



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		SYNERGY INSTITUTE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		Dr .P.K.Nayak
Designation		Director
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		06762225905
Mobile no.		9437292409
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

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>Self financed</b>
Name of the IQAC co-ordinator/Director	<b>Dr Jayashree Singh</b>
Phone no/Alternate Phone no.	<b>06762225905</b>
Mobile no.	<b>9861187636</b>
Registered Email	<b>sietdkl@synergyinstitute.net</b>
Alternate Email	<b>snehaljayashree@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.synergyinstitute.net/downloads/naac/aqar-2018-19.pdf">https://www.synergyinstitute.net/downloads/naac/aqar-2018-19.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://synergyinstitute.net/downloads/academiccalendar19-24.pdf">https://synergyinstitute.net/downloads/academiccalendar19-24.pdf</a>

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

<b>6. Date of Establishment of IQAC</b>	<b>13-Jan-2014</b>
---	--------------------

<b>7. Internal Quality Assurance System</b>
---

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
<b>A Two Day National</b>	<b>30-Oct-2019</b>	<b>200</b>

Workshop On	2	
National Workshop On	21-Oct-2019 1	350
Recent Advancement in Artificial Intelligence & Machine Learning Techniques, sponsored by TEQIP-III, BPUT, Odisha	22-Jan-2020 1	264

L::asset('/', 'public') .'/public/index.php/admin/get\_file?file\_path='.encrypt('Postacc/Special\_Status/'. \$instdata->upload\_special\_status))}

[View Uploaded File](#)

**8. Provide the list of funds 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	2020 0	0

[View Uploaded File](#)

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

Yes

Upload latest notification of formation of IQAC

[View Link](#)

**10. Number of IQAC meetings held during the year :**

2

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 Uploaded 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 webinars and workshop were organized on online mode due to COVID19  
 • research paper were published in various international journal of repute  
 • Industry Institute interaction was strengthen  
 • Attempts were made to establish different Center of excellence  
 • Various programmes on Entrepreneurship development under MSME/IED  
 • Our Institute have applied various start up projects through our Incubation centre and students are also working for various projects

[View Uploaded File](#)

**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
1. At least FOUR seminar and workshop should be conducted.	1. FOUR seminar and one workshop had been conducted.
<a href="#">View Uploaded File</a>	

**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
HOD COUNCIL MEETING	02-Jan-2020

**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

2020

Date of Submission

22-Mar-2020

**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](http://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. Ex

## 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.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	30/01/2018	0	NIL	NIL

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Bachelor of Computer Science	NIL	13/05/2020
<a href="#">View Uploaded File</a>		

#### 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	02/07/2019

#### 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
Entrepreneurship projects	16/10/2019	150
National level awareness camp organised by MSME-DI, Cuttack in collaboration with ED CELL	17/01/2020	98
Student Induction Training Program	27/08/2019	150

[View Uploaded File](#)

#### 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	ME	92
BTech	EE	48
BTech	CSE	68
BTech	CE	32
BTech	ETC	0

[View Uploaded File](#)

### 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	ETC	30	0	0
BTech	CE	60	12	12
BTech	EE	60	25	25
BTech	ME	60	27	27
BTech	CSE	60	61	61

[View Uploaded File](#)

### 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
2019	237	0	78	0	78

### 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
78	78	25	16	16	1363

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

#### 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.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
237	16	1:15

## 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
96	96	0	8	9

### 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
2019	1	Professor	1
No file uploaded.			

## 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/4THYEAR	20/07/2020	13/08/2020
<a href="#">View Uploaded File</a>				

### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

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 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	CE	24	20	83.34
UG	BTech	CSE	67	63	94.03
UG	BTech	EE	43	42	97.68
UG	BTech	ETC	9	8	88.89
UG	BTech	ME	46	42	91.31

[View Uploaded File](#)

## 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
Projects sponsored by the University	4	BPUT	8.18	8.18

[View Uploaded File](#)

### 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 Workshop On "Additive Manufacturing And 3D Printing (Ama3p-2019)"	ME	21/10/2019
Behaviour Of Shallow Strip Foundation On Granular Soil Under Eccentrically Inclined Load	CE	02/11/2019
Recent Advancement in Artificial Intelligence Machine Learning Techniques, sponsored by TEQIP-III, BPUT, Odisha	ETC	22/01/2020
Integration of Distributed Energy Sources"	EE	29/06/2020
TEQIP-III BPUT sponsored one-day National Seminar on Treatment Utilization of Industrial Mining waste For Sustainable Environment (TUIMW-2020)	CHEMISTRY	24/02/2020
Grow your Career with Inbound Methodology in 2020	CSE	20/06/2020
Start up initiative	MANAGEMENT	23/06/2020

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
00	00	00	01/02/2020	0
No file uploaded.				

