

SELF STUDY REPORT

Of

Stewart Science College, Cuttack



Submitted to



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION
COUNCIL**

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India



CONTENTS

CHAPTER	PAGE NO.
Preface	03
SWOC Analysis	04
Executive Summary	05-15
A. Profile of the College	16-27
B. Criterion wise Analytical Report	28
Criterion I: Curricular Aspects	29-38
Criterion II: Teaching-Learning and Evaluation	39-65
Criterion III: Research, Consultancy and Extension	66-83
Criterion IV: Infrastructure and Learning Resources	84-97
Criterion V: Student Support and Progression	98-118
Criterion VI: Governance, Leadership and Management	119-138
Criterion VII: Innovations and Best Practices	139-144
C. Profile and Evaluation Reports of Departments	145-195
D. Post Accreditation Initiatives	196-198
E. Declaration by the Head of the Institution	199
Annexure:	
Annexure I: Building Plan of College	
Annexure IIA & IIB - : Recognition as Minority Institution	
Annexure – III : Certificate of Recognition u/s 2(f) & 12(B)	
Annexure – IVA & IVB: Certificate of Accreditation from NAAC, 1 st cycle	



Fear of Lord is the Beginning of Wisdom

PREFACE

I take pride in presenting this 'Self Study Report', a document that details the performance of Stewart Science College, Cuttack during the period under review, for the second cycle of accreditation by National Assessment and Accreditation Council (NAAC).


Stewart Science College, established in the year 1944, is the only science college in the state of Odisha and is committed in imparting high quality basic science education in undergraduate level and developing scientific temper among the students. In addition to the curricular teaching, the all-round developments of the students are taken care of.

The college was accredited by NAAC for the first cycle in the year 2006. During the past few years, the Peer Team Report (PTR) recommendations were attended to and the college has been making tireless efforts to comply with these recommendations. During the post-accreditation period, the college has implemented several academic and administrative reforms which have yielded tangible results in achieving our goal of excellence.

The college has witnessed many changes during the past few years. After the retirement of senior teachers, young talents have taken over the responsibilities of carrying forward the tradition and legacy of this pioneer institution by incorporating new innovative methods of teaching by adopting advanced technological approach.

Establishment of Internal Quality Assessment Cell (IQAC) according to UGC guidelines is a major breakthrough to introspect and improve the quality parameters of teaching-learning process. Research endeavors have been geared up in the past few years with increased participation of teachers in research with a greater number of major and minor research projects being funded by different funding agencies such as UGC & BRNS. Besides, seminars are organized which give opportunity to invite and interact with experts from various fields who share their knowledge and help in expanding our academic horizons and enhancing the overall quality of teaching-learning.

I take this opportunity to express my sincere thanks to each and every individual colleague for their valuable contribution in preparing the SSR. The report has been prepared with utmost care as per the revised self-study manual of NAAC, covering all the aspects of different criteria based on the inputs collected from all sections of the institute. I am sure, the present 'Self Study Report' and the subsequent process of assessment and accreditation by PTR amply provide an opportunity for further improvement in the performance of this pioneer institution to reach a new horizon of excellence.


Principal,
Stewart Science College,
Cuttack
30.06.17



SWOC Analysis

Strength

- Only Science College in Odisha situated in the heart of the Silver City, Cuttack, Odisha, with proper communication facility
- Brand reputation to attract the best talents amongst students and teachers
- Valuable collection of texts and reference books in automated Central Library having study center and reprographic facility
- Research activities have gained momentum with increase in the number of publications during last four years
- Transparent e-admission process as per the guidelines of Director of Higher Education(DHE), Odisha
- Studded with qualified, dedicated, motivated and experienced teachers and other support staff
- Facility of English language laboratory, Computer laboratory, upgraded Science laboratory and furnished Class rooms
- Vibrant NCC, NSS, YRS, SDTP units for extension activities

Weakness

- Infrastructural constraints
- No internet facility in class rooms
- Curriculum is not in sync with contemporary needs of global standards due to constraints of University prescribed curriculum
- Lack of International collaboration in research

Opportunity

- Achieving autonomous status
- New skill development and vocational courses
- More funds for research activities
- Opening of new self-financing courses
- Online attendance of students
- Establishment of Central Instrumentation Laboratory to house sophisticated instruments
- Construction of an Auditorium

Challenge

- Development of adequate infrastructure for additional intake and opening of new programmes
- Diversification of research activities of inter-disciplinary nature
- To face global competition
- To meet the rising operational and maintenance charges
- Create and sustain strong relationship with society, in particular with Industry and Corporate sector
- Adjusting to rapidly changing techno-environment



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EXECUTIVE SUMMARY



CRITERION I: Curricular Aspect

- The college has adopted the curriculum framed by Utkal University in accordance with UGC guidelines, as it is affiliated to Utkal University.
- The teachers of the institution periodically receive guidelines from UGC/University/Govt. for proper implementation of the curriculum and development of teaching methodology.
- The college offers courses for +3 Science (Honours) in basic science subjects like Physics, Chemistry, Mathematics, Botany, Zoology and Geology.
- The curriculum is implemented in a systematic manner with allocation of courses and methodologies to be followed for teaching given by the department. The departmental time table is prepared after the central time table is finalised.
- Teachers are motivated to adopt modern teaching methods such as preparing power point slides and teaching in smart-board. Preparing lesson plan and maintaining progress in the prescribed format supplied by the Institution has been made compulsory for all the faculty members. The Principal of our college along with Heads of all departments and the Academic Bursar deploy action plans for effective implementation of the curriculum.
- Further, the teachers are allowed to participate in orientation/refresher courses, workshops/training programmes, seminars and symposia so that they can improve the contemporary teaching practices.
- To enrich the curriculum each department organizes seminars where the Honours students are encouraged to speak on topics relating to latest development of the subjects which are included in their curriculum. Also eminent scientists and columnists are invited as speakers regularly who enrich our students and also the faculty members.
- The curriculum designing and restructuring is essentially the responsibility of the University. The college, however, provides valuable inputs to the process by way of seeking feedback in many ways. The feedback received from the students and stakeholders on curriculum are reviewed and then communicated to the appropriate authority.



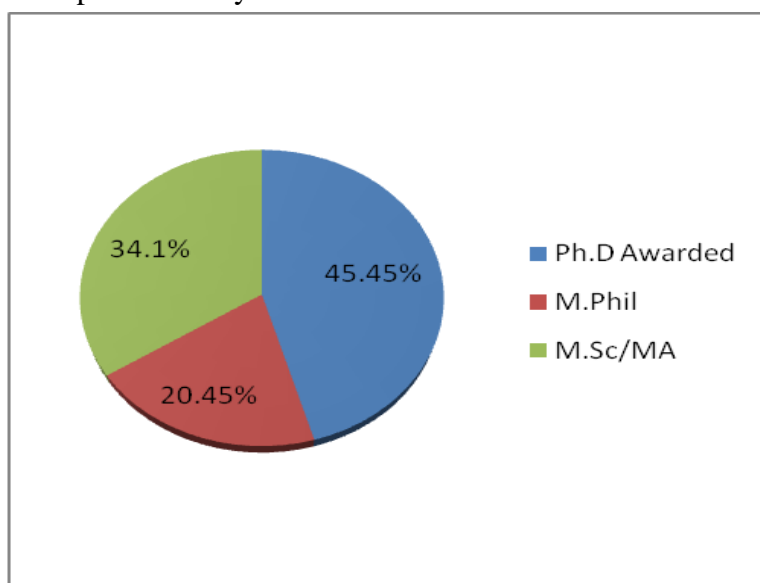
CRITERION II: TEACHING - LEARNING AND EVALUATION

- The admissions to various courses are made in accordance with the procedures prescribed by Government of Odisha. **Online Admission** is done centrally through Student Academic Management System (SAMS) introduced by the State Government. The **online process** brings better control over the process. The complete admission process along with the schedule of form submission, display of merit lists, seat allocations, fee structure and admission policy is displayed on the college website www.stewartsciencecollege.org as well as on the notice-board. This helps the prospective candidates from all over the country to gain easy access to the admission process.
- Admission to every course is conducted under the supervision of the admission committee constituted for the purpose and honours selection is done through counseling basis after the admission. The students have the opportunity of choosing the honours subjects from their branch (Physical Science/Biological Science) along with Pass/Generic Electives, Major elective and M.I.L in a one to one interaction during counseling session with members of admission committee and subject expert. Help and assistance is offered to all the students in selection of subjects with special attention being given to socially challenged and differently-able candidates.
- The college is committed to the National policy of diversity and inclusion of students from all sections of the society. The reservation policy prescribed by the Government of Odisha with respect to marginalized students and women is followed.
- The institution takes special care of differently-able students and caters to their needs by making special seating arrangements in theory & practical classes. Such students are allowed extra times as per Govt. norms along with scribes (if required) during examination. They are also provided with scholarships as per Government norms.
- The college has made efforts to shift the balance of higher education from the 'teacher-centric education' to 'student-centric education', by supplementing the traditional learning practices, with the use of innovative learning techniques. This is made possible by:
 - (a) Conducting special Bridge and Remedial Courses for the slow learners and differently abled students.
 - (b) Helping the academically disadvantaged students by arranging revision lectures and practicals.
 - (c) Challenging advanced learners to work ahead of the rest by providing them special coaching.



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- (d) Enriching the learning experience of the students, through subject association activities, such as group discussions, study tours, essay/poster competitions, and seminar presentations and arranging guest lectures from eminent academicians.
 - (e) Making the learning process more interactive and dynamic with greater participation of students.
 - (g) Supplementing lectures with various teaching aids, such as demonstration apparatus, models, charts, slides and use of ICT. Teachers have developed their own e-resources in some subjects. Language Laboratory has also been established for enhancing communication skills.
- Sincere effort is made to find out the best available talent to be appointed as a teacher by a transparent selection procedure by the management in accordance with the rule prescribed by Government of Odisha.



- Student-Teacher ratio is 16:1
- The process of evaluation is an important aspect of teaching-learning process. Our students are informed about the evaluation system and its schedule for evaluation at the beginning of the academic session through the Academic Calendar. Students are assessed, basing on formative assessment which is customized to suit the objective of the subject and summative assessment as prescribed by the University.
- College makes every effort to effectively implement the evaluation reforms of the university. During evaluation process, the mark foils bearing the roll numbers of the students are downloaded. Strict confidential measures are taken during uploading of the awarded marks.
- Obtaining student feedback on the performance of teachers is a regular practice



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- The learning experiences of our students are enriched through the activities organized by subject associations such as group discussions, guest lectures, study tours, lecture/essay/poster competitions and Wall Magazines. More emphasis has been placed on learning skills such as conducting surveys on social issues, data collection and presentation.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

- Stewart Science College has made conscious efforts towards the promotion of research that enhances quality of teaching, which is the core activity of the college.
- The college has a Research Coordination Committee (RCC) to monitor and address the issues of research in the college. The area of thrust of RCC is to encourage the faculty members to participate in research activities by creating awareness about various funding agencies & their schemes. It also organizes interactive sessions with scientists from national laboratories.
- Special study leave is sanctioned for professional development i.e. for undertaking research/field work. Duty leave is also sanctioned to present their research findings in seminars and conferences.
- The college provides infrastructural assistance and other resources needed for research. Resources are timely released by the authority to the principal investigator. The college also takes care to facilitate the special needs required for conducting the research such as maintenance of the instruments, reprography facility and internet connectivity.
- UGC and BRNS are the external funding agencies for research activities in our college. Some faculty members are continuing research for their Ph.D degree in collaboration with other Universities and research centers.
- During last four years 23 teachers out of 47 are involved in research activities & 04 teachers are recognized as supervisors for Ph.D. degree. Two minor research projects have been successfully completed & one major and four minor research projects are continuing in the research laboratory of our college.
- The research findings are published in journals of national/ international repute .A total of 84 research papers have been published during last four years. Also 20 numbers of books have been authored by our teachers.
- The college has bridged the gap between theory and practice, by establishing Career Counseling Cell as a part of quality improvement strategy. This has evolved as a platform for establishing linkages with the industry through



increased interactions with industry personnel. Many activities like interactive sessions, panel discussions and guest lectures and meetings are organized to inform the students about the possible job opportunities. Large number of students have benefited in getting placement offers.

- Our college organizes seminars and workshops to develop sensitivity among the students towards community issues, gender disparities, social inequity etc. and in inculcating values and commitment to the society.

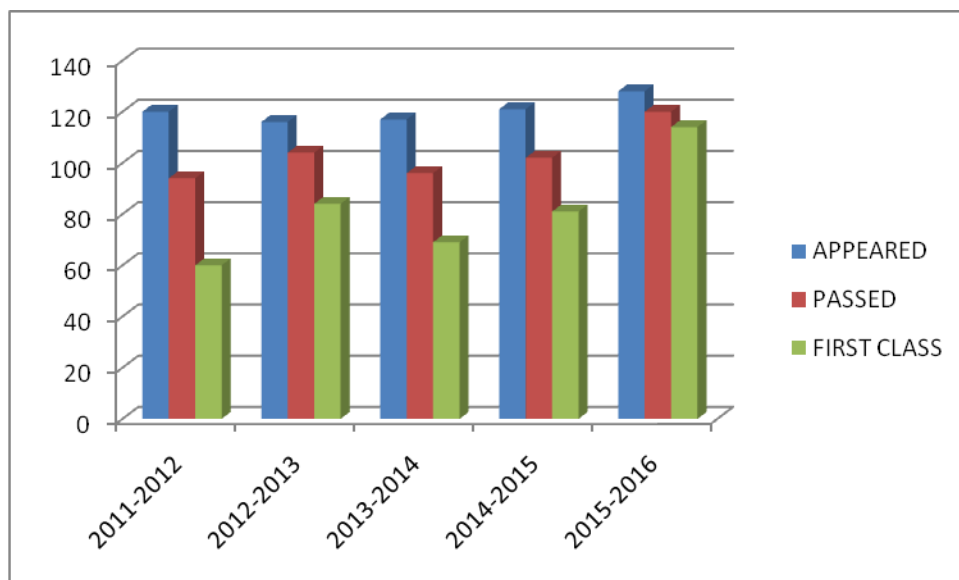
CRITERION IV: INFRASTRUCTURE AND LEARNING

- The college has spacious, well lit and ventilated classrooms equipped with LCD projectors and smart boards. All departments are housed in independent well equipped laboratories and Internet facility.
- Infrastructural developments are financed by the College Management, UGC and MP & MLA LAD.
- The institution facilitates extensive use of ICT resources with the use of computers, video teaching with LCD projectors, interactive board etc. The students are encouraged to present their seminar papers, project work through power point presentations. For uninterrupted power supply a 40Kilowatt Generator is available in the college.
- To keep pace with the changing environment, infrastructure is modified from time to time. Expenditure of **Rs.14, 50,000** approximately has been incurred towards infrastructural development during the last four years to construct one building to accommodate IT lab, Examination cell and a smart lecture theatre.
- The library is fully automated with 22,769 numbers of Books and reprographic facilities. There is separate space inside the Library building as study centre for students and teachers.
- There is an open stage inside the college campus and an auditorium that has been renovated recently for organizing various cultural activities.
- The college boasts of one playground spreading over an area of approximately 1.65 acres inside the college premises for outdoor games along with a well equipped Gymnasium.
- There is Provision for the constant supply of RO purified safe drinking water along with a well furnished canteen to provide hygienic food.
- The college is under strict CCTV surveillance along with 24 X 7 Security with certified security agency.



CRITERION V: STUDENT SUPPORT AND PROGRESSION

- The institution has a well structured, organized guidance and counseling system. It publishes annually the prospectus, college calendar and academic calendar indicating brief information about the college, structure of college management, admission procedure, eligibility criteria, rules regarding attendance and discipline, subject combinations offered, scholarships available for different categories of students from various state government agencies, prizes and endowments offered by the college, notice for “Zero Tolerance” against ragging, details about the Committee for Prevention of Sexual Harassment, library facilities, examinations & vacation/holiday schedule, games and cultural activities, rules of college election and students’ executive body, officers in charge of various curricular and co-curricular activities, N.C.C and N.S.S, Youth Red Cross, Self Defence Training, Eco Club, Yoga Club, RTI Cell etc. and last but not the least over all guidelines for students.
- Student profile of the college represents all sections of the society including minorities, economically weaker and differently abled sections.
- The high quality teaching imparted by our faculty members as well as the study atmosphere is reflected in the result sheet.
- The passing percentage of college students is about 85%, which is above the university average.



- For physically challenged students special arrangements are made in both theory and practical classes. Remedial classes are taken by faculty members and peer mentoring is encouraged to take care of slow-learners.



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- To improve the communicative skill of students, English language laboratory has been established. Add-on classes are held regularly to enrich the knowledge of meritorious students. The IT department of our institution is prompt enough to enhance the computer skill of students.
- The faculty of our college is dedicated to give extra coaching to the meritorious students to prepare them to pursue higher studies in reputed organizations. Every department makes an effort to enhance skill development amongst the students by organizing skill development workshops/ lectures/ modules for the students.
- Both Career Counseling Cell and Placement Cell organize meetings and talks on different career related issues to make the students aware of job market and job opportunities. A data bank is created for final year degree students in each academic year.
- The college has a Students' Union, which is a representative body of the students. Every degree student is a member of the union and is eligible for election to any of its offices subject to the provisions of Election Rules.
- The college believes in giving equal opportunities to all the students in maintaining discipline and supporting the administration for the holistic growth of the institution. The college breathes this aura of feeling "Let us be united in our thoughts, in our actions and our endeavors, for in unity lies our strength".
- Students' magazine '**THE STEWARTONIAN**' is published annually along with wall magazines and seminar bulletins in each department.
- Although our Institution is a pure Science college, and the students have to strive hard to attain academic excellence, the achievement of our students in various co- curricular, extracurricular and cultural activities at different levels is commendable.
- The college has an Anti-Sexual Harassment Cell to provide a congenial and homely atmosphere to the students. Not a single case of sexual harassment has been registered in the last four years.
- The anti ragging Cell of the college regularly monitors overall discipline in the campus. No incidences of ragging have been reported.
- The college has a mechanism for addressing the grievances of students in the form of a Student Grievance Redressal Cell to act upon their grievances at an earliest.
- The institution has a definite set of well-defined mechanism of obtaining feedback from the students to improve the method of imparting education by



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the teachers. Feedback is also collected from the IQAC members, academicians and prominent alumni for the improvement of overall standard of the institution.

CRITERION VI: ORGANIZATION AND MANAGEMENT

- College is governed by Diocese of Cuttack, Church of North India, Cuttack. **Governing Body, Stewart Science College** is the parent administrative body of the College comprising of Chairman, Secretary, reputed persons as members along with staff representative. **The Principal** of the college heads the academic, accounts as well as the administrative sections and is overall in charge of the college assisted by administrative, accounts and academic bursars.

Internal Structure of the Institution

GOVERNING BODY (GB)										
PRINCIPAL										
ADMINISTRATIVE BURSAR				ACADEMIC BURSAR				ACCOUNTS BURSAR		
Office	Library	Extension activities Cell (NSS, NCC, YRC)	All co-curricular and Extra	EXAMINATION CELL	Proctorial Cell	IQAC	UGC Cell	Research Coordination	Account Cell	Construct committee
										Purchase Cell

- The management provides the roadmap and general guidelines for quality policy in order to create a conducive learning environment and preserve the ethos of academic excellence set up by the college. Principal, faculty members with the able guidance of Management work together for the implementation of quality policy and plans proposed by U.G.C and the Department of Higher Education, Government of Odisha in the form of Common Minimum Standard (CMS).
- The management and Principal in collaboration with the IQAC make sure that the policy statement and the action plans are aligned with the stated vision, mission and objective of the institute. In such process the valuable suggestions of the stakeholders and staff council are given due importance. The



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institutional strategic plan (2010-15) was carefully prepared by referring to the suggestions provided by NAAC peer team report of the first cycle.

- To achieve academic excellence the Annual Self Appraisal Report is collected from individual faculty member regarding the completion of the curriculum, innovative method of teaching adopted, research activities etc. Further in improving the quality of teaching, effectiveness and efficiency of the institutional process, the best teacher awards is given every year. Further to encourage the participation in all the Institutional activities effectively the teaching and nonteaching staffs are felicitated for any special achievement during staff meetings.
- Departmental committees are given responsibility to take all the necessary steps for successful implementation of the academic/activity plan and submit the “Annual departmental activity report” to the Principal at the end of each academic year.

The financial matter of the college is under the surveillance of two institutions – College management and the Accountant general of Odisha, whose mechanisms of audit ensure the effective and efficient use of available financial resource. Internal audit of this college account is made by an auditor appointed by the management. Periodic audit is conducted by the Government of Odisha and by the office of the Accountant General.

CRITERION VII: INNOVATION AND BEST PRACTICE

- The college makes special efforts to instill environmental awareness among its students by conducting a wide range of activities through Eco-Club.
- Various innovations in teaching and evaluation processes are adopted by using modern technological methods. The English Language Laboratory helps in enhancing the communicative skills of the students
- Feedbacks from students, parents and alumni both in verbal and written form are taken into consideration for healthy academic ambience.
- For nurturing and nourishing the research talent and developing a spirit of scientific inquiry among the faculty members, consistent and conscious efforts are undertaken by The Research Coordination Committee (RCC) of our institution.
- For the holistic development of the students, Yoga Club organizes regular yoga and meditational practices, while the gymnasium helps in their physical fitness. Further, the self-defence training makes the students feel secure and confident.



Best practice I: Interactive Learning

To help students in changing their learning styles and to cope with the demands of new academic learning environment in order to meet the diversity of educational needs in this fast changing societal conditions. Teaching through interactive-learning materials is an emerging practice around the Globe and augmenting autonomous learning of students in improving thinking process with the introduction of learner-centered communicative approach. To achieve this, the faculty incorporates “engagement triggers” and breaks the lecture at least once per class to have students participate in an activity that lets them work directly with the material.

Interactive learning encouraged our students to actively participate in their own education through healthy debate between students and the teacher. It also motivated students towards further learning and developed their communication skills with people, which is very much required for their future work or career presentation.

Best practice II

Holistic development is the dynamic motto of higher education and Self discipline is the main attributing factor in achieving it. Self-discipline/self control is a magical key to unlock a life, leading to success and achieving desired goals. Obedience is a major ingredient in achieving self discipline. In our institution, self-discipline is inculcated into the minds of the students by organizing various extramural lectures, practicing Yoga and meditation through Yoga Club. However, it requires more dedication, commitment and positive supervision by proctors and faculty members, who will have to be vigilant on all their activities both inside and outside the college.



PROFILE OF THE COLLEGE

1. Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name :	STEWART SCIENCE COLLEGE	
Address :	MISSION ROAD, BUXI BAZAR	
City : CUTTACK	Pin :753001	State :ODISHA
Website :	www.stewartsciencecollege.org	

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Debasis Acharya	O: 0671-2416007 R: 0671-2415007	08763174886 09437212933	0671-2416007	principal@stewartsciencecollege.org
Vice Principal		O: R:			
Steering Committee Co-ordinator	Dr. Sunil Ranjan Biswal	O: 0671-2416007 R:	09337097531	0671-2416007	stewartsciencecollege_principal@yahoo.co.in

3. Status of the Institution :

i.Affiliated College	✓
ii.Constituent College	
iii.Any Other (Specify)	

4. Type of Institution:

a. By Gender

i.For Men	
ii.For Women	
iii.Co-education	✓



b. By Shift

i.Regular	✓
ii.Day	
iii.Evening	

5. Is it a recognized minority institution?

Yes	✓
No	

If yes specify the minority status (Religious / linguistic / any other) and provide documentary evidence. **Christian Minority** (Copy enclosed.)

6. Sources of Funding:

Government	
Grant-in-aid	✓
Self-Financing	
Any other	

7. a. Date of establishment of the college: 01/07/1944

b. University to which the college is affiliated /or which governs the college (If it is a constituent college) Utkal University, Vani Vihar, Bhubaneswar

c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks (If any)
i. 2 (f)	01.07.1972	Automatically comes under UGC
ii. 12 (B)	It is established in 1944	Automatically comes under UGC

(Enclosed the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.) NA



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Under Section/ clause	Recognition / Approval details Institution / Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.				
ii.				
iii.				
iv.				

(Enclose the recognition / approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes

☐

No

☒

If yes, has the College applied for availing the autonomous status?

Yes

☐

No

☐

9. Is the college recognized?

a. by UGC as a College with Potential for Excellence (CPE)?

Yes

No

☒

If yes, date of recognition: (dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes

☒

No

If yes, Name of the agency and

Date of recognition: (dd/mm/yyyy)



10. Location of the campus and area in sq.mts:

Location *	URBAN
Campus area in sq. mts.	12263.6
Built up area in sq. mts.	3725.2

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities - One
- Sports facilities
 - * Play ground - One
 - * Swimming pool
 - * Gymnasium - One
- Hostel
 - * Boys' hostel - No
 - i. Number of hostels
 - ii. Number of inmates
 - iii. Facilities (mention available facilities)
 - * Girls' hostel
 - i. Number of hostels – 01 (construction is under process, UGC fund)
(Alternate arrangement has been made.)
 - ii. Number of inmates
 - iii. Facilities (mention available facilities)
- Working women's' hostel - Nil
 - i. Number of inmates
 - ii. Facilities (mention available facilities)
- Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise) Nil
- Cafeteria — One
- Health Centre – One First Aid Centre

First aid, Inpatient, Outpatient, Emergency care facility,

Ambulance..... Health centre staff –One Lady staff for First-aid

Qualified doctor Full time ☐ Part-time ☐

Qualified Nurse Full time ☐ Part-time ☐



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- **Facilities like banking, post office, book shops:** Available within close proximity of the college
- **Transport facilities to cater to the needs of students and staff:**
All sorts of transport facilities are available in front of the gate
- **Animal house:** The Department of Zoology has a separate Animal House, but it is utilized only for storage of preserved specimens
- **Biological waste disposal:** NIL
- **Generator or other facility for management/regulation of electricity and voltage:** Yes
- **Solid waste management facility:** Facilities for segregation of dry and wet waste are available.
- **Waste water management:** Nil
- **Water harvesting:** Nil



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12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student	No. Of Student
	Under Graduate	+3 Degree	Three years	Higher Secondary	English	112+ 11(Physical Sc) 32+3(Bio Sc.) 10% extended seat	144+14
	Post-Graduat						
	Integrated Program						
	Ph.D						
	M.Phil						
	Certificate Courses						
	UG Diploma						
	PG Diploma						
	Any Other						



13. Does the college offer self-financed Programmes?

Yes ☐ No ☒

If yes, how many?

14. New programmes introduced in the college during the last five years if any?

Yes		No	<input checked="" type="checkbox"/>	Number	
-----	--	----	-------------------------------------	--------	--

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science				
Arts				
Commerce				
Any Other (Specify)				

16. Number of Programmes offered under (Programme means a degree course like BA, B.Sc., MA, M.Com....)

a. annual system	02
b. semester system	01
c. trimester system	NIL

17. Number of Programmes with

a. Choice Based Credit System	01
b. Inter/Multidisciplinary Approach	NIL
c. Any other (specify and provide details)	NIL

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes ☐ No ☒

If yes,



a. Year of Introduction of the programme(s)..... (dd/mm/yyyy)
and number of batches that completed the programme

b. NCTE recognition details (if applicable) NA

Notification No.:

Date: (dd/mm/yyyy)

Validity:.....

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes ☐ No ☐

19. Does the college offer UG or PG programme in Physical Education?

Yes ☐ No ☒

If yes,

a. Year of Introduction of the programme(s)..... (dd/mm/yyyy)
and number of batches that completed the programme

b. NCTE recognition details (if applicable) NA

Notification No.:.....

Date: (dd/mm/yyyy)

Validity:.....

c. Is the institution opting for assessment and accreditation of Physical Education programme separately

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor / Reader		Assistant Professor / Lecturer					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government	00	00	04	00	18	19	33	11	01	



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Positions	Teaching Faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor/ reader		Assistant Professor / Lecturer					
	*M	*F	*M	*F	*M	*F	*M	*F	*m	*F
Yet to recruit					05					
Sanctioned by the Management/ society or other authorized bodies					02	01	05	03	01	
Yet to recruit										

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent teachers:							
D.Sc./D.Litt			00	00	00	00	00
Ph.D.			03	00	09	08	20
M.Phil.			00	00	05	04	09
PG			01	00	06	08	15
Temporary teachers							
Ph.D.							
M.Phil.							
PG							
Part time teachers							
Ph.D.							
M.Phil.							
PG							

22. Number of Visiting Faculty /Guest Faculty engaged with the College. 01(one)

23. Furnish the number of the students admitted to the college during the last four academic years.



Categories	Year 13-14		Year14-15		Year15-16		Year16-17	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	6	1	4	0	9	4	5	1
Minority	2	5	12	5	10	5	5	9
General	66	56	74	34	81	52	80	50
ST	2	6	4	3	2	6	5	3

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	158				
Students from other states of India	00				
NRI students	00				
Foreign students	00				
Total	158				

25. Dropout rate in UG and PG (average of the last two batches)

UG PG

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component

Rs. 91,373/-

(b) Excluding the salary component

Rs. 3,718/-

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes ☐ No ☒

If yes,

a) is it a registered centre for offering distance education programmes of another University

Yes ☐ No ☒

b) Name of the University which has granted such registration.



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c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes No

28. Provide Teacher-student ratio for each of the programme/course offered

UG – 16:1

29. Is the college applying for

Accreditation: Cycle 1 Cycle 2 ☒ Cycle 3
Cycle 4

Re-Assement: NA

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation).

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: (17/10/2006) Accreditation Outcome/Result “B”

Cycle 2: (dd/mm/yyyy) Accreditation Outcome/Result.....

Cycle 3: (dd/mm/yyyy) Accreditation Outcome/Result.....

* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.

31. Number of working days during the last academic year – 240 days

32. Number of teaching days during the last academic year – 188

(Teaching days means days on which lectures were engaged excluding the examination days)

33. Date of establishment of Internal Quality Assurance Cell

(IQAC) IQAC - (13/05/2015)



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34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i) For 2015-16 submitted on 08.05.2017 (dd/mm/yyyy)

AQAR(ii) For2016-17 submitted on 30.06.2017 (dd/mm/yyyy)

AQAR (iii) NIL (dd/mm/yyyy)

AQAR (iv) NIL (dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)



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CRITERIA-WISE INPUTS



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CRITERION I: CURRICULAR ASPECTS



1.1 CURRICULUM PLANNING AND IMPLEMENTATION

1.1.1 *State the vision, mission and objectives of the institution and describe how these are communicated to the students, teachers, staff and other stakeholders.*

The college was established to provide value based quality Science Education to students of all sections of society with following goals and objectives.

Vision:

- To provide quality science education in the state
- To foster the advancement of scientific knowledge
- To impart meticulous rigorous training that enables a student to learn science effectively
- To ensure a creative and innovative thinking in scientific domain
- To inculcate human potential and scientific tempo that can be utilized in the dimension of social peace, prosperity, integrity and social harmony
- To nurture the scientific idea in terms of knowledge and wisdom in constructive dimension of social stand
- To promote humanitarian virtues and to preserve our past ideas, cultural and spiritual heritage
- To build up the moral character of the students through internal development of their personalities and make them responsible citizen in future
- To promote a sense of friendship, generosity, goodwill and common brotherhood among all sections of pupil
- To be an important pillar to achieve national integration, which is a great need and demand of the present time
- To be a citadel of learning science where every student regardless of his/her social and economic status has an equal opportunity for development according to his/her own capability and initiative



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Mission:

- The mission of the institution is embodied in its Crest. It contains words which means ***“Fear of The Lord is Beginning of Wisdom”***



The college insignia comprises of five distinct symbols

- The top symbol is the entrance of Barabati Fort of Cuttack indicating the entrance to the citadel of knowledge
- The open book stands for source of knowledge and wisdom
- The tree shows green environment of the college
- Symbol “S” at the centre of the crest stands for the name of the college
- Ear of grain at the bottom symbolizes the productive knowledge
- 1944 is the year of establishment of the college to spread higher education in science

Objective:

- To grow into college of excellence by opening post graduate courses in different science discipline
- To create man power in science who can contribute to the state, to the nation and to the world at large
- To create conducive atmosphere for humanism, tolerance, reason, progress, development of new ideas and the search for truth
- To be the potential source to nourish the scientific and technical knowledge for long term improvement of quality education in the field of basic science
- To introduce job orientated courses such as Remote Sensing, Geographic Information System and inter disciplinary courses like Electronics and Telecommunication, Polymer Science, Food Science, Microbiology, Forensic Science, Biophysics, Geochemistry
- To encourage students to participate in different cultural activities and science exhibition in State / National / International level to improve their skill, innovative idea and intellectual capacity

1.1.2 ***How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).***



The college has adopted the syllabi framed by the Utkal University in accordance with the U.G.C. guidelines, since the college is affiliated to Utkal University. The subject-wise course curricula are designed by the respective Board of Studies within the frame work of U.G.C. guidelines. Some senior faculty members of our college are the members of Board of Studies for their respective subjects.

