

The Annual Quality Assurance Report (AQAR) of the IQAC (2015-16)

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

Part – A

I. Details of the Institution

1.1 Name of the Institution

College of Basic Science and Humanities

1.2 Address Line 1

Orissa University of Agriculture and Technology

Address Line 2

Siripur

City/Town

Bhubaneswar

State

Odisha

Pin Code

751003

Institution e-mail address

directorbasicscience@gmail.com

Contact Nos.

91-94373 06963,91-98610 73501

Name of the Head of the Institution:

Prof. B.C.Panda, Director

Tel. No. with STD Code:

0674- 2397029

Mobile:

91-94373 06963

Name of the IQAC Co-ordinator: Dr. C.S.K.Mishra,
Professor and Head, Department of Zoology

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOCN 18879)

1.4 NAAC Executive Committee No. & Date:
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details Applied for accreditation Not Applicable

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle				
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

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

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

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

- i. AQAR _____ (DD/MM/YYYY)4
- ii. AQAR _____ (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.10 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

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

Type of Institution Co-education Men Women

Urban Rural Tribal

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

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University (for the Colleges)

Constituent College of Orissa
University of Agriculture and
Technology, Bhubaneswar

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc No

Autonomy by State/Central Govt. / University	<input type="text"/>		
University with Potential for Excellence	<input type="text"/>	UGC-CPE	<input type="text"/>
DST Star Scheme	<input type="text"/>	UGC-CE	<input type="text"/>
UGC-Special Assistance Programme	<input type="text"/>	DST-FIST	<input type="text"/>
UGC-Innovative PG programmes	<input type="text"/>	Any other (<i>Specify</i>)	<input type="text"/>
UGC-COP Programmes	<input type="text"/>		

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="07"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="01"/>
2.3 No. of students	<input type="text" value="Nil"/>
2.4 No. of Management representatives	<input type="text" value="Nil"/>
2.5 No. of Alumni	<input type="text" value="Nil"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="One educationist"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="One -Registrar"/>
2.8 No. of other External Experts	<input type="text" value="01"/>
2.9 Total No. of members	<input type="text" value="10"/>
2.10 No. of IQAC meetings held	07

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff /Students Alumni Others

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

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos. International National State Institution Level

(ii) Themes

1. Methods for quality enhancement in science education at under graduate and post graduate level.
2. Guidelines for preparing quality research projects for submission to funding agencies.

2.14 Significant Activities and contributions made by IQAC

IQAC of the college organized the following activities during 2015-16	
4.8.2015	IQAC in collaboration with D.S.Foundation, Berhampur, Odisha organized a demonstration cum training programme on “Vermicomposting” on Dt4.8.2015 in the conference hall of the college.The training was meant for the students and staff of the college with an objective to train them to use earth worms for waste recycling.Experts such as Dr.Sanjat Sahu,Dr Santanu Mohanty,Dr.Rajesh Das explained the various methods of organic waste management through vermicomposting with demonstration of models and with the help of power point slides.The prgramme was attended by 30 faculty members and 70 UG and PG students.
7.10.2015	A programme on “ Improving Communication Skill” was organized on Dt 7.10.2015 in the Assembly Hall which was attended by 150 UG and PG students .Dr.Anjali Tripathy and P.Muralidhar Sharma,Assistant Professors in the Department of English interacted with the students and explained the methods to improve the communication skill, writing good English and effectively participate in group discussions. The students had a close interaction with the trainers and appreciated the steps taken by IQAC to organize such activities.

	topic and highlighted on the notable achievements of science for the welfare of human society and the forthcoming challenges of the century.The lecture was attended by all the faculty members and students.
8.1.2016	IQAC coordinated a programme on “ Self Defence for women ” with an objective to train young girl students of the college to learn skills for self defence so as to protect themselves in case of emergency.Trainers demonstrated judo,karate and other martial art forms which was practised by the girl students .The programme was supervised by Dr.Rojalin Pattnaik,Assistant Professor.
11.4.2016	An interacting session on “ Prejudices on snakes and remedies for snake bites ” was organized at 3 pm in the Asseby hall. The target audience were faculty,students and office staff of the College.Suwendu Mallick, noted herpetologist and honorary wild life warden delivered a power point presentation on the common snakes of the state of Odisha and the keys to identify them.He emphasized on the importance of the conservation of the snakes and the prejudices associated with snake bites.He also explained the dos and don'ts in snake bites.120 students ,faculty and staff attended the programme.
16.7.2016	IQAC organized a faculty meeting to discuss and implement measures for quality enrichment of PG and UG teaching. As per the directives of Hon'ble Vice Chancellor,it was decided to prepare course break up, lesson plan of each course taught in a semester.It was also decided to hand over copies of the break up to students before each semester.Faculty members were also advised to upgrade their class notes and refer books of latest editions and recommend the same to the students. It was also decided to arrange remedial classes for those students who are unable to attend certain classes due to medical or other valid reasons.
25.11.2016	A career counselling for final year and 2 nd year B.Sc students was organized at 12 pm on 25.11.2016 in the Conference Hall .Mahesh Sasmal of TIME Management Institute,Hyderabad addressed the students and highlighted on various career opportunities in management for graduates with science .He also advised the students to improve their communication skills and demonstrated certain skills for personality development. Eighty five students participated in the programme.

