Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	PATNA SCIENCE COLLEGE
Name of the head of the Institution	Prof. Shree Ram Padmadeo
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	06122678010
Mobile no.	9430032893
Registered Email	pscppatna@gmail.com
Alternate Email	principal.sciencecollegepatna@gmail.com
Address	Ashok Rajpath,
City/Town	Patna
State/UT	Bihar
Pincode	800005

2. Institutional Status

Affiliated / Constituent	Constituent
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Prof. Shardendu
Phone no/Alternate Phone no.	06122678010
Mobile no.	9473240391
Registered Email	shardendu.pu@gmail.com
Alternate Email	shardendu77@rediffmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.patnasciencecollege.ac.in/pdf/sep2019/140919_BRCOGN12915%20SSR%20Patna%20Science%20College.pdf

4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://pup.ac.in/PDF/PU-IQAC/academic%20calender%20for%202018-19.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	B	2.16	2020	08-Jan-2020	07-Jan-2025

6. Date of Establishment of IQAC	08-Sep-2012

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
No Data Entered/Not Applicable!!!		

L::asset('/'),'public/').'/public/index.php/admin/get_file?file_path='.encrypt('Postacc/Special_Status/'.$instdata->upload_special_status)}}

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nil	NA	NIL	2019 0	0
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:	No
Upload latest notification of formation of IQAC	No Files Uploaded !!!
10. Number of IQAC meetings held during the year :	0
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<u>View Uploaded File</u>
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Administrative audit reports were reviewed. Shortcomings in the system were identified. Recommended the conduct of FDP/Seminars to department of Botany and Chemistry. Reviewed the writeups and the presentations submitted by the different societies / committee / Clubs of the college. The team suggested with the permission of chair to collect the alumni feedback and the parents feedback regarding the college.

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

Plan of Action	Achivements/Outcomes
NA	NA
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2018
Date of Submission	26-Feb-2019
17. Does the Institution have Management Information System ?	No

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

The College offers 10 UG Science Programs out of which 7 Programs are of conventional Courses Hons. in Physics, Chemistry, Botany, Geology, Zoology, Mathematics, Statistics 3 UG Programs in Vocational / Professional Courses B.Sc. (Computer Applications) B.Sc. (Bio-Technology) & B.Sc. (Environmental Science) Under Self Financed Scheme. As college is a constituent unit of Patna University, Patna, it follows the course curriculum designed and developed by Patna University. The college designs its own curricular delivery plan and its effective implementation model at the beginning of each academic year. The machanism is designed and developed in a meticulous manner to encourage participative and lifelong learning. The programme and course outcomes define the learning level of the students in terms of knowledge, skills, values and capabilities. The college continuously seeks to enhance its students' behavioural, leadership and teamwork skills through various activities, events and various developments from time to time. The Lesson Plans for each course prepared by the concerned teachers clearly divides the entire course content into short cycle units planning to inform, engage and motivate the students. The pedagogy includes assignments, projects, class presentations, class tests and seminars, self-assessment tests, house exam, group discussions and quizzes. Faculty members maintains academic progress diary regularly which reflects the coverage of the planned lessons. The Provide maximum enrichment and to make learning more productive and interesting, opportunities are provided to the students to establish partnership with communities through various clubs and societies where students learn crucial life skills; develop formative competency and emphatic positive behaviour. The college undertakes various programmes to involve the students in social initiatives such as Gender Sensitization, Environment Consciousness and Human Values and Professional Ethics. To enable information and digital literacy, Computer awareness Programmes for students teaching & non-teaching faculty are organised by the BCA department very often. Further, the college is based on the framework of outcome based-education system, as each course revolves around well-defined

learning outcomes. The IQAC encourages the 360 degree feedback mechanism and takes necessary action to implement it.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
NA	00	Nil	0	0	0

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	NA	Nill
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nill	NA	Nill

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

	Certificate	Diploma Course
Number of Students	0	0

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
0	Nill	Nill
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BSc	Biotechnology	19
BSc	BCA	28
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