The Principal of our college along with heads of all departments and the Academic Bursar deploy action plans for effective implementation of the curriculum. They also scrutinize the feedback given by the students and try to find ways and means to develop the teaching methods, which will be useful to the students for their future careers. For example: the faculty members of our college discuss some competitive/entrance examination oriented questions with the students. Due to their extra effort our passed out Honours students are getting admission in different IITs and ISM, Dhanbad to pursue M.Sc. course and integrated M.Sc-Ph.D programme.

1.1.3 *What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?*

The teachers of the institution periodically receive guidelines from UGC/University/Govt. for proper implementation of various curriculums and developed methodology of teaching. Further the teachers are allowed to participate in orientation/refresher courses, workshops/training programmes, seminars and symposia in order to improve the contemporary teaching practices.

1.1.4 *Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other Statutory Agency.*

The contribution of the Governing Body of Stewart Science College towards the effective curriculum delivery is highly appreciable. Most of the Honours class rooms are provided with Smart Board. Also internet facility is given to each Department. Teachers are motivated to adopt modern teaching methods such as preparing power point slides and teaching in smart-board. Preparing lesson plan and maintain progress in the format supplied by the Institution has been made compulsory for all the faculty members. Monthly Assessment test is conducted to monitor the performance of the students. Remedial classes are arranged to upgrade the knowledge of the weak students. Proctorial System regulates Parent-Teacher Meet during each academic session to ensure sincerity of the students.

1.1.5 *How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?*

Professionals and old students from research bodies/other universities/industries are very often invited to deliver scientific lectures in the college. For the effective operationalization of the curriculum, suggestions from educationists and Career Counselor are sought for.



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1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions, etc.)

Senior faculties of some departments represent the meetings of Board of Studies of their concerned subject and allied meetings of the University for modification, inclusion and enrichment of the course curriculum. On the basis of student/stakeholder feedback, appropriate authorities are being approached from time to time for opening up of new subjects in UG level. On the basis of such suggestions the Department of Higher Education introduced Choice Based Credit System (CBCS) from this Academic Session.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If yes, give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

NA

1.1.8 How does the institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

The Management and the Principal are very particular to ensure the completion of the course in time so that the students are benefitted to the maximum and the objectives of the curriculum are achieved. For this, all faculty members maintain the lesson plan and daily progress register which is reviewed by the Heads of the Departments every month and the report of the progress is intimated to the Principal.

1.2 ACADEMIC FLEXIBILITY:

1.2.1 Specifying the goals and objectives. Give details of the Certificate/diploma/skill development courses, etc., are offered by the institution.

The Institution offers courses for +3 Science (Honours) under the affiliation of Utkal University, Odisha. Hence the university issues certificates to the pass out students.

The students can opt for any one of the following Honours Subjects:

- i. Physics
- ii. Chemistry
- iii. Mathematics
- iv. Botany



- v. Zoology
- vi. Geology

The college management has applied for self-financing course in Computer Science (Honours).

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If yes, give details.

No

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- a. **Range of Core / Elective options offered by the University and those opted by the college**
- b. **Choice Based Credit System and range of subject options**
- c. **Courses offered in modular form**
- d. **Credit transfer and accumulation facility**
- e. **Lateral and vertical mobility within and across programmes and courses**
- f. **Enrichment courses**
- a. **Range of Core / Elective options offered by the University and those opted by the college**

Our Institution provides multiple options in Honours and Elective subjects in UG level along with some basic compulsory subjects as depicted in the following table:

STREAM	HONOURS	ELECTIVE/GENERIC ELECTIVE (MINOR/MAJOR) (PASS)	COMPULSORY
SCIENCE	PHYSICS	PHYSICS	ENGLISH
	CHEMISTRY	CHEMISTRY	M.I.L (ODIA/HINDI/ALT. ENG.)
	MATHEMATICS	MATHEMATICS	ENVIRONMENTAL STUDIES
	BOTANY	BOTANY	INFORMATION & TECHNOLOGY
	ZOOLOGY	ZOOLOGY	INDIAN SOCIETY & CULTURE
	GEOLOGY	GEOLOGY	



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b. Choice Based Credit System and range of subject options

The Department of Higher Education, Odisha introduced Choice based credit System(CBCS) in UG level from this academic session.

c. Courses offered in modular form

All courses are offered in modular form. Each paper contains five units and students are required to answer from each module having alternative option.

d. Credit transfer and accumulation facility: YES as per the guidelines of Utkal University

e. Lateral and vertical mobility within and across programmes and courses

Lateral and vertical mobility within and across the curriculum is encouraged by introducing compulsory subjects such as Environmental Studies, Information & Technology and Indian Society & Culture in UG level. Besides, inter-disciplinary courses such as Biology for Physical Science and Mathematics for Biological Science students are made compulsory as Minor Elective to impart knowledge in broad spectrum.

f. Enrichment courses

Review made by Board of Studies of each subject annually in accordance with the UGC model curriculum helps to enrich the courses offered in UG level. In addition to it, each department organizes seminars where the Honours students are encouraged to speak on topics relating to latest development of the subjects which are included in their curriculum. Also eminent scientists and columnists are invited as speakers regularly who enrich the knowledge of our students and also the faculty members.

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary.etc.

NO

We have applied for computer Science (Honours) as self-financing programme.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If yes, provide details of such programmes and beneficiaries.

The college provides additional skill development of its students through the English Language Laboratory, which enhances the communicative ability of the students. The curriculum comprises pronunciation and dictation improvement, test of reading and writing skills and extempore speeches. The programme involves audio visual method of teaching, which is an added benefit for effective learning.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the course/combination of their choice? If yes, how does the institution take advantage of such provision for the benefit of students?



Yes

The University provides the flexibility for the students to choose the Honours subjects from their branch (Physical Science & Biological Science) along with Pass/Generic Elective, Major elective and M.I.L in a face-to-face interaction during counselling session with members of admission committee and subject expert. This enables the students to make judicious choice of the subject of their liking in which they can make the best use of their innate potentialities.

1.3 CURRICULUM ENRICHMENT:

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated.

The college makes consistent efforts to supplement the University curriculum by organizing activities, which focus on integrating goals and objectives of the institution in terms of academic and general development of students. They are as follows:

- Guest lectures, extension lectures, face to face interactions between industry experts and students and panel discussions.
- Study tour and field surveys in the form of short term projects.
- Preparation of wall magazine by students in different Departments
- Motivating students to participate in various intra and intercollegiate competitions
- Keeping the laboratories open for students through the activity "Learning by Doing in Lab" (LBDL)
- Use of language laboratory to improve basic linguistic skills of the students
- Workshops, seminars, science exhibitions have been an integral part of the learning process

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

The existing curriculum within the framework of UGC guideline has been formulated with a noble aim of increasing the employability of students. Besides, the knowledge acquired by the students from the said curriculum trains the students so that they have a bright chance of getting admission into prestigious institutions for higher studies and research.



1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT, etc. into the curriculum?

Environmental Education and Climate Change are within the purview of Environment Studies, which is a compulsory elective subject. The management of the institution frequently organizes popular talks/awareness programmes on cross cutting issues like Human Rights, Climate Change, Gender and Environmental Awareness.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- ❖ *Moral and ethical values*
- ❖ *Employable and life skills*
- ❖ *Better career options*
- ❖ *Community Orientation*

For inculcating moral and ethical values, students are encouraged to participate in campus cleaning drive, plantation programme, blood donation camp, health camps and other similar enrichment programmes organized by the Youth Red Cross and N.S.S wings of the college. Besides, the self-defence programmes prescribed by Govt. of Odisha improve the self-confidence of girl students.

The staff and the students of this institution actively participate in various community service programmes:

- Financial assistance collected by spontaneous donation from staffs and students are given to poor students and staffs during their serious health problems
- After the disastrous cyclone 'Phailin', our college has adopted the slum of Pattapole, where from time to time students and NSS volunteers have rendered service towards Literacy drive and Health check-up of the dwellers.
- Students of the college have voluntarily rendered social services during the mega Baliyatra Fair in controlling traffic, maintaining discipline, providing pure drinking water and assisting the local administration in maintaining law and order.
- AIDS awareness campaign, 'Save the Girl Child' campaign, Swachha Bharat Abhiyan, Vanamahotsav, Road Safety Awareness programmes, are other commendable community orientation programmes undertaken by the students.

1.3.5 Citing a few examples enumerate on the extent of the use of the feedback from stakeholders in enriching the curriculum?

The college from time to time obtains feedback from the students of different departments in informal ways through personal interaction. The feedbacks are considered in



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periodical meetings in the college and follow-up actions are taken to enrich ourselves. Also the proctors take feedbacks from their respective groups and the deficiencies of students are meted out. Discussions with subject experts and industry personnel during meetings, seminars and conferences also provide valuable inputs in enriching the curriculum. Accordingly, the authority has written to the government and affiliating bodies for opening new programmes in UG level.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The institution has a two-fold mechanism for the evaluation of curriculum and other related curriculum enrichment programmes. The academic achievements of the students are evaluated through monthly–assessment tests, half yearly and annual examinations and accordingly the weak students are identified for extra academic care. Further, the Principal discusses with the Heads of the Department at the end of each month to know the status of progress of the existing curriculum. At the same time, the authority is vigilant in the maintenance of daily progress register for the progress of courses. For monitoring and evaluating the quality of enrichment programmes, the teachers obtain feedback from the participants, both in formal and informal ways towards the end of each programme. This helps in future planning to get the best out of such programmes.

FEEDBACK SYSTEM:

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

Faculties of three departments of this institution represent the meetings of Board of Studies of their concerned subject and allied meetings of the University for modification, inclusion and enrichment of the course curriculum. On the basis of student/stakeholder feedback, Department of Higher Education introduced Choice Based Credit System(CBCS) from this Academic Session.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

The curriculum designing and re-structuring is essentially the responsibility of the University. The college, however, provides valuable inputs to the process by way of seeking feedback in many ways. The feedback received from the students and stakeholders on curriculum are reviewed and then communicated to the appropriate authority.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?

Any other relevant information regarding curricular aspects which the college would like to include.

No new programme has been introduced. However, the College has applied for the opening of Computer Science (Honours) programme.



CRITERION II:

**TEACHING,
LEARNING
AND
EVALUATION**



2.1 STUDENT ENROLMENT AND PROFILE

2.1.1 How does the College ensure publicity and transparency in the admission process?

As Stewart Science College is one of the oldest reputed institution for imparting quality Science education in the Silver City of Cuttack, Odisha, it attracts students from all over the state as well as from outside the State, and does not require any special **publicity** as such. However, the college follows **Online Admission Process** done centrally through Student Academic Management System (SAMS) introduced by Government of Odisha. The direct benefits of the online system is **transparency** in the whole process, 24 X 7 availability, no geographical boundaries, no long queues, reduction in paper work, reduction of human involvement; accurate, reliable, cost effective and user friendly process. Admission to every course is conducted under the supervision of the admission committee constituted for the purpose and honours selection is done through counseling basis after the admission.

The complete admission process along with the schedule of form submission, display of merit lists, seat allocation, fee structure and admission policy is displayed on the college website www.stewartsciencecollege.org as well as on the notice-board in the main building and at prominent locations on the campus and updated from time to time. Information regarding admission criteria, programmes offered, endowments, scholarships/free-ships and other student support facilities are provided in the college website.

2.1.2 Explain in detail the criteria adopted and process of admission (Example(i) Merit (ii) Common admission test conducted by the state agencies and national agencies (iii) Combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the institution.

In UG level the e-admission process is made mandatory by Government of Odisha since 2011, which is applicable for all degree colleges of the State. The online admission is done centrally by SAMS. Students apply online by a common application form (CAF) through the website www.dheodisha.in. Selection is done centrally by the software designed by Odisha Computer Application Centre (OCAC) taking into account the merit as well as reservation and weightage as per Government norms. Admission to every course is conducted under the supervision of the admission committee constituted for the purpose. The students have the opportunity of choosing the Honours subjects from their branch (Physical Science or Biological Science) along with Generic Electives/pass, Major elective and M.I.L in a one-to-one interaction during counseling session with members of admission committee and subject expert.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.



Admission details of Stewart Science College, Cuttack for the year 2016-17:

PROGRAMME	MINIMUM MARKS	MAXIMUM MARKS
+3 SCIENCE		
BIOLOGICAL SCIENCE	60.33%	87.6%
PHYSICAL SCIENCE	48.83%	91.87%

Admission details of Christ College, Cuttack for the year 2016-17:

PROGRAMME	MINIMUM MARKS	MAXIMUM MARKS
+3 SCIENCE		
BIOLOGICAL SCIENCE	47.67%	77.5%
PHYSICAL SCIENCE	47.67%	80.00%

2.1.4 Is there a mechanism in the institution to review admission process and student profiles annually? If 'yes', what is the outcome of such an effort and how has it contributed to the improvement of the process?

Yes

There is a mechanism to review the admission process and student profiles annually. The college has an Admission Committee consisting of the Principal, Convener, Admission in Charge (AIC) and a team of senior faculty members to assist in the admission process. This Committee monitors the whole admission process in the college. After the completion of the admission process, the college Admission Committee and Administrative Office submit the student profile to the IQAC office through academic bursar. The IQAC and Admission Committee analyze the students' profiles to see if they are in compliance with the state government and university regulations. The outcome of the process results in a fair and transparent admission process. Suggestions for improvement in the current admission process are considered for the future admission process. As a result of this mechanism, the admission process has been streamlined and provides an insight into the demographic data of the students.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.



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- ❖ *SC/ST*
- ❖ *OBC*
- ❖ *WOMEN*
- ❖ *Differently Abled*
- ❖ *Economically Weaker Sections*
- ❖ *Minority Community*
- ❖ *Any other*

The college is committed to the National policy of diversity and inclusion of students from all sections of the society. The reservation policy prescribed by the Government of Odisha with respect to marginalized students and women is followed. This is reflected in the student profile presented as follows:

Category	2012-13	2013-14	2014-15	2015-16	2016-17
SC	08	07	04	13	06
ST	12	08	07	08	08
MINORITY	05	07	17	15	14
DIFFERENTLY ABLED	Nil	01	Nil	01	Nil
WOMEN	43	68	42	67	63

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends, i.e. the reasons for increase/decrease and actions initiated for improvement.

(i) **Physical Science:**

YEAR	NO OF APPLICATION RECEIVED	NO. OF STUDENTS ADMITTED	DEMAND RATIO
2013-2014	1304	110	11.85
2014-2015	1421	108	13.16
2015-2016	1590	132	12.04
2016-2017	1613	123	13.11



(ii) **Biological Science:**

YEAR	NO OF APPLICATION RECEIVED	NO. OF STUDENTS ADMITTED	DEMAND RATIO
2013-2014	820	34	24.11
2014-2015	895	28	31.96
2015-2016	935	37	25.27
2016-2017	1017	35	29.05

Being a premier science college of the state the demand for both physical and biological science is gradually increasing, since the academic profile of our institution attracting students from within and outside.

2.2 CATERING TO STUDENT DIVERSITY:

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The institution takes special care of differently-able students and caters to their needs by adopting the following methods:

- Special seating arrangements in theory & practical classes.
- Such students are allowed extra times as per Government Norms along with scribes (if required) during examination.
- They are provided with scholarships as per Government norms.
- Being escorted by their friends or other members of the college.
- Special remedial classes for differently-able students are organized.
- Promotes the formation of study circles among students to encourage peer mentoring.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

Yes

In order to assess the students' needs in terms of knowledge and skills, the college has adopted the following procedure.

- During the **admission process**, the members of the admission committee help students in selecting appropriate subject combinations through one-to-one counseling.



- (b) In the first year, during the initial two weeks of commencement of classes, teachers are instructed to take special efforts to assess an overview of the learning standard of the students in that particular subject in higher secondary level. Revising the basics of these subjects helps in bridging the knowledge gap and brings weaker students at par with others.
- (c) During these interactions in Theory and Practical classes, teachers identify the nature of support required by the students.
- (d) Update the teaching-plan so as to cater to the needs of the weaker students.

2.2.3 *What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/ Remedial/ Add-on/ Enrichment Courses, etc.) to enable them to cope with the programme of their choice?*

During initial sessions, our teachers dedicate themselves in further assessing and bridging the knowledge/ skill gap of enrolled students. Interactions between teachers and students during theory/practical classes help in revealing the knowledge level of the students. The academic performance in previous academic year helps in identifying the slow/weak and advanced learners. The strategies adopted by the college are as follows:

- (a) Proctorial / Remedial coaching is given to slow learners, academically weak students or those who are continuing their education after a gap.
- (b) Students with inadequate language skills are asked to join communication skill programmes.
- (c) Students' progress is monitored through the mentoring system.
- (d) Special attention is given to needy and deserving students by the individual teachers.
- (e) Seminars/ Workshops/ Sensitization programmes/ Extra-mural lectures are organized for Add-on/enrichment of the curriculum enabling the students to cope with the programme of their choice.

2.2.4 *How does the college sensitize its staff and students on issues such as gender, inclusion, environment, etc.?*

The college sensitizes its staff and students on issues such as gender, inclusion, environment etc. through the following activities:

- Conducts activities like poster exhibitions/extra-mural lectures to spread the message of gender equality.
- The NSS wing of the college conducts several programmes to sensitize the students to the issues of environment and sustainability like conducting environmental audit of the college campus, campus cleanliness drive under Swacha Bharat Abhiyan, e-waste awareness



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drive, organization of workshops, seminars and guest lectures on environmental issues, observing/celebrating various designated days, environment centre visits, film screenings etc.

- Differently-able students are provided with special facilities and at the same time encouraged to be a part of main stream activities.

- The NSS unit of the college also organizes programmes on gender equality, anti-ragging measures, save the girl child campaign, environment awareness, plantation etc.

2.2.5 How does the institution identify and respond to special educational/ learning needs of advanced learners?

Advanced learners have higher expectations from the college. They are identified through:

- Academic history
- Monthly assessment test
- Orientation programmes
- Periodical viva voce test during practical class
- Feedback from peers
- Presentation of seminar talks
- Faculty feedback

The College responds to the special learning needs of advanced learners in the following manners:

- Recommending reference books and journals as per their needs from seminar libraries
- Providing access to various web resources of ICT
- Allowing them to spend more time in laboratories
- Helping them to explore independently by conducting new experiments using research instruments
- Helping them to build Numerical-solving abilities
- Providing opportunities to represent the college in various events and activities at the University/ State/ National levels
- Providing leadership positions in academics and extra-curricular committees/ activities and paper presentation and publication in departmental seminars and workshops
- Giving recognition at various forums through Awards and Rewards
- Highlighting their name in Achiever's Gallery



2.2.6 *How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections, etc. who may discontinue their studies if some sort of support is not provided)?*

The academic performance of the students is evaluated by the faculty members. The Director, IQAC collects regular feedback from heads of the various departments in terms of attendance, punctuality in classes and performance in monthly assessment test to identify the students at a risk of drop-out. Faculty members work as counselors as well as mentors.

After analyzing the data, information about students who are at a risk of drop out is given to their respective parents/guardians from time to time. For economically-strained students, financial assistance in the form of various scholarships is given. Special remedial classes are arranged for slow learners.

2.3 *TEACHING – LEARNING PROCESS:*

2.3.1 *How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)*

To maintain the quality in the academic atmosphere, the college adheres to the Common Minimum Standard (CMS) formulated by Department of Higher Education, Odisha. Various strategies and mechanisms for student centric learning adopted by the teachers to cater to the diverse needs of the students in the classroom are as follows:

- Common academic calendar
- Common time table
- Lesson plan by each teacher for individual classes
- Maintenance of daily progress register
- Keeping record of student attendance through attendance register
- Maintaining prescribed teaching days
- Subject wise question bank
- Seminar for Honours students
- Availability of sufficient text-book, reference books and internet facility in the library
- Teachers are to stay for minimum 5 hours in the college
- Minimum 25 classes per week
- Biometric attendance for staff members



2.3.2 *How does the IQAC contribute to improve teaching – learning process?*

IQAC meetings are conducted at regular intervals, which monitor both the regularity and quality of teaching.

2.3.3 *How is the learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive training, collaborative learning and independent learning among the students?*

Learning process is made more student-centric by the following manner:

- Honours students are allowed to deliver seminar talks under the supervision of teachers
- They also design projects which are displayed in Science Exhibition organized by our college and other organizations
- Each department is supplied with computer and LCD projectors along with smart board and internet facility
- Focus is given to make the teaching interactive by which the students are made to feel free enough to interact with the teachers
- The student and faculty members keep pace with the recent developments through internet, books and journals. Each department has its seminar library in addition to the central library, which has a comprehensive collection of books and journals.
- Each Department has a wall magazine in which popular science topics are displayed by the students.

2.3.4 *How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?*

The college provides several opportunities to students, which promote critical thinking, creativity and scientific temper amongst the students. Creative writing in the form of poetry, short stories, popular science topics etc. are encouraged by publishing the same in the college magazine/wall magazines/departmental seminar bulletins. Scientific temperament is installed by assigning small project works, which are displayed in Science Exhibition/poster presentation. Various societies in the college aim at enhancing and nurturing the creative and scientific temper of the pupils beyond syllabus and textbooks. The college also motivates them to participate in essay, debate, group discussion, quiz, painting and *rangoli* competitions in and outside the campus.

2.3.5 *What are the technologies and facilities available and used by the faculty for effective teaching? Example: Virtual laboratories, e-learning resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.*



Faculties use Smart board, LCD projectors for power point presentation and document camera etc. for teaching purpose besides blackboard method. They refer different educational websites and e-journals from the internet for disseminating knowledge to the students. Internet facility is provided to all the departments. However proposal for Wi-fi campus is under active consideration.

2.3.6 *How are the students and faculty exposed to advanced level of Knowledge and skills (blended learning, expert lectures, seminars, workshops, etc.)?*

Teaching-learning is a continuous process and being in tune with recent developments helps both the teachers and students to sharpen their skills. Many opportunities are created by the college to expose students and faculty to advanced level of knowledge and skills.

- With the advent of facilities like ICT, audio-visual facilities and language laboratory, the faculty has started exploring the use of these technologies in teaching, which has resulted in implementing the blended learning process for students. Computer assisted learning and digital materials are made available to the students to supplement classroom teaching.
- Renowned personalities from all walks of life like scientists, consultants, businessmen, writers, actors and entrepreneurs are invited to the campus to interact with the students.
- Provision of educational trips to give firsthand knowledge to the students

In addition to the above mentioned activities, members of faculty enrich their knowledge by:

- Attending Faculty Development Programme such as orientation/ refresher courses
- Presenting papers in National and International Seminars/ Conferences (profiles of individual faculty member attached)
- Publishing research papers in journals of National/International repute
- Being resource persons in Departmental/ State Seminars and other learned societies

2.3.7 *Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/ mentoring/ academic advice) provided to students?*

Degree level education nurtures the basic knowledge and opens gate to various opportunities available to select the future prospects of life. In our institution, Career Counseling caters to this need by arranging lectures from eminent personalities of different fields. The counselors explain the scope to the student, tell about suitable career avenues available and eventually help them to arrive at a suitable career option.



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S.NO.	DATE	TOPIC	RESOURCE PERSON	NO. OF STUDENTS ATTENDED/ BENEFITTED
1.	13/02/2013	Choosing right career	Sri Arpan Acharya, Research Fellow, National Law University	88
2.	04/8/2013	Importance of soft skill in career development	Sri Ullas Pradhan, Founder Director of Smart Edged Spoken English Grooming Center of Personality Development	92
3.	15/11/2013	Right choice of selection of career in different field	Prof. Mongesh Dash, Director, PGDM	77
4.	08/01/2014	Career in biotechnology	Dr(Mrs) Manorama Pati, Sr. Faculty Ravenshaw University	65
5	17/7/2014	Choosing career in information technology	Sri Samik Mishra, Project Team Leader, IBM	85
6	21/11/2014	Brooming demand of geology in current global scenario	Dr. Surendra Sarangi, Managing Director, Geomine Consultant	76
7	07/02/2015	Self employment	Mr. B. B. Das, Social Activist	68
8	14/7/2015	Career in science	Prof(Dr) Nachiketa Das, Dean & Head, Department of Geology, Ravenshaw University	83
9	13/01/2016	Career in Insurance sector	Mr. S. P. Moharana, Consultant Advisor, LIC of India	57
10	12/7/2016	Management in career	Shrusti Academy of Career, Bhubaneswar	75
11	19/11/2016	Career Advancement after Graduation	Prateek Das Asst. Professor Centurion University, Bhubaneswar, Khurda	82
12	26/11/2016	Career in Management Sector	Prof. Siddhartha Nanda Amity Global Business School, Bhubaneswar	91



Faculty members are assigned with the duty of proctor, who acts as a counselor/mentor/ advisor for a group of 32 students. The proctor looks into the academic, psychological and personal problems of the students allotted to him/her and advice them accordingly and try to sort out the same. To redress problems related to stress, anxiety, examination phobia, peer pressure, counseling is provided by the faculties.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years. What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Every department adopts innovative methods of teaching which helps the students to understand the subject thoroughly. Participatory and student-centric teaching methods have been introduced with the use of modern technology in addition to the usual blackboard method.

Teachers are constantly motivated to upgrade their knowledge and method of teaching by:

- Participating in International, National and State level Seminars/Conferences.
- Attending refresher course/orientation course/workshop/summer course/ winter course/short term course etc.

Further, the college has developed ICT infrastructure to keep pace with the changing methodologies in teaching-learning processes at global level. All science laboratories have been technically strengthened and well equipped. Such innovative methods help students to grasp the subject and its intricacies, making learning an enjoyable experience.

2.3.9 How are the library resources used to augment the teaching-learning process?

There is a Central Library in the college having 22,769 no. of books and magazines and periodicals. The library committee of the college looks after the purchase of books and journals every year. The Library committee collects the requisitions for the purchase of books from the Heads of the department at the beginning of every academic year to augment the basic resources for teaching-learning process. There has been an addition of 1528 number of text books/ reference books in the past six years. Apart from this, there are departmental libraries, which are enriched by procuring new books and supplementing the stock from the central library. Study materials such as notes, question banks and reference books are also available for the students.

Internet and reprographic facilities are available in the library. In the reading room, students are encouraged to read reference books besides their text books. The librarian and the staff render all possible help to the students. The working hour of the library is from 9AM to 5PM. Faculties access the library resources for teaching, paper presentation, publications, project work and research.



2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

It is a matter of great pride, that our college does not face any challenge in completing the curriculum within the scheduled time frame as per the academic calendar. To achieve this, the management has appointed adequate number of staffs in each department.

2.3.11 How does the institute monitor and evaluate the quality of teaching-learning?

The teaching-learning process in our college is well planned and executed properly. The college has a well-established monitoring mechanism to ensure the quality of teaching-learning, which are as follows:

- The Principal verifies the lesson plan of individual teacher and progress register of each department and even makes surprise visits to different departments.
- Heads of the department review methods adopted in teaching, academic progress, student attendance and student performance etc. with other members of the department, Academic Bursar and the Principal.
- The Principal convenes meeting of Heads of the Department at regular intervals to ascertain completion of courses on time, quality teaching methods, improvised classroom environment. The Principal also takes feedback of the academic performance of the students of each department.

2.4 TEACHER QUALITY

2.4.1 Provide the following details and elaborate on strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

In our college sincere effort is made to find out the best available talent to be appointed as a teacher. The whole selection process follows the method as prescribed by the Government. To make the selection procedure transparent, applications are invited through open advertisement in daily news papers. Screening of applications is made on the basis of Government yardsticks. Then a selection committee is formed by the Governing Body (G.B.) consisting of President of G.B. as chairman, Secretary of G.B. as convener, Principal, one member of the staff representative to G.B., at least one member of G.B., H.O.D. of the concerned department and an external subject expert, as members of the committee. Performance in the interview and academic career are taken into consideration while selecting the best candidate for the vacant post. The appointment of the staff is further approved by the Government of Odisha.



Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent teachers:							
D.Sc./D.Litt			00	00	00	00	00
Ph.D.			03	00	09	08	20
M.Phil.			00	00	05	04	09
PG			01	00	06	08	15
Temporary teachers							
Ph.D.							
M.Phil.							
PG							
Part time teachers							
Ph.D.							
M.Phil.							
PG							

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics, etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

To cope with the growing demand of new programmes such as IT, the faculties of IT department (Self financing) are teaching according to the prescribed syllabus at UG level.

The outcome of this effort is:

- Enhancement of knowledge and skills of students in tune with recent updates and advancements in respective subjects/ fields
- Wider choice to students for better placements/higher studies in future

2.4.3 Providing details on staff development programme during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programmes



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ACADEMIC STAFF DEVELOPMENT PROGRAMMES	NUMBER OF FACULTY NOMINATED
REFRESHER COURSES	38
HRD PROGRAMMES	1
ORIENTATION PROGRAMMES	2
STAFF TRAINING CONDUCTED BY THE UNIVERSITY	-
STAFF TRAINING CONDUCTED BY OTHER INSTITUTIONS	4
SUMMER/WINTER SCHOOLS,WORKSHOPS, ETC	92

b) Faculty Training Programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning:

- ❖ Teaching Learning Methods/approaches
- ❖ Handling new curriculum
- ❖ Content/knowledge management
- ❖ Selection, Development and use of enrichment materials
- ❖ Assessment
- ❖ Cross-cutting issues
- ❖ Audio visual aids/multimedia
- ❖ OER's
- ❖ Teaching Learning material development, selection and use

The college has experienced and qualified staff to handle the new curriculum effectively. Some of our faculty members are members of Board of Studies in Utkal University and some autonomous colleges of the state. They play a vital role in framing the new curriculum. The HOD calls for meetings with the faculty members to brief and explain the new syllabus and devise methods to empower the teacher to handle the new syllabus.

Our faculties attend courses offered by the universities and other training institutions, state, national and international seminars, field visits which help largely to update their knowledge and skills. Further, they update their knowledge through internet and online study.

The college organizes seminars, workshops, disseminating knowledge in all the aspects of teaching learning process. Further, faculties are deputed as resource persons, subject experts and question setter, to present papers, conduct interviews.



The Annual Self Appraisal Report is one of the major yardsticks used for the assessment of the faculty. It gives a clear picture in terms of their in-depth knowledge and research aptitude.

Seminars and workshops are conducted where experts from different fields are invited to share and deliver their research experience. Programmes are held from time to time in the college to sensitize and generate awareness about HIV-AIDS, gender issues, women empowerment, save the girl child, road safety, health awareness and other burning issues. Our faculties are used to utilize audio visual techniques in teaching/seminars.

The college has a well-stocked library containing books and research journals of various subjects. Further, the college organizes seminars and conferences which help as a learning source for the faculty.

c) Percentage of Faculty

- ❖ Invited as resource persons in workshops/seminars/conference organized by external professional agencies- 4%
- ❖ Participated in external workshops/seminars/ conference recognized by National/International professional bodies- 90%
- ❖ Presented paper in workshops/ seminars / conference conducted or organized by professional agencies-30%

2.4.4 What policies/ systems are in place to recharge teachers? (For eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes, industrial engagement, etc.)

The college has played a very supportive role in motivating the teachers to recharge themselves by participating in orientation and refresher courses as well as in research activities, publishing and presenting research papers.

The policies of the management to train and recharge the faculty are as follows:

- Depute teachers for orientation, refresher and short-term training programmes.
- Motivate teachers to participate in training workshops for revised curricula and upgrade their skills
- Encourage teachers to participate in seminars and conferences to expand their knowledge base and domain related expertise
- Provide opportunities to teachers to learn new technologies and ICT especially in teaching-learning. This is possible through following measures:
- Assigning roles and responsibilities to Research Coordination Committee (RCC) to streamline research process.



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- Orient teachers to do research by making them aware of the funding agencies for research, help them in writing research proposals, process research proposals and submit them to the funding agencies.
- Ensure optimum utilization of funding obtained under research schemes and timely submission of utilization to the funding agency.
- Grant study/special leave for participating in research programmes and exchange programmes for sharing their expertise at Universities / Institutes.

2.4.5 Give the number of faculty who received awards/ recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/ achievement of the faculty.

Awards:

State Level	National Level	International Level
03	Nil	Nil

The college has a set of core values, which have been practised for the past several years. These core values help in nurturing idealism, academic excellence and commitment towards education amongst stakeholders.

Our Values

- Commitment to Teaching and Learning.
- Commitment to Excellence
- Respect for All
- Alliance with the wider Community
- Encouragement to Innovation, Experimentation and Creativity

2.4.6 Has the institution introduced evaluation of teachers by the students and external peers? If yes, how is the evaluation used for improving the quality of teaching-learning process?

The college has established a mechanism for taking feedback on teaching. Evaluation of teachers is done periodically by the feedback forms collected from students and verbal information collected from the Alumni. Also the quality of teaching, resources used, methods adopted for teaching in terms of teaching aids and models and course completion are presented by every teacher in the annual self appraisal report. Further the formation of IQAC as per the guide lines of UGC, enhances the feedback process, analyses the feedback and shares it with teachers to seek improvement in the teaching-learning process. The IQAC has external experts who share their expertise in this regard.