2.15 Plan of Action by IQAC/Outcome

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

Plan of Action	Achievements
<p>1. To organize need based meetings/seminars/workshops for students/faculty .other stake holders.</p> <p>2. To organize popular science lectures for students by inviting distinguished scientists/ academicians to update their knowledge base.</p> <p>3. To motivate faculty members to formulate and submit research projects to various funding agencies.</p> <p>4.To organize special activities for girl students of the College</p>	<p>1.The IQAC organized a workshop on Dt 4.8.2015 to make faculty and students aware about the impotence of waste recycling. Experts were invited who demonstrated the methods for vermicomposting of various domestic and garden wastes.</p> <p>1. Two interacting programmes on communication skill development and progress of science and technology awere organized on various dates.</p> <p>2. A training programme on self defence for women was organized for girl students.</p> <p>3. An interacting programme for improvement of educational quality at UG and PG level was organised with the faculty members of the College.</p> <p>4. Due to constant motivation and follow up action by the IQAC 14 Minor and two major research Projects were submitted by the faculty</p>

	members to funding agencies. Six minor and two major projects got selected for funding from the UGC and DST, Odisha respectively.
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* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	05	01	Nil	Nil
PG	06	Nil	01	Nil
UG	08	Nil	Nil	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	Nil	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
Total	19	01	01	Nil
Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil	Nil	Nil	Nil

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

Pattern
Semester
Trimester
Annual
Number of programmes
UG and PG

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

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

*Please provide an analysis of the feedback in the Annexure

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

The CBCS has been introduced at UG and PG levels. The Ph.D. programme was also initiated from the AY 2015-16.

- The UG (Hons) programme includes core, generic, discipline specific and skill based electives in addition to the Ability Enhancement and compulsory courses following UGC model curriculum.
- The PG syllabi include core and elective courses.
- Ph.D. programme includes Pre Ph.D. course work as per UGC guidelines.

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

Nil

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
	35	04	01	Nil

2.2 No. of permanent faculty with Ph.D.

34

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

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
00	09	00	01	00	00	00	00	00	10

2.4 No. of Guest and Visiting faculty and Temporary faculty

11	Nil	17
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2.5 Faculty participation in conferences and symposia:

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

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

<p>1 Lesson plan, course break up and power point used in teaching.</p> <p>2. Unit tests being conducted for each course.</p>

2.7 Total No. of actual teaching days during this academic year

210

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

Central valuation for UG and PG has been adopted for timely publication of result.
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2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

16		
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2.10 Average percentage of attendance of students

85%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
+3Sc	204	72.05	77.45	11.76	1.47	90.68%
PG	68		98.53	1.47	Nil	100%
Ph.D.(Microbiology)	03		03			100%

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

The IQAC regularly interacts with faculty members and takes feedback from the students to monitor the education quality and give suggestions for improvement .IQAC has always given suggestions for updation of knowledge base through training,workshop,seminars and enrichment of library.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	04
UGC – Faculty Improvement Programme	Nil
HRD programmes	Nil
Orientation programmes	01
Faculty exchange programme	Nil
Staff training conducted by the university	Nil
Staff training conducted by other institutions	Nil
Summer / Winter schools, Workshops, etc.	12
Others	Nil

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	19	21	Nil	Nil
Technical Staff	14	08	Nil	Nil

Criterion – III

3. Research, Consultancy and Extension

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

1. The IQAC since its inception has conducted interacting meetings with the faculty members of the College to motivate and guide them to prepare and submit Major and Minor Research projects to different funding agencies Guidelines for preparation of projects have been downloaded from the websites of UGC,DST,MOEF,Sc &Tech.Dept,Odisha and circulated among the faculty members.
2. IQAC provided all necessary help and guidance in preparing the projects.
3. Fourteen minor and two major projects were submitted by the faculty members of various departments during 2015-16.
4. Six Minor and two major projects got sanctioned by the funding agencies.
5. IQAC also constantly gives advice and monitors laboratory infrastructure development required for PG and Doctoral research.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	04	Nil	02
Outlay in Rs. Lakhs		34,56,800.00		

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02		06	14
Outlay in Rs. Lakhs	2,65,000.00			

3.4 Details on research publications

	International	National	Others
Peer Review Journals	20	47	Nil
Non-Peer Review Journals	Nil		
e-Journals	Nil		
Conference proceedings	Nil		

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects (04)	2015-16	Science and Technology Department, Government of Odisha, University Grants Commission, New Delhi	34,56,800.00	34,56,800.00
Minor Projects (06)	2015-16	University Grants Commission, New Delhi	2,65,000.00	2,65,000.00
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects (01) <i>(other than compulsory by the University)</i>	2015-16	Department of Forest and environment, Government of Odisha	60,000/-	60,000/-
Any other (Specify)				
Total			37,81,800.00	37,81,800.00

3.7 No. of books published i) With ISBN No.

Nil

Chapters in Edited Books

02

ii) Without ISBN No.