The feedback taken by students of all batches is given to each teacher by the Principal after being verified, statistically analyzed and tabulated for quality improvement in teaching methodology. A self-appraisal is prepared by each teacher. The Principal suggests and addresses possible areas of improvement. Principal also evaluates these with each teacher, motivating her/him to look at specific areas where growth is required. Efforts are made to motivate parents to fill feedback forms regarding problems in the College. Evaluation of all college programmes with the respective stake-holders is conducted. Similarly a feedback is done with the out-going Student Council before they leave college.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BSc	B. Sc. (Hons) Zoology	80	457	87
BSc	B. Sc. (Hons) Statistics	65	254	63
BSc	B. Sc. (Hons) Physics	110	413	112
BSc	B. Sc. (Hons) Mathematics	90	389	99
BSc	B. Sc. (Hons) Geology	65	268	67
BSc	B. Sc. (Hons) Chemistry	110	410	109
BSc	B. Sc. (Hons) Botany	80	300	86
BSc	B. Sc. (Hons) Environmental Science	30	50	8
BSc	B. Sc. (Hons) BCA	30	250	30
BSc	B. Sc. (Hons) Biotechnology	30	250	30
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	691	0	26	0	0

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
26	13	5	5	7	0

View File of ICT Tools and resources
No file uploaded.

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

The college aims to provide all kinds of supports of support to the students. Being a Constituent unit of Patna University non profits institution, the fees are charged by the college as per the government rules and regulations, which is very minimal for boys and totally free for girls student. The college publishes a guidebook "Nidheshika" and updates its website to provide guidance and important information to the incoming students, containing various aspects of the College, courses and instruction. College regularly publishes "Journal of Science" and college Magazine "Navnirman" which provides platform for students as well as faculty members to portray their creativity and innovations in their concerned areas. The SC, ST, BC-I and Minorities students are given scholarship (fee waiver) by the Bihar State Welfare Department. The College has established a Career Counseling and Placement Cell, with objective to provide career guidance and placement opportunities to students. An unregistered Alumni Association of the College exists. One of the alumni of the Geology Dept. (an ex- M.P) has contributed money from his M.P. Area Development Fund for the construction of an auditorium and a geology museum. Alumus of this college Cine Star former MP Mr. Shatrughan Sinha contributed from his MP quota for the contribution of PVC Patna to connect all the departments. The College has a very distinguished list of alumni occupying important positions in various fields including the present Chief Minister and Deputy Chief Minister, Politicians, IAS officers, ViceChancellors, academicians and educationalists etc. The association should become active in mobilizing resources for the development of the College. Sports facilities are available to the students. Gymnasium, Yoga and Meditation Centre, Indoor and outdoor games are available in the campus. The College students have given ample scope for their cultural activities and have cultural club called "Natya Kala Parishad".

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
691	26	1:27

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
0	26	0	0	22

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
Nill	NA	Nill	NA

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last	Date of declaration of

			semester-end/ year-end examination	results of semester-end/ year- end examination
BSc	Nill	2018	31/03/2019	31/05/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The College takes special care of evaluating the learning outcome of the students. The Continuous Internal Evaluation system is a part of the endeavors for ensuring the quality outcome of whatever the students have learnt. Informal class tests are organized by the concerned subject teachers and the performance of the students are discussed in classroom. At the end of year, the College conducts examination following the Centralized Evaluation System designed by Patna University, Patna. As a part of Continuous Internal Evaluation, various departments of the College regularly conducts remedial tests, surprise tests, quiz, group discussions etc to facilitate smooth transfer of the knowledge to be imparted. The assignments given to the students at the practical sessions are continuous evaluated by the teachers. At the onset of academic year, faculty members in their classes, provide the details regarding syllabus, course structure and the components for evaluation and handle any query regarding the same. The following are some important features of the continuous internal evaluation process of the College. The notifications and reforms from the University are duly notified by the Principal to all the faculty members and also displayed on Notice Board and website. Internal Assessment record is shown to the students and performance are discussed. All the grievances/discrepancies in the internal assessment records are taken up the Examination Committee and forwarded to the concerned teacher. Seminars, technical paper presentation and Case Studies are introduced in the curriculum to make the environment activity based. To refine the critical thinking among students, various group discussions, debates, seminars, workshops etc., are organized in which students explore new ideas and thus enhances their performance levels.