2.5 EVALUATION PROCESS AND REFORMS

2.5.1 *How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?*

- The schedule for evaluation is given in the Academic Calendar, displayed on the notice boards and also in the college website.
- Students are informed about the evaluation system at the beginning of the academic session during orientation programmes and at appropriate intervals.
- Students are also intimated about the portion of curriculum for the assessment/ examinations, nature and format of question paper.
- Students are provided with question banks, reference material/ books in the respective departments and library
- The schedule for examinations is conveyed to the teachers in advance through the “Academic Calendar” uploaded on the college website.

2.5.2 *What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?*

The major evaluation reforms initiated by the university are:

- Online submission of mark-foils to speed up result publication
- Evaluation is made centrally in different valuation centres to retain transparency.
- University Scheme of Valuation is implemented
- List of examiners and rules of examination are displayed online.
- The college provides air-conditioned valuation hall.

2.5.3 *How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?*

College makes every effort to effectively implement the evaluation reforms of the university. During evaluation process the mark foils bearing the roll numbers of the students are downloaded. Strict confidential measures are taken during uploading of the awarded marks.

2.5.4 *Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.*

Evaluations of the students are based on the formative assessment which is customized to suit the objective of the subject and summative assessment as prescribed by the University.



Formative Assessment:

The goal of formative assessment is to monitor students' learning to provide on-going feedback that can be used by instructors to improve their teaching and by students to improve their learning. Formative assessment of the students is done on the basis of the following parameters:

- i. Assignments
- ii. Presentation
- iii. Classroom interaction
- iv. Monthly assessment test
- v. General discussions
- vi. Seminars
- vii. Practical class

Summative Assessment:

The goal of summative assessment is to evaluate student learning at the end of an instructional unit by comparing it with a certain standard or benchmark. Summative assessments are often of high stakes, which means that they have a high point value. Such assessment takes place at the end of the academic session, which is conducted by the college. The university conducts a summative evaluation at the end of the session through the following:

- i. Written exams
- ii. Practical exams
- iii. Viva voce

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.

Internal assessment (Mid-Semester) is now a part of university UG curriculum. Also monthly assessment test and record of attendance is done for honours students of all departments. Project work of certain UG classes is assessed by the teachers of the respective departments.

2.5.6 What are the graduates attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?



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The college always keeps in mind certain desirable attributes while imparting teaching and ensuring effective learning. At the end of the process, a student is expected to be equipped with the following attributes/skills:

- Sound knowledge of the subject
- Basic practical skills for the work-sphere
- Good communication skills
- Life skills
- Responsible global citizen

To attain these attributes along with normal class room teaching and laboratory work, the institution conducts:

- Value added awareness through extra-mural lectures
- Self-defence training
- Other co-curricular activities

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

The institution has a mechanism for the redressal of grievances regarding evaluation in both college and university examination.

- **Evaluation in the college:** The students have free access to the subject teacher regarding marks awarded in the monthly assessments and pre-university examination. The teacher clarifies doubts regarding evaluation. Discrepancies, if any, are treated with seriousness and adequately rectified depending on the nature of the problem.
- **University examinations:** With regard to university examinations, there is a specific procedure to communicate redressal of grievances. Within 30 days of announcement of results, students can apply for re-addition. Whenever necessary, the Utkal University makes arrangements for issuing photocopies of their answer scripts to the students after publication of results.

2.6 STUDENT PERFORMANCE AND LEARNING OUTCOMES

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes

The vision and mission of the college reflects its learning outcomes and are communicated to the students as well as staffs in the following manner:

- The Students are made aware of these learning outcomes in the first interaction/orientation programmes where the Principal addresses all the students.



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- The teaching staff from all the departments of the college formulates learning outcomes for every academic year and these are communicated to the students at the beginning of each academic year.
- Graduate attributes for students are well defined in terms of communication skills, life skills, universal values and problem solving abilities.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the student's results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

A senior faculty member acts as the Academic Bursar, who along with few other faculty members supervises the academic activities. The students' attendance, performance in the monthly assessments is taken into consideration.

- A collective list of marks obtained by students in all monthly assessments is also displayed/made available to the students.
- The departments also prepare "subject wise" result sheets after the results are declared by the University.

Honours wise analysis of students' result during last four years of university examination.

YEAR	PHYSICS			
	APPEARED	PASSED	FIRST CLASS	RANK IN UNIVERSITY
2011-2012	28	25	20	4th
2012-2013	30	27	22	2nd
2013-2014	26	22	17	1st
2014-2015	26	19	16	1st
2015-2016	27	26	26	2nd
YEAR	CHEMISTRY			
	APPEARED	PASSED	FIRST CLASS	RANK IN UNIVERSITY
2011-2012	29	20	11	1st
2012-2013	28	26	25	3rd
2013-2014	27	21	17	2nd
2014-2015	30	29	26	2nd
2015-2016	31	30	27	1 st , 2 nd , 5th

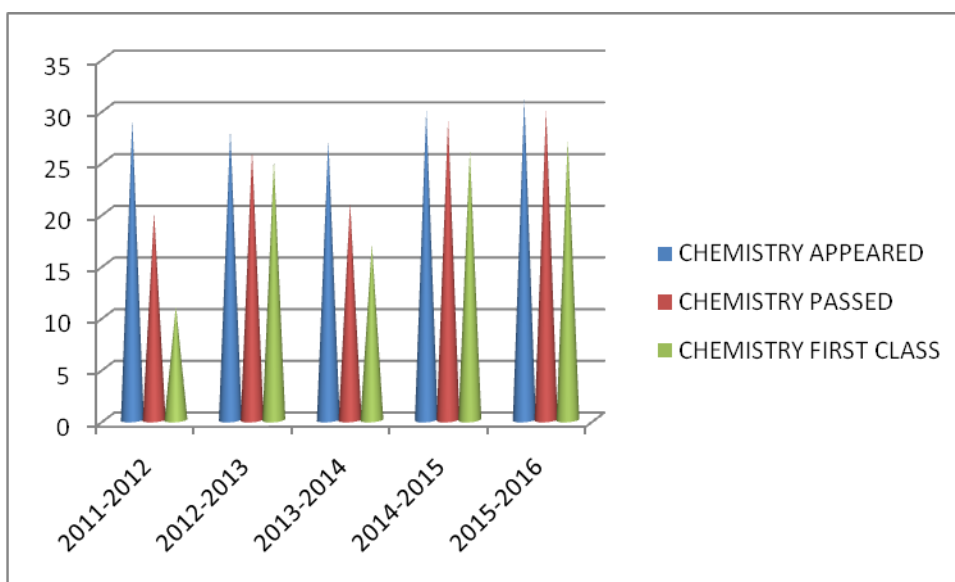
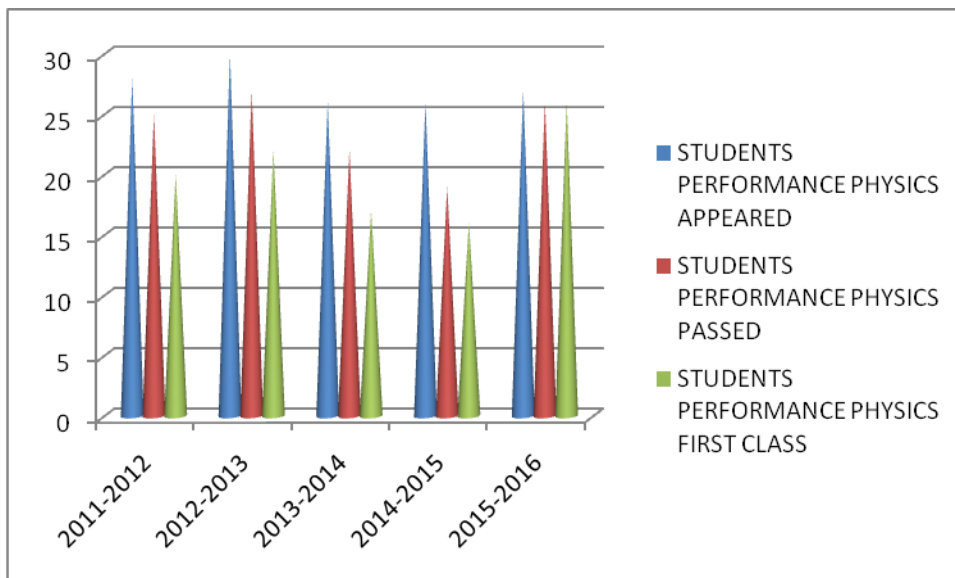


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YEAR	BOTANY			
	APPEARED	PASSED	FIRST CLASS	RANK IN UNIVERSITY
2011-2012	12	11	6	2nd
2012-2013	13	13	11	1st
2013-2014	16	15	10	2nd
2014-2015	15	14	14	3rd
2015-2016	16	16	15	
YEAR	ZOOLOGY			
	APPEARED	PASSED	FIRST CLASS	RANK IN UNIVERSITY
2011-2012	13	12	07	4th
2012-2013	13	11	09	3rd
2013-2014	12	10	08	2nd
2014-2015	10	07	06	1st
2015-2016	10	10	10	
YEAR	GEOLOGY			
	APPEARED	PASSED	FIRST CLASS	RANK IN UNIVERSITY
2011-2012	16	15	13	2nd
2012-2013	13	13	12	2nd
2013-2014	15	15	14	1st
2014-2015	15	15	12	1st
2015-2016	16	15	15	1st
YEAR	MATHEMATICS			
	APPEARED	PASSED	FIRST CLASS	RANK IN UNIVERSITY
2011-2012	22	11	03	3rd
2012-2013	19	14	05	3rd
2013-2014	21	13	09	5th
2014-2015	25	18	17	2nd
2015-2016	28	23	21	

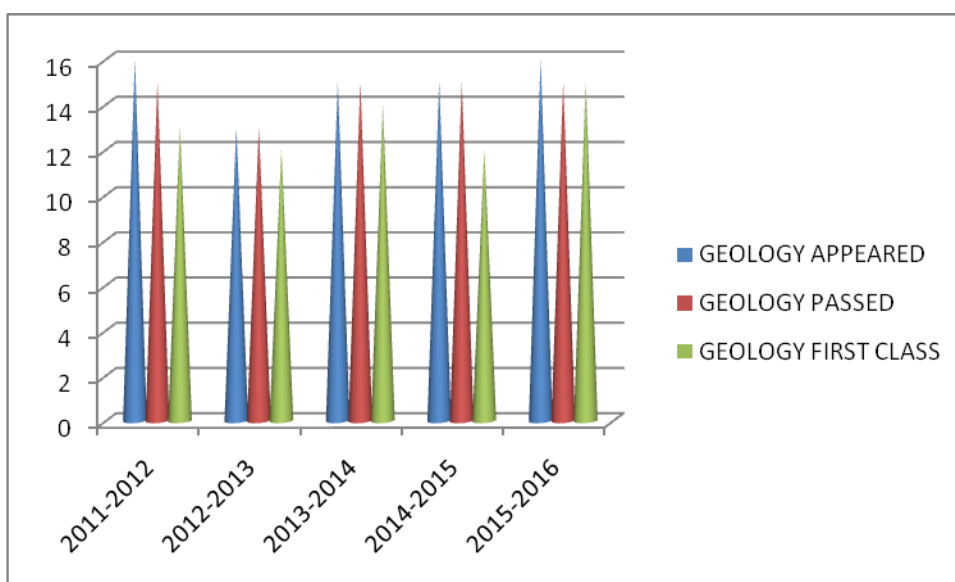
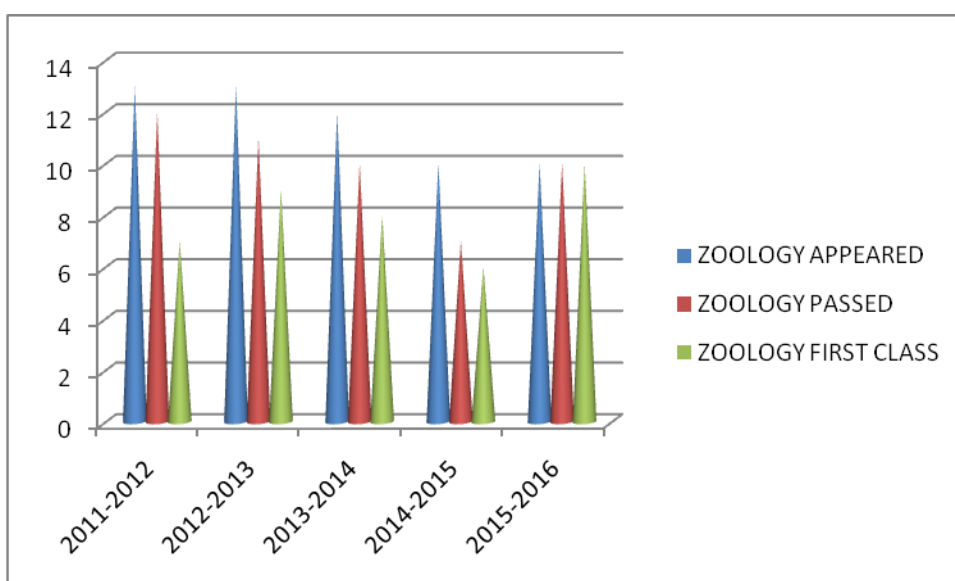
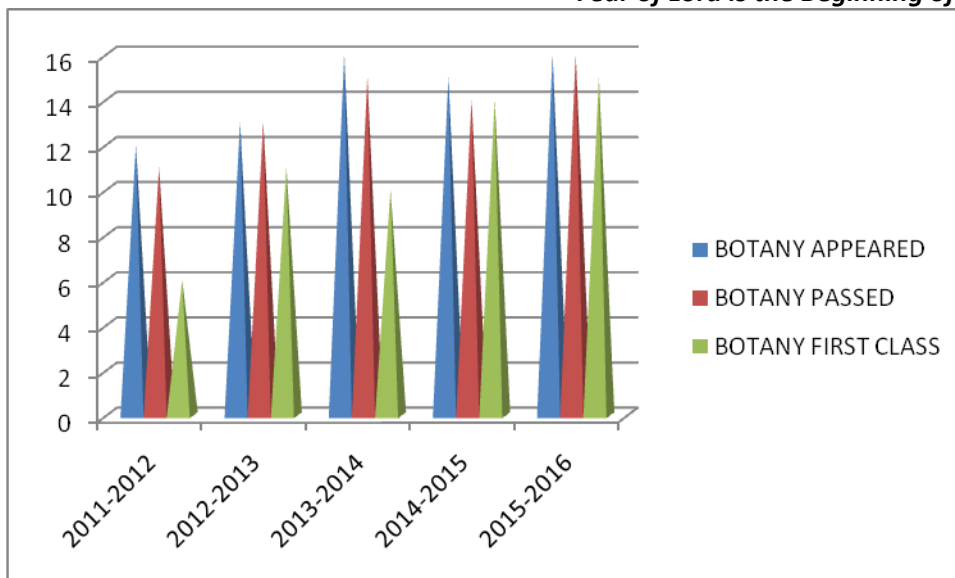


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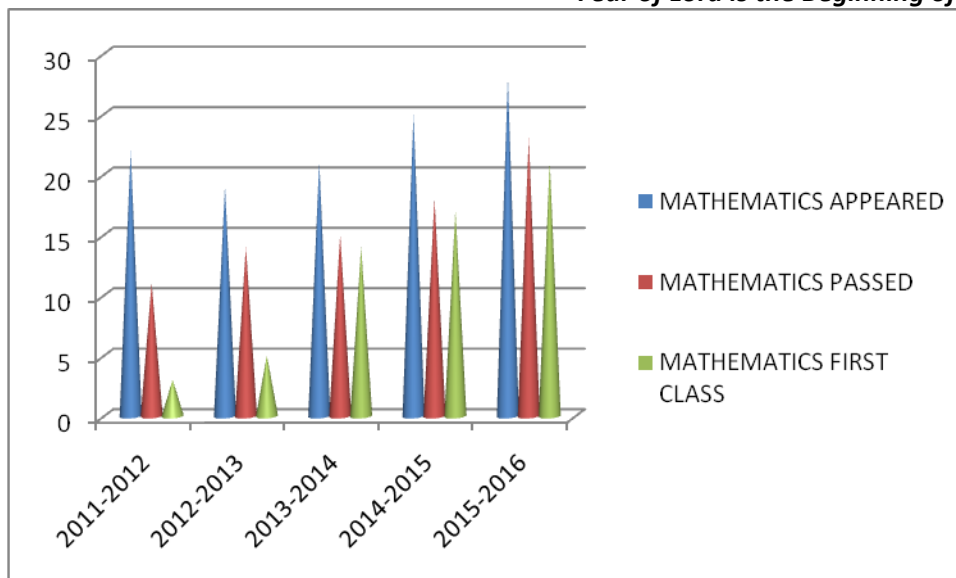


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2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The following programmes are used by all the departments to achieve intended learning outcomes:

TEACHING		LEARNING		ASSESSMENT	
STRATEGIES	STRUCTURE	STRATEGIES	STRUCTURE	STRATEGIES	STRUCTURE
Effective Communication	ICT Enabled	Understanding the subject	Charts, Models, Learn By Doing Lab (LBDL), Access to web and Library resources	Transparent Process	Established Mechanism as per University Guidelines.
Updation of Knowledge	Web Sources, Library Resources	Expression	Group discussion and presentations	Formative	Orals/ Viva Voce, Seminar Presentations, Group Discussion & Competitions (Essay/ Debate/ projects)
		Writing skills	Assignments	Summative	Written and Practical Examination

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The following initiatives are taken by the college to enhance social and economic relevance as well as to enhance student learning:



- The college has played an important role in propagating social awareness amongst students by networking with social organizations and helped the students to understand social problems. There is participation of students in campaigns on various programmes related to health, gender, sexual abuse and environmental issues. These types of joint ventures have helped the students in understanding the needs of the society in general and create awareness among students in particular.
- The Placement cell offers pre-placement and Placement assistance to students and prepares them to face interviews. The Cell invites entrepreneurs, who share their experiences with students and help them to understand the methods to be followed to become a successful entrepreneur.

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The college has the following mechanism to analyze the shortfalls in achieving the expected learning outcomes and suggest improvement measures.

- Preparation of subject wise analysis of results and mark lists showing comparative performance of students through monthly assessment
- This data helps in understanding the areas of academic weaknesses of the students.
- This is followed by counseling the students to seek improvement.
- Overall results help in making efforts to make the teaching methods more learner-oriented.
- In case of poor performance in a specific subject, the concerned teacher is asked to undertake remedial measures.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

Monitoring and ensuring the achievement of learning outcomes is done by undertaking the following measures:

- The Head of the institution along with the Academic Bursar monitors all the academic activities. Besides the HODs, all other faculty members keep a vigilant eye on the academic growth of the institution
- 75% minimum attendance is compulsory for every student
- Valued test papers are shown to the students with suggestions for improvement



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- Questions are discussed in the class and evaluated answer scripts are shown to the students so that they can analyze their own performance
- Performances of the students in the staff meetings are discussed and needful measures are taken there of.
- Progress of the student and other problems are discussed in the parent-teacher meet

2.6.7 Do the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples. Any other relevant information regarding teaching-learning and evaluation which the college would like to include.

Yes

Teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning. Monitoring the students' progress is an integral part of the functioning of the college. Subject wise analysis of results and mark lists showing comparative performance of students in the monthly assessment examinations are prepared. This data helps in understanding academic weaknesses of the student. The student is counseled to seek improvement.



CRITERION - III

**RESEARCH,
CONSULTANCY
AND
EXTENSION**



3.1 PROMOTION OF RESEARCH

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

Yes

The college has recognized Research Centres of BRNS, UGC, North Odisha University, Utkal University & Sambalpur University. The Departments recognized as Research Centres are Botany, Chemistry, Geology, Physics and Zoology. The updated library and well-equipped research laboratories of this institution are utilized by the research scholars & faculties to facilitate research.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes

The RCC consists of Principal as the Chairman, Vice-president of U.G.C. Cell as convener, Director IQAC and some senior faculty as members.

The college has a Research Coordination Committee (RCC) to monitor and address the issues of research in the college. The RCC looks into:

- Creating awareness about various funding agencies and their schemes
- Encouraging faculty to participate in research activities
- Organizing interactive sessions with scientists from national laboratories

Impact:-

1. One Major Research Project has been sanctioned by BRNS
2. Two Minor Research projects are completed by our faculty members, one is sanctioned whose work is going on. Recently four more Minor Research Projects have been sanctioned.
3. State level/ National level seminars have been planned to be organized as per the recommendations of the Research Coordination Committee.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

- *autonomy to the principal investigator*
- *timely availability or release of resources*
- *adequate infrastructure and human resource*



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- *time-off, reduced teaching load, special leave etc. to teachers*
- *support in terms of technology and information needs*
- *facilitate timely auditing and submission of utilization certificate to the funding authorities*
- *any other*

a) Autonomy to the principal investigator

The principal investigator of research project(s) funded by external funding agencies is empowered to implement the project. Freedom is given to the principal investigator to purchase equipment and instruments as per his/her needs.

b) Timely availability or release of resources

Resources are timely released by the authority to the principal investigator, after receiving the funds from the external agencies without any delay. The college also takes care to facilitate the special needs required for conducting the research work.

c) Adequate infrastructure and human resources

The college provides infrastructural assistance and other resources needed for the research.

d) Time-off, reduced teaching load, special leave etc. to teachers

- Special provisions for study leave for professional development or for undertaking research at National/ International institutes/ Universities.
- Duty leave is also sanctioned (subject to norms prescribed by State Government) to teachers in order to undertake field work and present their findings in seminars and conferences

e) Support in terms of technology and information needs

The Institute plays pivotal role in overall conduct of research activities in the college. The college has BSNL BROAD BAND of 256 kbps under National Mission Education Scheme for internet connectivity. All departments have adequate number of computers, which help the researchers to gain information and knowledge required in their respective areas of interest.

f) Facilitate timely auditing and submission of utilization certificate to the funding agencies.

Yes

Timely auditing and submission of utilization certificate to the funding agencies is done by the Institution.



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3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

Scientific temper, research culture and aptitude among the students are developed by organizing departmental seminars almost on weekly basis. Moreover, study tour, participation in projects and field study, workshops, training camps for teachers and students, sensitization programmes, extra-mural lectures etc. are organized regularly for updating their knowledge and skill. The science exhibition consisting of innovative scientific models and posters help in nurturing the scientific temper. This exhibition is kept open for school students as well.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Details of the faculty involvement in active research are indicated in the respective departmental profile.

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

The college has taken several initiatives to encourage research and research culture amongst the students and teachers. Some of the initiatives include organizing seminars and lecture series on recent trends in research as well as face to face interaction with scientists. Some of the seminars organized were based on the topics like:

Global Warming, Climate Change, Flora of Odisha, Solid Waste Management, Eco Tourism, Food Processing & Preservation, Environmental Studies & Disaster Management, Ozone Depletion, Wild Life Conservation, Recombinant DNA Technology & its Application, Importance of Medicinal Plants, Ethnobotany-The Future Aspect, Plant Tissue Culture, Photosynthesis, Biotechnology in Crop Management, Traditional Therapeutics in Modern Treatment, Ethno pharmacology, Probiotics and Prebiotics, Nanotechnology, Green Chemistry, Water Pollution Relating to Fluorosis and its Management, Non-Linear Optics, Optical fiber and Telecommunication, Semiconductor Laser and Optical Fibre Laser, Existing optical properties of Semiconductor Nano Material, Operation Research, Summability of a function etc.

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

Prioritized research areas are biochemistry, polymer science, environmental science, literature study, genetics, fluid dynamics and condensed matter physics. Our faculties have expertise in the areas.



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3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Eminent Scientists and Academicians are invited very often to visit the college and the departments, to interact with teachers and students by delivering talks on burning issues.

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Nil

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land).

The research findings of the faculty members are published in national/international journals. The faculties also share their achievements to the honours students in departmental seminars to facilitate Lab to Land communication.

3.2 RESOURCE MOBILIZATION FOR RESEARCH

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

The college does not have financial autonomy to earmark any fund for research.

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

No

3.2.3 What are the financial provisions made available to support student research projects by students?

No such financial support is available to support student research projects.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Inter-disciplinary researches with the faculty of Chemistry & Geology Department are being carried out.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The institution takes care for optimum use of various equipments for research work received from research grants of faculty members as well as from U.G.C. grant during different plan periods. The maintenance of the instrument is taken care of from the UGC grant received. The reprography section of the library renders needful assistance to



Fear of Lord is the Beginning of Wisdom

researchers on demand. Students/staffs refer to the journals and books or take copy of the research materials. The institution endeavors to provide electronic gadgets/internet facility to undertake research work.

3.2.6 *Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.*

No

3.2.7 *Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.*

Nature of the project	Duration (year: from-To)	Name of the project Investigator	Name of the funding agency	Total grant (in Lakh)		Total grant received till date
				sanctioned	received	
Minor (Completed)	1.5yrs (2012-14)	Dr. Aparna Dutta (PI) & Dr. Deepa Nag (Co-PI)	UGC	1.96	1.96	1.96
Minor (Completed)	1.5yrs (2011-13)	Mr. Animesh Daspatnaik.	UGC	1.758	1.758	1.758
Minor (Ongoing)	2yrs (2015-17)	Dr. Deepa Nag	UGC	3.15	2.625	2,625
Major/inter disciplinary (On Going)	2yrs (2015-17)	Dr. Debasis Acharya (PI) & Dr. Aparna Dutta (Co-PI)	BRNS (DAE)	24.46	18.25.95	18,25,950
Minor (On going)	2yrs (2016-18)	Dr. Debasis Acharya	UGC	2.5	1.95	1.95
Minor (On going)	2yrs (2016-18)	Amarnath Sahoo	UGC	1.65	1.12	1.12
Minor (On going)	2yrs (2016-18)	Dr. Pradip Kumar Das	UGC	1.9	1.5	1.5
Minor (On going)	2yrs (2016-18)	Sonali Dutta	UGC	2.1	1.3	1.3



3.3 RESEARCH FACILITIES

3.3.1 What are the research facilities available to the students and research scholars within the campus?

The college has well equipped laboratory in some departments to facilitate research activities. Also we have an updated central library with 22,769 books, along with seminar libraries attached to various departments. Project works and field surveys are done by Botany, Zoology & Geology departments. Some of our teachers and students use library facilities of nearby Colleges, Universities and National Institutes.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

Our college has one research coordination committee to look after the research activities. The following strategies are proposed to be adopted for upgrading and creating infrastructural facilities for research:

- i. Separate Research room for each department
- ii. Furnished Instrument Laboratory for inter-disciplinary research.
- iii. Automated library, reading room facility, provision of more research journals and periodicals
- iv. Wi-fi campus

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments / facilities created during the last four years.

No

However, the college has received grants from the UGC to carry out minor research activities by the faculty members under the MRP. BRNS has also sanctioned an amount of Rs24.46 lakh for major research project. No assistance from industries has been available during the last four years.

Instruments purchased from UGC grant to promote research are Water analyser, UV-VIS Spectrophotometer, pH – meter, Conductivity meter, Flame photometer, Digital balance, Single and Double distillation plant, Cold Centrifuge, Centrifuge, Autoclave, Incubator, Projection Microscope, Binocular Research Microscope, Glucometer, Haemocytometer etc.



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3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

A number of high quality research centers like Institute of Physics, IMMT, CRRI, NISER etc. along with Universities like Utkal university, KIIT, ITER, OUAT, CIPET, CIFA, Institute of Life Science, Ravenshaw University etc. are located at an approachable distance from our institution to facilitate research work.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

Besides central library, seminar library and internet facility is available in each department.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

The college has laboratories, computers and other equipments which can be utilized for teaching as well as research activities. These facilities are availed by the faculty members of our college and can be used by the research scholars from other institutions with due permission of the college authorities.

3.4 RESEARCH PUBLICATIONS AND AWARDS

3.4.1 Highlight the major research achievements of the staff and students in terms of:

- ***Patents obtained and filed (process and product)***
- ***Original research contributing to product improvement***
- ***Research studies or surveys benefiting the community or improving the services***
- ***Research inputs contributing to new initiatives and social development***
 - Patents obtained and filed – Nil
 - Original research contributing to product improvement – Nil
 - ***Research studies or surveys benefiting the community or improving the services –***
 1. Minor Research project (UGC) by Mr. Animesh Daspattnaik titled **“Heavy metal induced oxidative metabolism & genotoxicity in Alliumcepa L.”**
 2. Minor Research Project (UGC) by Dr. Aparna Dutta and Dr. Deepa Nag titled **“Study of ground and surface water in Coastal Odisha to combat Fluorosis”.**
 3. Minor Research Project (UGC) by Dr. Deepa Nag titled **“Characterization of water quality to study correlation between IQ of children and geochemical ions in four districts of Central Odisha”.**



4. Minor research Project (UGC) by Dr. Debasis Acharya titled” **Study on Lithoassembledges, Stratigraphy, Structure of rocks around Baghamari-Tarabola area, Khurdha district, Odisha, with special emphasis on thermal spring and their industrial application.”**

5. Minor Research Project (UGC) by Amarnath Sahoo titled “**Study of Biochemical/Microbial induces of water/soil sample of Mangroves eco system of Mahanadi river delta, Odisha, India**”.

5. Minor Research Project (UGC) by Sonali Dutta “**Hematological, Pedigree and Genetic Mutation Analysis of Sickle-B-Thalassemic patients of SCB Medical College: a case Study**”

6. Minor Research Project (UGC) by Dr. Pradip Kumar Das titled ” **Remote Sensing & Land Based studies for the Geo-environmental Appraisals of the Coastal Tracts of Balasore & Bhadrak Districts of Orissa, India.**”

Research inputs contributing to new initiatives and social development-

One of our faculty members Dr. Akash Sahu has initiated research in two frontiers for the first time.

1. Use of plasma torch in surface modification
2. Use of plasma focus in surface modification

Both the experimental research papers are published in International journals.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

No

3.4.3 Give details of publications by the faculty and students: Publication per faculty, Number of papers published by faculty and students in peer reviewed journals (national / international), Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.),

- ***Monographs***
- ***Chapter in Books***
- ***Books Edited***
- ***Books with ISBN/ISSN numbers with details of publishers***
- ***Citation Index***



- ***SNIP***
- ***SJR***
- ***Impact factor***
- ***h-index***

NAME OF THE DEPARTMENT	NO OF PAPER PUBLISHED IN JOURNALS HAVING ISBN/ISSN NUMNER	NO. OF BOOKS PUBLISHED
BOTANY	3	1
CHEMISTRY	50	-
ENGLISH	-	-
GEOLOGY	16	-
HINDI	12	-
ODIA	-	-
PHYSICS	46	01
MATHEMATICS	5	-
ZOOLOGY	19	03

Publications of individual faculty members are supplemented in the respective departmental profile.

3.4.4 Provide details (if any) of:

- *research awards received by the faculty*
- *recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally*
- *incentives given to faculty for receiving state, national and international recognitions for research contributions.*
- Research awards – Nil
- Recognition received by faculty are reflected in individual profile of the faculty members
- There is provision for incentives to faculty after being awarded Ph.D. degree by our Institution



3.5 CONSULTANCY

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The college has bridged the gap between theory and practice, by establishing Career Counseling Cell as a part of quality improvement strategy. This has evolved as a platform for establishing linkages with the industry through increased interactions with industry personnel. The cell plans for annual activities and implements them as per the availability of Industry experts. Many activities like interactive sessions, panel discussions and guest lectures, meetings to inform the students about the possible job opportunities available in various sectors and management institutes have been conducted by this cell.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The management of the college has an open policy for faculties to promote consultancy.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The faculties are encouraged to provide consultancy.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The institution renders free social as well as humanitarian services without any scope of generating revenue.

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

No income is generated through consultancy.

3.6 EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY (ISR)

3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The students and staff members build up institution-neighborhood-community network by participating in social activities such as plantation, blood donation camp, HIV/AIDS awareness programmes, hence contributing in promotion of good citizenship.

The important activities undertaken by the college are as follows:

- i. Blood donation camp with an average of 53 units of blood collected per year



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- ii. Disaster Management Training Programme
- iii. Plantation Programmes on the occasion of 'Van Mahotsav Week' from 1st to 7th July every year.
- iv. Literacy awareness in slum areas by NSS volunteers
- v. Rally for road safety week to create public awareness every year from 11th Jan to 17th Jan
- vi. Distribution of clothes, food packets, etc. in orphanage by NSS and Alumni on the Foundation Day
- vii. Cleaning of college campus on account of the Swachh Bharat Abhiyan
- viii. Health check-up camp and first aid camp by alumni
- ix. Regular donation and service to orphanage rendered by the alumni members

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

Creating awareness about one's rights and duties, working to uphold the human rights of the vulnerable sections of the society, protecting the environment, instilling patriotism are ways in which we promote citizenship education activities like observation of Human Rights Day, celebrating Indian democracy, creating a zero waste model on campus, identifying children out of school and encouraging them to attend school are pursued in our institute. To promote students' involvement in various social movements / activities, a number of societies/ committees have been operated / formed by the institution under the guidance of faculty members. They are as follows:

- i. National Service Scheme (NSS)
- ii. Youth Red Cross (YRC)
- iii. National Cadet Corps (NCC)
- iv. Social Service Guild (SSG)
- v. Day Scholar Association (DSA)
- vi. Self-Defence Training Programme for Girls (SDTP)

These above-mentioned bodies enroll, monitor, guide and advise the students for various activities throughout the year. Different functions are celebrated and social activities are conducted on the days related to the society under notification/ instruction of the college authority.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The institution regularly solicits the perception on the overall performance and quality of the institution through the process of feedback from parent-teacher interaction, parent-



Fear of Lord is the Beginning of Wisdom

teacher meetings, Alumni Association, Governing Body meeting, Students' Advisory Council, Students' Grievance Redressal Cell, Anti-Ragging Cell and Internal Quality Assurance Cell, etc.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The list of extension and outreach programmes is planned well in advance for each academic session. The institution is aware of its social responsibilities for which the faculty members and the students work together tirelessly for social, cultural and other related issues for a brighter future.

