



## Yearly Status Report - 2016-2017

### 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.Malaya kumar Hota
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		06762225905
Mobile no.		9437855446
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>private</b>
Name of the IQAC co-ordinator/Director	<b>Dr.Matru Prasad Dash</b>
Phone no/Alternate Phone no.	<b>09437855446</b>
Mobile no.	<b>9861187636</b>
Registered Email	<b>sietdkl@synergyinstitute.net</b>
Alternate Email	<b>mpdash82@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.synergyinstitute.net">http://www.synergyinstitute.net</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="http://www.synergyinstitute.net/pdf/calendar.pdf">http://www.synergyinstitute.net/pdf/calendar.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>01-Jan-1970</b>
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<b>7. Internal Quality Assurance System</b>
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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>National seminar</b>	<b>03-Mar-2017</b> <b>1</b>	<b>80</b>

National seminar	22-Feb-2017 1	65
No Files Uploaded !!!		

**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	MODROB	AICTE	2017 1	186660
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**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)**

? The development of academic and administrative activities is based on IQAC parameters. ? IQAC promotes art of infrastructure through the collaborations with research and consultancy. ? IQAC is a cell to maintain and sustain the quality parameters throughout the year in all spheres. A separate room has been provided for the IQAC cell as per the IQAC guide lines and one separate IQAC coordinator is in the charge of IQAC

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

Plan of Action	Achivements/Outcomes
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.				
<a href="#">View File</a>					
<b>14. Whether AQAR was placed before statutory body ?</b>	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">HOD COUNCIL</td> <td style="text-align: center;">05-Aug-2016</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	HOD COUNCIL	05-Aug-2016
Name of Statutory Body	Meeting Date				
HOD COUNCIL	05-Aug-2016				
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes				
Date of Visit	10-Dec-2014				
<b>16. Whether institutional data submitted to AISHE:</b>	Yes				
Year of Submission	2019				
Date of Submission	10-Feb-2016				
<b>17. Does the Institution have Management Information System ?</b>	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Management Information System (Synergy Info System SIS) The management information system of our Institute hosted in the portal <a href="http://www.synergy.ac.in/intranet">www.synergy.ac.in/intranet</a> is designed and developed by the Department of Computer Science and Engineering. The ERP System is comprised of the following modules</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3. Course Coverage It helps us to monitor the course coverage of the</li> </ol>				

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 mentor ship. 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

1 State the vision mission and objectives of the institution and describe how these are communicated to the students, teachers, staff and other stakeholders  
**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. **Quality Objectives**  
 1. Competency based Education & Training to the students ? Development of new Curriculum based on the needs of Industry and amended guidelines of AICTE / Utkal University /BPUT/ DTET (Orissa). ? Ensure students getting employment through campus interview. 2. Continual Improvement ? Reduce Failure rate. ? Periodical revision of curriculum. ? Increase in the number of tutor hours. ? Continuous assessment and satisfactory redressing of student grievances. 3. Team work and total involvement of faculty and support staff ? Increase in the number of learning materials. ? Increase in the industrial attachment programmes. ? Increase in continuing education and training programme for industry. ? Improvement in laboratory maintenance and increase in the number of experiments. ? Improvement in extracurricular activities. 4. Continual up-gradation of knowledge, skills and attitudes of Faculty and supporting staff ? Number of industry oriented projects. ? Imparting leading edge technology courses. ? Improving teaching methodology and enhanced education, training and competence of faculty and support staff. ?

Increase in the number of personality training. ? More involvement in the Institutions developmental activities. 5. Total Involvement of Students ? Maintenance of the Environment of the campus and nearby surrounding. . ? Disciplined behavior in the Institution & Society. ? Improvement in communication ability. ? Providing objective feedback for improved instructional delivery. 6. Optimum utilization of resources and interaction with industry ? Shared Equipment / resources with industries and other institutions. ? Programme offered to industries. ? Programme offered to society in general. ? Shared resources / equipment among the departments Communication to Stakeholders - The advisory committee and staff council are two main important academic bodies of the institution. The meetings are held frequently which plan programmes and discuss key issues in tune with the vision and mission of the institution. Decisions taken in the advisory committee and the staff council are communicated properly to the entire students through displaying notices on the notice board and making announcements in the class rooms. The following criterion is followed to communicate the vision, mission and objectives of the college to the stakeholders: ? Communicated to the stakeholders during orientation programs. ? Seminars and workshops are conducted for faculty members, students and parents emphasizing the role of the Institution in achieving its objectives. ? Also institute vision & mission is displayed at all important place in the campus as well as in the web site of the institute.