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

Admission of students to various courses is based on merit in eligibility qualification for traditional courses and score in Entrance test organized for admission in Vocational / Professional Courses, it is transparent with the single window system. Efforts are made to ensure that all students seeking admission to the various courses stay informed through different modes of publicity and college prospectus "Nideshika". The vision of the institution is based on the premise that excellence flourishes in an environment that involves all the stakeholders concerned with the cause. To make the teaching, learning and evaluation effective and efficient, various processes have been developed which give full freedom and flexibility to the faculty and the students to achieve their full potential. An equitable and inclusive working environment creates the conditions for the faculty and the student body thus making them capable and confident. There is a constructive integration of Indian Customs and Traditions with Modern Information Communication Technology tools in the pedagogical system of the college, thereby, enabling the student to learn the content from a multi-dimensional perspective in the era of digital education. Since its inception, the college has remained committed to dissemination of knowledge in science stream for the service to the society. The quality of education is constantly monitored and the standards of Teaching-Learning are reviewed and maintained thereby, enriching teaching-learning processes and developing skills in tune with the globalized world in this age of Privatization. Globalisation and Liberalisation. The college conduct induction

Programme for new students after the completion of admission process. The time-table and the annual academic calendar that contain the details of all the academic and co-curricular activities are made available to all through its website/Hard Copy. The Lesson Plans and the Teaches Diary maintained by our dedicated and skilled faculty show the roadmap for teaching and learning. The Bridge Courses and classes for slow learners and advanced learners are conducted to cover up the gap.

2.6 – Student Performance and Learning Outcomes

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

http://www.patnasciencecollege.ac.in

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
NA	Nill	NA	0	0	0

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2.7 – Student Satisfaction Survey

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

http://www.patnasciencecollege.ac.in

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Nill	0	0	0	0

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Nitrogen cycle in Terrestrial Aquatic System	Patna Science College	20/04/2018
Global warming Climate Change Advancement in Polar research in India	Dept of Geology	17/07/2018
Low cost Experiment Demonstration	Dept of Geology	04/08/2018
Women Security	Dept of Geology	04/08/2018
workshop on E- waste Management	Dept of GeologyDept of Geology	30/08/2018

Geological Photography	Dept of Geology	19/09/2018
Speech competition Screaming	Dept of Geology	24/10/2018
Micropaleontology	Dept of Geology	20/11/2018
Radioactivity	Dept of Geology	08/12/2018
Geological Investigations	Dept of Geology	21/12/2018
Earthquake safety week	Dept of Geology	15/01/2019
New Horizons of Biological Science: Advantages and Challenges	Patna Science college	27/11/2018
National Science Seminar on future India: Science Technology	Patna Science college	30/04/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NA	0	0	Nill	0

No file uploaded.

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
0	NA	NA	0	0	Nill

No file uploaded.

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

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

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Botany	4	3
National	Chemistry	3	0
National	botany	4	0
National	physics	4	0
National	mathematics	1	0
National	english	2	0

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
NA	0

No file uploaded.

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
NA	0	0	Nill	0	0	0

No file uploaded.

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
NA	0	0	Nill	0	0	0

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	3	1	0

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
NCC	DGNCC	1	2

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
0	0	0	0

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NA	NA	NA	0	0

No file uploaded.

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
0	0	NA	0

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
0	NA	NA	Nill	Nill	NA

No file uploaded.

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
NA	Nill	NA	0

No file uploaded.

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
8724789	8724789

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Nill
Campus Area	Existing
Laboratories	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
NA	Nill	NA	2021

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Nill	0	0	0	0	0	0

No file uploaded.

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NA	NA	NA	Nill

No file uploaded.

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	0	0	0	0	0	0	0	0	0
Added	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

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

5 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NA	NA

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
31	31	20	19.75

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

The college is located on a sprawling campus of 28.32 acres dotted with gardens. The College has an Administrative building, Teachers Club building, Canteen, Well maintain five boy's Hostels, Girls Students are provided Hostel facilities in University Hostel, Adequate No. of Quarter for Teaching and Non-Teaching Staffs and Boys' and Girls' common rooms. The Campus has two play grounds and good internal PVC roads. The Departments of Physics, Chemistry and Geology have separate and very spacious building. The Departments of Botany and Zoology share a building. A single building houses the departments of Mathematics and Statistics. Each building has lecture halls and laboratories. These building also house University Departments, In fact the Patna Science College departments and the University department are a sort of integrated.