Nil

3.8 No. of University Departments receiving funds from Nil

UGC-SAP

CAS

DST-FIST

DPE

DBT Scheme/funds

3.9 For colleges

Autonomy

CPE

DBT Star Scheme

INSPIRE

CE

Any Other (specify)

UGC AND
Science
&Tech, Dep
Odisha

3.10 Revenue generated through consultancy

Nil

3.11 No. of conferences

Organized by the Institution

Level	International	National	State	University	College
Number		01	01		
Sponsoring agencies					

3.12 No. of faculty served as experts, chairpersons or resource persons 05

3.13 No. of collaborations

International

National

Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency from Management of University/College

Total

3.16 No. of patents received this year

Nil

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

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

Total	International	National	State	University	Dist	College
03			03			

3.18 No. of faculty from the Institution who are Ph. D. Guides
and students registered under them

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

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
National level International level

3.22 No. of students participated in NCC events:

University level State level
National level International level

3.23 No. of Awards won in NSS: Nil

University level	<input type="text"/>	State level	<input type="text" value="01"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.24 No. of Awards won in NCC:

University level	<input type="text"/>	State level	<input type="text" value="15"/>
National level	<input type="text" value="03"/>	International level	<input type="text"/>

3.25 No. of Extension activities organized

University forum	<input type="text"/>	College forum	<input type="text"/>
NCC	<input type="text" value="01"/>	NSS	<input type="text" value="09"/>
		Any other	<input type="text"/>

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

a. Major NCC activities:

NCC cadets attended the International Yoga Day on 21.06.2015 organized by Odisha NCC directorate. Bhubaneswar

One cadet participated in the Republic Day Camp at New Delhi

Twenty cadets participated in the state level Republic day parade at Bhubaneswar

One cadet visited abroad on a youth exchange programme.

Forty cadets attended Pre Bayu sainik Camp at Bhubaneswar

Nine cadets attended All India Bayu Sainik Camp at Jodhpur, Rajasthan in 2015.

Fifteen cadets participated in the Republic Day parade at Bhubaneswar.

b. Major NSS activities

The NSS wing of the College organized a number of one day camps which are mentioned below

Sl. No.	Date of Programme	No. of Volunteers participated	Programme Undertaken	Venue
1.	15.08.2015	50	Orientation seminar on NSS activity for new volunteers	CBSH, Bhubaneswar
2.	24.09.2015	50	"State N.S.S. Day Celebration" P.O. & Volunteers Presented Inaugural & Closing Song	OUAT, Bhubaneswar
3.	02.10.2015	50	" Seminar on NSS Motto", rules regulations & awards.	CBSH, Bhubaneswar
4.	01.12.2015	50	"Celebration of World's AID's Day" Awareness programme conducted on AIDs.	Tulasi Basti, Bhubaneswar
5.	13.01.2016	50	Mass race from 9 th Battalion to Commissionerate Of Police	Commissionerate Police Office, Bhubaneswar
6.	05.03.2016	50	"Celebration of Biju Patnaik Jayanti" Rally was conducted on drug abuse	Sahara Sahi Basti, Bhubaneswar
7.	16.03.2016	50	"An emergency health camp was conducted due to food poisoning of 35 numbers of students in their lunch."	Siripur Sebasram, Bhubaneswar
8.	23.03.2016	50	"Another post health check-up camp was conducted and distributed medicines, tonics and vitamins."	Siripur Sebasram, Bhubaneswar
9.	30.03.2016	50	"Seminar on NSS Social Works was presented by Resource person Mr.N.Khuntia"	Siripur Sebasram., Bhubaneswar.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	32,375 Sq.mtr)	Nil	State Government	32,375
Class rooms	24	Nil	State Government	23
Laboratories	22	Nil	State Government	22
Seminar Halls /Conference Room	01	Nil	State Government	01
No. of important equipments purchased (\geq 1-0 lakh) during the current year.			State Government/ICAR	
Value of the equipment purchased during the year (Rs. in Lakhs)			State Government/ICAR	
Others (Knowledge centre/Reading room with text/reference books for students and faculty)	01	Nil	State Government	01

4.2 Computerization of administration and library

1. The Central library of the University maintains the database all the text and reference books, journals and periodicals subscribed
2. There is an E –Library with 50 computers which are used by both students and faculty.
3. The Central Library provides adequate facilities for online access to scientific journals, e-books required by UG, PG and Ph.D students as well as faculty members.