#### 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
<b>No Data Entered/Not Applicable !!!</b>					

### 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
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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	ME,EE,CIVIL,,EC,CS	11/07/2016

#### 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
DATA ANALYTICS	17/02/2017	79
PLC AND SCADA	20/09/2016	80
AUTO CAD AND CATIA	30/09/2016	162
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
<b>No Data Entered/Not Applicable !!!</b>		
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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>The feedback of students regarding the teaching ability of the faculty members are collected in every semester for the improvement of the faculty community. 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.) The Head of the institution ensures an academic integrity by keeping an eye on the regular progress of classes, listening to the grievances of the students and faculty and trying to solve such problems. In executing these activities, head of the departments take feed back of the faculty members of their concern department in regular intervals, who, in turn, communicate to the principal. After thorough analysis of the feedback forms, principal suggests appropriate training to be imparted to the faculty members. In this regard, we organize inhouse staff development program (SDP). Also, faculty members are encouraged to attend the SDP organized by other reputed institutes. Faculty members are also awarded with certificates during SDP for their quality education. This process has really brought a homogeneous environment in the institute for all rounds growth of both students and faculty community.</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
<b>No Data Entered/Not Applicable !!!</b>				
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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	Number of students enrolled in the institution	Number of fulltime teachers available in the	Number of fulltime teachers available in the	Number of teachers teaching both UG

	(UG)	(PG)	institution teaching only UG courses	institution teaching only PG courses	and PG courses
2016	242	5	131	18	87

### 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
85	85	5	5	1	1162

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

Under mentorial system, students are interacting with the faculty regarding their matters related to academics and non academics. Each faculty member work as mentor of 20 students . They look after the academic progress, all types of extracurricular activities of the students. They also interact continuously with the parents on various issues.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
242	30	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
13	13	0	13	1

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
2016	Dr.Lokanath Dhalasamant	Associate Professor	Ph.D

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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	01/05/2017	29/05/2017

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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 of 15 marks each for a duration of one hour. The question paper carries 10 marks comprising of 3



questions .first question comprises five one mark questions as compulsory questions

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 Pattnaik 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	57	57	100
UG	BTech	COMP. SC	45	43	96
UG	BTech	ELECTRICAL	75	74	99
UG	BTech	ETC	39	39	100
UG	BTech	MECH	128	123	96

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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
<b>No Data Entered/Not Applicable !!!</b>				
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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 Recent Trends in Materials Manufacturing proces	MECH	22/02/2017
National seminar on Sustainable Energy its	ELECTRICAL	04/03/2017

future scope		
National seminar on Advance Technology in planning Execution of Civil works	CIVIL	27/03/2017

### 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
Electrical Drive	Prof..L.D.Saman t	AICTE	17/08/2016	Paper Presentation
<a href="#">View File</a>				

### 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
<b>No Data Entered/Not Applicable !!!</b>					
No file uploaded.					

## 3.3 – Research Publications and Awards

### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
NIL	NIL	NIL

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

Name of the Department	Number of PhD's Awarded
NIL	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	Management	2	1
International	ETC	1	1
International	CHEMISTRY	1	1
No file uploaded.			