Each department has a departmental library, some has two one for PG and other for the UG. Zoology department has an air-conditioned lecture room and Geology department has an air-conditioned auditorium with a capacity of 200 seats. The basement of the Geology auditorium houses the Geology museum. The museum has good collection of the geological specimen collected from the different parts of the country which are open for public viewing as well. On side of the Teachers Club Building houses the Student Activity Centre. It is used by the student as a practice room for cultural programmes and for NSS activities. The Boys' common room has a sports room with carom board and Table Tennis. The Physics department has small computer centre having ten computers. The Geology department houses a Wi-Fi Internet Connection. The College has a Central Library catering to the needs of Undergraduate Students. It houses approx 80,000 books. Most of the books are very old and there is a strong need for purchase of new books. The College has a book bank facility for the student and two to five books are given to those students who apply for it. Library is yet to be computerized but it has subscribed the INFLIBNET (N-List) Membership of eShodh Sindhu digital consortium. Which provides access to approx Seven Lac e-books and Six thousand ejournals.

http://www.patnasciencecollege.ac.in

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	0	0	0
Financial Support from Other Sources			
a) National	Bihar Student Credit card	2	27158
b) International	0	0	0
View File			

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
0	Nill	0	0
No file uploaded.			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
Nill	NA	0	0	0	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
NA	0	0	NA	0	0

No file uploaded.

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
Nill	0	0	0	0	0

No file uploaded.

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

Items	Number of students selected/ qualifying
Nill	0

No file uploaded.

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

Activity	Level	Number of Participants
NA	NA	Nill

No file uploaded.

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Nill	NA	Nill	Nill	Nill	Nill	NA

No file uploaded.

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

The Patna Science College, being an integral unit of the Patna University, holds student body elections [Patna University Students' Union (PUSU) elections] at regular intervals along with all other constituent parts of the university. Two council members are elected from the college, who eventually become the members of the central students' body of the University. These students regularly interact with the common students in general, and represent their issues to the concerned authorities for solutions. Following the

guidelines received from the NAAC, the College has adequately pondered upon maximizing the student representation in the academic and administrative bodies and committees, and has also started acted upon the possibilities of inclusion of the students in the functioning of the institution. One such step is keeping student representatives in the IQAC so that students can also voice their views and share their plans on the developmental trajectory of the college. Currently, Mr Parmeshwar Raj, who is also an elected student councilor, represents the students in the Internal Quality Assurance Cell (IQAC) of the college. In addition, students are also active members of the cultural and sports related bodies of the college. For example, students are active members of the Athletic Club, which regularly conducts sport related activities including the Annual Sports. Students play an important role in the organization of such mega events. It is their active participatory spirit and sportsmanship that propels these events towards success. Students, as members of the Boys' and Girls' Common Rooms Committees, also play an active role in the proper functioning and maintenance of these spaces where students may entertain and refresh themselves, create peer groups, and innovate, both professionally and culturally. The college has various cultural societies, which regularly organize different cultural events at the institution. These cultural societies include 'Natyakala Parishad' and 'Vaad Vivaad Samiti' major parts of the Cultural Wing of the college. Other parts like 'Hindi Sahitya Parishad', 'Vasn-e-sukhan', 'Bangla Sahitya Sammelan' and 'Bhojpuri Samiti', which facilitate cultural activities and competitions in different languages of India, especially contribute to the multiplicity of the country. In all these societies students are adequately represented and the role of the students remains indispensable in the functioning of these societies. Students also play a major role in the functioning of the students' hostels. Senior students from every batch residing in hostels are selected as Prefects, and are given administrative responsibilities in running these establishments. The representation of the students contributes immensely towards maintaining the democratic atmosphere of the Institution, and also towards keeping the equilibrium among the stakeholders of the institution.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Patna Science College Alumni Association is fully functional and they have contributed a lot to the renovation, infrastructural, curriculum development of the College. The Examination Hall, with the seating capacity of 400 students, has been fully funded by the notable alumnus Prof. Chandra Shekhar Sharma. The auditorium situated on the campus of the Department of Geology has been built by Dr Ranjan Prasad Yadav. The roads and streets on the campus have been renovated by the fund donated by Shri Shatrughna Sinha who has been a student of this college.The Gymnasium Hall has recently been renovated by the alumni who passed out of this college in 1987. In addition, from time to time valuable help and suggestions are sought after from the alumni for the enrichment of teaching learning practices. The alumni share their ideas about the opportunities and possibilities of growth of the institution. The last alumni meet was successfully conducted on March 17, 2019 in which the contribution of Dr Ranbir Nandan (MLC), an alumnus of the College, was commendable. Each Department takes help of its alumni to organize seminars, guest lectures, extra-mural lectures and illuminating talks on different issues and topics. Since there is an acute shortage of faculty members in most of the Departments, the alumni are requested to conduct classes to keep the academic calendar smoothly going. They also play a crucial role in guiding and counseling students.