4.3 Library services (Only for 2015-16)

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	1539	Rs 20,93,725/-			1539	Rs 20,93,725
Reference Books	91	Rs 6,35,484/-			91	Rs 6,35,484/-
e-Books						
Journals	148	Rs 46,79, 552/-			148	Rs 46,79, 552/-
e-Journals (CERA)	3508	-				3508
Digital Database						
CD & Video						

Others							
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4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	90	70	60	-	-	04	10	06
Added	Nil	Nil	-	-	-	-	-	-
Total	90	70	60	-	-	04	10	06

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

The computer laboratories have been provided with internet facility for both students and staff.

All the faculty members have also been provided with internet connections in their respective chambers.

4.6 Amount spent on maintenance in lakhs :

i) ICT

Rs 22,567.00

ii) Campus Infrastructure and facilities

Rs 1 crore 95 lakhs

iii) Equipments

Rs 88 lakhs 46 thousand

iv) Others

Furnitures: Rs 2lakhs 99 thousand
Computers: Rs 4,57,500.00

Total :

Rs 2,91,25,067.00

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

The IQAC interacted with the students at regular intervals to make them aware about the various support services available in the College and University campus. IQAC has also motivated students to use

4.2 Efforts made by the institution for tracking the progression

- 5.
1. Faculty meetings have been conducted in each department to track the course progress in various subjects.
 2. Research meetings to monitor work progress have been conducted on weekly basis in different departments.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
233	102	13	nil

(b) No. of students outside the

07

state

(c) No. of international students

Nil

Men

No	%
103	31

Women

No	%
170	69

General	Last Year					Total	This Year					Total
	SC	ST	OBC	Physically Challenged	General		SC	ST	OBC	Physically Challenged		
269	15	18	Nil	Nil	302	273	32	32	Nil	Nil	337	

Demand ratio Physical science (UG) 29.3, Biological science 32.9

Self finance courses 6.2 Dropout % 6.9

PG: Physics (4.4), Chemistry (6.9), Mathematics (1.9), Botany (4.9), Zoology (6.3), Biotechnology (1.4), Microbiology (4.3). Dropout % 6.7

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

Nil

No. of students beneficiaries

NA

5.5 No. of students qualified in these examinations

NET	<input type="text" value="08"/>	SET/SLET	<input type="text"/>	GATE	<input type="text"/>	CAT	<input type="text"/>
IAS/IPS etc	<input type="text"/>	State PSC	<input type="text"/>	UPSC	<input type="text"/>	Others	<input type="text" value="DST INSPIRE 03"/>

5.6 Details of student counselling and career guidance

Student counselling and career guidance programmes have been organized by the placement cell of the College and University.

No. of students benefitted

No record

5.7 Details of campus placement No record

	<i>On campus</i>		<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed

5.8 Details of gender sensitization programmes

1. Womens self defence training was organized for the girl students of UG and PG

5.9 Students Activities

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

State/ University level	<input type="text"/>	National level	<input type="text"/>	International level	<input type="text"/>
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No. of students participated in cultural events

State/ University level National level International level

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

Sports : State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	Nil	Nil
Financial support from government	203	
Financial support from other sources	Nil	
Number of students who received International/ National recognitions	03 NCC cadets	

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

- 1.A well furnished knowledge centre has been constructed with adequate books for the students to utilise leisure time.
- 2.Toilets for students have been renovated.
- 3.Common rooms have been provided with News papers and magazines.
- 4.Quality of food in the canteen has been enhanced.
- 5.Additional safe drinking water facility has been provided.
- 6.Gymnasium has been renovated.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision:

To emerge as an institution of higher education par excellence, focusing human resource development and capacity building through high quality teaching, life skill development, research, consultancy and extension programmes that contribute to national development

Mission:

1. To create and disseminate knowledge among students through interdisciplinary education and research.
2. To formulate research projects with special emphasis on use of basic science in agriculture and allied sciences.
3. To equip the students with problem solving, leadership and teamwork skills.
4. To inculcate a sense of commitment to quality (Both ethical and behavioural) and respect for others in students.
5. To provide a platform for free flow of ideas where discovery, creativity and professional development find a scope for fulfilment in making the world a better place to live in.
6. To ensure academic excellence by exposing the students to new ideas, new ways of understanding, new ways in their journey of intellectual transformation.