Budgetary details for extension and outreach programmes per session are given below:

Programme	2013-2014	2014-2015	2015-2016	2016-2017
YRC	10,000	12,000	12,000	12,000
SSG	10,000	12,000	12,000	14,400
NCC	2,500	2,500	2,500	2,640
SDTP	NA	15,750	17,500	17,500
DSA	15,000	15,000	15,000	18,000
NSS	8,600	8,600	8,600	8,600

The institution undertakes various programmes every year by utilizing the amount earmarked for each head. These initiatives have positive impact shaping the attitudes and temperament of the students towards the society. As a result, these programmes usher the students into the right path in building the future of the society.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?

For all round development of students, the extension activities like community development, health awareness and environmental awareness are undertaken by NSS, NCC & YRC. At the beginning of each academic year, the Programme Officer(s) of NSS, YRC unit and Army unit of NCC brief the students about the aims and objectives of their activities and subsequently students are enrolled for these units. Academic and career benefits are also discussed with the students who wish to participate in these activities. Prizes and certificates are awarded to outstanding students for their extension work. Teachers who lead and guide such activities are also accorded with due recognition.



Fear of Lord is the Beginning of Wisdom

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

To ensure social justice to the under-privileged and backward sections of the society, the college has undertaken certain programmes, by NSS volunteers, such as:

- Adopted slum area at Buxi Bazar (Patapol & Pension Lane) , Cuttack
- Literacy Drive in the slums situated near Patapol of Cuttack town

A survey has been made to know the literacy rate of the girl child and the hindrances to reach the goal

- For development and empowerment of students from underprivileged and vulnerable sections of the society, priority is given in special classes, moral and material support to the ailing and needy students by the faculty and peers
- Road safety awareness programme at Buxibazar, Cuttack
- HIV/AIDS awareness programme at Patapol, Cuttack.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

Social outreach is an integral part of college educational programme which inculcates a sense of social responsibility amongst students. These programmes engage students in meaningful social service that meets community needs. The college takes several steps towards making class room learning more effective, enduring and meaningful. Working with civil society helps link class room learning to the real world outside.

- Students also develop several skills like organizational skills—from planning to execution to evaluation; interpersonal skills—team work, cooperation; communication skills—oral, written, report writing and others like poster exhibition
- While undertaking different extension activities, the students are highly benefitted by learning the technique of data collection during field study and collection of specimen by the students for practical in laboratories

It has developed the leadership quality with balanced outlook of students and enhanced co-operative spirit in them. As a result the spirit of generosity, humanism and sympathy is also generated. The communicative skills increase their ability to ponder over issues diametrically and solve them easily.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?



Fear of Lord is the Beginning of Wisdom

The college has an Alumni Body for its reach-out activities. Some members of the Alumni Body have visited the areas, where extension activities are conducted and persuade the local inhabitants to participate in the activities to get benefits out of the same.

- Regular donation and service to orphanage rendered by the alumni members
- Health check-up camp and first aid camp by alumni
- Distribution of clothes, food packets, etc. in an orphanage by NSS and Alumni on the Foundation Day
- Students Rally for Observation of Road Safety Week to create public awareness every year 11th Jan to 17th Jan.
- Literacy awareness in slum areas by NSS volunteers
- Plantation Programmes on the occasion of ‘**Van Mahotsav Week**’ from 1st to 7th July every year

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

Constructive relationship has been forged with local colleges of the city to carry out certain outreach programmes. In collaboration with these institutions, road march against reckless driving, Save Girl Child, HIV/AIDS awareness programmes and assisting the local administration in the maintenance of discipline and traffic arrangement in Baliyatra (a grand festival to commemorate the naval business history of Odisha with an out-turn of more than 5 Lakh people daily for seven days) etc. are being conducted.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Being exclusively a science college, students of the college actively participate in different extension activities.

<u>AWARDS AND RECOGNITION</u>	<u>NAME OF THE STUDENTS</u>
Best Cadet Award, CATC, Dalijoda	Sabyasachi Padhiary
1 st Prize In Debate Competition , CATC, Dalijoda	Somen Chakarbarty
1 st Prize In Essay Competition , CATC,Walmi	Sabyasachi Padhiary

3.7 COLLABORATION

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.



Faculties utilize the libraries and laboratories of nearby institutes for their research activities. They participate in national/international seminars and present their research papers and publish their research findings in different journals.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The experience gained through interaction and feedback from academic, research and outreach activities helped in identifying the new emerging and job oriented areas, which could be included while updating the curriculum.

Joint research programmes with research institutes has helped the faculty and students in researching diverse areas. Students and faculty are able to access sophisticated equipments and on-line journals.

The collaborations with local bodies, NGOs and other institutes have helped us in identifying our strengths in various areas. These are instrumental in enhancing competency and expertise in faculty and students.

Joint research publications with universities and research institutions have enhanced the academic standard of faculty. This has resulted in a wider academic recognition to the college.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

- ☐ Local Area Development (LAD) fund of MLA and MP have been utilized for infrastructural development of the institution
- ☐ Memorial prizes have been instituted by individual donors for academic excellence of the students
- 1. Bandana Chowdhury Memorial Award highest mark in Physics Honours in + 2nd University Examination
- 2. K.B.Shankar Memorial Award highest mark in aggregate in + 2nd University Examination
- 3. N.B. Banerjee Memorial Award highest mark in aggregate in + 3 3rd University Examination
- 4. Subhankar Banerjee Memorial Award Highest mark in Chem. Honours in +3 3rd University examination



3.7.4 *Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.*

UGC sponsored national seminar on CHEMISTRY OF ORGANOMETALLICS AND ITS APPLICATION TO SOCIETY and 15th Regional conference of Odisha Chemical Society was organized at Salipur College, Salipur in collaboration with our institution on 15th September 2013. Also, all the Honours Departments regularly organize seminars by inviting eminent scientist/academicians, the details of which are given in the respective departmental profiles.

3.7.5 *How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -*

- a) *Curriculum development/enrichment***
- b) *Internship/ On-the-job training***
- c) *Summer placement***
- d) *Faculty exchange and professional development***
- e) *Research***
- f) *Consultancy***
- g) *Extension***
- h) *Publication***
- i) *Student Placement***
- j) *Twinning programmes***
- k) *Introduction of new courses***
- l) *Student exchange***
- m) *Any other***



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The college has established collaborations with Universities like Utkal University, KIIT, ITER, Ravenshaw University & National institutes like Institute of Physics, IMMT, CRRI, NISER etc, for academic and research exchange.

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

The college organizes programmes to facilitate interactions with academicians/scientists and experts from the industry in formal as well as informal ways.



CRITERION- IV

INFRASTRUCTURE

AND

LEARNING

RESOURCES



4.1 PHYSICAL FACILITIES

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

- For the creation and enhancement of infrastructure that facilitates effective teaching and learning, Management of our institution plays the key role to provide necessary financial assistance.
- We also depend on UGC grants for construction of classrooms, buildings, hostels, laboratory equipments, etc.
- The local MLA and MP also have contributed from their Local Area Development (LAD) funds for the infrastructural development of the institution.

4.1.2 Detail the facilities available for:

- a) *Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, animal house, specialized facilities and equipment for teaching, learning and research etc.*
- b) *Extra-curricular activities–sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.*

Curricular Activities

- ☐ There are seminar halls and departmental lecture theatres in the departments of Physics, Chemistry, Botany, Zoology, Mathematics, and Geology.
- ☐ Apart from seminar rooms and halls, there are laboratories in the department of Physics, Chemistry, Botany, Zoology, Geology and Mathematics.
- ☐ There is a botanical garden inside the college premises.
- ☐ Electronic gadgets like laptop, LCD projectors, document camera projector, electronic board and digital writing pads are used in special teaching-learning process besides the blackboard method of teaching.

Co-curricular and Extra Curricular Activities

- ☐ The college boasts of one playground spreading over an area of approximately 1.65 acres inside the college premises for outdoor games like football, Sepak takraw, cricket, badminton and also for organizing the annual sports of the college and inter-college, university level tournaments.
- ☐ There are facilities for playing indoor games like chess, backgammon and carom.
- ☐ The trained PET is taking care of the students to groom them as good sports



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persons. With his able guidance, our students bring laurels to the college.

- ☐ The college organizes a variety of co-curricular and extra-curricular activities catering to the different creative needs of the students. Activities of athletic society, dramatic society, Science Society and college union are conducted every year.
- ☐ Other associations and societies of the college such as NCC, NSS, Youth Red Cross and Self-defense training unit organize different programmes throughout the year to develop positive attitude towards the society.
- ☐ There is an open stage inside the college campus and an auditorium for organizing various cultural activities.
- ☐ The institution also has an English Language Laboratory, for developing and enhancing the communicative skills and public speaking ability of the students.
- ☐ The college also organizes Sensitization programmes, Leadership programmes, Disaster-Management Training programmes, Health Check-up camps and Blood Donation camps from time to time.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

To keep pace with the changing environment, infrastructure is modified from time to time. The infrastructure is utilized to its fullest extent for achieving academic growth. The facilities developed during the last four years are:

- ☐ A new one storied academic building, which accommodates some departments, Examination Cell and Class Room
- ☐ Smart class room and LCD projector
- ☐ IT lab to facilitate information technology training
- ☐ Gymnasium to facilitate physical growth and fitness
- ☐ Two common rooms separately for the boy and girl students are renovated to develop hobbies and meaningful leisure time activities
- ☐ Renovation of Hall for conferences, meetings and other cultural purposes
- ☐ ***English Language Laboratory: 01***

Expenditure of Rs.14, 50,000 approximately has been incurred towards infrastructural development during the last four years.



INFRASTRUCTURAL FACILITIES IN DETAIL

1. **BOTANY:** (First Floor)
 - i. HOD Room
 - ii. Staff room
 - iii. Junior laboratory
 - iv. Senior laboratory
 - v. Department store
 - vi. Botanical garden
 - vii. Research Laboratory
2. **CHEMISTRY:** (Ground Floor)
 - i. HOD room
 - ii. Staff room
 - iii. Chemistry Lecture Room-1
 - iv. Chemistry Lecture Room-2
 - v. Junior laboratory
 - vi. Senior laboratory
 - vii. Preparation room (adjacent to junior Laboratory)
 - viii. Preparation room (adjacent to senior Laboratory)
 - ix. Department store room
 - x. Research room
5. **GEOLOGY:** (First Floor)
 - i. HOD cum staff Room
 - ii. Smart Class Room
 - iii. Laboratory
6. **MATHEMATICS:** (Second Floor)
 - i. HOD cum staff room
7. **PHYSICS:** (First Floor)
 - i. HOD Room
 - ii. Department staff room
 - ii. Physics Lecture Room
 - iii. Physics Honours Room



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- iv. Dark Room(Optics Laboratory)
- v. Computer Laboratory
- vi. Digital laboratory
- vii. Research Room
- viii. Junior laboratory
- ix. Senior laboratory
- x. Store room

15. ZOOLOGY: (Ground Floor)

- i. HOD Room
- ii. Department staff room
- iii. Store room
- iv. Junior laboratory
- v. Senior laboratory

16. Examination Cell-01

17. ICT-01

18. Gymnasium: 01

19. Students' Union room: 01

20. Staff Common Room: 01

21. NSS office: 01

22. NCC office: 01

23. Students' Common Room: 02 (One Each for Boys and Girls)

24. College Canteen: 01

25. Lecture Gallery: 01

26. ICT/English Language Laboratory: 01

27. Hall: 01

28. YRC Office: 01

Co-curricular Facilities:

- 1. Open stage/ open air *pandal* for plays and dramatic activities: 01
- 2. Sports field for practice and athletic meet
- 3. Hall is used to conduct various cultural and dramatic activities and science exhibitions
- 4. Seminars/ workshops/ conferences are held in Hall/ seminar rooms/ Lecture Theatre.



4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The institution takes special care in making arrangements of classes for the physically disabled students on the ground floor, especially front row seating arrangement, comfortable furniture, attendant facility, etc. Separate seating arrangement during examinations is also done and the visually impaired students are provided with scribes to appear in the exams. Ramp is constructed at the entrance for easy entry of Wheel Chair for Physically Challenged Students.

4.1.5 Give details on the residential facility and various provisions available within them:

- ☐ **Hostel Facility – Accommodation available**
- ☐ **Recreational facilities, gymnasium, yoga center, etc.**
- ☐ **Computer facility including access to internet in hostel**
- ☐ **Facilities for medical emergencies**
- ☐ **Library facility in the hostels**
- ☐ **Internet and Wi-Fi facility**
- ☐ **Recreational facility-common room with audio-visual equipments**
- ☐ **Available residential facility for the staff and occupancy**
- ☐ **Constant supply of safe drinking water**
- ☐ **Security**
 - a. Hostels: Under Construction
 - b. Recreational facilities, gymnasium, yoga : Available
 - c. Computer facility including access to internet in hostel : NA
 - d. Facilities for medical emergencies : First-aid facilities are available
 - e. Library facility in the hostels : NA
 - f. Internet and Wi-Fi facility : Internet facility available
 - g. Recreational facility-common room with audio-visual equipments : Available
 - h. Available residential facility for the staff and occupancy: Available for night-watchman.
 - i. Constant supply of safe drinking water : Provision for the constant supply of RO purified safe drinking water
 - j. Security : 24 X 7 Security with certified security agency is available & the college is under strict CCTV surveillance



4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

Free health check-up camp, HIV/AIDS awareness camp, blood donation camp are organized on a regular basis on the campus and off the campus with the help of NSS and YRC wing.

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

The institute has:

- ☐ Space for special units like IQAC, RTI Cell, Grievance Redressal unit, Women's Cell, Career Counselling Cell is available.
- ☐ Well furnished Canteen with hygienic food is available.
- ☐ A staff common room, which is provided with a television, refrigerator, chess and newspaper. Apart from this, each department has its own staff room provided with sitting arrangements, cupboards to keep books and other documents as well as computers and laptops
- ☐ One girls' common rooms and one boys' common room, where facilities for chess, carom and other indoor games are provided.
- ☐ Provision for the constant supply of RO purified safe drinking water

4.2 LIBRARY AS A LEARNING RESOURCE

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes

The Library Advisory Committee consists of the Principal as President, One Senior Teacher as Vice President, Librarian and some other faculty as members. The committee has taken the following initiatives:-

1. The library is fully automated with reprographic facilities.
2. The college library has separate reading rooms for students and staff.
3. Question bank and syllabus are provided on demand.
4. New arrivals are displayed on the notice board.
5. A complaint-cum-suggestion box is installed.
6. Newspaper clippings are displayed to create awareness among the students.



4.2.2 Provide details of the following:

- ☐ **Total area of the library (in Sq. Mts.)**
- ☐ **Total seating capacity**
- ☐ **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
- ☐ **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
- ☐ **Total area of the library – 600 sq. Mts.**
- ☐ **Total seating capacity – 50**
- ☐ **Working hours –**
 - ☐ 9am to 5pm on all working days
 - ☐ 9am to 1pm on holidays and vacations
 - ☐ 9am to 5pm during examination days
- ☐ **Relaxed reading room measuring 20 sq.mts.**

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Library Holdings	Year – 1		Year – 2		Year – 3		Year -4	
	2013-14		2014-15		2015-16		2016-2017	
	Number	Total Cost (Rs)	Number	Total Cost (Rs)	Number	Total Cost (Rs)	Number	Total Cost (Rs)
Text books/ Reference Books	387	70,000	297	79,966	533	1,96,000	214	76,000
Journals/Periodicals	14	12,286	14	12,670	11	11,283	11	-
e-resources	-	-	-	-	-	-	-	-
Any other (News Paper)	7	7,402	7	11,219	7	14,876	6	-

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- ☐ **OPAC**
- ☐ **Electronic Resource Management package for e-journals**
- ☐ **Federated searching tools to search articles in multiple databases**



- ☐ *Library Website*
- ☐ *In-house/remote access to e-publications*
- ☐ *Library automation*
- ☐ *Total number of computers for public access*
- ☐ *Total numbers of printers for public access*
- ☐ *Internet band width/ speed*
- ☐ *Institutional Repository*
- ☐ *Content management system for e-learning*
- ☐ *Participation in Resource sharing networks/consortia (like Inflibnet)*
 - OPAC – Nil
 - Electronic Resource Management package for e-journals – Nil
 - Federated searching tools to search articles in multiple databases – Nil
 - Library Website – library is disseminated through college website
 - In-house/remote access to e-publications – Nil
 - Library automation – On progress
 - Total number of computers for public access – 05
 - Total numbers of printers for public access – 01
 - Internet band width/ speed – 256kbps
 - Institutional Repository – Nil
 - Content management system for e-learning – Nil
 - Participation in Resource sharing networks/consortia (like Inflibnet) – Nil

4.2.5 Provide details on the following items:

- ☐ *Average number of walk-ins*
- ☐ *Average number of books issued/returned*
- ☐ *Ratio of library books to students enrolled*
- ☐ *Average number of books added during last three years*
- ☐ *Average number of login to OPAC*
- ☐ *Average number of login to e-resources*
- ☐ *Average number of e-resources downloaded/printed*
- ☐ *Number of information literacy trainings organized*



- ☐ ***Details of “weeding out” of books and other materials***
- ☐ Average number of walk-ins: 50
- ☐ Average number of books issued/returned: 30-40
- ☐ Ratio of library books to students enrolled: 22000 books : 432 students
- ☐ Average number of books added during last three years: 350
- ☐ Average number of login to OPAC: Nil
- ☐ Average number of login to e-resources: Nil
- ☐ Average number of e-resources downloaded/printed: Nil
- ☐ Number of information literacy trainings organized: Nil
- ☐ Details of “weeding out” of books and other materials: Nil

4.2.6 Give details of the specialized services provided by the library:

- ☐ ***Manuscripts***
- ☐ ***Reference***
- ☐ ***Reprography***
- ☐ ***ILL (Inter Library Loan Service)***
- ☐ ***Information deployment and notification (Information Deployment and Notification)***
- ☐ ***Download***
- ☐ ***Printing***
- ☐ ***Reading list/ Bibliography compilation***
- ☐ ***In-house/remote access to e-resources***
- ☐ ***User Orientation and awareness***
- ☐ ***Assistance in searching Databases***
- ☐ ***INFLIBNET/IUC facilities***
 - Manuscripts – Nil
 - Reference – 5551 books
 - Reprography – Facility is provided
 - ILL (Inter Library Loan Service) – YES
 - Information deployment and notification (Information Deployment and Notification) – Nil
 - Download – Nil



- Printing – Yes
- Reading list/ Bibliography compilation – Yes
- In-house/remote access to e-resources – Nil
- User Orientation and awareness – Nil
- Assistance in searching Databases – Nil
- INFLIBNET/IUC facilities – in process

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

Guidance is given to the students who want to participate in competitive examination, quiz, essay and debate competitions. The library takes the help of newspaper clippings service to make the students aware of the happenings around them and current affairs. The new arrival display service helps the staff and students to know the books added in a particular subject. The librarian and other supporting staff help the students and teachers in getting their books from the library.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

Wheelchair and ramp facility is provided to the physically challenged persons. The library staffs extend complete support and help to them in finding books and journals.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

Yes

There is a feedback system to improve the functioning of the library. Feedback is collected through:

1. Suggestion-cum-complaint box
2. Feedback gathered from faculty and students are analyzed and discussed in the library committee meeting.
3. Effective decisions are implemented to improve the services of library.

IT INFRASTRUCTURE:

4.3.1 Give details on the computing facility available (hardware and software) at the institution:

- ***Number of computers with Configuration(Provide actual number with exact configuration of each available system)***



- ☐ *Computer-student ratio*
- ☐ *Stand alone facility*
- ☐ *LAN facility*
- ☐ *Wi-Fi facility*
- ☐ *Licensed software*
- ☐ *Number of nodes/ computers with Internet facility*
- ☐ *Any other*
- ☐ Number of computers with Configuration - 38
- ☐ Computer-student ratio – 1:2 (for Mathematics Honours)
- ☐ Stand alone facility – Generator facility
- ☐ LAN facility – LAN facility is available at office
- ☐ Wi-Fi facility – Applied for the same
- ☐ Licensed software – e-admission software, HRMS, IOTMS, IFMS, e-Bhabishyanidhi, NPS, and monthly salary bill provided by the government
- ☐ Number of nodes/ computers with Internet facility – Internet facility is available in office, e-admission room and department
- ☐ Any other – Nil

4.3.2 *Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?*

All the departments of the institution are provided with desktops for the use of the faculty/student. Besides this, there are desktops in examination section, college office, accounts section, e-admission room, library etc.

Internet facility is provided to the departments individually.

4.3.3 *What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?*

A proposal is sent to the State Government for turning the institute into a wi-fi campus. Computers are also provided to each department and additional computers/ laptops are to be provided to the departments already having the same. Teachers are trained in ICT. On the whole, the institute plans to be a technology oriented hub in the next few years.

4.3.4 *Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years).*



Budget Provision for computer:

2012-13	Rs. 1,10,000/-
2013-14	Rs. 1,00,000/-
2014-15	Rs. 1,50,000/-
2015-16	Rs. 1,50,000/-
2016-17	Rs. 2,50,000/-

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

The institution facilitates extensive use of ICT resources with the use of computers, video teaching with LCD projectors, interactive board etc. The students are encouraged to present their seminar papers, project work through power point presentations, uninterrupted power supply facility (Generator) is available in the college.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

“Learning to Be” is the motto of education today. Our institution understands that the role of a teacher is that of a facilitator. The teaching-learning process has to be learner-centric. Hence, the teacher has to be knowledgeable enough to handle all queries of his/ her students. The faculty members and the students are encouraged to use IT enabled teaching-learning process. The college already has an IT department. Furthermore, it also motivates its staff to undergo e-training programme.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

No.

4.4 MAINTENANCE OF CAMPUS FACILITIES

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?



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Head wise	2012-13	2013-14	2014-15	2015-16	2016-17
Building	2,50,000	-	-	1,00,000	-
Furniture	3,00,000	1,00,000	-	3,00,000	2,00,000
Equipment	1,50,000	3,00,000	4,00,000	4,00,000	5,30,000
Computer	1,10,000	1,00,000	1,50,000	1,50,000	2,50,000

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

The college itself maintains the record for the upkeep of the infrastructure and items of equipment.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

The equipment/instruments are purchased after getting due approval from the higher authority by comparing the quality, rate structure, warranty period, customer service and quotations submitted by different firms at the time of purchase. Besides, annual stock verification is done.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

To eradicate voltage fluctuation, the institution has been provided with 40Kilowatt generator to be used on demand. The college has its own deep bore-well fitted with a sub-mergible pump for non-stop supply of water. Departments are supplied with water purifier systems. Also water purifier-cum-cooler systems are placed on college corridor to provide safe drinking water to all. Some departments are provided funding for the maintenance of sensitive equipment/ instruments.



CRITERION -V

STUDENT

SUPPORT

AND

PROGRESSION



5.1 STUDENT MENTORING AND SUPPORT

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes

The institution publishes annually its prospectus, college calendar and academic calendar indicating brief information about the college, structure of college management, admission procedure, eligibility criteria, rules regarding attendance and discipline, subject combinations offered in new academic programmes introduced, scholarships available from various state government agencies, prizes and endowments offered by the college, notice for "Zero Tolerance" against ragging, details about the Committee for Prevention of Sexual Harassment, library facilities, examinations & vacation/holiday schedule, games and cultural activities, rules of college election and students' executive body, officers in charge of various curricular and co-curricular activities, N.C.C, N.S.S, Red Cross, Self Defence Training, RTI Cell etc. and last but not the least, over all guidelines for students.

5.1.2 Specify the type, number and amount of institutional scholarships/freeships given to the students during the last four years whether the financial aid was available and disbursed on time?

In the recent years scholarships / free-ships are disbursed to the students directly by the government through online process.

YEAR	STATE GOVT				MINORITY	OTHERS	TOTAL
	GEN	SC	ST	OBC / SEBC			
2013-14	28	19	04	26	13	-	90
2014-15	14	18	02	30	13	-	77
2015-16	24	22	05	33	11	-	95
2016-17	54	07	02	09	05	01	78

These are approximate figures, as scholarship applications are centrally processed by the Department of Higher Education.



5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

YEAR	PERCENTAGE OF STUDENTS RECEIVING SCHOLARSHIP/FINANCIAL ASSISTANCE
2013-14	21
2014-15	18
2015-16	22
2016-17	18

5.1.4 What are the specific support services/ facilities available for:

- ☐ *Students from SC/ST, OBC and economically weaker sections*
 - ☐ *Students with physical disabilities*
 - ☐ *Overseas students*
 - ☐ *Students to participate in various competitions – national and international*
 - ☐ *Medical assistance to students: health centre, health insurance, etc.*
 - ☐ *Organizing coaching classes for competitive exams*
 - ☐ *Skill development (Spoken English, computer literacy, etc.)*
 - ☐ *Support for ‘slow learners’*
 - ☐ *Exposure of students to other institution of higher learning/ corporate/ business house, etc.*
 - ☐ *Publication of student magazines*
- The students from SC/ST, OBC and economically weaker sections are given free-ships/ scholarships as per State Government regulations. Financial aid to economically deprived but academically bright students through Social Service Guild (SSG)
- For physically challenged students special arrangements are made in both theory and practical classes
- All students are encouraged to participate in all cultural, athletic and literary activities at university/ state/ national level
- Health check-ups and medical counseling camps are periodically organized by Youth Red Cross & NSS unit. The Institution also has health insurance policy for all students



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- To improve the communicative skill of students, English language laboratory has been established. Add-on classes are held regularly to enrich the knowledge of meritorious students. The IT department of our institution is prompt enough to enhance the computer skill of students
- Remedial classes are taken by faculty members and peer mentoring is encouraged to take care of slow-learners
- Career counseling cell organizes seminars for the exposure of students to other institution of higher learning/ corporate/ business house, etc. Further, the students of some departments pay visit to different plant sites for better exposure.
- Students' magazine '**THE STEWARTONIAN**' is published annually along with wall magazines and seminar bulletin in each department

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

Career Counseling Cell of the institution organizes lectures to nurture the entrepreneurial skill of the students. Experts from different sectors like Civil & Administration, Research, Legal, Banking & Insurance, corporate and management colleges are invited to create awareness among the students about the available job opportunities. Students participate in Campus selection process organized by different companies/corporate sectors in consultation with the Placement Cell of the college.

5.1.6 Enumerate the policies and strategies of the institution, which promote participation of students in extra-curricular and co-curricular activities such as sports, games, quiz competition, debate and discussion, cultural activities, etc.

- ☐ ***Additional academic support, flexibility in examinations***
- ☐ ***Special dietary requirements, sports uniforms and materials***
- ☐ ***Any other***

Modern education system is a multi-polar process to enable the students to face the challenges of life. It caters to the integrated development of intellect as well as personality. Hence, a proper balance is maintained between co-curricular activities, extra-curricular activities along with academic development. The college believes in promoting overall development of students.

The college has the following societies, cells and clubs, which work throughout the academic year. A senior faculty member along with other associates remains in charge of a particular society.

- ☐ Students' Union
- ☐ Science Society
- ☐ Dramatic Society



Fear of Lord is the Beginning of Wisdom

- ☐ Athletic Society
- ☐ Career Counseling Cell
- ☐ Internal Quality Assurance Cell (IQAC)
- ☐ Human Resource Management and Placement Cell
- ☐ National Cadet Corps (NCC)
- ☐ National Service Scheme (NSS)
- ☐ Youth Red Cross
- ☐ Self- Defence Training
- ☐ Research Coordination Committee
- ☐ National Integration Samiti

The above societies and cells organize different events, competitions, functions throughout the academic year. Reputed artists, players, coaches, speakers are invited to inspire the students in various meetings and also act as judges in various competitions.

The following days are observed as related to respective society or club:

- ☐ Utkal Dibasa
- ☐ College Foundation Day
- ☐ International Women's Day
- ☐ World AIDS Day
- ☐ World Environment Day
- ☐ Road Safety Week
- ☐ Bana Mahotsav Week
- ☐ International Yoga Day
- ☐ NCC Day

The Students' Union celebrates its Annual functions by December/January to commemorate the activities undertaken by all the societies throughout the session. Highly acclaimed personalities grace the occasion as Chief Guests, Guests of Honour and Chief Speakers to address and inspire the students. Large numbers of prizes with certificates are distributed to the winners of the competitions held on important occasions. The students are sponsored to participate in several cultural, literary and athletic activities and competitions organized by University/District Administration/Local Organizations / reputed institutes.

The Science Society of the college conducts various competitions such as:

- ☐ Science quiz / Health quiz
- ☐ English / Odia / Hindi debate on scientific topic



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- ☐ Science exhibition
- ☐ Posters / Pamphlets relating to general awareness / environment
- ☐ Seminar Presentation

The College Union organizes the following competitions:

- ☐ English / Odia / Hindi essay
- ☐ English / Odia / Hindi Debate
- ☐ Quiz

Following competitions are organized by the Dramatic Society:

- ☐ Inter-class One Act Play
- ☐ Hindustani classical song
- ☐ Light vocal
- ☐ Classical Odissi dance
- ☐ Group folk dance
- ☐ Fancy dress, painting and handicraft
- ☐ Jhoti, rangoli

The Athletic Society of the college conducts the following:

- ☐ Annual sports
- ☐ Inter-class Cricket, Football and Badminton tournament
- ☐ Sends team for inter-college tournaments in Cricket, Sipak-Takarow, Football, Badminton

To manage the academic schedule of the participants, extra practicals/ lectures are held. The teachers also encourage these students and see that they complete their term work/ academic assignments. The participants are given relaxation so far as attendance percentage is concerned. Special monthly examinations are also conducted for these students.

Sports uniforms (track suits, sweat shirts, caps, gloves, sports bag, shoes) and other sports equipments are provided to the students. Travel and daily allowances are provided to them for their participation in Intercollegiate, University and National tournaments.

During the time of various competitions and sports, healthy food/drinks are provided to the participants.

Other facilities provided to the students, which promote their participation in various extracurricular and co-curricular activities are:



- ☐ The college provides unique facility of gymnasium for all the students to keep themselves physically fit
- ☐ Athletic meets organized at district, state and university levels are duly represented by the students of the college
- ☐ Participation of students in sports/games coaching camps
- ☐ Yoga classes are regularly organized as an innovative measure for the holistic development of the students
- ☐ Self defense training programme for the girl students is organized regularly
- ☐ Last but not the least, the government policy relating to admission i.e., 10% weightage for the students having certificate from the Director of Sports, Odisha for state or national level participation, works as an incentive for the students to indulge in sports and games.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOEFL / GMAT / Central /State services, Defence, Civil Services, etc.

The faculty of our college is dedicated to give extra coaching to the meritorious students to prepare them to pursue higher studies in reputed organizations.

5.1.8 What type of counseling services are made available to the students? (academic, personal, career, psycho-social etc.)

The following counseling services are provided by the college:

- ☐ Faculty members are assigned with the duty of proctor, who acts as a counselor/mentor/ advisor for a group of 32 students. The proctor looks into the academic, psychological and personal problems of the students allotted to him/her and advice them accordingly and try to sort out the same. To redress problems related to stress, anxiety, examination phobia and peer pressure counseling is provided by expert persons and the faculties
- ☐ In our institution Career counseling caters this need by providing lectures from eminent personalities of different fields. The counselors explain the scope to the students, tell about suitable career avenues available and eventually help them to arrive at a suitable career option.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Besides Career Counseling Cell, the college has a Placement Cell with a coordinator and associate members since the year 2006. While the Career Counseling Cell organizes



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meetings highlighting career opportunities in different sectors, in collaboration with different organizations, the Placement Cell organizes meetings and talks on different career related issues to make the students aware of job market and job opportunities.

A data bank is created for final year degree students in each academic year. Companies like TCS, Infosys and IBM conduct 'campus selection' in the college for the appointment of executives.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes

The college has a mechanism for addressing the grievances of students in the form of a Student Grievance Redressal Cell. Suggestion box has been installed in the campus. Written suggestions are read periodically and addressed by the concerned department/section.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The college has an Anti-Sexual Harassment Cell comprising of two lady faculty members, the Administrative Bursar along with a lady member from a NGO to provide a congenial and homely atmosphere to the students. The functions of the cell include the following:

- To register the complaints from the students
- To make necessary inquiries in case of harassment
- To provide proper counseling to the students regarding legal provisions of protection from sexual harassment

Not a single case of sexual harassment has been registered in the last four years.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes

The anti ragging Cell of the college regularly monitors overall discipline in the campus. No incidences of ragging have been reported during the last four years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The college looks after the over all welfare of the students by adopting the following schemes:

- Scholarships schemes of Government
- Financial aid from SSG on merit cum need basis
- Medical aid to needy students through Youth Red Cross/ donation of staff and students
- Free medical check-up and distribution of medicines to the needy students



5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The institution has an Alumni Body, which has got multifarious activities to its credit. The members meet at regular intervals with different objectives, programmes with proper student involvement and due collaboration, cooperation from the authority.