### 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
NIL	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
Customer Satisfactio On in	Mr.B.P.Moh apatra	IUP Journal of Supply	2016	13	S.I.E.T DHENKANAL	1

public distribution system. Astudy in Bhdrak District of Odisha	Chain Management				
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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
Customer Satisfaction in public distribution system. Astudy in Bhdrak District of Odisha	Mr. B.P. Mohapatra	IUP Journal of Supply Chain Management	2016	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	11	0	0
Presented papers	0	0	2	0
Resource persons	0	1	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
YRC	Blood donor and motivator association/state government	3	196
REDCROSS	Blood donor and motivator association/state government	4	152
NSS	State govt.	5	211

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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
<b>No Data Entered/Not Applicable !!!</b>			
<b>No file uploaded.</b>			

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
NSS	STATE GOVT/ROTRACT CLUB	Swachh Bharat Pakhada	9	65
NSS	S.I.E.T, DHENKANAL	Vanamahotsav	6	48
NSS	S.I.E.T, DHENKANAL AND BRHMA KUMARI ISHWARIYA VISHWA VIDYALAYA	Beti Bachao Beti Padhao	5	150
NSS	S.I.E.T, DHENKANAL	INTERNATIONAL OMENS DAY	25	142
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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
Research	275	S.I.ET, DHENKANAL	1
<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
Research	Project work	IGIT, SARANG, ODISHA	19/07/2016	29/05/2017	155
Research	Project work	OEC, ODISHA	17/08/2016	25/04/2017	140
<a href="#">View File</a>					

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
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			participated under MoUs
Relience Jio Infocom	29/09/2016	To increase employability	549
<a href="#">View File</a>			

## 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
100000	71530

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
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
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 patially)	Version	Year of automation
Institute own developed software	Fully	SQL SERVER 2000 OFFICE XP	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	4989	46806	58	603	5047	47409
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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	Platformon which module is developed	Date of launching e-content
<b>No Data Entered/Not Applicable !!!</b>			
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### 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
NIL	NIL

#### 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
430000	418868	120000	104718

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)

According to the master plan of the institution "SYNERGY" ensures that available infrastructure is optimally utilized for the academic programmes and is sufficient to meet the current needs. Even then, "SYNERGY" has already started upgrading the infrastructural facilities for the research activities and as per the requirement of AICTE and BPUT guidelines. 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, for both boys and girls.? Recreational facilities, gymnasium, yoga center, etc. available.? Computer facility including access to internet in hostel available. Doctors chamber with physician and all first aid medicine and dressing equipments, 24 hours vehicle for medical services. For campus hostel library main library remains open till 10PM on all working days and on Sunday from 9.30AM to 4.30 PM.? Internet and WiFi facility available.? Computer facility including access to internet in hostel with WIFI technology .? Recreational facility common room with audiovisual equipments available.? Residential facility for the staff and occupancy Constant supply of safe drinking water available. 24 .hours security with well recognized security authority is present with both the student and staff. The college has a very good library with more than 1584 number of reference books. The college also subscribe e 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. For the purpose the college upgrade its laboratories keeping in view to the industry need.

<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	105	4500000
b)International	Bihar Govt Scholarship	10	219210

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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Yoga, Meditation	21/06/2016	52	Bharatiya Yoga Sansthan
Bridge course	22/06/2016	520	Institute
Soft skill development,	08/07/2016	245	Institute
Remedial coaching	02/11/2016	150	Institute
Personal Counselling and Mentoring etc.,	01/10/2016	247	Institute/ Brahmakumari Iswaria Viswavidyalaya

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#### 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
2017	PREPLACEMENT TRAINING	330	330	155	155

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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
<b>No Data Entered/Not Applicable !!!</b>		

## 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
<b>SYNAPSE INDIA, DELHI</b>	<b>70</b>	<b>14</b>	<b>SHREE RAM PANELS (P) LTD, KHANNA, PUNJAB.</b>	<b>30</b>	<b>2</b>
<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
<b>No Data Entered/Not Applicable !!!</b>					
<b>No file uploaded.</b>					

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
<b>GATE</b>	<b>8</b>
<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
<b>100MT RUN</b>	<b>INSTITUTE</b>	<b>32</b>
<b>ENGLISH ESSAY</b>	<b>INSTITUTE</b>	<b>20</b>
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## 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
<b>No Data Entered/Not Applicable !!!</b>						
<b>No file uploaded.</b>						