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	23/06/2020
<a href="#">View Uploaded File</a>					

### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	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
------------------------	-------------------------

00	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)
International	me	3	1
International	EE	5	5
<a href="#">View Uploaded File</a>			

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
ME	1
<a href="#">View Uploaded File</a>	

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
Design and Construction of a multipurpose remote controlled robotic arm	Prof. Ramesh Chandra Panda	International Journal of Engineering and Advanced Technology (IJEAT)	2020	5	yes	5
"Sustainable Solid Waste Management and Vertical Growth Tower in Urban Area."	Prof. Ramesh Chandra Panda	International Journal of Engineering and Advanced Technology (IJEAT)	2020	5	yes	5
A simple solution for power flow problem using Gauss Seidal method In MATLAB	Dr. L. Dhall Samant	International Journal The International Journal of Analytical and Experimental Modal Analysis Vol-XI, Issue-IX, Sept-2019	2019	5.3	yes	5

[View Uploaded File](#)

### 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
Characterization and utilization of coal Fly ash	Dr. Subhakanta Dash	Journal of Emerging Materials Research (A Scopus Indexed Journal)	2020	5	5	YES

[View Uploaded File](#)

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	17	0	0
Presented papers	2	0	0	0

[View Uploaded File](#)

## 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
Blood donation camp	Odisha blood bank Dhenkanal	35	92
NCC	S.I.E.T,Dhenkanal	2	30
Plantation drive (NSS)	S.I.E.T,Dhenkanal	10	145

[View File](#)

### 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
National level project competition	2nd	Prayash 2020 held at TITE, Bhubaneswar	260
the Highest Blood donor's Trophy	the Highest Blood donor's Trophy	Honourable Minister during celebration of Republic Day parade on 26th January 2020	200

Red cross Counselor and officer	Sebashree Award	from the Honourable Governor of Odisha on the occasion of World First aid Day	700
dist level flower exhibition and garden competition	1st position	organized by rotary club dhenkanal	700
<a href="#">View File</a>			

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
IDY-2020	S.I.E.T,Dhenkanal	International Yoga Day celebration	55	170
EMPOPWERING YOUTH	S.I.E.T,Dhenkanal	Fit India movement	11	255
NSS	S.I.E.T,Dhenkanal	Plantation drive	10	145
Gender sensitization program	S.I.E.T,Dhenkanal	WOMEN'S Day celebrations	25	150
<a href="#">View File</a>				

### 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
nil	nil	nil	0
<a href="#">View File</a>			

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
BPUT CURRICULUM	SUMMER INTERNSHIP	CTDC ,BHUBA NESWAR	06/06/2019	06/07/2019	12
BPUT CURRICULUM	SUMMER INTERNSHIP	RSP ,ROURKELA	06/06/2019	06/07/2019	4
BPUT CURRICULUM	SUMMER INTERNSHIP	GMR ,KAMALA NGA DHENKANAL	06/06/2019	06/07/2019	6
BPUT CURRICULUM	SUMMER INTERNSHIP	ARATI STEEL ,GHANTIKHAL	06/06/2019	06/07/2019	8

		,CUTTACK			
BPUT CURRICULUM	SUMMER INTERNSHIP	OHPC, RENGALI KANIHA TALCHER	06/06/2019	06/07/2019	7
BPUT CURRICULUM	SUMMER INTERNSHIP	TATA CUMINS PVT LTD, JAMSHEDPUR	06/06/2019	06/07/2019	3
BPUT CURRICULUM	SUMMER INTERNSHIP	NALCO ANGUL	06/06/2019	06/07/2019	13
BPUT CURRICULUM	SUMMER INTERNSHIP	IDCOL, FERR OCHORM, JAJPUR	06/06/2019	06/07/2019	1
BPUT CURRICULUM	SUMMER INTERNSHIP	HAL SUNABEDA	06/06/2019	06/07/2019	3
BPUT CURRICULUM	SUMMER INTERNSHIP	TATA STEEL (BSL) DHENKANAL	06/06/2019	06/07/2019	3

[View File](#)

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
Redhat Linux	30/07/2019	INTERNSHIP	250
Nava Bharat Ventures Ltd.	04/02/2020	INTERNSHIP	220
Utkal Asbestos	27/11/2019	INTERNSHIP	200

[View File](#)

## 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
116	19

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
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added

No file uploaded.

## 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Fully	Ubuntu 20.04.6 LTS	2023

### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	5190	47618	4	26	5194	47644
e-Books	510	0	35	0	545	0
e-Journals	1158	0	280	0	1438	0
Digital Database	1120	0	45	0	1165	0
CD & Video	745	0	0	0	745	0

[View File](#)

### 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
Dr. Subhakanta Dash	SPECTROSCOPIC TECHNIQUES AND APPLICATIONS	E-LIBRARY	29/06/2020

[View File](#)

## 4.3 – IT Infrastructure

### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	340	163	30	60	60	4	23	10	0
Added	205	117	30	0	0	36	22	300	0
Total	545	280	60	60	60	40	45	310	0

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

300 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
Digital library	<a href="http://www.synergynstitute.net/digital">http://www.synergynstitute.net/digital</a>



#### 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
11	4	28	10

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.