The Alumni Body conducts several social service programmes and friendly Cricket and Football tournaments in the college. Also they participate in various activities organized by the College. Furthermore, to enhance the image of the institution, reputed Alumni have been invited and felicitated. The Body provides feedback on the curricular, co-curricular, infrastructural and other aspects of institution and gives valuable suggestions for the overall growth and development of the college in various spheres.

5.2 STUDENT PROGRESSION:

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Most of the students passing out from the institution are absorbed in different reputed national institutions for higher studies. Some of the remaining students get involved in the preparation of various competitive examinations.

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Comparative performances with the available data of the local college in the final degree class during the last five years.

YEAR	NAME OF THE COLLEGE	NO. OF STUDENTS APPEARED	NO. OF STUDENTS PASSED	PERCENTAGE
2011-12	Stewart Science College, Cuttack	120	94	78.33
	Christ College, Cuttack	Science – 144	103	71.50
2012-13	Stewart Science College, Cuttack	116	104	89.65
	Christ College, Cuttack	Science – 166	109	66.00



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2013-14	Stewart Science College, Cuttack	117	98	83.76
	Christ College, Cuttack	Science – 143	112	78.00
2014-15	Stewart Science College, Cuttack	121	102	84.29
	Christ College, Cuttack	Science-144	113	78.00
2015-16	Stewart Science College, Cuttack	128	120	93.75
	Christ College, Cuttack	Science-148	118	83.1

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

The college takes initiatives to inspire and motivate students to pursue higher education after their graduation. For instance, when the teachers orient their students in the first year classes, a broad outline of the scope of that subject and avenues that are open for the students after their degree courses are discussed. Guest lectures by eminent academicians/ experts in the field are arranged by all the departments regularly, so that the students get a chance to interact with experts who have contributed very meaningfully to their discipline.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

Special support is provided to students by counseling who are at a risk of drop out. For economically-strained students financial assistance in form of various scholarships is given. Special remedial classes are arranged for slow learners.

5.3 STUDENT PARTICIPATION AND ACTIVITIES:

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

The range of activities available to the students is as follows:-

- ☐ Sports and Games:
 - ❖ Indoor – Chess, Carom
 - ❖ Outdoor – Football, Cricket, Sipak-Takarow, Badminton
- ☐ Athletics: Running, Jumping, Throw, etc.



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- Cultural and Extra-curricular:
 - ❖ Song – Hindustani classical, Light Vocal
 - ❖ Dance – Classical Odissi, Group folk dance
 - ❖ Fancy dress competition
 - ❖ Painting
 - ❖ Handicrafts
 - ❖ Jhoti
 - ❖ Rangoli

Participation and programme calendar:-

- Republic Day, Independence Day
- College Foundation Day on 1st July
- International Women's Day
- Road Safety week
- World HIV/AIDS Day
- Cultural week
- Athletic meet
- College Union inaugural function
- Annual functions of College Union and Dramatic Society
- Science Society activities & function
- Blood donation Camp

5.3.2 Furnish the details of major student achievements in co- curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Although our Institution is a pure Science college, and the students have to strive hard to attain academic excellence, the achievement of our students in various co- curricular, extracurricular and cultural activities at different levels is commendable. Few of those achievements are cited below:

NAME OF THE STUDENTS	AWARDS AND RECOGNITION	ANY OTHER
Sritapa Mishra	1. 1st Prize in District Level Quiz Competition organized by Department of Tourism, Odisha. 2. 3rd prize in inter-college quiz competition organized by Department of Tourism, Odisha. 3. Inter-college debate competition held by New Indian Express at Odisha literary fest, and awarded 1st runners up by Chief Minister, Odisha 4. Special recommendation in the Model	Attended DST sponsored National Seminar on "Scientific Validation Of Traditional Application Of Natural Products" held By I.G.I.P.S., Bhubaneswar on 7th – 8th Feb., 2014



Fear of Lord is the Beginning of Wisdom

	United Nations held at Ravenshaw University on July,2014	
Ankita Pattnaik	2nd prize in college dance competition	Attended DST-sponsored national seminar on “Scientific Validation Of Traditional Application Of Natural Products” held by I.G.I.P.S.,Bhubaneswar on 7th – 8th Feb.,2014
Ms. Mandakini Sethi	Stood 2nd In Inter College Essay Competition Organised By Utkal.Univ., BBSR	
Ms. Sonali Satpathy	Stood 1st In Poster Competition Organised By Ravenshaw University	
Ms. Prajnashree Aswarya	Stood 3rd In Essay Competition In Utkal.Univ., Bhubaneswar	
Ms. Tabassum Khanum	Stood 2nd In Inter College G. K. Competition In Utkal.Univ., Bhubaneswar	
Ankita Agarwal	2nd Prize In M.K. Rout Memorial Essay Competition Organized By Odisha Chemical Society	
Sabyasachi Padhiary	Best Cadet Award, CATC, Dalijoda	
Somen Chakarbarty	1st Prize In Debate Competition , CATC, Dalijoda	
Sabyasachi Padhiary	1st Prize In Essay Competition , CATC, Walmi	
Ashok Mohapatra(Physics Honours)	Represented India in 3 rd Senior International Football –Tennis Tournament at Kathmandu, Nepal,2016	

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The institution has a definite set of well-defined mechanism of obtaining feedback from the students to improve the method of imparting education by the teachers. Feedback is collected from the IQAC members, academicians and prominent alumni for the improvement of overall standard of the institution.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

The college publishes a magazine named “**The Stewartonian**”, which is a joint venture of teachers and students. Essays, articles with critical evaluations of various events, poems and reports in English, Hindi and Odia are published in this magazine.

All Honours Departments have their Wall Magazines. It covers latest news in their respective subjects. Seminar bulletin of each Department is also brought out every year, which contains talks /articles presented by the students and Scientists/Academician in departmental seminars.



5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The college has a Students' Union, which is a representative body of the students. Every degree student is a member of the union and is eligible for election to any of its offices subject to the provisions of Election Rules (mentioned in College Calendar).

There shall be an Executive Committee of the College Union with the functions mentioned in the college calendar. The office bearers of the union are:

- ☐ The President
- ☐ The Vice-President
- ☐ The Secretary
- ☐ The Assistant Secretary

They are all elected from among the students. One Advisor and a team of Associate Advisors are nominated by the Principal from among the teaching staff to guide the students in the work of the students union.

The functions of the union are detailed as follows:

- i. To organize discussions of the general, cultural, academic, national and international problems.
- ii. To organize debates and quizzes, group discussions, etc.
- iii. To invite eminent persons to address the union.
- iv. To take up such other activities as are proposed by the students union and approved by the Principal.

The mode of election, vacancies in offices, amendments to rules – every detail has been clearly reflected in the college calendar as per the Lyngdo Commission Report.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The college believes in giving equal opportunities to all the students in maintaining discipline and supporting the administration for the holistic growth of the institution. The college breathes this aura of feeling “Let us be united in our thoughts, in our actions and our endeavours, for in unity lies our strength”.

The details of the academic as well as administrative bodies are as follows:

1. The College Union: [Details have been provided under 5.3.5]
2. The Athletic Society: The Executive Committee of the Society consists of President (Principal ex-officio), Vice-President (to be nominated by the Principal), Secretary and Assistant Secretary (elected students). The society organizes annual athletic meet, indoor and outdoor games, inter and intra-college meets, tournaments throughout the year. The society is quite vibrant with all its rules and regulations mentioned in the calendar.



Fear of Lord is the Beginning of Wisdom

3. **The Dramatic Society:** The Dramatic Society of the college is managed by a committee consisting of President (Principal ex-officio), Vice-President (to be nominated by the Principal), Secretary and Assistant Secretary (elected student) and one representative from each class. The society organizes annual cultural programme, drama, one-act plays and various competitions.
4. **The Day Scholars' Association:** All the day scholars of the college are members of this association. Student representatives include one Secretary, one Assistant Secretary and class representatives. The association functions on the whole under the Vice-President, who is a faculty member nominated by the Principal. The association conducts Saraswati Puja, Ganesh Puja, and Christmas Carol.
5. **The Social Service Guild:** The guild is established with the aim to grant stipends to the needy and deserving students to accelerate their academic pursuit. Each student of the college contributes yearly subscription of Rs.2/- towards guild fund. The Executive Committee consists of Principal (President), Vice-President (nominated by the Principal) and student members to be nominated by the Vice-President.
6. **The Science Society:** All the students are members of this society. The Executive Committee of this society consists of the President (Principal ex-officio), Vice-President (nominated by the Principal) along with some staff members. The society is committed to dissemination of scientific knowledge through debates, discussions, exhibitions, workshops and lectures by eminent scientists. Various competitions are held under the auspices of the society to keep the students alert on contemporary matters.
7. **The Students' Common Room:** The college has two common rooms separately for boys and girls. Indoor game facilities are provided to the students to spend their leisure time in a constructive manner. The Committee consisting of President (Principal ex-officio), Vice-President (to be nominated by the Principal), Secretary and Assistant Secretary (elected student) to look at the overall functioning of the common room.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution. Any other relevant information regarding Student Support and Progression which the college would like to include.

The institution collaborates actively with the Alumni Association in organizing health camps, awareness-generating seminars or in the celebration of various programmes like College Foundation Day. Former reputed faculty members are invited on several occasions to deliver extra-mural lectures. They also get themselves associated with the socio-cultural and academic activities of the college from time to time.

Most of our pass-out students opt for higher study in various disciplines. The following table highlights a few.



Fear of Lord is the Beginning of Wisdom

HIGHER STUDY / PLACEMENT OF HONOURS STUDENTS			
YEAR	NAME OF THE STUDENTS	ORGANIZATION	PURPOSE
2011 - 2012	Swapna Sonali Panda	Passed M.Sc From N.I.T., Rourkela And Recently Continuing Phd	Ph.D
	Abhilipsa Swain	N.I.T., Rourkela	M.Sc
	Ipsita Kar	N.I.T., Rourkela	M.Sc
	Pranati Swain	Continuing Ph.D In South Carolina Under Common Wealth Fellowship After M.Sc	Ph.D
	Ms. Mandakini Sethi	Utkal University,Vani Vihar	M.Sc. Botany, Now Working at Navbodaya Vidyalaya,Koraput
	Ms. Saheen Parveen	Utkal University,Vani Vihar	M.Sc. Botany
	Kashyap Bhuyan	O.U.A.T.	M.Sc . Microbiology
	Salman Khan	O.U.A.T.	M.Sc . Microbiology
	Ms. Trishna Parija	M.S. Law College	L.L.B & L.L.M
	G.Kranti Kumar	Global Management	M.B.A
	Yagnadatta Mohapatra	Revanshaw University	M.Sc. Biotechnology
	Santosh Ku. Nathsharma	KIIT University	Ph.D
	Satya Ranjan nayak	Gujrat Central University, Gujrat	M.Sc. in Chemistry
	Priyabrata Nayak	OUAT, Bhubaneswar	M.Sc in Bio informatics
	Jyoti Ranjan Nayak	OUAT, Bhubaneswar	M.C.A
	Badrinarayan Patra	Utkal University	MBA
	Ashok Kumar Tripathy	Employed	Manager, UCO Bank
	Shakti Ranjan Dash		
2012- 2013	Arpita Nanda	N.I.T., Rourkela	M.Sc
	Subhadarshini Agasti	N.I.T., Rourkela	M.Sc
	Ashish Kumar Pal	Asbm,Bbsr	M.Sc
	Sabitri Muduli	Utkal University	M.Sc



Fear of Lord is the Beginning of Wisdom

	Shovna Singh	Ravenshaw University	M.Sc
	Kashyap Bhuyan	O.U.A.T.	M.Sc . Microbiology
	Salman Khan	O.U.A.T.	M.Sc . Microbiology
	Ms. Trishna Parija	M.S. Law College	L.L.B & L.L.M
	G.Kranti Kumar	Global Management	M.B.A
	Yagnadatta Mohapatra	Revanshaw University	M.Sc. Biotechnology
	Kashyap Bhuyan	O.U.A.T.	M.Sc . Microbiology
	Sunita Muduli	Utkal University	M.Sc .(NET qualified)
	Subir Kumar Pati	Utkal University Raghunathjew college	M.Sc. Lecturer
	Sandeep Padhiary	Revanshaw University	M.Sc .
	Rudra Narayan Mishra	Revanshaw University	M.Sc .
	Syamasrit Dash	VIT, Vellore	M.Sc .
	Pragyan Paramita Pradhan	IIMT, Cuttack	M.C.A
	Supriya Das	Ravenshaw University	M.C.A
	Madhusmita Ray	VSSUT, Burla	M.Sc
	Priyanka Rout	IIMT, Cuttack	M.C.A
	Sradhanjali Sahu	IIMT, Cuttack	M.C.A
	Priyanka Rout	IIMT, Cuttack	M.B.A
	Jitendra Kumar Nath	Revanshaw University	M.Sc .
	Sunil Kumar Moharana	Employed	ICICI Bank
	Balaram Sahoo	Indian Airforce	Trainee Officer
	Mihir Nayak	Indian Airforce	Trainee Officer
	Arpita Nanda	NIT, Rourkela	M.Sc.
	Subhadarshini	NIT, Rourkela	M.Sc.
	Shovna Singh	Revanshaw University	M.Sc.
2013- 2014	Shishulekha Dash	R.N.I.A.S.E	B.Ed
	Jharana Mohapatra	Sambalpur University	M.Sc
	Abhilipsa Choudhury	Delhi University	B.Ed
	Sachin Singhi	M.P.C., Baripada	M.Sc
	Srotoswini Tripathy	M.P.C., Baripada	M.Sc



Fear of Lord is the Beginning of Wisdom

Subhra Sashi Kar	M.P.C., Baripada	M.Sc
Bhabani Shankar Choudhury	Utkal University, Vani Vihar	M.Sc. Botany
Ms. Sunanda Mohapatra	Utkal University, Vani Vihar	M.Sc. Botany
Abhijit Mallick	Employed	B.Sc. Botany, Placed in National Insurance
Ms. PrajnyaShree Anwasha	Pondichery University	Medical Microbiology
Ms. Papali Priyadarshini	Utkal University, Vani Vihar	M.Sc. Botany
Ms. Sibarpita Mishra	Revanshaw University	M.B.A
Bhabani Shankar Choudhury	Utkal University, Vani Vihar	M.Sc. Botany
Budhaditya Pradhan	Revanshaw University	M.Sc .
Subhashree Moharana	Revanshaw University	M.Sc .
Guruprasad Nayak	OUAT, Bhubaneswar	M.Sc.
Tarini Mohapatra	Revanshaw University	M.Sc .
Sameer Dash	Revanshaw University	M.Sc .
Swapneswar Sahoo	IIT, Khargpur	M.Sc .
Sreffia Malia	F. M. University	M.Sc .
Ratnakar Swain	IIT Bombay	M.Sc.
Sasmita Behera	IIT Bombay	M.Sc.
Soumya Darshan Panda	IIT, Roorke	M.Sc.
Ayushi Mittal	ISM, Dhanbad	M.Sc.
Krishna Sundar Das	ISM, Dhanbad	M.Sc.
Sumit Das	ISM, Dhanbad	M.Sc.
Santrupta Samantaray	Delhi University	M.Sc.
Debalin Rout	BHU, Varanasi	M.Sc.
Nitin Agarwal	Pondicherry University	M.Sc.
Payaswini Das	Utkal University	M.Sc.
Saikat Sengupta	Utkal University	M.Sc.
Anushuman Singh	Anamalli University	M.Sc.
Srotoswini Tripathy	MPC Autonomous College, Baripada	M.Sc.
Sachin Singhi	MPC Autonomous College, Baripada	M.Sc.
Subhra Sashi Kar	MPC Autonomous College, Baripada	M.Sc.
Jharna	Sambalpur University	M.Sc. in Food and Nutrition
Abhilipsha	Panjab University, Chandigarh	B.Ed
Shishulekha Dash	Panjab University, Chandigarh	B.Ed
Prachita Das	Ravenshaw University	M.Sc. in Biotechnology



Fear of Lord is the Beginning of Wisdom

2014- 2015	Sritapa Mishra	Ravenshaw University	M.Sc
	Anasuya Tripathy	Rama Devi University	M.Sc
	Soumya Ranjan Padhiary	Punjab Central University	M.Sc
	Ch.AISHWARYA	NISWASS,BBSR	M.S.W
	Subha Prasanna Dash	Annamalai University	M.Sc. Botany
	Ms. Aishwarya Rajlaxmi	Annamalai University	M.Sc. Botany
	Ms. Susmita Sahoo	Christ College, Bangaluru	M.Sc . Microbiology
	SK. Sakir	Revanshaw University	M.Sc .
	Sai Prasad Nayak	Sai International, Puttaparti	M.Sc .
	Ankita Agarwal	ISM, Dhanbad	M.Sc .
	Jitendra Kumar Sahoo	ISM, Dhanbad	M.Sc .
	Samarpita Behera	VIT, Vellor	M.Sc .
	Deepti Rekha Parmanik	S.H.U.A.T.S, Allahabad	M.Sc.
	Baisakhi Dasgupta	NIIT, Silchar Asssam	M.Sc.
	Sandeep Jena	IGIT, Saranga	M.Sc.
	Rituparna Panda	M.S. Law College	LLB
	Aditya Kumar	Capital Law College, BBSR	LLB
	Anikesh Prusty	IIT Kharagpur	M.Sc.
	Tanaya Pattanaik	ISM,Dhanbad	M.Sc.
	Mahendra Kumar	ISM,Dhanbad	M.Sc.
	Aradhana Mohanty	BHU,Varanasi	M.Sc.
	Rajeswar Das	Pondicherry University	M.Sc.
	Durga Prasad Mishra	Pondicherry University	M.Sc.
	Swayamprajna Sahoo	Pondicherry University	M.Sc.
	Jitendra Dash	Pondicherry University	M.Sc.
	Smaranika Pati	Utkal University	M.Sc.
	Lopamudra Pattnaik	Utkal University	M.Sc.
	Bhumiparba Malla	Utkal University	M.Sc.
	Bastab Kumar Parida	Ravenshaw University	M.Sc.
	Debabrata Sahoo	Ravenshaw University	M.Sc.



Fear of Lord is the Beginning of Wisdom

	Sushree Sahoo	Ravenshaw University	M.Sc.
	Himanshu Jena	Utkal University	M.Sc. in Microbiology
	Parameswsar Behera	Central University, Kerala	M.Sc.
	Soumya Ranjan Padhiary	Central University, Punjab	M.Sc.
	Sritapa Mishra	Ravenshaw University	M.Sc.
	Ananya Tripathy	R. D. Women's University	M.Sc. in Biotechnology
	Ch. Aiswarya	NISWAS	MSW
	Suchit Kumar Jena	ISM, Dhanbad	M.Sc .
	Lalit Kumar Sahoo	ISM, Dhanbad	M.Sc .
	Soumya Ranjan Pradhan	West Bengal State University	M.Sc .
	Subhashis Sashikant Sahu	ISM, Dhanbad	M.Sc .
	Asish Mishra	U.N College of Science & Technology, Adaspur	M.Sc .
2015-2016	Sandipa Sathia	Utkal University	M.Sc.
	A. Vijay Kumar	Utkal University	M.Sc.
	Sudeep Kumar Sahu	Ravenshaw University	M.Sc.
	Dipti Nath	Ravenshaw University	M.Sc.
	Subhasmita Rachita Das	Utkal University	M.Sc.
	Shriyasri Khuntia	Sambalpur University	M.Sc.
	Soumya Ranjan Samal	Sambalpur University	M.Sc.
	Nisha Das	OUAT, BBSR	M.Sc.
	Mahesh samantaray	Pondicherry University	M.Sc.
	Haraprasad Ray	CIPET	Diploma in Plastic Engineering
	Bikash Ranjan Isaac	GIET	M.Sc.
	Sudhamayee Mahali	Centurian University	M.Sc.
	Pragyan Paramita Nayak	M.S. Law College	LLB
	Balmita Majhi	CET, BBSR	M.Sc.
	Swati Sagarika Panda	KIIT, BBSR	M.Sc.
	Dibyajyoti Nath	IIT Bombay	M.Sc.
	Prabhas Mathan	IIT Roore	M.Sc.



Fear of Lord is the Beginning of Wisdom

2015-2016	Satyajit Nayak	IIT Roorke	M.Sc.
	Subhrajit Rath	IIT Kharagpur	M.Sc.
	Biswa Prakash Samal	ISM ,Dhanbad	M.Sc.
	Chandan Pattnaik	BHU, Varanasi	M.Sc.
	Nilima Patra	Pondicherry University	M.Sc.
	Rojalin Sahoo	Pondicherry University	M.Sc.
	Adya Aishwariya Das	CU, Punjab	M.Sc.
	Subhransu Sekhar Rout	NIIT, Raipur	M.Sc.
	Subhashree Subhrasmita Sahoo	NIIT, Raipur	M.Sc.
	Simran Sahoo	NIIT, Rourkela	M.Sc.
	Subhra Satapathy	Utkal University	M.Sc.
	Tushar Kant Giri	Sambalpur University	M.Sc.
	Susmita Das	Anamalli University	M.Sc.
	Ms. Reema Aggrawal	Indian institute of Health Management & Research, Jaipur	M. Sc.
	Ms. Roma Aggrawal	Indian institute of Health Management & Research, Jaipur	M. Sc.
	Ms. Sruti Gupta	Central University ,Rajsthan.	M. Sc
	Mr. Debashis Sahoo	Central University , Punjab	M. Sc
	Mr. Pritam kumar Mahanta	Ravenshaw University, Cuttack	M. Sc
	Mrs. Subhransu Swain	Ravenshaw University, Cuttack	M. Sc
	Ms. Monalisa Satapathy	Ravenshaw University, Cuttack	M. Sc
	Versa Acharya	OUAT, Bhubaneswar	Bio-Informatics
	Debadatta Barik	F.M University, Balasore	M.Sc.
	Pritam Kumar Mahant	Utkal University	Agri. Business Management
	Debasish Sahoo	ISM, Dhanbad	M.Sc.
	Asutosh Mohapatra	Gitam University	M.Sc.
	Rajat Kumar Das	Gitam University	M.Sc.
	Yash Pareek	Ravenshaw University	M.Sc.
	Reetuparna Soren	Ravenshaw University	M.Sc.
	Kamal Karan	OUAT, BBSR	M.Sc.



Fear of Lord is the Beginning of Wisdom

	Lambodara Nayak	Banaras Hindu University	M.Sc.
	Rajalin Samal	Utkal University	M.Sc.
	Dipak Das	North Odisha University	M.Sc.
	Aswini Kumar Behera	NIT, Jamshedpur	M.Sc.
	Pradeep Kumar Rout	Central University, Karnatak	M.Sc.
	Debasis Nayak	NIT, Rourkela	M.Sc.
	Gajendra Hanshda	Utkal University	M.Sc .



CRITERION -VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT



6.1 INSTITUTIONAL VISION AND LEADERSHIP

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision:

- To provide quality science education in the state
- To foster the advancement of scientific knowledge
- To impart meticulous rigorous training that enables a student to learn science effectively
- To ensure a creative and innovative thinking in scientific domain
- To inculcate human potential and scientific tempo that can be utilized in the dimension of social peace, prosperity, integrity and social harmony
- To nurture the scientific idea in terms of knowledge and wisdom in constructive dimension of social stand
- To promote humanitarian virtues and to preserve our past ideas, cultural and spiritual heritage
- To build up the moral character of the students through internal development of their personalities and make them responsible citizen in future
- To promote a sense of friendship, generosity, goodwill and common brotherhood among all sections of pupil
- To be an important pillar to achieve national integration, which is a great need and demand of the present time
- To be a citadel of learning science where every student regardless of his/her social and economic status has an equal opportunity for development according to his/her own capability and initiative



Fear of Lord is the Beginning of Wisdom

Mission:

- The mission of the institution is embodied in its Crest. It contains words which means “*Fear of The Lord is Beginning of Wisdom*”



The college insignia comprises of five distinct symbols

- The top symbol is the entrance of Barabati Fort of Cuttack indicating the entrance to the citadel of knowledge
- The open book stands for source of knowledge and wisdom
- The tree shows green environment of the college
- Symbol “S” at the centre of the crest stands for the name of the college
- Ear of grain at the bottom symbolizes the productive knowledge
- 1944 is the year of establishment of the college to spread higher education in science

Objective:

- To grow into college of excellence by opening post graduate courses in different science discipline
- To create man power in science who can contribute to the state, to the nation and to the world at large
- To create conducive atmosphere for humanism, tolerance, reason, progress, development of new ideas and the search for truth
- To be the potential source to nourish the scientific and technical knowledge for long term improvement of quality education in the field of basic science
- To introduce job orientated courses such as Remote Sensing, Geographic Information System and inter disciplinary courses like Electronics and Telecommunication, Polymer Science, Food Science, Microbiology, Forensic Science, Biophysics, Geochemistry



Fear of Lord is the Beginning of Wisdom

- To encourage students to participate in different cultural activities and science exhibition in State / National / International level to improve their skill, innovative idea and intellectual capacity.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

College is governed by Diocese of Cuttack, Church Of North India, Cuttack. The management consists of Governing Body comprising of Chairman, Secretary, reputed persons as members along with staff representatives.

The Principal and faculty members with the able guidance of the Management work together for the implementation of quality policy and plans proposed by the Department of Higher Education, Government of Odisha and U.G.C. The management provides the roadmap and general guidelines for quality policy in order to create a conducive learning environment and preserve the ethos of academic excellence set up by the college.

Further IQAC provides facilitative and participative voluntary system for the sustenance of quality and enhancement measures. The Principal is the ex-officio chairman of IQAC and plays a significant role in ensuring proper communication and networking with the stakeholders.

Departmental committees are given responsibilities to take all the necessary steps for successful implementation of the academic/activity plan and submit the “Annual Departmental Activity Report” to the Principal at the end of each academic year, which is then published in the College Magazine “The Stewartonian”.

6.1.3 What is the involvement of the leadership in ensuring:

- ☐ ***the policy statements and action plans for fulfilment of the stated mission***
- ☐ ***formulation of action plans for all operations and incorporation of the same into the institutional strategic plan***
- ☐ ***Interaction with stakeholders***
- ☐ ***Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders***
- ☐ ***Reinforcing the culture of excellence***
- ☐ ***Champion organizational change***

Policy Statement and Action Plans:

The leadership (Management and Principal) in collaboration with the IQAC make sure that the policy statement and the action plans are aligned with the stated mission of the institute. The leadership is also involved in communicating and reviewing the policies/action plans from time to time through meetings with various stakeholders and faculties. Further the college tries to implement strategic plans of the Department of Higher Education, Odisha prescribed in the form of Common Minimum Standard (CMS).

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan:

The institutional strategic plan was carefully prepared in consultation with the stakeholders as well as by referring to the suggestions provided by NAAC peer team report for the first cycle.



Fear of Lord is the Beginning of Wisdom

Suggestions and recommendations are used to review and revise the action plan periodically. Leadership considers the modifications in action plan and incorporates these into the strategic plan in consultation with the Management. IQAC and departmental committees initiate the necessary implementation plan for every academic year.

Interaction with stakeholders:

The Principal follows a democratic and open door policy of leadership. Any stakeholder is free to come to the office of the Principal with grievances and constructive suggestions. The Principal also interacts with stakeholders such as alumni, parents and prospective employers through the periodic interactions held by various departments. This helps the college to ensure that its activities are as per the mission and vision of the college and in tune with the needs of the society.

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders:

The leadership understands the importance of dynamic policy and planning. A periodic need analysis is carried out with the help of key administrative (Administrative Bursar) and academic (Academic Bursar and Heads of departments) personnel. Interaction with various stakeholders like Government, Director of Higher Education, University and UGC provides valuable inputs for future policies and planning. The changing global scenario as well as local needs is understood by consulting the stake holders. The policies and plans are framed based both on the past experience and after assessing future needs. The management provides all the necessary support (administrative, financial and logistic) for any new plan designed for the benefit of stakeholders.

Reinforcing the culture of excellence:

The Institute is committed to reinforce the culture of excellence in all the aspects for providing a dynamic learning environment on the campus. The Principal as well as all the faculty members of the college endeavour to impart quality education through traditional and innovative learning practices. Efforts are also made to provide a creative academic environment by encouraging independent thinking and exploration. Students are sensitized on relevant social issues and encouraged to participate in understanding and solving/at least mitigating these in some measures through various activities both on and outside the campus. Students from the college have always been in the forefront when it comes to the arena of sports and culture.

Champion organizational change:

The College plays a vital role in formulation and implementation of policies/action plans as per the current trends and requirements. The Management and the Principal compile the suggestions from the stakeholders in formal or informal ways for formulation of policies and action plans. After finalization of the action plan, the changes in the policies are communicated to the stakeholders for implementation. A conscious effort by the institute and all the stakeholders generate the positive forward momentum needed to bring about changes and maintain the brand reputation of the college.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?



Fear of Lord is the Beginning of Wisdom

The management of our institution has adopted a stringent mechanism to monitor and evaluate effective implementation of policies and plans. For this purpose the feedback from the stakeholders is collected, analyzed and implemented as far as practicable. Again to achieve academic excellence the Annual Self Appraisal Report is collected from faculty members regarding the completion of the curriculum, innovative method of teaching adopted, research activities etc.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The top management has given full support to the Principal and the faculty to develop the academic leadership. Teachers can also work on various academic bodies in the university or government/nongovernment organizations. Also the Heads of the department administer, plan and execute academic programs of their respective departments.

6.1.6 How does the college groom leadership at various levels?

The college offers the following opportunities for grooming leaders:

- ☐ Holding election each year to elect an Executive Body of the students with President, Vice-President, Secretary, Joint Secretary and Secretaries of various associations.
- ☐ Allowing the student bodies to organize their functions, meetings and competitions.
- ☐ Allowing the students to participate in various literary, cultural, sports competitions organized by the different institutions, societies, organizations at the district, state and national levels.
- ☐ The NCC, NSS and Youth Red Cross wings of the college are very much active, which helps in grooming upcoming leaders of the college.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

For the decentralized governance system, the college follows the principles stated below:

- ☐ Each department is headed by the senior most member among the teaching faculty, who functions as the Head of Department and acts as a link between the teachers, students and administration.
- ☐ Each department maintains its own:
 - Departmental stock and store
 - Departmental rooms and laboratories
 - Departmental time table
 - Departmental registers such as –
 - ❖ Student attendance register
 - ❖ Lesson plan and progress register of faculty members
 - ❖ Tabulation register for recording monthly assessment/ Pre-University test marks
 - ❖ Seminar register
 - ❖ Question bank
- ☐ Each department holds its own seminar



Fear of Lord is the Beginning of Wisdom

- ☐ Each department is allotted rooms, required furniture, certain amount of contingency, which they can spend for their own need or development
- ☐ Each department has a separate notice board, wall magazine for displaying its own activities

6.1.8 Does the college promote a culture of participative management? If 'yes' indicate the levels of participative management.

Yes

The college promotes a participative management at all levels through the following mechanisms:

- ☐ Certain decisions relating to administrative issues are taken by the Staff Council.
- ☐ Decisions related to social, cultural events are taken by the respective societies.
- ☐ The decisions relating to academic innovation, review or implementation are taken in the meetings of Heads of the Department.
- ☐ Teachers are given charge of various offices, Associations, Societies as Vice-Presidents, Officers in-charge and members as part of their Co-curricular and Extra-curricular assignments.
- ☐ Senior members of the staff are given responsibility to act as Administrative Bursar, Academic Bursar, Accounts bursar so that they can oversee the smooth functioning of the college.

6.2 STRATEGY DEVELOPMENT AND DEPLOYMENT

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes

The college has a distinct quality policy oriented towards achieving the goals and mission. The "Quality Policy" of the college is driven by the teaching and non teaching staff of the college and also by our students. The curriculum is provided by the affiliating university. The academic committee, all HODs and members of the IQAC cell develop the quality policy for the whole academic session. The teachers and students are made aware of the policy at the beginning of each session. The government also monitors the quality policy through Common Minimum Standard.

Participation of teachers in conferences, seminars, refresher courses and participation of students in different state and national level competitions provide scope to ascertain their SWOC and review them. The feedback collected from the students, alumni and parent also helps in reviewing the quality policy.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes



Fear of Lord is the Beginning of Wisdom

The college has a perspective plan for development. This plan has been reviewed as per the needs of students and in keeping with the higher education policies. The aspects considered for inclusion in the plan are as follows:

- Need for strengthening core/traditional subjects
- Improve the ongoing “Systems and Procedures” and “Policies” for research, infrastructure etc., communicate them to stakeholders for implementation
- Development of in-house software for storing and retrieving information required in terms of teaching quality and departmental databases.
- Enhance automation of library services to facilitate easier access
- Creation of ICT zones/internet facility in the Central Library
- Promote extensive use of ICT in all academic and administrative transactions
- Awareness campaigns for zero waste campus model, addressing gender issues and aligning our activities with social needs
- Renovations and upgradation of laboratories
- Upgrading the physical infrastructure in terms of modifications/ repairs.