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, CULTURAL, SPORTS ETC.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The college has a registered Alumni Association which tends to strengthen the stake holder relationship. Participate in decision making process and fosters college development. Alumni Association has come forwarded to assist both in placement activities and quality improvement of both students and faculty members by concreting the relationship between industries and the institute. The Alumini regularly visit the institute and share their views to the students in their expertise field. Even Alumini are helping the placement cell for campus requirement. The meeting was held on 19/01/2018. The meet was attended by a. Alumini b. Principal c. Faculty members d. Staff members e. students The alumini shared their views and suggested various ideas for the development of the institute. The present Scinario of the employment was also highlighted by the ALUMINI and some of the Alumini donated books under the head "DONATE A BOOK" to the library.

5.4.2 – No. of enrolled Alumni:

211

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)

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 knowledgement skills and attitude of faculty and support staffs. ? Total involvement of Students. ? Optimum utilization of resources and interaction with the industry. Goal? Employment Enhancement guidance for Final Year students of Engineering. ? Motivational/Inspirational Lectures from Reputed Industry and Organizations. Video Lectures from IIT's and reputed International Universities for advanced courses to explore latest technologies. ? Pre placement training (PPT) programme For campus selection. ? Transparency In the Evaluation Process. (Best Practices) ? Introduction of Doubt clear Classes and Question Banks. . (Best Practices)

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	6.3.1 Curriculum Development The curriculum is developed by the University after inviting suggestions and proper feedback from faculty members of the University affiliated institutions.
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. The following teaching and learning processes are adopted. 1. Theory classes 2. Laboratories/sessional 3. project works 4. seminars/workshops 5. industrial visit 6. guest lecturers from industry/academics 7. assignments 8. doubt clearing classes/remedial classes 9. summer trainings 10. bridge course 11. study materials/hands out 12. NPTEL courses 13. Smart classes The teaching learning process is broadly comprised of the following members: ? Director ? Principal ? Teaching Faculty ? NonTeaching Staff ? Training Placement Officer The college has a very good library with more than 1584 number of reference books. The college also subscribe ejournals to keep the faculty as well as the student's up todate 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. For the purpose the college upgrade its laboratories keeping in view to the industry need.

**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.

**Research and Development**

R D is an integral part of our institute. The faculty members as well as students are encouraged for research work in addition to their regular work.

A state of art research lab is functioning under the guidance of an eminent professor . Recently a good number of our faculty have been registered for M. Tech. and Ph.D. programmes. Some of the faculty members have been awarded Ph.D. by different Universities. Other research activities of the departments include presentation and publication of research papers in

seminars, conferences and journals and under 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 day 8AM to 10PM Holiday 9.30AM to 4.30 PM Total no. Of Title: 5077no.s Total no. Of Books: 46391no.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

Human Resource Management

Employees are treated as asset always. Recruitment and selection process is transparent. Induction programme for faculties are conducted regularly.

Salary administration is well monitored. Different welfare schemes are followed for employee satisfaction.

Employee performance is regularly/annually measured and monitored properly.

1. The faculty members are sent to attend sttp /seminar/workshop for knowledge enhancement.
2. Faculties are encouraged for carrier advancement and higher studies.
3. Service books are maintained.

Industry Interaction / Collaboration

As industries are the integral part of technical education, students and faculty members are continuously interacting with the industry. The

	<p>institute takes following programmes to make the students industry ready and enhance their technical knowledge for better career. ? Signing of MOU with industry ? One month Internship training ? Student Industrial visit ? Guest lecture from industry ? Expert talk from industry in seminar /workshop ? Short term courses from CTTC, Sky riders, INFOSYS Campus connect, TCSION Life long Learning. ? Webinars ? Collaboration with ORACLE Corporation, TCS, INFOSYS, REDHAT, NBVL, Sakthi Sugar Ltd., Utkal Asbestos etc. ? Apprentice training under BOPT(ER) and other nearby industry</p>
Admission of Students	<p>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 JEE(PGAT) entrance test.</p>

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

E-governance area	Details
Administration	<p>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</p>

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. The audit report is enclosed herewith. Last audit is done on dated..April2016.