6.2 Does the Institution has a management Information System: Yes

The College has a student admission management system (SAMS) to facilitate E admission of UG students and provide informations concerned

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

6.3.1 Curriculum Development

Curriculum revision and development are done as per the guidelines of UGC and the Department of Higher Education, Government of Odisha. Department level committees involving senior faculty members with external subject experts are formed for the said purpose to update syllabi.

6.3.2 Teaching and Learning

The college gives lot of importance to the quality of teaching and learning in classes. Faculty members are advised to prepare lesson plan, course break and updated notes before each semester. The students are provided with copies of lesson plan and course break up on the first day of the semester. The process is monitored by the Director (Principal) at regular intervals. Feed back is also obtained from the students regarding the quality of teaching learning. The students are also evaluated through class tests.

The semester examination calendar is prepared at the beginning of the Academic session and rigidly followed. Examinations are conducted in halls equipped with CCTV camera to discourage use of unfair practices. Invigilation is done properly monitored by the Officer in charge, examination and the Director (Principal) of the College.

External evaluation of answer scripts in semesters at undergraduate level is done centrally and confidentially in the University under the supervision of the Controller of examination. Evaluation of midterm papers and PG semester examination is done internally in an unbiased manner. Timely completion of the evaluation process and publication of result is given top priority.

6.3.4 Research and Development

After opening of PG and Ph.D. programme in various disciplines in the College, research and development have improved considerably. Laboratory infrastructure in various departments have noticeably improved with addition of equipments. A good number of Externally funded Major and minor research projects are presently in operation with considerable amount of funds being available for research activities. Faculty members of different departments have also obtained training on research methodologies from reputed research institutes of India and abroad and published research papers in peer reviewed international and national journals

The students use the University Central library and e library facilities. The library is very well equipped with annual addition of books and journals. Students and faculty are able to have access to a number of e books and e journals through CERA. There is also provision of photocopy facility. Besides the Central library, every department has seminar library from which the students are issued books on a weekly basis.

Students and faculty members have also been provided with internet facility in the computer labs and faculty rooms to update their knowledge base.

A well equipped Central laboratory is located in the heart of the University campus with state of art instruments to be used for practical classes and research. In addition, every department laboratories have procured good number of need based scientific instruments/equipments.

6.3.6 Human Resource Management

The college has always emphasised on judicious human resource management. Every faculty member has been assigned with responsibilities considering his/her skill and ability for over all maximum output. Rotation of responsibilities have been followed on an annual basis so as to enable the faculty members to learn and practise management skills. Non teaching and office staff have also been trained and utilised for smooth management of the College administration.

Faculty and staff recruitment are the responsibility of the University. A number of teaching post in various departments have been filled up on a regular basis during the last two years. Steps are also being taken for filling up the vacant posts. Non teaching and office staff have also been made on regular/contractual basis so that teaching/research in the College are not affected.

6.3.8 Industry Interaction / Collaboration

Although presently the College has no collaboration with industries, the faculty members have research collaborations with scientists of National research institutes and other universities.

Admission of UG students is done as per E - admission process of the Department of Higher Education, Government of Odisha. The PG and Ph.D. admission is done through entrance test conducted by the University. Reservations of seats for SC/ST and other categories is made as per the guidelines of the Government of Odisha.

6.4 Welfare schemes for

Teaching	Group insurance and teachers aid fund for teachers
Non teaching	Group insurance
Students	Group insurance

6.5 Total corpus fund generated

Nil

6.6 Whether annual financial audit has been done

Yes

No

6.7 Whether Academic and Administrative Audit (AAA) has been done? No

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic				
Administrative				

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

For UG Programmes Yes No

For PG Programmes Yes No

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

- 1.The College has switched over to CBCS system with semester examination pattern.
2. Central external valuation of answer scripts at UG level for timely publication of result.
- 3.Strict adherence to the semester calendar to avoid delay in course completion and result publication.

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

1. The Director (Principal) has been given some administrative and financial autonomy
2. The Director can approve expenditure up to Rs 80,000/- under non recurring and Rs 40,000/- under recurring heads.
3. Apointment of need based guest faculty and non teaching staff for various disciplines can be made by the Director subject to availability of contingency grant.

6.11 Activities and support from the Alumni Association

There is a registered alumni association in the College. Alumni feedback for over all development of the College is obtained at regular intervals.Alumni meet have been organized for involvement in development.

6.12 Activities and support from the Parent – Teacher Association

Parent-teacher meetings are organized to apprise the parents about the performance of their wards and receive their suggestions for improvement.Parents of students with shortage of attendance/poor academic performance are regularly up dated and remedial measures taken.

6.13 Development programmes for support staff

Support staff such as demonstrators/laboratory assistants, clerical staff etc have been given need based training to increase efficiency and work out put.

