREATE NEW STARTUP PROJECTS WITH STUDENTS TO MAKE MORE CENTER OF EXCELLENCIES TO MAKE MORE NO OF RESEARCH PAPERS

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	No

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
2019	National Seminar	14/03/2019	14/03/2019	15/03/2019	349

[View File](#)

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants
------------------------	-------------	-----------	------------------------

			Female	Male
ANNUAL FUNCTION SYNFFEST2019	14/02/2019	15/02/2019	205	345
WOMENS DAY CELEBRATION	07/03/2019	08/03/2019	75	20
RESONANCE	14/03/2019	14/03/2019	25	75
MECHABASS	16/03/2019	16/03/2019	5	100

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

Percentage of power requirement of the University met by the renewable energy sources

There is no formal conducting of green audit in the institution but the institution is eco friendly. Lot of expenditure is incurred to make the campus eco friendly. The institute has started Green audit in 2014 which includes ? Audit of Power ? Waste Disposal ? Audit of plantation ? Water Harvesting 7.1.2 What are the initiative taken by the college to make the campus ecofriendly? Energy Conservation Use of renewable energy Water harvesting Check dam construction Efforts for Carbon neutrality Plantation Hazardous waste management. ewaste management. The college campus is totally eco friendly. For this the management, the head of the institution and the whole staff has taken initiation to make campus area neat and clean. This apart, the institution has taken several other steps/initiatives to make the campus ecofriendly: Energy Conservation: ? The college campus is overly warm and overly cold. The college class rooms are so airy and well lighted that they hardly need any artificial lighting. ? Energy saving equipments recommended for operational areas such as kitchen, service, housekeeping etc. ? Switching off/unplugging fans, lights. Use of renewable energy. Institution has implemented the following in different department, ? "SOLAR STILL" for distilled water to be used in institute vehicle available at Mechanical department. ? Bio gas of 2m3 production capacity generated from organic hostel wastes used for cooking Ic. engine application developed by mechanical dept. ? Production of "syngas" for cooking generated from waste plastics using biomass gasification developed at mechanical dept. ? Power generation from "wind energy" available at roof of tiffac core building developed by mechanical dept. ? "solar lighting" at our institute park developed by mechanical dept. ? "Hybrid Ebike" for campus visit developed by mech. dept. ? "Solar powered electric vehicle" for campus visit developed mech. Dept. Institution is going to be developed the following in different department, . ? "Solar electrification" for library reading room to be developed by mech. dept.(proposed). ? "Solar heating" of water supply to institute hostel to be developed by mech. dept.(proposed). Water harvesting: Under Processing . -To be developed by civil department Check dam construction: Under Processing To be Developed by civil department Efforts for Carbon neutrality: The college at its own level has taken up certain preventive measures to check the emission of carbon dioxide. The institution has comeup with innovative practices by computing the Oxygen by using formula generated inside the campus area. Such project will be taken care of by the students in the campus.The college has made arrangements for the parking of the vehicles of the students in the college ground. This helps in keeping the campus as much as possible clean. The dead leaves and the waste papers are not allowed to be put on fire. The leaves are buried in the soil itself and the papers

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			

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

No Data Entered/Not Applicable !!!

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

The main objectives of evaluation procedures are: (a) The system of evaluation should be adequate and comprehensive so as to measure different types of skills. (b) The system should provide a feedback: 1. to the students regarding their strengths and weaknesses and 2. to the teacher as to how far she/he has been able to benefit the students and to modify his/her approach and teaching methods. (c) To evaluate the performance by a method, that will be free from subjectivity and be accurate as far as possible. The evaluation system, as adopted by "Synergy Institute of Engineering and Technology" , has two components, viz, 1. The Continuous Internal Evaluation (CIE) 2. The End Semester Examination (ESE) The ratio of weightage is 30 in CIE and 70 in ESE for UG and 50 in CIE and 50 in ESE for PG. The answer scripts are given back to the students after evaluation for their information, providing sufficient transparency and accountability. The core objectives of introducing of doubt clearing classes and question banks are: To clear the doubt of the student on any subject if he/she is absent in the class due to any serious medical problem. The doubt clearing classes also be taken in case of a group of students are unable to understand the course properly due to standard of their teaching career. Question banks are a part of the innovative and best practices to make the entire student aware about the possible questions to attain in the coming examination. For through revision of the course taught in the class room through different question pattern. To discuss different field application models of the technology. To solve different critical problems and simulation model. To train students on visualizing and perceiving future technology requirement and generate new statement of equation for research activities.

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

<http://www.synergyinstitute.net>

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

The Institution takes necessary efforts in the form of Quiz, Debate and Poster Competition on the issues like Gender sensitization, Climate Change. Institution was organized an environmental awareness programme in collaboration with state pollution control board, Angul branch, in 2013. STRENGTHS: Experienced and qualified faculty. Good Infrastructure and well equipped Laboratories ? State of art Library. Computer Centre, Internet Connectivity with WiFi facility. Training and Placement Cell. Clean, green and smart campus. Incubation centre , IQAC cell, Well connectivity by road and rail Sports complex, Green computing, ATM and digital payment facility, NCC/NSS/ROTRACT/REDRIBBON club, Department Library, Alumni, Availability of latest software .

Provide the weblink of the institution

<http://www.synergyinstitute.net>

8.Future Plans of Actions for Next Academic Year

? To establish a fullfledged Entrepreneurship Development Cell . ? It also sets out a clear plan of action to inspire the next generation of engineers and ensure that Basic Science and Humanities helps our society to achieve its best educational, environmental, health and economic potential. ? To implement innovative teaching methods to involve the students for their bright future. ? To provide the opportunity to be part of a distinctive experience that offers exceptional opportunities for research and learning on campus, in the community, and around the world. ? Communication skills of the students have to be improved. It is proposed to conduct programmes for improvement of the communication skills of students.