Student Admission and Support

? The college follows the academic calendar, provided by the affiliating university, i.e. Biju Pattanaik University of Technology (BPUT), Rourkela , Odisha . ? The college admission is done through the Odisha Joint Entrance Examination (OJEE) counseling which is held at the Government and university level. ? JEE COMMITTEE selects candidates for different colleges from the merit list published by COMBINE JEE and AIEEE /JEE(MAIN) on the basis of the preference given by the candidates ? The selection of students to the college is done through the admission committees in the counseling centers which include a convener and a panel of experts. Thus the transparency is guaranteed and maintained all through the process from the start of the notification till the end of admission. ? Therefore the access, equity social justices are guaranteed through transparency and adherence to the rules.? The college offers only technical courses for undergraduate and post graduate courses. ? As per the directives of the university the admission of the students into the college will be started after the commencement of counseling. ? The selection process is based purely on the marks rank obtained in the qualifying examination. ? The admission procedure strictly adheres to rules which are laid down by the university and state government. Both for UG and PG courses, the rules stipulated by the state government and affiliating university policy of merit is followed. ? The counseling team in the college

helps the students to make the choice of their stream and medium of instruction. Our college also follows the various reservation policy of the government.? The college offers four years Under Graduate courses in various departments like (1) Electronics and Telecommunication Engineering, (2) Computer Science and Engineering (3) Electrical Engineering (4) Mechanical Engineering (5) Civil Engineering. ? Admission to particular departments is made after the counseling and preparing the merit list only. Students seeking admission through management must also have to satisfy the requirements and should have good percentage in their academics. ? We strictly follow the Govt. policies in admission. The minimum percentage of eligibility for entrance test is 45 and the maximum percentage varies from year to year depending on general response to engineering seats. ? The admission procedure for PG UG courses is done strictly according to the conditions laid by the BPUT and AICTE. ? The Selection of students for various departments is done through the basis which is laid down by the BPUT AICTE.? The college verifies and review all the profiles of the students admitted annually. ? The institution has well planned, well defined and well designed mechanisms as far as reviewing the profiles and merits of the students. ? The administrative section regularly monitors and provides information to the academic heads for proper corrective measures. ? The institute has strong admi

**Examination**

Regular tests are held, almost weekly, during the course. The institution evaluates the students through two terminal tests after a gap of three months. The report is sent to the head of institution after evaluating in a fair and secret manner. The parents are informed through letters and even telephonically (for weak students). To monitor the students' performance during an academic year, an examination / evaluation board is constituted in the college. This board works under the directions of the Chair. The record of the whole evaluation process is transparent. The answer books are shown to the students. Daily and attendance

and overall performance of the student will be displayed on website where in student parents have their own login id's. The board arranges to inform the parents the terms examination awards of the students' along with their class attendance.

**Planning and Development**

? Development of new Curriculum based on the needs of Industry and amended guidelines of AICTE / Utkal University /BPUT/ DTET (Orissa).? Ensure students getting employment through campus interview. 2. Continual Improvement ? Reduce Failure rate. ? Periodical revision of curriculum. ? Increase in the number of tutor hours. ? Continuous assessment and satisfactory redressing of student grievances. The curriculum is developed by the University after inviting suggestions and proper feedback from faculty members of the University affiliated institutions.

**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
<b>No Data Entered/Not Applicable !!!</b>				
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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)
<b>No Data Entered/Not Applicable !!!</b>						
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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
Short Term Course on OOP using Python and RDBMS	2	25/07/2016	29/07/2016	4



[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
85	85	111	111

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. The audit report is enclosed herewith. Last audit is done on dated..April2016.

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
No Data Entered/Not Applicable !!!		
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6.4.3 – Total corpus fund generated

390631628

**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	YES	Yes	YES
Administrative	Yes	YES	Yes	YES

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

? Every year three to four times the parents meeting organised for discussion and feedback. ? Parents are always in touch with the mentors for the growth of their ward. ? Any progressive suggestion from parents is taken into consideration. ? The performance of the students are monitored and communicated through SMS ,email and letter to the parents regularly.