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

A number of measures have been taken by the College and University administration to make the campus ecofriendly. These are as follows:

1. Plantation programmes have been organised with involvement of students and faculty members to make the campus clean and green.
2. The college has developed vermicomposting facility for recycling garden and other organic waste.
3. Trash bins have been provided to minimise littering
4. Awareness programme for students and staff are organized to keep the campus clean.
5. Campus cleaning has been out sourced for better result and accountability.

Criterion – VII

7. Innovations and Best Practices

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

- 1.The college building has been renovated
2. New class room have been added
3. Smart class rooms have been constructed
- 4.New laboratory infrastructure has been created.
5. Internet facilities with computers have been provided to all departments and faculty rooms..
- 6.A conference room with audiovisual facility is constructed.
- 7.An open stage,canteen and knowledge center have been constructed.
- 8.A 100 KV transformer has been installed to ensure stable power supply.
- 9.Online applications for PG and Ph.D. courses have been introduced.
- 10.IQAC has been established.
- 11.Ph.D. courses in all departments and PG course in Biotechnology (Self finance) have been introduced.
- 12.CBCS system has been introduced at UG and PG level.
- 13.Ramps for disabled students have been constructed.
- 14.Independent web site of the College has been hosted.
- 15.Girl students of the College have been provided with self defence training.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

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

National Cadet Corps (Air Wing)

Goal

A unit of Air Wing N.C.C. is operating in the college to inculcate a sense of nationalism and secular outlook among the youth and groom them to become disciplined and patriotic citizens. It is open to the college students on voluntary basis. It provides a platform for individual upliftment through the process of channelizing energy of the youth in constructive pursuits. It also promotes cultural skills to preserve values and traditions of the society. It helps the youth to realize the intimate relationship between man and the community, between community and nature and their inter-dependability.

The Context

50 Senior Division Boys and Girls College are enrolled every year form UG classes after being selected by the officers from armed forces (Indian Air Force) and Associate N.C.C. officer of the college. They are provided with training with the following objectives:

To develop character, comradeship, discipline, leadership, secular outlook, spirit of adventure and ideals of selfless service in them.

To create a Human Resource of organized, trained and motivated youth, who can provide leadership in all walks of life and be always available for the service of the nation.

To motivate, train and develop officer like qualities, so as to enable them to join armed forces as commissioned officers.

However, the military training has been reduced and greater importance has been given to other areas like social service and youth-management. Active participation of youths teaches dignity of labour and ignites the creative instinct that lies latent in the youth.

The Practice:

Instruction:

Total institutional training period for Senior Division boys and girls is 3 years. Every cadet of the senior division has to undergo service training for a period of at least 4 hours (6 periods) per week during each training year. However, no training is carried out during periods when the college is closed for a vacation. Every cadet has to attend institutional training for a minimum of 75% of total 120 periods in each session. Every cadet during the training year has to attend an annual training camp of 10 days duration. Instruction is made through scientifically planned NCC curriculum.

Military training:

Cadets are trained in micro-light flying, aero-modelling (Static and dynamic), skeet shooting, range firing, drill, tent pitching, display of items in tents, paragliding, health and hygiene, sports and games by the military personnel and Associate N.C.C. Officer of the college .

Adventurous activities:

Training in activities like trekking, mountaineering, cycle expedition, rock climbing ,rafting, sailing, surfing, scuba diving, boat pulling etc. is also given to the cadets during special camps

Social service activities:

Cadets of the college are involved in adult-education, tree plantation, blood donation, pulse polio vaccination, anti-dowry rally, anti-female foeticide pledge, anti-leprosy drive, AIDS awareness rally, awareness against drug abuse, awareness of first aid, traffic safety awareness, visit to old age homes, slum clearance, disaster management & relief, discipline maintenance in religious events of the state, village upliftment and various other social schemes independently or through 1 (O) Air Sqn. N.C.C., Bhubaneswar.

Camps:

Besides Annual Training Camp (ATC), Air Wing cadets of the college get opportunity to attend Republic Day Camp (RDC), All India Vayu Sainik Camp (AIVSC), Air Force Attachment Camps, Advance Leadership Camps (ALC), National Integration Camps (NIC) , Basic leadership camp (BLC) , Social Service Camps (SSC), All India Summer Training Camps, Independence Day Camp (IDC).

Youth Exchange programme:

Cadets of the college also get opportunity to visit foreign countries like Australia, Bangladesh, Bhutan, Canada, Maldives, Nepal, Singapore, Sri Lanka, United Kingdom and Vietnam. It helps in developing mutual respect, adaptability, self-discipline, cross cultural learning, love and respect for the country.

Examination:

Cadets of the college appear 'B' certificate examination at the end of 2nd year and 'C' certificate examination at the end of 3rd year of N.C.C. along with other cadets of the state, centrally conducted by the N.C.C. directorate, Odisha. Cadets passing 'B' Certificate get 5% and Cadet passing 'C' certificate get 10% weightage in career marking for further studies.