6.2.3 Describe the internal organizational structure and decision making processes.

The internal organizational structure is as follows:

Governing Body, Stewart Science College is the parent administrative body of the College. **The Principal** of the college heads the academic, accounts as well as the administrative sections and is overall in-charge of the college; assisted by administrative, accounts and academic bursars.

The college office provides clerical support required for maintaining records and for interaction with government, university, parents and students.

Various organizational bodies in the college monitor and facilitate several academic and administrative functions, making administration open and transparent. The decentralization of power is evident from the following:

1. Academic Advisory Committee
2. College Admission Committee
3. College Discipline, Anti Ragging Committee
4. Time Table Committee
5. Proctorial Committee
6. Examination Cell
7. Tabulation Committee
8. UGC Committee
9. Career Counseling and Placement Cell
10. College Website and NRC Committee
11. College Union Election Committee
12. College Athletic Society
13. College Dramatic Society
14. College Science Society
15. DSA
16. College National Integration Samittee
17. College Library Committee

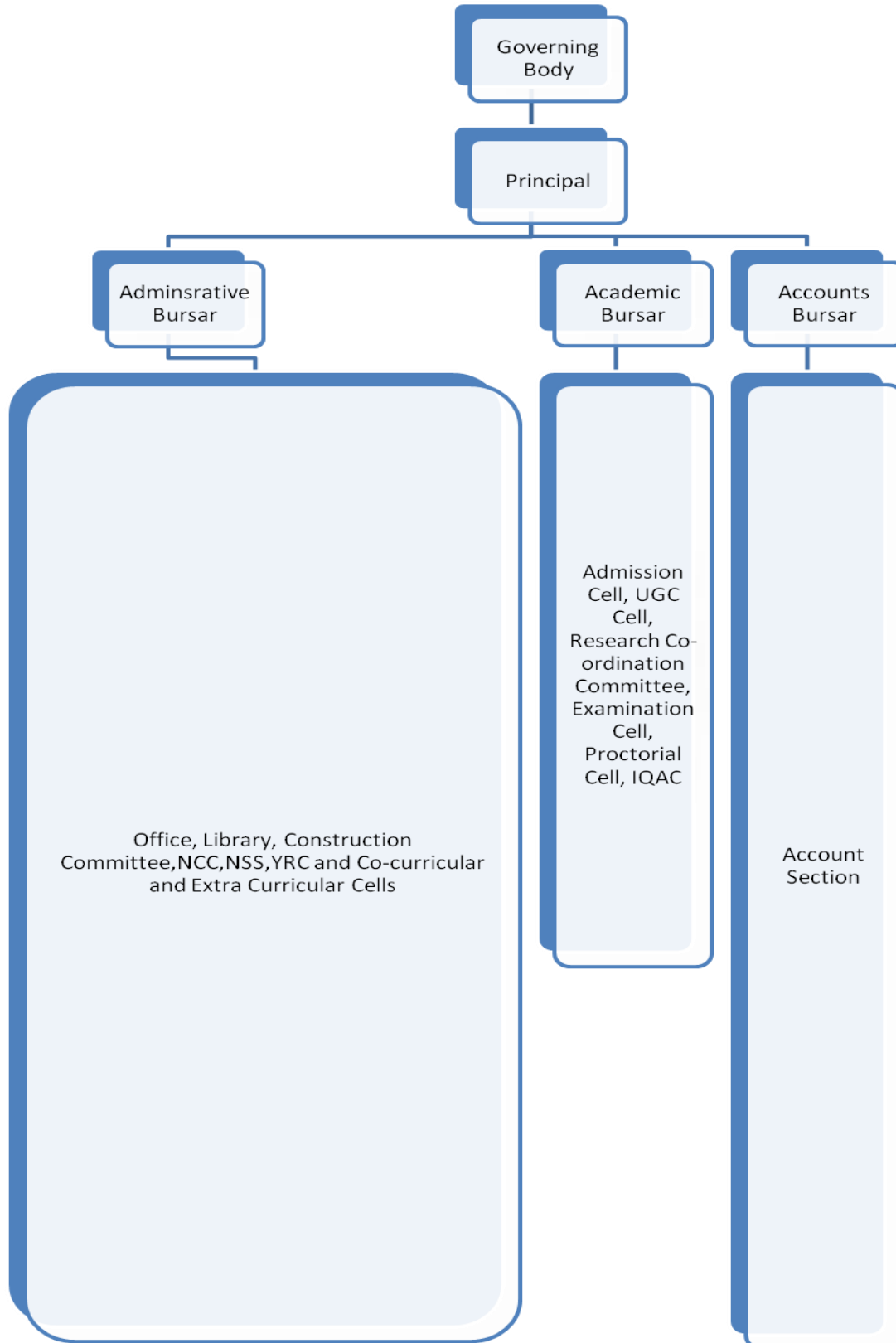


Fear of Lord is the Beginning of Wisdom

18. College Magazine Editorial Board
19. College Calendar Publication Committee
20. College Youth Red Cross
21. NSS Cell
22. NCC Cell
23. Women Grievance Cell / Sexual Harassment Redressal Cell
24. RTI Cell
25. College Repair and Maintenance Committee
26. College Development Committee
27. Students affair Committee
28. IQAC
29. Research Coordination Committee



Fear of Lord is the Beginning of Wisdom





6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- ☐ **Teaching & Learning**
- ☐ **Research & Development**
- ☐ **Community engagement**
- ☐ **Human resource management**
- ☐ **Industry interaction**

Teaching and Learning:

One of the strategies for quality improvement in teaching and learning is to make the learning more student-centric. The Proctorial committee and IQAC collect and analyse the feedback of students on the quality of teaching-learning and provide suggestions for betterment. Other initiatives to improve the quality of teaching-learning processes in the college are as follows:

- Providing LCD projector in Theory Class
- Internet facility to the Departments
- Concept of “Add-On” programmes that focus on skill enhancement of the student.
- Guest lectures / Seminars/ workshops for students.
- Integration of field studies with practicals.
- Faculty development through training at Centres of Higher Learning and Excellence
- Platform for interaction with Industry
- Orientation of students at the beginning of the session
- Compulsory attendance of 75%
- Remedial coaching/ extra classes
- Student feedback system
- Monthly assessment Test
- Provision of question banks
- English language laboratory
- Well-equipped laboratories
- One-to-one interaction

Research and Development:

Most of our faculty members are actively engaged in research activities. The percentage of the teachers awarded with Ph.D or pursuing Ph.D is very high and few teachers act as research guide for Ph.D degree. Further some faculty members undertake research activities with the help of funding agencies like UGC and BRNS.

Our college has one research coordination committee to look after the research activities. The following strategies are proposed to be adopted for upgrading and creating infrastructural facilities for research:

- i. Separate Research room for each department



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- ii. Furnished instrument Laboratory for inter-disciplinary research.
- iii. Enhanced automated library, provision for more research journals and periodicals
- iv. Wi-fi campus for easy access to internet in order to boost the research work

Community Engagement:

The college always looks for opportunities to modify and improve the extra-curricular/extension activities for the benefit of the community. To ensure social justice to the under-privileged and backward sections of the society, the college has undertaken certain programmes through NSS volunteers, such as:

- Road safety awareness programme at Buxi Bazar, Cuttack
- HIV/AIDS awareness programme at Patapol of Cuttack town
- Literacy Drive in the slums situated near Patapol of Cuttack town

Human Resource Management:

The success of any organization is dependent on the quality of the Human Resources. College management has given priority to identify persons with exceptional qualities and giving them opportunities to maximize their performance to meet the strategic objectives.

In the Institute, sincere effort is made to find out the best available talent to be appointed as a teacher. The whole selection process follows the method as prescribed by the Government. To make the selection procedure transparent, applications are invited through open advertisement in daily news papers. Screening of applications is made on the basis of Government yardstick. Then a selection committee is formed by the Governing Body (G.B.) consisting of President of G.B. as chairman, Secretary of G.B. as convenor, Principal, members of G.B., H.O.D. of the concerned department and an external subject expert as members of that committee. Performance in the interview and academic career are taken into consideration while selecting the best candidate for the vacant post. The appointment of the staff is further approved by the Government of Odisha.

Industry Interaction:

To bridge the gap between theory and practice, face to face interaction / Panel discussions between the students, teachers and industry experts are performed from time to time to get updated with the current scenario and recent developments in particular industries.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Principal ensures that adequate information is communicated to the top management and stake holders. The Principal collects information through various meetings like forum of Heads of the Department, Proctorial committee, IQAC as well as from the minutes of the meetings of different committees. This information is placed before the Governing Body of the college. The college uses the data and information obtained from the feedback in decision making and performance improvement. This is obtained through questionnaires given to students of the college on academic as well as on campus experience. Developments in the college are also communicated to the parents and alumni during their



Fear of Lord is the Beginning of Wisdom

meetings. The concerned sections/departments/ persons are informed about their feedback for improvement or for encouragement and appreciation.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The staff is entrusted with the responsibility for different tasks such as college admissions, examinations, document verifications, form collection for scholarships, as well as handling the university/government correspondence. In addition to the involvement of faculty members in the various academic and administrative committees, there is always a representation and support of the non-teaching staff for all these activities. Based on the annual performance, the best teacher award is given every year. The teaching and nonteaching staffs are always felicitated for any special achievement during staff meetings. Further, the management motivates the staff in improving the effectiveness and efficiency in the institutional process:

- ☐ The Staff members are encouraged to participate in seminars, workshops, conferences, publish papers in journals of national and international repute, guide Ph.D scholars, attend meetings of Board of Studies and Subject Research Committee of the affiliating University and Autonomous Colleges.
- ☐ The members of staff also involve themselves in various committees like admission, examination, anti-ragging, dramatic, athletic, literary, library, self-defence etc. These committees help the institution in carrying out different developmental works.
- ☐ Motivational camp is held from time to time by inviting eminent resource persons.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Various resolutions were taken by the Governing Body and have been implemented to achieve academic as well as administrative excellence.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

The affiliating university has a provision for according the status of autonomy to an institution. The management of our college is planning to avail such status.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The institution has a Students' Grievance Cell headed by the Principal along with senior faculties as its members, who attend them for the prompt resolution of the same. The grievances of the members of staff are put forward to the management through the staff representative and necessary steps are taken for amicable solution.



Fear of Lord is the Beginning of Wisdom

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

Court cases filed during last four years are yet to be decided.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes

The institution has a sound mechanism for analyzing student feedback on institutional performance to improve its quality and performance. The inputs obtained from students' feedback on the curriculum, performance of the staff, facilities provided by the library and infrastructural provisions are analyzed, discussed and steps are taken to improve the quality.

6.3 FACULTY EMPOWERMENT STRATEGIES:

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

The rapid changing scenario of higher education calls for continuous development of skills. The institution lays much stress on improving the pedagogical skill of the faculty members. The following are some of the major efforts made by the institution for the professional development of its staff:

- ☐ Conducting departmental seminars
- ☐ Motivating teachers to pursue Minor and Major Research Projects
- ☐ Publication of research work, presentation of seminar papers (Departmental profiles of the faculty attached)
- ☐ Attending refresher and orientation courses, workshops/training programmes
- ☐ Training programmes in e-admission, e-evaluation and HRMS
- ☐ Facilities to faculties to be Members of Board of Studies/ Subject Research Committee

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

Achieving the academic excellence is the core motto of our institution. The college has adopted the following faculty empowerment strategies for the pursuit of such excellence.

1. Collect information on the developmental needs and aspirations of the faculty/staff
2. Imparting training/retraining to the employees as per needs
3. Motivate them to do better in their respective roles
4. Reward the best performers every year.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- ☐ Performance appraisal of staff is made by the Principal through the supervision of lesson plan, progress register, and supervision of class, co-curricular and extra-curricular activities.



Fear of Lord is the Beginning of Wisdom

- Feedback forms are collected from the students on the performance of teachers, completion of the course in time, knowledge on subject, methodology adopted etc.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Annual self appraisal report of the faculties along with the comment made by the principal are forwarded to the Secretary Governing Body. Basing on that report Annual Confidential Report of each staff is written. These reports are communicated to Department of Higher education, Odisha for the career advancement of the faculty.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

Group Insurance Scheme (GIS), ESI and Rehabilitation scheme are some of the welfare schemes available in our college. Leaves of various forms like earned leave, medical leave, maternity leave/paternity leave, academic leave, study leave are availed by the staff from time to time. All the staff members are beneficiaries of these schemes.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

Our college is a Non-Government Aided Minority Institution and is located in the heart of Silver City, Cuttack, Odisha. The tradition of excellence fostered by the college and its glorious heritage are a major source for attracting prospective faculty members. Retaining the faculty members is never a problem for the management due to the healthy management-faculty relationship. The ambience, vibrant student population, work culture, freedom, the opportunity to explore, good academic and research infrastructure are some of the distinctive characteristics of the college. The college recognizes individual achievements or contributions and provides all the support and motivation needed for them to develop further.

6.4. FINANCIAL MANAGEMENT AND RESOURCE MOBILIZATION

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The institution is under the surveillance of Local fund audit (LFA) every year. Also the Chief Controlling Officer (CCO) based audit by Accountant General, Odisha, is done as and when required by Government of Odisha, whose audit mechanism ensures the effective and efficient use of the available financial resources. The institution utilizes the UGC grants under the supervision, direction and control of the UGC Committee, Purchase Committee and Internal Quality Assurance Cell (IQAC) of the college. The college has a separate Accounts Section managed by an Accountant and Cashier with a senior faculty member acting as Accounts Bursar.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.



Fear of Lord is the Beginning of Wisdom

Annual audit is conducted by the LFA, Government of Odisha and periodic audit by the office of the Accountant General. The last audit of the college was conducted for the financial year 2015-16 and no major audit objections have been found.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The college provides financial assistance for the developmental activities and salary of management-paid staff members. In addition, salary of some of the faculty members is borne by State Government. Also grant is received from the UGC as General development Grant/ research grant/additional grant during different plan periods. Some financial assistance is also provided by the MLA and MP LAD funds for structural development of the college.



YEAR	UGC		STATE		COLLEGE		MP/MLA LAD	
	Received (Rs.)	Audited Expenses (Rs)	Received (Rs)	Audited Expenses (Rs)	Received (Rs)	Audited Expenses (Rs)	Received (Rs)	Audited Expenses
2011-2012		18,28,383	2,33,21,453	2,32,77,204	3,15,65,112	3,36,65,742.1	-	-
2012-2013	85,377	13,78,946	2,77,54,980	2,77,83,580	2,89,57,569.41	2,71,79,451.1	-	
2013-2014	2,84,926	2,29,967	2,59,43,299	2,59,43,801	1,87,99,376	1,75,81,717.1	-	-
2014-2015	14,22,349	63,281	2,58,64,331	2,58,64,331	2,22,76,481	2,36,41,677.6	-	
2015-2016	1,08,864	3,83,123	1,97,37,068	1,98,13,075	1,27,05,175	1,45,57,704.5		

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Apart from the regular sources of income, the college explores alternative sources of additional funding. It plays a proactive role in writing proposals to various funding agencies.

6.5 INTERNAL QUALITY ASSURANCE SYSTEM (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell



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(IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

- b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?***
- c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.***
- d. How do students and alumni contribute to the effective functioning of the IQAC?***
- e. How does the IQAC communicate and engage staff from different constituents of the institution?***

The college has a well organized Internal Quality Assurance Cell (IQAC) to assure academic excellence. Further in accordance with UGC guidelines the college has recently established IQAC.

- a.** Yes, the institution has formed an Internal Quality Assurance Cell (IQAC) on 13th May, 2015 as per the UGC guidelines.
- b.** The institution is conscious enough with the objective to develop a system for consistent and catalytic attention to improve the curricular, co-curricular and extra-curricular activities. The following decisions were taken in the meeting:
 - New pattern in monthly assessment of students, incorporating national level entrance examination questions for higher studies
 - Encouraging students to design and fabricate innovative and indigenous projects
 - Focus on Interactive classes
 - Information database regarding academic courses available in respective branches after graduation
 - Acquisition of specialized books in central Library to help students qualify in entrance examinations for higher studies
 - Emphasizing on character building of students
- c.** The IQAC has two external members on its committee. They have contributed ideas to heighten the level of clarity and focusing in institutional functioning towards quality enhancement and facilitating internationalization of the quality culture.
- d.** The students have scope for feedback through their representative on the functioning of IQAC, which is to be shared with the Principal and Management to take necessary action at their end.

The alumni are not directly involved in the functioning of IQAC, but they have a scope to provide suggestions in informal ways. These will be utilized to improve the academic and administrative processes.

e. The IQAC is framed with an aim to monitor all the institutional processes. It has a scope to communicate with various committees and also to evaluate their performance. If need arises, the composition of certain committees can be altered for achieving the objectives of the committee. IQAC can guide the Research Coordination Committee with respect to evaluation of research schemes, orientation of researchers. It can communicate with the Heads of the Department and participates in academic and administrative decision making process.



Fear of Lord is the Beginning of Wisdom

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.

Yes

The institute has an integrated framework for quality assurance and sustenance of academic and administrative activities. Internal coordination of various activities of the college is done in consultation with Heads of all the Department, Academic Bursar and Administrative Bursar. Organization of seminars, workshops, skill development programmes for students, upgrading the library and office automation through Human Resource Management System helped in the quality assurance procedure.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Yes

The institution provides training to its staff for effective implementation of the quality assurance procedures. Their academic pursuit is enhanced by attending seminars, workshops, refresher courses/ orientation programmes and various training programmes. Training in evaluation, e-admission, Human Resource Management System (HRMS), IFMS, PIMS have their enumerating impact on academic, financial and administrative sphere.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

Yes

For the achievement of academic excellence, academic audit has been introduced as a part of educational administration. These audits have helped in improving our academic and administrative processes.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The internal quality assurance mechanism of our college is aligned with the requirement of the stakeholders as well as the Department of Higher education, Odisha. The college follows the Common Minimum Standard (CMS) for quality assurance. It also aims at fulfilling the expectation of the society in terms of quality of teaching and building the character of pupils.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The following steps are taken by the institution to review teaching learning process:

(a) Preparation of Academic Calendar

(b) Preparation and execution of teaching plan

(c) Time table preparation and daily entry of academic activities in the progress register.

(d) Periodic review of progress in departmental meetings.

The outcome of such endeavour is reflected in the result of our students.



Fear of Lord is the Beginning of Wisdom

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The institution communicates its quality assurance policies, mechanism and outcomes to stakeholders through:

- (a) Staff Council meetings
- (b) Special meetings of heads of department
- (c) Meetings with Vice-president and members of different committee, cells and college Office.
- (d) Parent-teacher Meeting
- (e) Informal meeting with alumni
- (f) College website



CRITERION –VII

INNOVATIONS

AND

BEST PRACTICES



7.1 ENVIRONMENT CONSCIOUSNESS

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes

The college is committed in saving the environment and working towards a sustainable future.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- **Energy conservation**
- **Use of renewable energy**
- **Water harvesting**
- **Check dam construction**
- **Efforts for Carbon neutrality**
- **Plantation**
- **Hazardous waste management**
- **e-waste management**

The college makes special efforts to instill environmental awareness among its students. For developing ecological consciousness among the students, an Eco Club is established, which conducts a wide range of activities such as organizing campaigns, poster exhibitions, field visits, workshops and seminars. The initiatives taken by the college to make the campus eco-friendly are as follows:

- **Energy conservation** – Students and staff are conscious of saving energy by turning off the electrical appliances such as light, fans, computers, etc. when not in use. LED and CFL are used to light the campus. Energy efficient electrical gadgets have been installed in our campus. Students and staff are encouraged to use bicycles, public transport while commuting to the college instead of motorized vehicles on every Saturday to save fuel. Car-pooling has become a usual feature of the institution.
- **Use of renewable energy** – Nil
- **Water harvesting** – Nil
- **Check Dam construction** – There is no scope to construct a check dam within the existing infrastructure of this institution.
- **Efforts for carbon neutrality** – Carbon neutrality is maintained through plantation drive.
- **Plantation** – Eco Club of the college encourages the students and staff to take part



Fear of Lord is the Beginning of Wisdom

in massive plantation of sapling on Vana Mahotsav Week from 1st July to 7th July every year and takes care of the same. The Forest department of the Government of Odisha helps in supplying the saplings.

- ☐ Hazardous waste management – All the waste materials and garbage are collected regularly and disposed off appropriately.

7.2 INNOVATIONS:

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Being the only science college in Odisha, Stewart Science College is committed in nurturing scientific temper among the students, promoting humanitarian values and shaping their character, so that they can preserve our past ideals, culture and spiritual heritage. In this age of modern technology our institution endeavours to inculcate discipline, endurance and initiative in young and energetic pupil with an aim to prepare them to face the oncoming, fast growing technological advances. To achieve this aim, our college has adopted various innovative methods in improving overall quality of teaching.

- ☐ Updation of question bank of entrance examinations for higher study, changing question pattern of monthly assessment, remedial classes with add-on peer tutoring, Upgrading class room teaching with LCD projector and power point presentation, maintenance of wall magazines and publication of seminar bulletins reflecting the recent scientific developments
- ☐ The English Language Laboratory helps in enhancing the communicative skills of the students.
- ☐ Training to the faculties for e-admission and e-evaluation.
- ☐ Feedbacks from students, parents and alumni both in verbal and written form are taken into consideration for healthy academic ambience.
- ☐ Research happens to be one of the systematic ways of gaining and sharing knowledge worldwide. For nurturing and nourishing the research talent and developing a spirit of scientific inquiry among the faculty members, consistent and conscious efforts are undertaken by our institution. The Research Coordination Committee (RCC) plays a key role in encouraging research by providing infrastructure, administrative support and evaluate their efforts in form of publications in research journals and presentation of papers in various seminars
- ☐ For the holistic development of the students, Yoga Club organizes regular yoga and meditational practices, while the gymnasium helps in their physical fitness. Further, the self-defense training makes the students feel secure and confident.



BEST PRACTICES:

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

1. Title: Interactive Learning

Goal:

To change the learning styles of the students through interaction, in order to cope with the demands of new academic learning environment and to meet the diversity of educational needs in this fast changing societal conditions.

The Context:

Teaching through interactive-learning materials is an emerging practice around the Globe.

- Help to form opinions and organize ideas through group discussion
- Allow students to develop the knowledge they require and practice the skills they need to have.
- Making the mind of the Learner as a consumer and contributor
- Students take the responsibility for their own learning, including acquiring the material and preparing the content through formal inquiry and search process

The Practice:

Interactive lectures are classes in which the instructor incorporates engagement triggers and breaks the lecture at least once per class to have students participate in an activity that lets them work directly with the material. The engagement triggers capture and maintain student attention and the interactive lecture techniques allow students to apply what they have learned or give them a context for upcoming lecture material. Accordingly, interactive lectures include segments of lecture *combined with* segments where students interact. One of the things that make the lecture interactive is the ability of the instructor to choose the content of the lecture segments based on the students' needs. These activities also allow students to immediately apply content and provide feedback to the instructor on student understanding.

Evidence of Success:

- ☐ Interactive learning engaged our students to actively participate in their own education and helped them to learn more effectively from a lesson and apply the newly acquired skills to different situations
- ☐ Interactive learning in the classroom encouraged healthy debate between students and the teacher
- ☐ It developed true critical-thinking skills, open and honest exchange of ideas
- ☐ Motivated students towards further learning and developed their communication skills with people, which is very much required for their future work or career presentation



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- ☐ Lecturers could analyze his/her students learning capacity easily
- ☐ The institution could obtain quick feedback from the student

Problems encountered and resources required:

It is difficult to conduct such programme, as its implementation with simultaneous completion of curriculum requires more number of classes per week. Although it may sound simple, it is hard to actually foster an atmosphere in which students feel free to question the teacher because they fear reprisal or embarrassment.

2. Title of the practice– INDOCTRINATE SELF DISCIPLINE

Goal:

To inculcate self discipline among the students with an aim to shape them to be a good citizen.




The Context:

Self discipline is synonymous to self control which implies controlling ones conscience to honestly do the right things however difficult it may be. Many preachers and Gurus have preached self-discipline, lauding it as magical key to unlock a life leading to success and achieving desired goals. Self discipline is a selective training which inculcates a clean & progressive thought, action and speech towards improving oneself and helps in achieving desired and righteous goals. Obedience is a major ingredient in achieving self discipline.

The Practice:

- ☐ Holistic development is the dynamic motto of higher education. The advantages of attaining self discipline is inculcated into the minds of the students through various extramural lectures
- ☐ Besides, practicing Yoga and meditation through Yoga club enhances proper enrichment of the body, mind and soul of the students to develop a balanced personality, which is a key factor to self discipline

Evidence of Success:

-  **Being focused:** Being disciplined, students stay focused towards their work, activities or goals
-  **Respected by others:** Self-Discipline commands respect from peers, juniors, seniors and from the society
-  **Stay healthy:** Self-disciplined life style includes regular habits like taking food, medicine (if any), exercise, sleeping and waking at right time. Discipline is a way of positive outlook to life, which tunes the body and mind of the pupil so well that they remain healthy and active.



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- Self control:** Self disciplined student has more self control over himself. He is careful in his use of words while talking, behaving etc., avoiding himself from being entangled in silly problems. This way he also builds good relations with people.
- Better Education:** Discipline in education and obedience are very important for better education. Education is incomplete without learning discipline. Classroom discipline helps students to listen to teachings well and also cover the entire syllabus
- Get things done faster:** Being disciplined get things done faster and in right time. Though some things happen late due to other factors, still one with discipline gets them done faster than others due to his self -disciplined attitude
- Stay stress or tension free:** Students have tension during exam or daily routine work. This is an internal anxiety or unknown fear about the outcome of the work. Staying disciplined helps one study well in advance and not just before examination so he remains tension free

Problems encountered and resources required:

Self discipline for college students is extremely essential for achieving desired academic goals and shaping the young adults into honest and sincere citizens. Since college students demand more degree of freedom, it is extremely challenging to motivate them to be self disciplined as compared to school children. Therefore, it will require more dedication, commitment and positive supervision by proctors and faculty members, who will have to be vigilant on all their activities both inside and outside the college.



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EVALUATIVE REPORT OF THE DEPARTMENTS



DEPARTMENT OF BOTANY

1. *Name of the Department:* BOTANY
2. *Year of establishment:* 1971-72
3. *Names of programmes/courses offered(UG,PG,M.Phil,Ph.D,Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):*
Annual/CBCS
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:*
Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:*
Nil, but successfully completed certificate course in Biotechnology (UGC sponsored) from 2007-2012
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
Professors	-	-
Associate Professors/Readers		
Assistant Professors/Lecturers	06	06



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10. Faculty Profile with name, qualification, Designation, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc:

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED FOR THE LAST FOUR YEARS
Mr.Amarnath Sahoo	M.Phil Ph.D(Thesis Submitted)	Lecturer	Environmetal Biology	13years	Nil
Mr. Animesh Daspattnaik	M.Phil	Lecturer	Cytogenetics	09years	Nil
Mrs Sasmita Pati	M.Sc.	Lecturer	Environment al Biology	08years	Nil
Mr. Joydeep Mohanty	M.Phil	Lecturer	Environment al Biology	02 year	Nil
Dr. Priya Ranjan Behera	Ph.D	Lecturer	Molecular Biology & Biotech.	03	Nil
Dr. Smita Mohanty	Ph.D	Lecturer	Environment al Biology	14	Nil

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student Teacher Ratio (Programme-wise): 16:1

14. No. of academic support staff(technical)and administrative staff sanctioned & filled:

POST	SANCTIONED	FILLED
DEMONSTRATOR	02	02
STORE KEEPER	-	-
LAB. ATTENDANT	02	02
GARDNER	01	01



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15. Qualifications of teaching faculty with DSc/ D.Litt./Ph.D/MPhil/PG:

Ph.D-2; M.Phil – 03; PG – 01

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received:

Duration	Name of the Faculty	Title of Project	Name of Funding Agency	Grant Sanctioned (Rs.)	Status (Minor/Major)
2011-13	Mr. Animesh Daspattnaik	Heavy metal induced oxidative metabolism and Genotoxicity in <i>Allium cepa L.</i>	U.G.C	1,75,800/-	Minor
2016-18	Mr. Amarnath Sahoo	To study biochemical / microbial induces of water / soil sample of mangroves ecosystem of Mahanadi river delta, Odisha, India	U.G.C	1,65,000/-	Minor

17. Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received:

02 UGC MRP projects

18. Research Centre/ facility recognized by the University: No

19. Publications:

- ☐ a) Publication per faculty – Details Given in the Table below
- ☐ Number of papers published in peer reviewed journals (national /international) by faculty and students –

Name of the Faculty	No. of Papers Published
Mr. Amarnath Sahoo	03
Dr. Priya Ranjan Behera	13

- ☐ Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Nil
- ☐ Monographs – Nil
- ☐ Chapter in Books – Nil
- ☐ Books Edited – Nil
- ☐ Books with ISBN/ISSN numbers with details of publishers – 01

“+2 Practical Botany by Sri Amarnath Sahoo and Mrs. P. P. Mohapatra, ISBN: 978-81-



Fear of Lord is the Beginning of Wisdom

88337-97-2, New Age Publication, Stoney Road, Chandini Chowk, Cuttack.”