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

The following programmes are under taken for the development of support staff ? In house skill based training, quality improvement and overall personality development ? Encouraged for higher studies ? Hands off on job training programme ? Encouraged to attend moral value talk, Yoga classes Psychological counselling

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
2016	Organised National seminar on recent development on telecommunication technology	01/11/2016	01/11/2016	01/11/2016	75
2017	Organised workshop on skill development project	03/03/2017	03/03/2017	03/03/2017	155
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**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 of Shantiniketaan Girls hostel	28/03/2017	28/03/2017	158	45
OWMENS DAY CELEBRATION	08/03/2017	08/03/2017	145	35

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

Initiatives taken by the institution 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 class rooms are well ventilated and illuminated and hardly need any artificial lighting. ? Energy efficient equipments recommended for operational are installed in kitchen. ? Switching off/unplugging fans, lights while not engaged. ? Energy audit/Load survey done frequently. ? Use of LED ? Use of solar energy Use of renewable energy: Institution has implemented the following: ? "SOLAR STILL" for distilled water produced in the institute. ? Bio gas of 2m3 production capacity generated from organic hostel wastes used for cooking Ic. engine application. ? Production of "syngas" for cooking generated from waste plastics using biomass gasification ? Power generation from "wind energy" available at the roof of institute building. ? "Solar lighting" at our institute park. ? "Hybrid Ebike" for campus visit. ? "Solar powered electric vehicle" for campus visit. ? "Solar electrification" for library reading room. (proposed). ? "Solar heating" of water supply to institute hostel. (proposed). Water harvesting: ? The water harvesting pond of size 20x18x5 cubft constructed. the roof top rain water of the building, waste water ,surface water collected through a conduit and channel and stored in the pond. ? The roof top rain water of all the buildings and surface water of the institute to be harvested. (proposed) 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 are disposed off. Plantation ? The institute campus is situated and surrounded by scenic greenery foot hill. Varieties of medicinal plants, and other plants (fruit, vegetation and flower plants) implanted in the institute premises. ? Best Gram Panchayat /educational institute, for outstanding forestation /plantation in the year 2013. ? Institute awarded with "Prakruti Mitra" from Govt.of Odisha in the year 2014. Hazardous waste management. Institute does not prod

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	0
Rest Rooms	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
<b>No Data Entered/Not Applicable !!!</b>							

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

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

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
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### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Initiatives taken by the institution 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 class rooms are well ventilated and illuminated and hardly need any artificial lighting. ? Energy efficient equipments recommended for operational are installed in kitchen. ? Switching off/unplugging fans, lights while not engaged. ? Energy audit/Load survey done frequently. ? Use of LED ? Use of solar energy Use of renewable energy: Institution has implemented the following: ? "SOLAR STILL" for distilled water produced in the institute. ? Bio gas of 2m3 production capacity generated from organic hostel wastes used for cooking Ic. engine application. ? Production of "syngas" for cooking generated from waste plastics using biomass gasification ? Power generation from "wind energy" available at the roof of institute building. ? "Solar lighting" at our institute park. ? "Hybrid Ebike" for campus visit. ? "Solar powered electric vehicle" for campus visit. ? "Solar electrification" for library reading room. (proposed). ? "Solar heating" of water supply to institute hostel. (proposed). Water harvesting: ? The water harvesting pond of size 20x18x5 cubft constructed. the roof top rain water of the building, waste water ,surface water collected through a conduit and channel and stored in the pond. ? The roof top rain water of all the buildings and surface water of the institute to be harvested. (proposed) 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 are disposed off. Plantation ? The institute campus is situated and surrounded by scenic greenery foot hill. Varieties of medicinal plants, and other plants (fruit, vegetation and flower plants) implanted in the institute premises. ? Best Gram Panchayat /educational institute, for outstanding forestation /plantation in the year 2013. ? Institute awarded with "Prakruti Mitra" from Govt.of Odisha in the year 2014. Hazardous waste management. Institute does not prod

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

Transparency In the Evaluation ProcessThe 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. Introduction extra hours teaching for doubt clears classes and support in study materials. 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.

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.