Service:

N.C.C. training enables them to appear the competitive examinations with confidence. Since the cadets are exposed to military training, many of them get selected to Armed Forces, Police Services and

Security Agencies. However, Government has criteria to select 'C' certificate holders for services in Armed Forces through special entry scheme.

Evidence of Success:

About 24 cadets of the college have already joined defense services as commissioned officers. Our cadets, Chandni Das, Ashit Mishra, Pallavi Patnaik, Bijaylaxmi Ghosh, Tanmayee Mohanty, J. Sravanti, Jasween Kaur. Sahani and Anuja Guru have visited foreign countries like Russia, Singapore, Vietnam and Bhutan etc. Every year about 25 cadets pass 'B' and 'C' examinations with good grading. Our cadets have been selected to attend RD camp at New Delhi, All India Vayu Sainik Camp and other national level camps and received prizes as well as cash awards. Many of our cadets received Sahara Scholarship, Cadet Welfare Society Scholarship, Defense Minister, Defense Secretary, Director General N.C.C. commendation, Governor's award, Chief Minister's Award etc. Many of our cadets have undergone training at Air Force Academy (AFA), Hyderabad, Officers Training Academy, Kamptee and have undergone Advanced Leadership Camps. Associate N.C.C. Officer of the college, Dr. Ashis Kumar Mohanty, has secured 2nd position in PRCN course and 1st position in Refresher course at Air Force Training Centers. He has also received DG N.C.C. commendation from New Delhi and Best Senior Division N.C.C. Officer award from Chief Minister of the state.

Problem Encountered and Resources required:

One small room has been given to N.C.C. for keeping items issued from central store of 1 (O) Air Sqn. N.C.C. The same room has been used as N.C.C. store as well as N.C.C. office. Although a notice board is given to N.C.C., more space is required for display of motivational charts. Due to shortage of room and lack of instruments a work shop for preparation of models could not be established. College does not have any fund for N.C.C., all expenses related to refreshment, honorarium, TA and DA is borne by the Government through the Commanding Officer, 1 (O) Air Sqn. Hence, creation of additional and separate specialized facilities has not been possible. Sometimes our cadets have not been able to attend camps and avail other opportunities given to them by N.C.C. because of academic constrains. N.C.C. officer has also been engaged in same work load of teaching, research as the other faculty members and it becomes difficult to relieve him all the times for N.C.C. work.

Notes: A planning needs to be done at the centre so as to organize the camps during semester breaks or vacation. After implementation of CBCS, it might be very difficult to spare the students for such co-curricular activities.

Central Library

Goal:

The Central Library of the University is an integral part of the College of Basic Science & Humanities under Orissa University of Agriculture and Technology, Bhubaneswar. The Library provides academic and research support to students, research scholars and faculty members alike. It functions as an important centre for the dissemination of quality knowledge on various areas of basic sciences and humanities. Well-equipped and resourceful, the Central Library, over the years, has emerged as a repository of information on the areas mentioned above.

Context:

The Central Library of the university, meant primarily for the disciplines like Agriculture, Forestry, Agricultural Engineering and Veterinary Sciences, has developed as a parallel source of information and knowledge relating to basic sciences in the last few decades. It simultaneously caters to the needs of varied groups of students from Under Graduate, Post Graduate, and Research levels. At present it is

functioning on the first floor of the main building of the University, occupying 2400 sq. mtrs. The library remains open from 8.00 am to 8.00 pm on all working days.

The Practice:

Resources:

A rich collection of 1,10,658 Books, including Text Books (95,088) and

Reference Books (15,570) , 148 Scholarly Journals with annual subscription, 17,680 Bound Volumes make the library one of its kind in the state. In addition to this, it has a collection of 3750 M.Sc. Dissertations and 346 Ph.D. Thesis. The library is provided with 50 computers for the effective functioning of e-resources.

Infrastructure:

The library is comprised of 13 sections such as, Common Reading Section, Book Bank, e-Library, Circulation Section, Current Journal Section, Reference Section, Thesis and Report Section, Back Volume Journal Section and Display Section for new arrivals and faculty publications. The library has 6 reading rooms with seating capacity of

30 students in each. The daily average of visitors to the library is around 250.

Library Services:

The library provides a unique set of services to its users which include lending services, data base of current journals, current awareness services, text book bank, inter library loan, reprography services, reference services and user education.

e-Library:

The e-library facility on the central library started functioning from April 2004, with 50 computers. The users in e-library can avail online access through internet cell and CD-ROM databases. It remains open from 10 AM to 5 PM on all week days and renders service in batches.

Library Automation:

The central library installed LibSys software in the year 2004 and started automation. The library automation has been functional in a full- fledged way since 2010.