☐ **Citation Index** – Nil

☐ **SNIP** – Nil

☐ **SJR** – Nil

☐ **Impact factor** – 15.098 (Dr. Priya Ranjan Behera)
1.0280 (Mr. Amarnath Sahoo)

☐ **h-index** – Nil

20. Areas of consultancy and income generated: Nil

21. Faculty as member in a) National Committees b) International Committees c) Editorial

Boards: Nil

22. Students projects:

- ☐ **Percentage of students who have done in-house projects including inter departmental/programme:** Nil
- ☐ **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:** Nil

23. Awards/recognitions received by faculty and students:

Name of the Student	Award	Organization
Mandakini Sethi	Stood 2nd in Inter college Essay Competition	Utkal University, Bhubaneswar
Ms. Sonali Satpathy	Stood 1st In Poster Competition	Ravenshaw University, Cuttack
Ms. Prajnashree Aswarya	Stood 3rd In Essay Competition	Utkal University, Bhubaneswar
Ms. Tabassum Khatun	Stood 2nd in Inter College G.K.Competititon	Utkal University, Bhubaneswar

24. List of eminent academicians and scientists/ visitors to the department:

1. Dr. Gour Prasad Nayak, Reader in Botany, Ravenshaw College ,Cuttack
2. Dr. Sudarshan Sasmal, Scientist CRRI, Cuttack
3. Dr. Pramod Kumar Mohapatra ,Chief Editor,The Samaj,Cuttack
4. Dr. Haraprasad Sahoo,Reader in Botany(Retd),B.J.B.,College,Bhubaneswar
5. Prof. (Dr.) Santilata Sahoo,Dept. of Botany,Utkal University,Bhubaneswar
6. Dr. Ramakanta Parida,Reader In Botany (Retd.), Ravenshaw University



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25. Seminars/ Conferences/ Workshops organized and the sources of funding:

a) **National:** Nil

b) **International:** Nil

26. Students profile programme/ course wise: NA

NAME OF THE COURSE (Refer question no.4)	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female

27. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Botany Honours	98%	2%	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?: NA\

29. Students Progression:

STUDENT PROGRESSION	% AGAINST ENROLLED
UG - PG	80%
PG-M.Phil	-
PG – Ph.D	-
Ph.D to Post Doctoral	-
Employed: <ul style="list-style-type: none"> Campus selection: Other than campus recruitment: 	- 27
Entrepreneurs:	05



30. Details of infrastructural facilities:

- a) **Library:** Seminar Library for both staff and students
- b) **Internet facilities for staff & students:** Only for staffs
- c) **Class rooms with ICT facilities:** One class room with ICT facility
- d) **Laboratories:** one Junior and one Senior Laboratory

31. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input

32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

NAME OF INVITED SCIENTISTS/ACADEMICIAN	THEME OF SEMINAR
Dr. Gour Prasad Nayak, Reader in Botany(Retd), Ravenshaw College ,Cuttack	Global Warming
Dr. Sudarshan Sasmal, Scientist CRRI	Climate Change
Dr. Pramod Kumar Mohapatra ,Chief Editor, The Samaj, Cuttack	Eco Tourism
Dr. Haraprasad Sahoo, Reader in Botany(Retd), B.J.B., College, Cuttack	Flora of Odisha
Prof. (Dr.) Santilata Sahoo, Dept. of Botany, Utkal University,	Solid Waste Management
Dr. Ramakanta Parida, Reader In Botany (Retd.)	Biotechnology in Crop Management
Mr. Pratap Kishor Mohanty	Photosynthesis
Dr. Chinmoy Sahoo, Lect. In Botany, U.U	Plant Tissue Culture
Dr. Haraprasad Sahoo	Ethnobotany: The Future Aspect
Mr. Udaya Sankar Acharya, Reader In Botany, S.S.C College, Puri	Recombinant DNA Technology & Its Application
Prof.(Dr.) Santilata Sahoo	Food Processing & Preservation



33. Teaching methods adopted to improve student learning:

- (a) Audio Visual aid
- (b) Interactive learning
- (c) Field tour and Herbarium Collection

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Active participation of students in NSS, YRC, SDTP, NCC etc. (Details in Criterion 3.6 of Criteria wise input)

35. SWOC analysis of the Department and Future Plans:

Strength:

- 1. Experienced and Dedicated staff members
- 2. Monthly Assessment in University pattern
- 3. Research oriented teaching and counseling
- 4. Lab to land exposure of students
- 5. Doubt Clearing and guidance for P.G entrance and other competitive Examination

Weakness:

- 1. Inadequate infrastructure facility

Opportunity:

- 1. Scope for research and counseling for allied branches/departments

Future Plan:

- 1. Opening of P.G classes in Botany and in Environmental science
- 2. Enhancement of number of seats in Botany Honours



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DEPARTMENT OF CHEMISTRY

1. *Name of the Department:* CHEMISTRY
2. *Year of Establishment:* 1967-1968
3. *Names of programmes/courses offered(UG,PG,M.Phil,Ph.D,Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):* Annual/CBCS
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:* Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:* Nil
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
Professors	-	-
Associate Professors/Readers	01	01
Assistant Professors/Lecturers	10	10

10. *Faculty Profile with name, qualification, Designation, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.*

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Dr. Debasish Pradhan	Ph.D	Reader	Inorganic Chemistry	29years	Nil
Dr(Mrs) Deepa Nag	Ph.D	Lecturer	Physical Chemistry	27years	Nil
Dr(Miss) Aparna Dutta	Ph.D	Lecturer	Organic Chemistry	26years	Nil
Dr. Abani Kumar Sahu	Ph.D	Lecturer	Organic Chemistry	26years	Nil
Dr(Mrs.) Sasmita	Ph.D	Lecturer	Organic Chemistry	08	Nil



Fear of Lord is the Beginning of Wisdom

Pattnaik					
Dr(Mrs). Tanushree Pattnaik	Ph.D	Lecturer	Organic Chemistry	07	Nil
Mrs kabita mala Nayak	M.Sc	Lecturer	Organic Chemistry	05	Nil
Mrs. Sandhya S. Mohanty	M.Sc (Ph.D Continuing)	Lecturer	Physical Chemistry	05	Nil
Dr. Suchitra Mohanty	Ph.D	Lecturer	Physical chemistry	02	Nil
Mr. Manas Ranjan Pradhan	M.Sc	Lecturer	Organic Chemistry	02	
Mr. Sontosh Kumar Samantara	M.Sc	Lecturer	Physical Chemistry	06	Nil

11. List of senior visiting faculty: Nil

**12. Percentage of lectures delivered and practical classes handled
(programme wise) by temporary faculty:** Nil

13. Student Teacher Ratio (Programme-wise): 16:1

**14. No. of academic support staff(technical)and administrative staff sanctioned &
filled:**

POST	SANCTIONED	FILLED
DEMONSTRATOR	04	04
STORE KEEPER	01	01
LAB. ATTENDANT	04	04

15. Qualifications of teaching faculty with DSc/ D.Litt./Ph.D/MPhil/PG:

Ph.D- 07; P.G – 04



16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received:

Durati on	Name of the Faculty	Title of Project	Name of Funding Agency	Grant Sanctioned (Rs.)	Status (Minor/ Major)
2012- 2014	Dr.(Miss) Aparna Dutta (PI) Dr(Mrs) Deepa Nag(Co- PI)	Study of Ground and Surface water in Coastal Orissa to combat Fluorosis	U.G.C	1.96L	Minor
2015- 2017	Dr.(Mrs) Deepa Nag	Characterization Of Water Quality To Study Correlation Between IQ Of Children And Geochemical Ions In Four Districts Of Central Odisha	U.G.C	3.15L	Minor
2015- 2017	Dr. Debasis Acharya (PI) Dr(Miss) Aparna Dutta(Co -PI)	Spatial distribution of uranium and associated water quality parameters in ground water /drinking water of four four districts(Khordha, Nayagarh,Kandhamal&Boudh) of Odisha	BRNS, BARC, Mumbai	24.46L	Major

l

17. Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received: Nil

18. Research Centre/ facility recognized by the University: No

19. Publications:

- ☐ **a) Publication per faculty** – Details Given in the Table below
- ☐ **Number of papers published in peer reviewed journals (national /international) by faculty and students –**

Name of the Faculty	No. of Papers Published
Dr(Mrs) Deepa Nag	15
Dr(Miss) Aparna Dutta	15
Mrs Sasmita Pattnaik	09
Dr(Mrs) Tanushree Pattnaik	13
Mrs. Suchitra Mohanty	06
Mrs. Sandhya Sayantini Mohanty	03



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- ☐ ***Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Nil***
- ☐ ***Monographs – Nil***
- ☐ ***Chapter in Books – Nil***
- ☐ ***Books Edited – Nil***
- ☐ ***Books with ISBN/ISSN numbers with details of publishers – Nil***
- ☐ ***Citation Index – 15***
- ☐ ***SNIP – Nil***
- ☐ ***SJR – Nil***
- ☐ ***Impact factor – Nil***
- ☐ ***h-index – Nil***

20. Areas of consultancy and income generated: Nil

21. Faculty as member in a) National Committees b) International Committees c) Editorial Boards: Nil

22. Students projects:

- a. ***Percentage of students who have done in-house projects including inter departmental/programme:*** Nil
- b. ***Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:*** Nil

23. Awards/recognitions received by faculty and students:

Faculty:

Name Of the Faculty	Award	Organisation
Dr..Sasmita Pattnaik	First prize for paper presentation	Balabhadraprasad memorial seminar, 2014, Ravenshaw University
Dr. Suchitra Mohanty	Second prize for paper presentation	Balabhadraprasad memorial seminar, 2014, Ravenshaw University
Dr. Suchitra Mohanty	First prize	Dr Bhagabata Nanda Memorial award in 2013
Dr. Suchitra Mohanty	First prize	Dr Bhagabata Nanda Memorial award in 2014
Dr. Suchitra Mohanty	First prize	S.N.Mohanty Environmental award, 2014
Dr(Miss) Aparna Dutta	Best Teacher for 2016	Board of Diocese an Institutions, Odisha Under CNI, New Delhi



Student:

Ankita Agarwal	Second prize in M.K.Rout Memorial Essay competition	Odisha Chemical society, 2014
Subhashree Moharana	Highest Mark in Chemistry Honours	N.B Banerjee Memorial Award & Subhankar Banerjee Memorial Award, 2014
Sandipa Sathia	Best Graduate, Utkal University, 2016	Utkal University
Sandipa Sathia	Highest mark in Chemistry Honours	N.B. Banerjee Memorial Award & Subhankar Banerjee Memorial Award, 2016

24. List of eminent academicians and scientists/ visitors to the department:

- Prof.(Dr.) R. K. Dey, Prof in chemistry, Central university, Jharkhand
- Captain T.P.S Gill, Indian Navy, New Delhi
- Mr. Dillip Kumar Swain, Assistant executive engineer, ONGC
- Prof. L. N. Pattnaik, Ex Director, State Pollution Control Board, Odisha
- Prof Satyaban Jena, Professor in Chemistry Utkal University
- Prof P.K. Sahu, Professor in Chemistry Utkal University
- Prof. S.P. Rout, Professor in Chemistry, Utkal University

25. Seminars/ Conferences/ Workshops organized and the sources of funding

- a. **National:** Nil
- b. **International:** Nil

26. Students profile programme/ course wise: NA

NAME OF THE COURSE (Refer question no.4)	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female



27. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Chemistry Honours	97%	3%	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?: Approximately 50%

29. Students Progression:

STUDENT PROGRESSION	PERCENTAGE AGAINST ENROLLED
UG to PG	60%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed:	
<input type="checkbox"/> Campus selection	nil
<input type="checkbox"/> Other than campus recruitment	05%
Entrepreneurs	10%

30. Details of infrastructural facilities:

- Library:** Approximately 278 books are available in departmental library for both staff and students
 - Internet facilities for staff & students:** yes(broadband connection) only for staffs
 - Class rooms with ICT facilities:** One class room with ICT facility
 - Laboratories:** Two Laboratories, One Research Room
- 31. Number of students receiving financial assistance from college, university, government or other agencies:** Details given in Criterion 5.1.3 of Criteria wise input



32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

NAME OF INVITED SCIENTISTS/ACADEMICIANS	THEME OF SEMINAR
Prof. Ratan Kumar Dey, Professor in Chemistry, Central University, Jharkhand	Green Chemistry
Prof. S.P. Rout, Professor in Chemistry, Utkal University, Bhubaneswar	Hydro chemical analysis of Surface water of Brahmani basin of Odisha
Sri Dilip Kumar Swain, Asst. Executive Engg., ONGC	Coal Bed Methane
Captain T.P.S Gill, Captain, Indian Navy, New Delhi	Career opportunity in Defence Services after Graduation
Dr. L.N Pattnaik, Ex Director, Pollution control Board, Odisha	Heavy metal Pollution and its Remediation
Prof. Ratan Kumar Dey, Professor in Chemistry, Central University, Jharkhand	Biomedical Applications of Nanomaterials

33. Teaching methods adopted to improve student learning:

- (a) Audio Visual aid
- (b) Interactive learning and periodical assessment
- (c) Remedial classes for slow learners
- (d) Add-on teaching for meritorious students

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Active participation of students in NSS, YRC, SDTP, NCC etc. (Details in Criterion 3.6 of Criteria wise input)

35. SWOC analysis of the Department and Future Plans:

Strength:

- Smart Honours Class room
- A bunch of qualified and dedicated teachers
- Research activities have gathered momentum with increase in number of publications during last four years
- Students with good academic performance and well defined aspirations



Weakness:

- Limitations imposed by university syllabus
- More funds for research activity
- Lack of national/International collaboration in research
- No internet facility in class rooms

Opportunities

- Exposure to students through exchange programmes
- Scope for developing Industry-institution relationship

Challenge

- Maintenance of instruments
- Infrastructural facilities for increased number of students

Future Plan

- Opening of P.G Course in Chemistry
- To enhance the intake capacity in Chemistry Honours



DEPARTMENT OF GEOLOGY

1. *Name of the Department:* Geology
2. *Year of establishment:* 1991-1992
3. *Names of programmes/courses offered(UG,PG,M.Phil,Ph.D,Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):* Annual
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:* Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:* Nil
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
PROFESSOR		
ASSOCIATE PROFESSOR/READER	01	01
ASSISTANT PROFESSOR/LECTURER	-	03

10. Faculty Profile with name, qualification, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.:

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Dr. Debasis Acharya	Ph.D	Reader	Ore Deposit	32 years	Nil
Dr. Pradip Ku Das	Ph.D	Lecturer	Remote Sensing	21 years	Nil
Mrs. Binapani Biswal	M.Sc.	Lecturer	Ore Deposit	04 years	Nil
Mr. Rashmi Ranjan Behera	M.Sc.	Lecturer	Coal & Sedimentology	03 year	Nil



11. *List of senior visiting faculty:* Nil
12. *Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:* Nil
13. *Student Teacher Ratio (Programme-wise):* 16:1
14. *No. of academic support staff(technical)and administrative staff sanctioned & filled:*

POST	SANCTIONED	FILLED
DEMONSTRATOR	One	Two
STORE KEEPER	-	Nil
LAB. ATTENDANT	One	One

15. *Qualifications of teaching faculty with DSc/ D.Litt./Ph.D/MPhil/PG:*
Ph.D – 02; M.Sc. - 02
16. *Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received:* Three (03)
(i) Dr. Debasis Acharya- BRNS major Research Project of Rs.24.46L)
(ii)Dr. Debasis Acarya – UGC (Minor research Project) of Rs. 2,5 L
(ii) Dr, Pradip Kumar Das- UGC (Minor research Project) of Rs.1.9 L
17. *Departmental projects funded by DST-FIST,UGC, DBT, ICSSR etc. and total grants received:* Nil
18. *Research Centre/ facility recognized by the University:* No
19. *Publications:*

- ☐ a) *Publication per faculty* – Details given in the table below
- ☐ *Number of papers published in peer reviewed journals (national /international) by faculty and students –*

Name of the Faculty	No. of Paper Published
Dr. Debasis Acharya	16
Sri Pradip Kumar Das	02

- ☐ *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Nil*
- a. *Monographs* – Nil
- b. *Chapter in Books* –Nil
- c. *Books Edited* – Nil
- d. *Books with ISBN/ISSN numbers with details of publishers* – Nil
- e. *Citation Index* – Nil
- f. *SNIP* – Nil



- g. *SJR* – Nil
- h. *Impact factor* – Nil
- i. *h-index* – Nil

20. *Areas of consultancy and income generated:* Nil

21. *Faculty as member in a) National Committees b) International Committees c) Editorial Boards:*

1. **Dr. Debasis Acharya:**

- a) Founder member of SGAT(Society for Geologists and Allied Technologies)
- b) Member of Board of Studies of Utkal University, Bhubaneswar
- c) Member of Board of Studies, Nimapara Autonomous College, Odisha

2. **Dr. Pradip Kumar Das:**

- a) Member of Board of Studies of Banki Autonomous College, Odisha.
- b) Member of Conducting Board of Nimapara Autonomous College, Odisha

22. *Students projects:*

- a. *Percentage of students who have done in-house projects including inter departmental/programme:* 100% (Geology Field Project)
- b. *Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:* Nil

23. *Awards/recognitions received by faculty and students:* Nil

24. *List of eminent academicians and scientists/ visitors to the department:*

1. Prof. Satyananda Acharya, Former Vice Chancellor, Utkal University, Bhubaneswar
2. Dr. Rajgopal Mohanty, Joint Director, Atomic Mineral Division (AMD), Hyderabad
3. Prof. Prem Prakash Singh, Utkal University
4. Prof. Madhumita Das, Utkal University
5. Prof. Srirup Goswami, Sambalpur University, Odisha
6. Mr. Siben Mitra, Sr. Reader, HOD, Geology, A.S.College, Tirtol, Odisha
7. Mr. Pabitra Behera, Dy. Director, Fisheries, Govt. Of Odisha
8. Sri N. Palai, IAS, Director of Industries, Govt. Of Odisha
9. Prof. B. C. Guru, Adviser, KIIT University, Odisha
10. Mr. Kirti Ranjan Mallick, Utkal University, Odisha.

25. *Seminars/ Conferences/ Workshops organized and the sources of funding:*

a. *National:*

Science Fare on the occasion of Baliyatra from 6th to 9th November, 2014 in collaboration with Socio-Cultural Development Centre (SCDC), Odisha funded by DST, Government of India, New Delhi.

b. *International:* Nil

26. *Students profile programme/ course wise : NA*

NAME OF THE COURSE	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED FEMALE	PASS PERCENTAGE



27. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Geology Honours	97%	3%	nil

28. *How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:* Approximately 65%

29. Students Progression:

STUDENT PROGRESSION	PERCENTAGE AGAINST ENROLLED
UG to PG	90%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	- 05%
Entrepreneurs	-

30. Details of infrastructural facilities:

e. Library:

Approximately 100 books are available in departmental library for both staff and students

f. Internet facilities for staff & students:

Yes (broadband connection) only for staffs

g. Class rooms with ICT facilities: One class room with ICT facility

h. Laboratories: Two Laboratories

31. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input



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32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

SL NO	NAME OF INVITED SCIENTISTS/ACADEMICIANS	THEME OF SEMINAR
1	Prof. P.P Singh, Professor in Geology, Utkal University, Bhubaneswar	Archean Geology of Odisha with Special reference to Economic minerals
2	Prof. Madhumita Das, Professor in Geology, Utkal University, Bhubaneswar	Environmental Impact and Climate Change due to Industrial growth
3	Mr. Siben Mitra, Reader, A.S. College, Tirtol	Plate Tectonic and Continental drift
4	Prof. Srirup Goswami, Sambalpur University	Climatic change and its Impact on Extinction of Organism
5	Sri N. Palai, IAS, Director of Industries, Government of Odisha	Industrial growth of Odisha with development of Mining Activities
6	Prof B. C. Guru, Advisor, KIIT University	Geo-Zoological Exploration of Economic minerals- its current importance
7	Kirti Ranjan Mallick, Asst. Professor, Utkal University, Bhubaneswar	Understanding the Ocean-Climate Linkage with the help of Geological properties

33. Teaching methods adopted to improve student learning:

- (a) Audio Visual aid
- (b) Interactive learning and periodical assessment
- (c) Remedial classes
- (d) Extra classes for meritorious students

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Active participation of students in NSS, YRC, SDTP, NCC etc.:

(Details in Criterion 3.6 of Criteria wise input)

35. SWOC analysis of the Department and Future Plans:

Strength:

- Positive attitude of Faculties
- Close relationship with students
- Research activity
- Depth in subject
- Leadership quality



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Weakness:

- Infrastructural Deficit
- Insufficient Laboratory equipments

Opportunities:

- Interdisciplinary research activities in collaboration with national organizations
- Motivating students for better placement

Challenges:

- Getting permission from private and government mines for field tour
- Maintenance of Instruments with meager contingency

Future Plans:

- Increase of Honours seats in view of its demand
- Opening of P.G. Course in Geology



DEPARTMENT OF MATHEMATICS

1. *Name of the Department:* Mathematics
2. *Year of establishment:* 1970-1971
3. *Names of programmes/courses offered(UG,PG,M.Phil,Ph.D,Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):* Annual/CBCS
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:* Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:* Nil
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
PROFESSOR	-	-
ASSOCIATE PROFESSOR/READER	-	-
ASSISTANT PROFESSOR	04	04

10. *Faculty Profile with name, qualification, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.*

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Mr. Prashanta Kumar Mohanty	M.Sc	Lecturer	Operation Research and fluid Dynamics	20	Nil
Mr. Rishikanta Dash	M.Phil	Lecturer	Operation Research and Graph theory Fourier Series	12	Nil
Dr(Mrs) Kastury Ray	Ph.D	Lecturer	Operation Research and fluid Dynamics	04	Nil
Pandit Jagatananda Mishra	M.Phil	Lecturer	Fourier Series , Operation Research& Graph Theory	01	Nil



11. *List of senior visiting faculty:* Nil
12. *Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:* Nil
13. *Student Teacher Ratio (Programme-wise):* 16:1
14. *No. of academic support staff(technical)and administrative staff sanctioned & filled:* Nil
15. *Qualifications of teaching faculty with D.Sc/ D.Litt./Ph.D/M.Phil/PG:*
Ph.D-01; M.Phil-02; PG-01
16. *Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received:* Nil
17. *Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received:* Nil
18. *Research Centre/ facility recognized by the University:* No
19. *Publications:*
- ☐ a) *Publication per faculty –* Details Given below
 - ☐ *Number of papers published in peer reviewed journals (national /international) by faculty and students –*
Five papers published by Dr. Kasturi Ray
Three papers published by Pd. Jagatananda Mishra
 - ☐ *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) –* Nil
 - ☐ *Monographs –* Nil
 - ☐ *Chapter in Books –* Nil
 - ☐ *Books Edited –* Nil
 - ☐ *Books with ISBN/ISSN numbers with details of publishers –* Nil
 - ☐ *Citation Index –* 02
 - ☐ *SNIP –* Nil
 - ☐ *SJR –* Nil
 - ☐ *Impact factor –* Nil
 - ☐ *h-index –* Nil
20. *Areas of consultancy and income generated:* Nil
21. *Faculty as member in a) National Committees b) International Committees c) Editorial Boards:* Nil
22. *Students projects:*
- ☐ *Percentage of students who have done in-house projects including inter departmental/programme:* Nil
 - ☐ *Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:* Nil
23. *Awards/recognitions received by faculty and students:* Nil



24. List of eminent academicians and scientists/ visitors to the department:

Dr. Rajani Ballav Dash, Ex Reader, Ravenshaw University
 Dr. Nityananda Senapati, Ex Reader, Berhampur University
 Dr. Debashis Das, Bhadrak College
 Dr. H. B. Pattnaik, Reader, KIIT University
 Dr. Satyaranjan Mohapatra, SOA University

25. Seminars/ Conferences/ Workshops organized and the sources of funding:

- a) *National:* Nil
 b) *International:* Nil

26. Students profile programme/ course wise: NA

NAME OF THE COURSE (Refer question no.4)	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female

27. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Mathematics (Honours)	99%	1%	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

45% in an average during last four years

29. Students Progression:

STUDENT PROGRESSION	% AGAINST ENROLLED
UG to PG	60
PG to M.Phil	-
PG to Ph.D	-
Ph.D to Post Doctoral	-
Employed:	
o Campus Selection:	-
o Other than Campus Recruitment:	06
Entrepreneurs:	05



30. Details of infrastructural facilities:

- i. **Library:** Approximately 50 books are available in departmental library for both staff and students
- j. **Internet facilities for staff & students:** Yes (broadband connection) only for staffs
- k. **Class rooms with ICT facilities:** One class room with ICT facility
- l. **Laboratories:** One Laboratory

31. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input

32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

SL NO	NAME OF INVITED SCIENTISTS/ACADEMICIANS	THEME OF SEMINAR
1	Dr. H. B. Pattnaik, Reader, KIIT University	Measure Theory, Real Analysis
2	Dr. Nityananda Senapati, Ex Reader, Berhampur University	Fluid Dynamics
3	Dr. Rajani Ballav Dash, Ex Reader, Ravenshaw University	Operation Research, Linear programming problem
4	Dr. Debasish Das, Bharak College	Numerical Integration
5	Dr. Satyaranjan Mohapatra, SoA University	Matlab

33. Teaching methods adopted to improve student learning:

- (a) Interactive learning
- (b) Remedial classes

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Active participation of students in NSS, YRC, SDTP, NCC etc.

(Details in Criterion 3.6 of Criteria wise input)

35. SWOC analysis of the Department and Future Plans:

STRENGTH:

- Qualified, dedicated faculties
- Regular doubt clearing class and seminar
- Monthly test in both University and Entrance oriented pattern



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WEAKNESS:

- Inadequate infrastructure
- Inadequate books in Seminar library

OPPORTUNITIES:

- Scope for guidance in competitive examinations
- Scope for job in various sectors like IT, CA etc.

CHALLENGES:

- To make the subject interdisciplinary so that more students will be attracted

Future Plan of the Department

- Opening of P.G. Classes in Mathematics
- Opening of UG Class in Statistics



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DEPARTMENT OF PHYSICS

1. **Name of the Department:** PHYSICS
2. **Year of establishment:** 1967-68
3. **Names of programmes/courses offered(UG, PG, M.Phil, Ph.D, Integrated Masters, Integrated Ph.D etc.) :** UG
4. **Names of Interdisciplinary courses and the Departments/Units involved:** Nil
5. **Annual/Semester/Choice based credit system(Programme wise):** Annual/CBCS
6. **Participation of the Department in the courses offered by other Departments:** Nil
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
8. **Details of courses/ programmes discontinued (if any) with reasons:** Nil
9. **No. of teaching post:**

POST	SANCTIONED	FILLED
Professors	-	-
Associate Professors/Readers	02	02
Assistant Professors/Lecturers	08	08

10. Faculty Profile with name, qualification, Designation, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Dr. Jayanta Kumar Das	Ph.D.	Reader	Electronics	32	05
Mr. Krishna Chandra Mohapatra	M.Sc.	Reader	Electronics	31	Nil
Dr. Akash Sahu	Ph.D	Lecturer	Plasma Physics	18	Nil
Dr. Sunil Ranjan Biswal	Ph.D	Lecturer	Electronics	20	Nil
Lt. Akshaya Kumar Dash	M.Sc.	Lecturer	Spectroscopy	07	Nil
Mr. Shreeman Pattanaik	M.Sc.	Lecturer	Spectroscopy	06	Nil
Mrs. Sumita Das	M.Sc.	Lecturer	Plasma Physics	05	Nil



Fear of Lord is the Beginning of Wisdom

Mrs. Mamata Baliarsingh	M.Sc.	Lecturer	Electronics	03	Nil
Mrs. Shanti Sudha Meher	M.Sc.	Lecturer	Electronics	02	Nil
Dr. Jayashree Mohanty	Ph.D	Lecturer	Electronics	02	Nil

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student Teacher Ratio (Programme-wise): 16:1

14. No. of academic support staff(technical)and administrative staff sanctioned & filled:

POST	SANCTIONED	FILLED
DEMONSTRATOR	04	04
STORE KEEPER	01	01
LAB. ATTENDANT	04	04
Mechanic	01	01

15. Qualifications of teaching faculty with DSc/ D.Litt./Ph.D/MPhil/PG:

Ph.D-04; PG- 06

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received: Nil

18. Research Centre/ facility recognized by the University:

Yes (North Odisha University)

19. Publications:

- ☐ a) **Publication per faculty** – Details Given in the Table below
- ☐ **Number of papers published in peer reviewed journals (national /international) by faculty and students –**

Name of the Faculty	No. of Paper Published
Dr. Jayanta Kumar Das	30
Dr. Akash Sahu	05
Dr. Sunil Ranjan Biswal	05
Dr. Jayashree Mohanty	06

- ☐ **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Nil**

☐ **Monographs – Nil**

☐ **Chapter in Books – one(Plasma & Fusion Science, ISBN 978177884532 by Dr.**



Fear of Lord is the Beginning of Wisdom

Gouri Shankar Sahoo, Apple Academia Press, USA)

- ☐ **Books Edited** – One (Dictionary of Science & Technology. Eng-Eng-Odia by Dr. G.S. Sahoo, New Age Publication, Cuttack
- ☐ **Books with ISBN/ISSN numbers with details of publishers** – 01
B.Sc. Physics on Quantum Mechanics & Electronics by Dr. Jayanta Kumar Das, Published by Kalyani Publishers, New Delhi, ISBN 81-7663-752-1
- ☐ **Citation Index** – 25
- ☐ **SNIP** – Nil
- ☐ **SJR** – Nil
- ☐ **Impact factor** – Nil
- ☐ **h-index** – Nil

20. Areas of consultancy and income generated: Nil

21. Faculty as member in a) National Committees b) International Committees c) Editorial Boards:

(I) Dr. Jayanta Kumar Das

a) Referee of AMSE Journal, FRANCE

b) Referee of Indian Journal of Science and Technology

(II) Dr. Sunil Ranjan Biswal

Referee of AMSE Journal, France

22. Students projects:

- ☐ **Percentage of students who have done in-house projects including inter departmental/programme:** Nil
- ☐ **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:** Nil

23. Awards/recognitions received by faculty and students:

(i) Faculty:

Name	Award	Organization
Dr. Jayanta Kumar Das	Best Teacher for 2014	Board of Diocesan Institutions, Odisha Under CNI, New Delhi
Dr. Sunil Ranjan Biswal	Best Teacher for 2015	Board of Diocesan Institutions, Odisha Under CNI, New Delhi

(ii) Student:

Name	Award	Organization
Deepti Ranjan Sahoo	Highest mark in Physics Honours	Bandana Chowdhury Memorial Award, 2014
Snigdha Rani Swain	Highest mark in Physics Honours	K.B. Shankar Memorial Award, 2014

24. List of eminent academicians and scientists/ visitors to the department:

1. Dr. S.I. Hossain, Dy. Director, Dept. of Higher Education, Odisha
2. Prof Anurag Sharma, Delhi University
3. Prof E.K. Sharma, Delhi University
4. Dr. Satya Prakash Sahoo, I.O.P, Bhubaneswar
5. Prof. Bedanga Dasmohanty, NISER, BBSR



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25. Seminars/ Conferences/ Workshops organized and the sources of funding:

a) *National:* Nil

b) *International:* Nil

26. Students profile programme/ course wise: NA

NAME OF THE COURSE (Refer question no.4)	APPLICATION S RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female

27. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Physics Honours	97%	3%	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

50% in an average during last four years

29. Students Progression:

STUDENT PROGRESSION	% AGAINST ENROLLED
UG to PG	65
PG to M.Phil	-
PG to Ph.D	-
Ph.D to Post Doctoral	-
Employed:	
o Campus Selection:	-
o Other than Campus Recruitment:	10
Entrepreneurs:	10



30. Details of infrastructural facilities:

a. Library:

Approximately 200 books are available in departmental library for both staff and students

b. Internet facilities for staff & students: yes(broadband connection) only for staffs

c. Class rooms with ICT facilities: One class room with ICT facility

d. Laboratories: Two General Laboratories, One Dark Room(Optics lab.), One Research Room, One computer Lab., One digital Lab.

31. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input

32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

Sl No	NAME OF INVITED SCIENTISTS/ACADEMICIANS	THEME OF SEMINAR
1	Dr. S. I. Hossain, Dy. Director, Dept of Higher Education, Odisha, Bhubaneswar	Non-Linear Optics
2	Dr. Anurag Sharma, Delhi University	Optical Fibre Telecommunication
3	Prof. E. K. Sharma, Delhi University	Semiconductor Laser & Optical Fiber Laser
4	Dr. Satya Prakash Sahoo, Institute Of Physics, Bhubaneswar	Exiting Optical properties of semiconductor nanomaterials
5	Prof. Bedanga Dasmohanty, NISER, BBSR	Fundamental constituents of matter and origin of mass

33. Teaching methods adopted to improve student learning:

- (a) Audio Visual aid
- (b) Interactive learning
- (c) Remedial classes are taken

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Active participation of students in NSS, YRC, SDTP, NCC etc. (Details in Criterion 3.6 of Criteria wise input)



35. SWOC analysis of the Department and Future Plans:

STRENGTH:

- Qualified, experienced and committed faculty
- Good Research activities
- Regular doubt clearing class and seminar
- Monthly test in both University and entrance oriented pattern
- Feedback from the teacher after assessment

WEAKNESS:

- Inadequate books in departmental library
- Inadequate modern laboratory equipments

OPPORTUNITIES:

- Excellent job market especially in public sector and other Government Organization
- Scope for Research and training

CHALLENGES:

- To make the subject interdisciplinary

Future Plan of the Department

- Opening of P.G. Classes
- Establishment of a workshop room for maintenance of instruments



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DEPARTMENT OF ZOOLOGY

1. *Name of the Department:* ZOOLOGY
2. *Year of establishment:* 1971-72
3. *Names of programmes/courses offered(UG, PG, M.Phil, Ph.D, Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):* Annual/CBCS
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:* Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:* Nil
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
PROFESSOR	-	-
ASSOCIATE PROFESSOR/READER	-	-
ASSISTANT PROFESSOR/LECTURER	6	6

10. Faculty Profile with name, qualification, Designation, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Dr. Rajesh Behera	Ph.D	Lecturer	Fisheries	20	02
Dr. Tejeswar Rath	Ph.D	Lecturer	Environmental Biology	17	Nil
Mrs Sonali Dutta	M. Phil, B.Ed, M,Ed (Ph.D continuing)	Lecturer	Cell Physiology and Biochemistry	08	Nil
Mr. Narahari praharaj	M.Phil	Lecturer	Cytogenetics	08	Nil



Fear of Lord is the Beginning of Wisdom

Dr. Satyabrata Mohanty	Ph.D	Lecturer	Biochemistry	15	Nil
Ms. Reema Das	M.Phil	Lecturer	Cell and Molecular Biology	01	Nil

- 11. List of senior visiting faculty:** Nil
- 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:** Nil
- 13. Student Teacher Ratio (Programme-wise):** 16:1
- 14. No. of academic support staff(technical)and administrative staff sanctioned & filled:**

POST	SANCTIONED	FILLED
DEMONSTRATOR	02	02
LAB. ATTENDANT	02	02

- 15. Qualifications of teaching faculty with D.Sc/ D.Litt./Ph.D/M.Phil/PG:**
Ph.D- 03 ; M.Phil- 03
- 16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received:** 01(sanctioned by UGC-MRP)
- 17. Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received:** 01(sanctioned by UGC-MRP)
- 18. Research Centre/ facility recognized by the University:** Nil
- 19. Publications:**
- ☐ a) **Publication per faculty** – Details Given in the Table below
 - ☐ **Number of papers published in peer reviewed journals (national /international) by faculty and students:**

Name of the Faculty	No. of Papers Published
Dr. Rajesh Behera	15
Mrs Sonali Dutta	04
Dr. Satyabrata Mohanty	01

- ☐ **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)** – Nil
- ☐ **Monographs** – Nil
- ☐ **Chapter in Books** – Nil
- ☐ **Books Edited** – Nil



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☐ **Books with ISBN/ISSN numbers with details of publishers – 03**

1. MINOR ELECTIVE BIOLOGY FOR PHYSICAL SCIENCES – A.K.MISHRA PUBLICATIONS
2. +2 PRACTICAL ZOOLOGY– NEW AGE PUBLICATIONS
3. 3 .ENVIRONMENTAL EDUCATION - NEW AGE PUBLICATIONS

- ☐ **Citation Index –** 25
- ☐ **SNIP –** Nil
- ☐ **SJR –** Nil
- ☐ **Impact factor –** Nil
- ☐ **h-index –** Nil

20. Areas of consultancy and income generated: Nil

21. Faculty as member in a) National Committees b) International Committees c) Editorial Boards: Nil

22. Students projects:

- ☐ **Percentage of students who have done in-house projects including inter departmental/programme:** Nil
- ☐ **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:** Nil

23. Awards/recognitions received by faculty and students:

Student:

Name	Award	Organization
Sritapa Mishra	1. Awarded 1 st runner up by chief minister, Odisha. 2.Special recommendation in the model united nations	Inter-college debate competition held by new Indian express at Odisha literary fest Ravenshaw university on July, 2014.