[www.synergyinstitute.net](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	merit scholarship	591	10644260
Financial Support from Other Sources			
a) National	S.C. scholarships, S.T. scholarship, OBC scholarship	179	8428000
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 implementation	Number of students enrolled	Agencies involved
Soft skill development,	21/09/2019	221	ARIFIN LIMITED BHUBANESWAR

[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	64	240	5	206
2019	INDUSTRIAL TRAINING	43	657	0	206

[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
V-CREATE INFORMATION TECH(P) LTD	56	6	COGNIZANT	9	2
<a href="#">View File</a>					

#### 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	1	bput	civil engineering	UCE	Mtech
<a href="#">View File</a>					

#### 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
Civil Services	1
<a href="#">View File</a>	

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

Activity	Level	Number of Participants
100 MTR	institute	300
<a href="#">View File</a>		

### 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	District Athletic Meet	National	2	Nil	cs-19-22	01
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 take lead role from students side on different occasions. 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 advice 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:

8000

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

42000

5.4.4 – Meetings/activities organized by Alumni Association :

1. To act as resource person in webinars and seminars 2. provided scholarship to students for best performance in academics 3. To help in placement and training activities 4. to donate important books for higher education 5. to help in project works

### 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
---------------	---------

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.
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 .
Human Resource Management	<p>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.</p> <p>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.</p>
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 day 8AM to 10PM Holiday 9.30AM 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.s 1158 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 2011 to 2018 Digital Short Type: 193 nos. Question Answer NPTEL Course Material: 271 nos Videos ICT: NPTEL, DELNET, Digital library, Digital class notes

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 full fledged 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

Examination and Evaluation

1.The semester examination is conducted by Biju pattnaik University of Technology. 2.Internal examinations done by the Institute. Our institute is the evaluation of online paper checking for BPUT exam ,Rourkela

Teaching and Learning

"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

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.

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

Curriculum Development

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

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

E-governance area	Details
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.

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 other staff to achieve their institutional goals and objectives. He is a bridge between management and faculty / non-teaching 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 their responsibilities. The teaching as well as the non-teaching 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 B Tech 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.

### 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	Mr.S.S.Pati,	49TH ISTE National Annual Faculty Convention 2019	Siksha'O' Anusandhan, Bhubaneswar	1000

[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)
2020	faculty orientation/induction programme	faculty orientation/induction programme	20/01/2020	21/01/2020	65	46

[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
AICTE sponsored FDP on 'Student Induction Training Program'	2	06/07/2019	08/07/2020	3
5 day STTP on "Renewable Energy Sources Emerging Technologies"	1	22/07/2019	26/07/2019	5

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

82	82	84	84
----	----	----	----

#### 6.3.5 – Welfare schemes for

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

### 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
ALUMINI	42000	SCHOLARSHIP FOR DEPRIVED SCHOLAR STUDENTS
<a href="#">View File</a>		

#### 6.4.3 – Total corpus fund generated

464384826
-----------

### 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	AICTE, BPUT	Yes	Nil
Administrative	Yes	AICTE, BPUT	Yes	Nil

#### 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	Yes
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 SEMINARS/WORKSHOPS/STTPS CONDUCTED	30/10/2019	30/10/2019	31/10/2019	70
<a href="#">View File</a>					

## 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 SYNFFEST2020	28/02/2020	29/02/2020	310	395
WOMEN'S Day CELEBRATION	08/03/2020	09/03/2020	120	25
ANNUAL SPORTS	17/01/2020	18/01/2020	120	180
Blood donation camp	09/11/2019	09/11/2019	45	85
NCC ACTIVITIES	Nil	Nil	12	38

#### 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 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 eco friendly: 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 ecommended 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	1
Physical facilities	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	1

#### 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
2019	1	1	29/08/2019	1	Fit India movement	To Train Students for Community with skill	250
<a href="#">View File</a>							

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

Title	Date of publication	Follow up(max 100 words)
<p style="text-align: center;">Induction training program</p>	<p style="text-align: center;">21/09/2019</p>	<p>Human values refer to the basic inherent moral inclinations towards kindness, honesty, loyalty, love, peace, sympathy, truth etc. that enhance fundamental goodness of human beings and society at large. They are the values that human beings cherish and hold in common, consciously and otherwise, in most of the places and times and practice them. Human values help in understanding the attitude, motivation, behaviour, and also influence one's perception about the world. They enable the interpretation of "right and wrong" and provide the ways to understand humans and organizations. The principal human values are discussed in brief as follows:Discipline: Discipline indicates regulated values followed by the individual for all beings. It contains values like regulation, direction, order, etc. Values are to be learned through practices to form the foundation of strong human culture. Hence, the administrators and teachers in HEIs need to bear in mind that their peers and learners learn values from their conduct and behaviour. Institutions having better human values flourish and get recognition.</p>

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Code of ethics and conduct for the	19/09/2019	18/06/2020	237



students

[View File](#)

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

Green Campus Initiative. St. ... Practice: • The college conducts a health education program every year on June 5th, Environmental. ... Solid waste management. ... Bicycles. ... Water purification plant. ... Plastic Free Campus. ... Rain Water Harvesting Mazhakuzhi. ... Biomedical waste Management.

## 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

- 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.