Internet:

The internet cell of the Central Library is well equipped with 50 computers with online UPS facility to access e-resources. This facility is available to the students, researches, teachers and staff members.

JABS (J –GATE Agriculture & Biological Sciences):

It is an internet gate way and subset of J –Gate set up by Informatics India Ltd. It offers bibliographical information on scholarly and technical e-journals in agricultural and biological sciences. Over the years it has proved to be one of the most important sources of knowledge for research scholars.

Reprography:

Users are provided photocopy services from 8.00 AM to 8.00PM at nominal charges. Students and faculty members avail this facility in huge numbers on regular basis.

Evidence of Success:

The Central Library of the university is one of its kind with respect to collection of books and periodicals in different areas of science. During the last five years the Central Library has been strengthened in terms of the collection, services, automation and digitization of books and journals. The library has been able to attract more users due to the availability of the latest books and subscription to the latest journals, access to data bases and internet services and so on. Over the years the trend of collection of information resources has enhanced dramatically. It has been successful in pursuing its twin function of disseminating knowledge for both academics and research.

Problems encountered and resources required:

The paucity of funds has been a major challenge in updating the knowledge sources and maintenance of the various sections of the library. Inadequate funds have also resulted in the failure to procure more knowledge sources. Lack of requisite staff for the proper functioning of the library is one of the major threats to its development. Inadequate space is a constraint for the expansion of the library facilities in future to meet the growing demand of the faculty and students.

Notes:

In addition to the Central Library of the University with all its resources, the Knowledge Center in the College of Basic Science and Humanities has started functioning as an ancillary body of information since January 2016. The Knowledge Center is highly specialized and is competent enough to meet daily academic requirements of the students of the College. In the years to come, the Knowledge Center of the college can possibly develop as a parallel source of information.

7.4 Contribution to environmental awareness / protection

- 1. Misuse of electrical appliances are strictly prevented.
- 2. Proposal for alternative source of energy (solar power) is under active consideration.
- 3. Campus has been made green by large scale plantations.
- 4. Adequate number of trash bins have been provided for waste disposal.
- 5. A vermicomposting unit is in operation for recycling of organic waste.
- 6. NSS and NCC volunteers have been involved in environmental awareness programmes.

7.5 Whether environmental audit was conducted?

Yes

No

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

Strength:

State and national level recognition as an important center for science education

Reputation as one of the most sought-after colleges for courses in basic sciences

Initiation of actively functioning research programmes

Well-qualified and competent faculty recruited through systematized and competent procedures

Located in the heart of the city of Bhubaneswar

Sharing resources, laboratory equipment, books, journals, and other research facilities with the university

Clean and green campus, away from the bustle of city life and an ideal atmosphere for academic and scholarly engagement

Situated near the International Airport, Railway Station, Bus Depot and well connected by railways, roadways and airways

Access to a well-equipped, resourceful, automated central library with e-connectivity and access to e-journals, dissertations and theses

Intellectually vibrant student community

Socially and culturally active NCC and NSS wings of the college

Enrolment of students for various self-financing courses in Computer Science, Biotechnology, Microbiology, and the like

Availability of nationalized bank and ATM services, medical facilities, postal services, etc. within the campus

Weaknesses:

Financial and spatial constraints in the development of infrastructure

Paucity of funds and lack of financial autonomy

Inadequate technical staff

Opportunities:

Proximity to centers of knowledge of national and international repute like NISER, IIT, IIIT, XIMB, Institute of Physics, Institute of Mathematics, Regional Medical Research Centre, Institute of Minerals and Materials Technology, Utkal University, SOA University, etc.

Access to academic and scholarly expertise from the institutes mentioned above

Placement of talented and deserving students through off-campus recruitment drives of Infosys, WIPRO, Tech Mahindra, TCS, and other organizations located near the college

Approval of proposals for minor research projects submitted to UGC by most teaching faculty

Challenges:

Gradual marginalization of the college and its demands in the university
Mushroomed growth of private colleges and institutes

Irregular and infrequent recruitment against the vacant posts in individual departments leading to the assignment of additional teaching and evaluation load to existing faculty

CBCS - Choice Based Credit System

8. Plans of institution for next year

- To further the academic achievements of the College.
- To increase the overall retention rate
- To create better opportunities for assimilation of knowledge, skills and credentials in the students and faculty members.
- Identify new sources of funding for infrastructure development and research activities.
- To look for possibilities of collaborative research and training by the faculty members.
- To organise exposure visits for students and faculty to research institutes of National repute.
- To organize remedial classes for academically weak students.
- To organize workshops for students to develop communication skill and personality.
- To improve the placement rate of students.
- To improve alumni interactions
- To build an environmentally sustainable campus.

Prof. Choudhury Suryakant Mishra

Prof. Bikash Chandra Panda

Name _____

Name _____



Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

Annexure 1

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test

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