24. List of eminent academicians and scientists/ visitors to the department:

1. Dr.Milan Kumar Behera, Retd. Principal and Reader in zoology, Rajendra college, Bolangir.
2. Dr.S.C.Routray, Reader and H.O.D., Bali College, Bali.
3. Dr.Biswakanth Kar, R.A., Jadavpur University.
4. Dr.Biswakanth Kar, R.A., Jadavpur University

25. Seminars/ Conferences/ Workshops organized and the sources of funding:

- ☐ **National:** Nil
- ☐ **International:** Nil

26. Students profile programme/ course wise: NA



Fear of Lord is the Beginning of Wisdom

NAME OF THE COURSE (Refer question no.4)	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female

27. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Zoology (Honours)	98%	2%	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

50% in an average during last four years

29. Students Progression:

STUDENT PROGRESSION	% AGAINST ENROLLED
UG to PG	68
PG to M.Phil	-
PG to Ph.D	-
Ph.D to Post Doctoral	-
Employed:	
o Campus Selection:	-
o Other than Campus Recruitment:	05
Entrepreneurs:	05



30. Details of infrastructural facilities:

a. Library:

Approximately 200 books are available in departmental library for both staff and students

b. Internet facilities for staff & students:

Yes(broadband connection) only for staffs

c. Class rooms with ICT facilities: One class room with ICT facility

d. Laboratories: (02)Two Laboratories

31. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input

32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

Sl No	NAME OF INVITED SCIENTISTS/ACADEMICIANS	THEME OF SEMINAR
1	Dr.Milan Kumar Behera, Retd. Principal and reader in zoology, Rajendra college, Bolangir.	Probiotics and Prebiotics
2	Dr.S.C.Routray, reader and H.O.D, Bali college, Bali.	Probiotics and Prebiotics
3	Dr.Biswakanth kar, R.A., Jadavpur university.	ethno pharmacology
4	Dr.Biswakanth kar, RA., Jadavpur university	traditional therapeutics in modern treatment

33. Teaching methods adopted to improve student learning:

- (a) Audio Visual aid
- (b) Interactive learning
- (c) Remedial classes are taken

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Active participation of students in NSS, YRC, SDTP, NCC etc.
(Details in Criterion 3.6 of Criteria wise input)

35. SWOC analysis of the Department and Future Plans: five points on, weakness, opportunities & challenge

STRENGTH

- Discipline and Team work
- Determination, Dedication and Passion for the subject
- Continuous evolution in the subject(because without evolution a teacher can not do justice to his/her student)
- Empathetism
- Creativeness in teaching methodologies



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Future Plans:

- To continuously try and create good students who will be a matter of pride for the college. Because a college is known from its students and the results they produce
- To form a research lab in the department so that all our departmental staffs can easily bring projects and carry on their research work
- To write as many books and research papers as possible
- To motivate Teachers and students to attend conferences, seminars, workshops etc
- To successfully organize a national seminar in our college in this current session with prior support of my staffs



DEPARTMENT OF ENGLISH

1. *Name of the Department:* ENGLISH
2. *Year of establishment:* 1944
3. *Names of programmes/courses offered(UG, PG, M.Phil, Ph.D, Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):* Annual/CBCS
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:* Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:* Nil
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
Professors	-	-
Associate Professors/Readers	-	-
Assistant Professors/Lecturers	02	02

10. *Faculty Profile with name, qualification, Designation, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.*

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Mrs. Munira Salim	M.A (Ph.D Continuing)	Lecturer	Linguistics, Indian Literature	10	Nil
Ms. Binita Panda	M.Phil	Lecturer	Linguistics, American Literature	05	Nil

11. *List of senior visiting faculty:* Nil



12. *Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:* Nil
13. *Student Teacher Ratio (Programme-wise):* Compulsory subject
14. *No. of academic support staff(technical)and administrative staff sanctioned & filled:* NA
15. *Qualifications of teaching faculty with D.Sc/ D.Litt./Ph.D/M.Phil/PG:*
M. Phil-01; PG- 01
16. *Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received:* Nil
17. *Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received:* Nil
18. *Research Centre/ facility recognized by the University:* No
19. *Publications:*
- ☐ a) *Publication per faculty* -one
 - ☐ *Number of papers published in peer reviewed journals (national /international) by faculty and students* – Nil
 - ☐ *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)* – Nil
 - ☐ *Monographs* – Nil
 - ☐ *Chapter in Books* – Nil
 - ☐ *Books Edited* – one(Rethinking Environment : literature, Ethics & Praxis By Mrs. Munira Salim)
 - ☐ *Books with ISBN/ISSN numbers with details of publishers* – Nil
 - ☐ *Citation Index* – Nil
 - ☐ *SNIP* – Nil
 - ☐ *SJR* – Nil
 - ☐ *Impact factor* – Nil
 - ☐ *h-index* – Nil
26. *Areas of consultancy and income generated:* Nil
27. *Faculty as member in a) National Committees b) International Committees c) Editorial Boards:* Nil
28. *Students projects:*
- ☐ *Percentage of students who have done in-house projects including inter departmental/programme:* Nil
 - ☐ *Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:* Nil
29. *Awards/recognitions received by faculty and students:* Nil
30. *List of eminent academicians and scientists/ visitors to the department:* Nil



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31. Seminars/ Conferences/ Workshops organized and the sources of funding

a) *National:* Nil

b) *International:* Nil

30. Students profile programme/ course wise: NA

NAME OF THE COURSE (Refer question no.4)	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female

31. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
English (Compulsory)	99	01	Nil

32. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NA

33. Students Progression:

STUDENT PROGRESSION	% AGAINST ENROLLED
UG to PG	-
PG to M.Phil	-
PG to Ph.D	-
Ph.D to Post Doctoral	-
Employed:	
o Campus Selection:	-
o Other than Campus Recruitment:	-
Entrepreneurs:	-



31. Details of infrastructural facilities:

- a. **Library:** Nil
- b. **Internet facilities for staff & students:** yes(broadband connection) only for staffs
- c. **Class rooms with ICT facilities:** Nil
- d. **Laboratories:** Language Laboratory

32. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input

33. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

Nil

34. Teaching methods adopted to improve student learning:

- (a) Audio Visual aid
- (b) Interactive learning
- (c) Remedial classes are taken

35. Participation in Institutional Social Responsibility (ISR) and Extension activities: Active participation of students in NSS, YRC, SDTP, NCC etc.

(Details in Criterion 3.6 of Criteria wise input)

36. SWOC analysis of the Department and Future Plans:

STRENGTH:

- Qualified, committed faculty
- Feedback from the teacher after assessment
- Good oratory and communicative skill

WEAKNESS:

- Infrastructural constraint

OPPORTUNITIES:

- Scope for Research and training

CHALLENGES:

- To make the classroom more interactive

Future Plan of the Department

- Establishment of ICT based classroom



DEPARTMENT OF HINDI

1. *Name of the Department:* HINDI
2. *Year of establishment:* 1944
3. *Names of programmes/courses offered(UG, PG, M.Phil, Ph.D, Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):* Annual/CBCS
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:* Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:* Nil
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
Professors	-	-
Associate Professors/Readers	-	-
Assistant Professors/Lecturers	01	01

10. *Faculty Profile with name, qualification, Designation, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.*

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Dr. Jitendra Kumar Sinha	Ph.D	Lecturer	Natak aur Rangmanch, Gender System in Hindi	24	06

11. *List of senior visiting faculty:* Nil
12. *Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:* Nil
13. *Student Teacher Ratio (Programme-wise):* Compulsory subject
14. *No. of academic support staff(technical)and administrative staff sanctioned & filled:* NA
15. *Qualifications of teaching faculty with DSc/ D.Litt./Ph.D/MPhil/PG:* Ph.D - 01



16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received: Nil

18. Research Centre/ facility recognized by the University: No

19. Publications:

- ☐ a) Publication per faculty - 12
- ☐ Number of papers published in peer reviewed journals (national /international) by faculty and students – 12
- ☐ Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Nil
- ☐ Monographs – Nil
- ☐ Chapter in Books – Nil
- ☐ Books Edited – Nil
- ☐ Books with ISBN/ISSN numbers with details of publishers – Nil
- ☐ Citation Index – 05
- ☐ SNIP – Nil
- ☐ SJR – Nil
- ☐ Impact factor – Nil
- ☐ h-index – Nil

20. Areas of consultancy and income generated: Nil

21. Faculty as member in a) National Committees b) International Committees c) Editorial Boards:

- ☐ Dainik Jagaran
- ☐ Nababharat
- ☐ Sanmarg

22. Students projects:

- ☐ Percentage of students who have done in-house projects including inter departmental/programme: Nil
- ☐ Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: Nil

23. Awards/recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists/ visitors to the department: Nil

25. Seminars/ Conferences/ Workshops organized and the sources of funding

a) National: Nil

b) International: Nil

26. Students profile programme/ course wise: NA

NAME OF THE COURSE (Refer question no.4)	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female



27. Diversity of students:

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Hindi (Compulsory)	99	01	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

NA

29. Students Progression:

STUDENT PROGRESSION	PERCENTAGE AGAINST ENROLLED
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	-
Entrepreneurs	

30. Details of infrastructural facilities:

- ☐ **Library:** Nil
- ☐ **Internet facilities for staff & students:** yes(broadband connection) only for staffs
- ☐ **Class rooms with ICT facilities:** Nil
- ☐ **Laboratories:** Nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input

32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

Nil

33. Teaching methods adopted to improve student learning:

- (a) Interactive learning
- (b) Remedial classes are taken

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Active participation of students in NSS, YRC, SDTP, NCC etc.
(Details in Criterion 3.6 of Criteria wise input)



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35. SWOC analysis of the Department and Future Plans:

STRENGTH:

- Qualified faculty
- Updated Research Activity

WEAKNESS:

- Infrastructural constraint

OPPORTUNITIES:

- Scope for training

CHALLENGES:

- To make the classroom more interactive

Future Plan of the Department

- Establishment of ICT based classroom



DEPARTMENT OF ODIA

1. *Name of the Department:* ODIA
2. *Year of establishment:* 1944
3. *Names of programmes/courses offered(UG, PG, M.Phil, Ph.D, Integrated Masters, Integrated Ph.D etc.) :* UG
4. *Names of Interdisciplinary courses and the Departments/Units involved:* Nil
5. *Annual/Semester/Choice based credit system(Programme wise):* Annual/CBCS
6. *Participation of the Department in the courses offered by other Departments:* Nil
7. *Courses in collaboration with other universities, industries, foreign institutions, etc.:* Nil
8. *Details of courses/ programmes discontinued (if any) with reasons:* Nil
9. *No. of teaching post:*

POST	SANCTIONED	FILLED
Professors	-	-
Associate Professors/Readers	-	-
Assistant Professors/Lecturers	02	01

10. Faculty Profile with name, qualification, Designation, Specialization (D.Sc/D.Litt/Ph.D/M.Phil) etc.

NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF Ph.D STUDENTS GUIDED IN LAST FOUR YEARS
Mrs. Madhusmita Padhy	M.Phil (Ph.D Continuing)	Lecturer	Bhasatatwa	03	Nil
Dr. N.C. Sarangi	Ph.D, D.Lit	Retd. Reader & Visiting faculty	Modern/ Fakirmohan	37	13(Awarded) 1(submitted) 7(continuing)

11. *List of senior visiting faculty:* One
12. *Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:* NA
13. *Student Teacher Ratio (Programme-wise):* Compulsory subject



14. *No. of academic support staff(technical)and administrative staff sanctioned & filled:* NA
15. *Qualifications of teaching faculty with DSc/ D.Litt./Ph.D/MPhil/PG:*
M.Phil- 01
16. *Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received:* Nil
17. *Departmental projects funded by DST-FIST;UGC; DBT; ICSSR etc. and total grants received:* Nil
18. *Research Centre/ facility recognized by the University:* No
19. *Publications:*
- ☐ *a) Publication per faculty -* Nil
 - ☐ *Number of papers published in peer reviewed journals (national /international) by faculty and students – Nil*
 - ☐ *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Nil*
 - ☐ *Monographs –* Nil
 - ☐ *Chapter in Books –* Nil
 - ☐ *Books Edited –* Nil
 - ☐ *Books with ISBN/ISSN numbers with details of publishers – Nil*
 - ☐ *Citation Index –* Nil
 - ☐ *SNIP –* Nil
 - ☐ *SJR –* Nil
 - ☐ *Impact factor –* Nil
 - ☐ *h-index –* Nil
20. *Areas of consultancy and income generated:* Nil
21. *Faculty as member in a) National Committees b) International Committees c) Editorial Boards:* Nil
22. *Students projects:*
- ☐ *Percentage of students who have done in-house projects including inter departmental/programme:* Nil
 - ☐ *Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:* Nil
23. *Awards/recognitions received by faculty and students:* Nil
24. *List of eminent academicians and scientists/ visitors to the department:* Nil
25. *Seminars/ Conferences/ Workshops organized and the sources of funding:*
- a)National:* Nil
 - b) International:* Nil
26. *Students profile programme/ course wise:* NA



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NAME OF THE COURSE (Refer question no.4)	APPLICATIONS RECEIVED	FILLED	SELECTED	ENROLLED		PASS PERCENTAGE
				*M	*F	

*M-Male *F-Female

27. Diversity of students.

Name of the Course	% of student from the same state	% of students from other state	% of students from abroad
Odia	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

NA

29. Students Progression:

STUDENT PROGRESSION	% AGAINST ENROLLED
UG to PG	-
PG to M.Phil	-
PG to Ph.D	-
Ph.D to Post Doctoral	-
Employed:	
o Campus Selection:	-
o Other than Campus Recruitment:	-
Entrepreneurs:	-

30. Details of infrastructural facilities:

- Library:** Nil
- Internet facilities for staff & students:** Yes(broadband connection) only for staffs
- Class rooms with ICT facilities:** Nil
- Laboratories:** Nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

Details given in Criterion 5.1.3 of Criteria wise input

32. Details on student enrichment programmes (Special Lecturers/Workshop/Seminar) with external experts:

Nil



33. Teaching methods adopted to improve student learning:

- (a) Interactive learning
- (b) Remedial classes are taken

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Active participation of students in NSS, YRC, SDTP, NCC etc.

(Details in Criterion 3.6 of Criteria wise input)

35. SWOC analysis of the Department and Future Plans:

STRENGTH:

- Dedicated faculty
- Good oratory and communicative skill

WEAKNESS:

- Infrastructural constraint

OPPORTUNITIES:

- Scope for Research

CHALLENGES:

- To make the classroom more interactive

Future Plan of the Department

- Establishment of ICT based classroom



Post-Accreditation Initiatives

The College was Assessed and Accredited by esteemed members of the NAAC Peer Team consisting of Prof. V. Balamohandas, V.C.Acharya Nagarjuna University, Guntur, Andhra Pradesh as the Chairperson and Prof.Pradip Narayan Ghosh, Department of Physics, University of Kolkata, West Bengal & Dr.(Mrs.) Manju Sinha, Principal, Ranchi Women's College, Ranchi, Jharkhand as Members with Dr.M.S.Shyamsundar, Deputy Advisor, NAAC, Bangalore as Coordinating Officer on July 13-14, 2006. In its sincere endeavor to make an overall assessment, the Peer Team carefully perused and analyzed the Self Study Report and verified all the documents during their interaction with different academic, administrative and executive bodies which throws light on strength, performance and achievement of the institution. The Institution acknowledged the commendations made by the Peer Team. After careful introspection of its recommendations, the institution tried its best to overcome the shortcomings with its limited resources. The achievements acquired in this regard during post-accreditation period are summarized as follows.

- ❖ The Institution is successful in constructing a new block by arranging financial aid from MP LAD fund of honorable member of Rajya Sabha S.J. Pyari Mohan Mohapatra. Further with the financial grant from UGC during XIth plan period one well-equipped gymnasium has been constructed above the Sports Complex of the College. The Girls Hostel construction was in progress but got halted due to some legal issues. To overcome the problem, the management has made alternative arrangement by allowing the girls students to reside at Thomson Women's Hostel, Mission Road, Cuttack. One separate wing in the first floor with 40 beds is reserved exclusively for the girls students of the college till its own hostel functions.
- ❖ The College applied for opening Honours subjects in Geology, Computer Science, and BITM etc. to the concerned authority. But till now permission was granted to open Geology as Honours Subject and the college has successfully opened the subject. Communicative English Cell is established with the help of English Department of the college which monitors the Soft Skill development of the students/staffs. The College is organizing crash course on Computer application to update the IT skills of the staffs. With an aim to meet the existing demand of the students, recently we have applied to enhance the intake capacity in Geology, Zoology and Botany Honours. The college has also applied for opening honours in Computer Science to the Regional Director, Higher Education, Odisha.
- ❖ Every department in the College is organizing Departmental Seminars on a regular basis where both Teachers and Students are participating and delivering on different topics. Besides, Refresher and Orientation courses, many teachers are also participating in different National and International Seminars in / outside the country.
- ❖ The Alumni Body conducts several social service programmes and friendly Cricket tournament in the college. They also participate in various activities organized by the



Fear of Lord is the Beginning of Wisdom

College. Furthermore, to enhance the image of the institution, reputed Alumni have been invited and felicitated. The association provides feedback on the curricular, co-curricular, infrastructural and other aspects of institution and gives valuable suggestions for the overall growth and development of the college in various spheres.

- During the past few years, research activities in our college are on full swing. About 75% of teachers are engaged in active research. Also four teachers are recognized as supervisors for Ph.D. degree. Two minor research projects have been successfully completed. One major project in Geo-Chemistry (sanctioned by BRNS, DAE) and one minor research project (sanctioned by UGC) are continuing in the research laboratory of our college. Recently four more minor research projects are sanctioned by UGC. The number of research publications in journals of national/ international repute has been increased significantly. The college management has taken commendable step to motivate faculty members to indulge in research activities by announcing monetary incentives/letter of appreciation for research work and publication. Also, the management has approved increments to the management payee faculties after the award of Ph.D degree.
- The college gives utmost importance to the attendance of students in theory as well as in practical classes. Honours students in each department are awarded for highest attendance in annual departmental seminar function. During the last few years, teachers who do not go on leave during the working days in a year except duty leaves are recognized and awarded by the Management of the college.
- The college has bridged the gap between theory and practice, by establishing Career Counseling Cell as a part of quality improvement strategy. Many activities like interactive sessions, panel discussions and guest lectures and meetings are organized to inform the students about the possible job opportunities. Large number of students have benefited in getting placement offers.
- The college has its own Women Grievance Cell / Sexual Harassment Redressal Cell where some senior lady teacher takes necessary steps to create woman empowerment. Besides that the college is organizing self defense training on a regular basis. Our college is one of the nodal colleges which foster five different colleges in organizing self defense training.
- The institution has tried its best to improve the library resources for students and staffs. Internet and reprographic facilities are available in the library. In the reading room, students are encouraged to read reference books besides their text books. The librarian and the staff render all possible help to the students.
- A Network Resource Centre is in action with computer and internet facilities with the financial help from UGC during XIth plan period. It is updated and renamed as
- ICT during the UGC XIIth plan period. Every department of the college has been provided with internet facility by the UGC grant.
- The laboratories of all the Departments are equipped with latest instrument and every year the college management is providing funds for purchase of basic needs. With the help from UGC grant departments are also purchasing latest equipments needed for the students.



Fear of Lord is the Beginning of Wisdom

- All the Science departments are equipped with LCD Projector and Audio Visual equipments. For the first time in the state, the college is going to implement Smart Class in all the Lecturer theatres for teaching using latest techniques of animations and models.
- With the financial assistance of UGC during XIth plan period, the college is well equipped with a gymnasium, where the students and staffs are undergoing physical exercises under the practical supervision of P.E.T. and other trained staffs of the college.
- A spacious, hygienic canteen is running successfully in the college where there is separate provision for staffs, students. The canteen is being managed by an experienced vendor.
- Students of all the departments, especially from Botany, N.S.S. (Boys and Girls wing), and Youth Red Cross are motivated in such a way that it has become a regular practice for them to clean the campus and make plantation in regular interval.
- With financial assistance from UGC in the XIth Plan period, the college had started construction of Ladies Hostel, very near to its campus (but due to some legal complicity, the construction work stopped halfway and college is awaiting approval from Cuttack Development Authority (CDA) for finishing up the hostel. However for the betterment of students, college has made arrangement with private hostels where both boys and girls from distant, sub-urban areas are getting accommodation.
- As the State Government does not have any provision to allow Non-Government Aided College to open Post-Graduate course, the college is exploring other ways for opening Self Financing courses in under-graduate level which will help them in selection of P.G. courses in future.
- The college is preparing to apply for autonomous status soon.

During post-accreditation period, the college has implemented several academic and administrative reforms which have been recommended by peer team during their visit. Subsequent assessment and accreditation will provide an opportunity for further improvement in the institutional performance to reach new horizon of excellence.



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DECLARATION BY HEAD OF THE INSTITUTION

I Certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge.

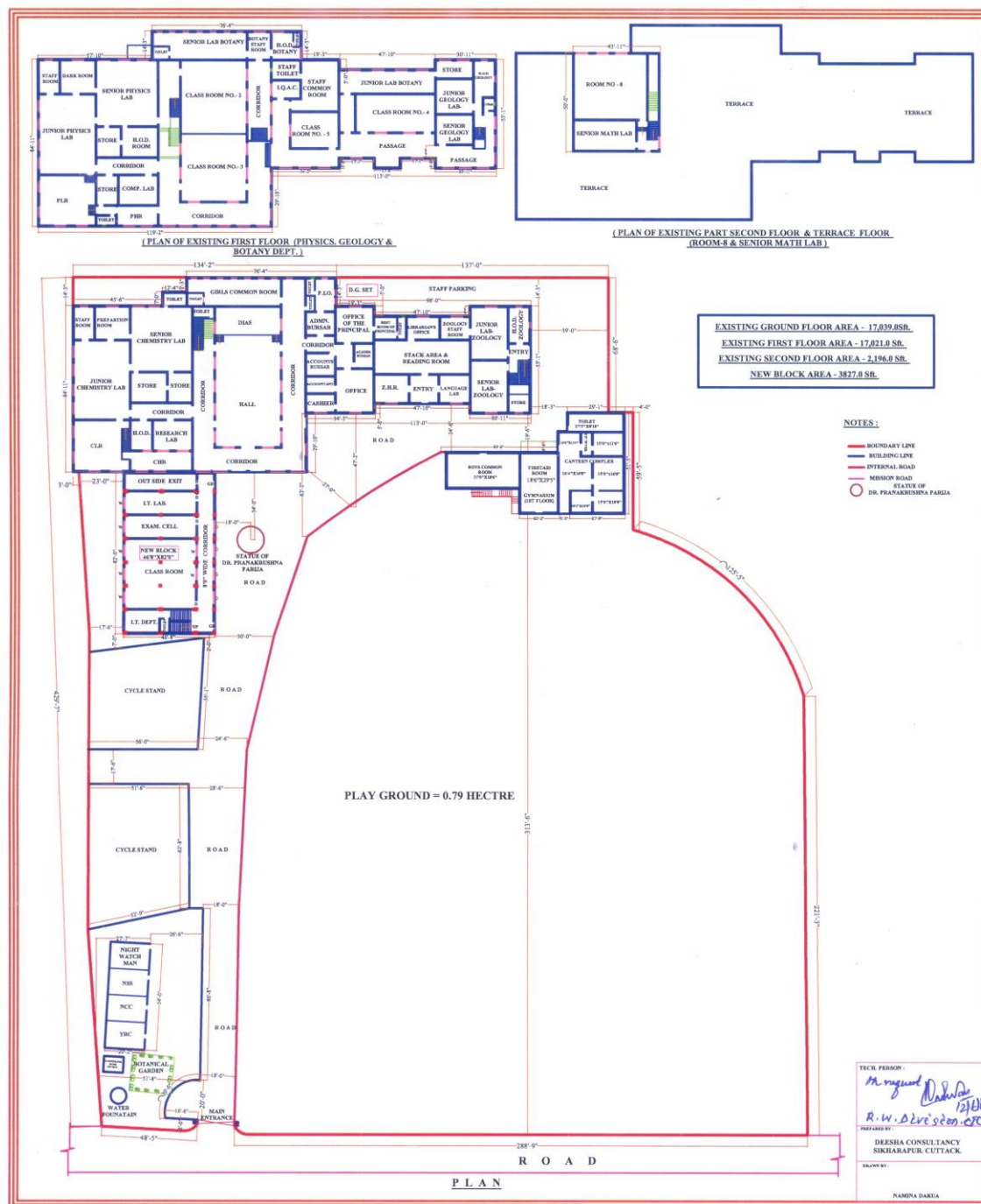
This SSR is prepared by the Institution after internal discussions, and no part thereof has been outsourced.

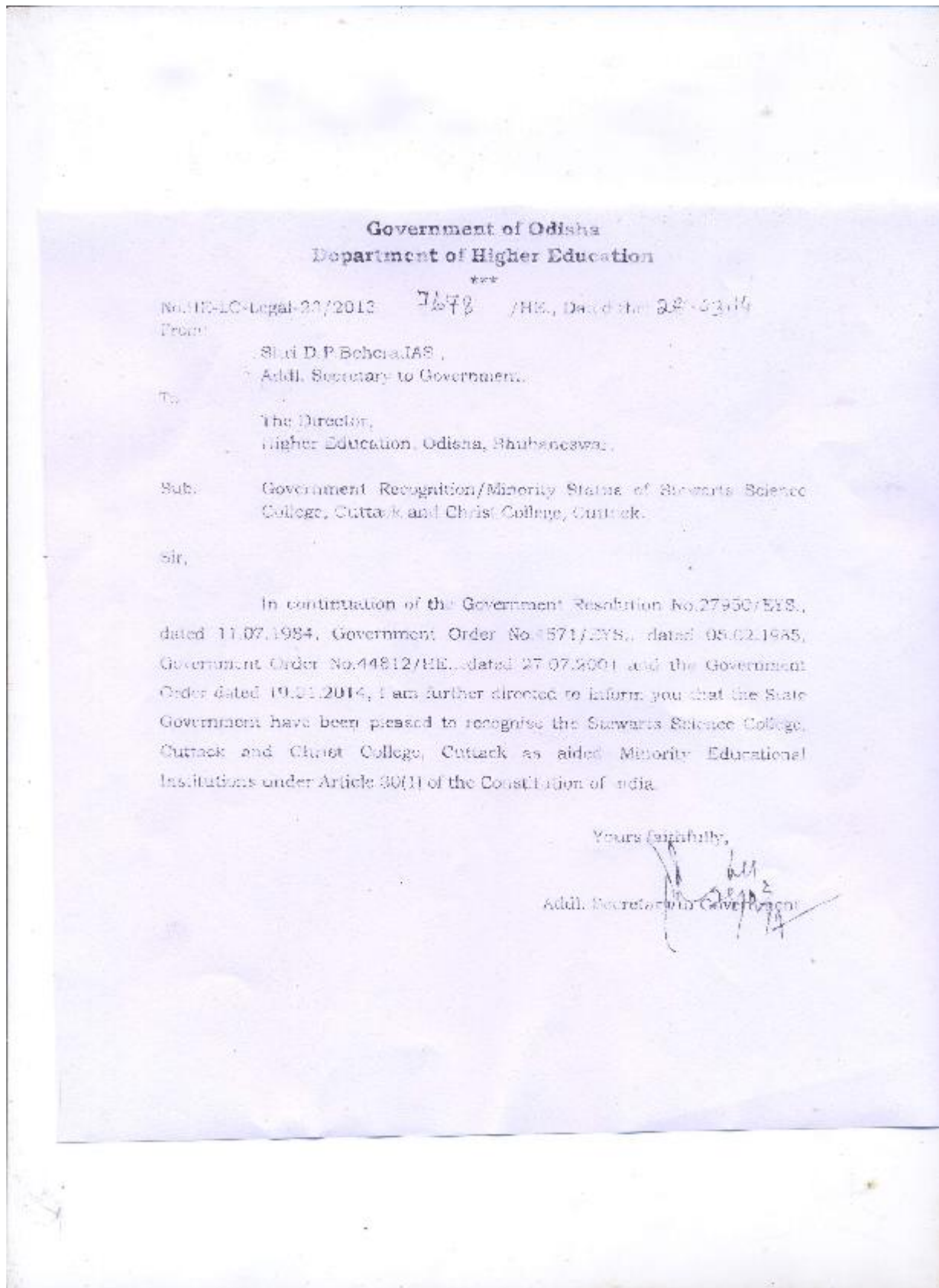
I am aware that the Peer Team will validate the information provided in this SSR during the Peer Team visit.

Place: CUTTACK
Date: 30.06.17


Signature of the Head of the Institution
Principal i/c
Stewart Science College
Cuttack

Building Plan of College







Fear of Lord is the Beginning of Wisdom

Annexure – II B

4

Government of Odisha
Education & Youth Services Department

No. YU. 8.15/84, 445/11 BYS Dt. 5.2.85

From
Shri K. H. Acharya, O.C.S.,
Deputy Secretary to Govt.

To
The Director,
Higher Education, Orissa.

Subj: Approval of the relief of the teachers of the
Ministry Minority Institution undergoing
Teacher Fellowship.

Sir,
I am directed to invite a reference to your letter
No. 4532 Or dated 12.9.84 on the subject noted above and to say
that the appointment and relief of the staff made by the
Managements of the Minority Institutions may be approved by you
for convenience of the system of direct payment of salary to the
staff. Since the power of appointment and relief of staff
rests with the management, formal approval will not in fringe
the rights guaranteed under Article 30(1) of the Constitution
of India.

Since the system of direct payment of full salary cost
of the teaching non-teaching staff has been made applicable to
the Minority Institutions like Stewart Science College and
Christ College, Cuttack the Management are to intimate the appoint-
ment and relief of the said staff to you under Article 133 of the
Orissa Education Code.

You are therefore requested to intimate the same to
the concerned Management and dispose of the case of Sri G.C.
Bairagujon, Lecturer in Botany Christ College accordingly.

Yours faithfully,

[Signature]
Deputy Secretary to Government.

Enccn/-

True Copy Attached

[Signature]
Principal,
Stewart Science College
Cuttack



Utkal University, Bhubaneswar

Name and address of the college	Status	Year of Estb.	Nature of Affiliation	Teaching Upto	Govt or Non Govt	Aided or Unaided
Sri Sri Jagannath Mahavidyalaya Rajnagar District Kendrapara Odisha	2(f) and 12(B)	1983	Permanent	Bachelor's	Non Government	
Sri Sri Jagannath Mahavidyalaya At-Krushnachandrapur, P. O. Nimol, Via. Tiran, District Jagatsinghpur Odisha	2(f) and 12(B)	1988	Permanent	Bachelor's	Non Government	
Stewart Science College Cuttack District Cuttack Odisha	2(f) and 12(B)	1944	Permanent	Bachelor's	Non Government	
Subhadra Mahatap College Asureswar District Cuttack Odisha	2(f) and 12(B)	1979	Permanent	Bachelor's	Non Government	
Sukinda College Sukinda Jajpur District Jajpur Odisha	2(f) and 12(B)	1979	Permanent	Bachelor's	Non Government	
Swami Vivekananda Memorial College Jagatsinghpur District Jagatsinghpur Odisha	2(f) and 12(B)	1953	Permanent	Bachelor's	Non Government	
Swarnachuda College Mitrapur District Mitrapur Odisha	2(f) and 12(B)	1978	Permanent	Bachelor's	Non Government	
Talchar College Talchar District Angul Odisha	2(f) and 12(B)	1970	Permanent	Bachelor's	Non Government	
Thakur Nigamananda Mahavidyalaya Nigam Vihar, Po. Babar, District Kendrapara-754 245 Odisha	2(f) and 12(B)	1994	Permanent	Bachelor's	Non Government	



Fear of Lord is the Beginning of Wisdom

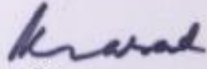
Annexure – IV A





<h2 style="text-align: center;">Quality Profile</h2>			
<p>Name of the Institution : Stewart Science College Place : Madhusudan Road, Cuttack, Orissa</p>			
Criterion	Criterion Score (C _i)	Weightage (W _i)	Criterion X Weightage (C _i X W _i)
I. Curricular Aspects	70	10	700
II. Teaching-learning and Evaluation	70	40	2800
III. Research, Consultancy and Extension	70	05	350
IV. Infrastructure and Learning Resources	80	15	1200
V. Student Support and Progression	70	10	700
VI. Organisation and Management	75	10	750
VII. Healthy Practices	75	10	750
		100	Σ C _i W _i = 7250

$$\text{Institutional Score} = \frac{\sum C_i W_i}{\sum W_i} = \frac{7250}{100} = 72.50$$


 Director

FC/40/09