5.4.2 – No. of enrolled Alumni:

200

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

100000

5.4.4 – Meetings/activities organized by Alumni Association :

NA

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The College promotes a culture of participative management. The College encourages active participation and involvement of all the staff members in meetings. Staff members are persuaded to contribute in the meetings by sharing their views and by giving valuable suggestions. Further, the College has successfully developed various committees which require participation of all the members from teaching, staff and student-bodies. Campus Development Committee: It comprises the senior teachers from different departments, committees as well as students representatives. It deliberates on the College calendar, matter of policy, introduction of new courses, holding of functions, distribution of duties and day to day problems. The committee helps the Principal in the management of the affairs of the College and advises him on all institutional matters. It also assists administration in maintaining discipline and assuring smooth functioning in the college. Admission Committee: This committee is before the beginning of new session to prform the task of taking admission. It is headed by senior professors and bursars and comprises of other faculty members and non-teaching staff. Examination Committee: Headed by the Controller of Examinations, the committee undertakes the responsibility of complete coordination related work- from notification of examination dates the final evaluation and declaration of results. The Controller of Examinations also makes sure that the University Result is properly distributed to concerned students. Library Advisory Committee: Headed by Prof-in-charge Library plan, coordinate and decide on the various activities of the library- from purchase of new books to adding facilities in the library as per the requirement of the library users. Purchase Committee: The members of this committee coordinate and oversee all purchases of the College. Grievance Redressal Cell: It looks into the grievances of the students/faculty/staff and provides remedial measures. Cleanliness Committee: It endeavours to keep a hygienically clean, eco friendly environment on the campus, and at the same time takes care of its beautification. Athletic Club: Sports and games related activities are supervised and conducted by this club. It also organizes Annual sports-meet every year and encourages students to participate in various state and national level competitions. RTI Cell: The task of this cell is to make a sound response to various queries made by people about various issues related to the functioning of the College. It comprises of senior faculty members and Head Assistant of the office. Time table Committee: It consists of faculty from different departments. They make the College time table and ensure proper distribution of the time schedule both for faculty and students. Anti-ragging Committee: To make the campus a safe and secure place for newly admitted students this committee discharges its duties and responsibilities. It comprises faculty members, hostel superintendents and students union councillors. Career Guidance and Placement Cell: It assists the students during admissions with detailed information about different subjects and courses available to them counsel students regarding their progression to higher studies and placement.

6.1.2 – Does the institution have a Management Information System (MIS)?
Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Teaching and Learning	The vision of the institution is based on the premise that excellence flourishes in an environment that involves all the stakeholders concerned with the cause. To make the teaching, learning and evaluation effective and efficient, various processes have been developed which give full freedom and flexibility to the faculty and the students to achieve their full potential. An equitable and inclusive working environment creates the conditions for the faculty and the student body thus making them capable and confident. The college conduct induction Programme for new students after the completion of admission process. The time-table and the annual academic calendar that contain the details of all the academic and co-curricular activities are made available to all through its website/Hard Copy. The Lesson Plans and the Teaches Diary maintained by our dedicated and skilled faculty show the roadmap for teaching and learning. The Bridge Courses and classes for slow learners and advanced learners are conducted to cover up the gap.
Research and Development	The Patna Science College teachers in collaboration with the University P.G. teachers are involved in research. This is being facilitated by having M.Sc. and Ph.D. degree programmes on the same premises. Several teachers from the University Departments have research projects funded by the national agencies such as UGC, DST, DBT, Department of Environment etc. The Geology Department in collaboration with Central Ground Water Board, Government of India has initiated a scheme of rain water harvesting and recharge of ground water in the College Campus. The College has 27 teacher and 25 have Ph.D. as the highest qualification. Most of the teachers are involved in guiding Ph.D. students. The teachers of some of the departments have published papers in national and

international journals. Several teachers have also written text books mainly for senior secondary school students. Teachers of some of the departments have also participated in national seminar. A conducive environment for research related activities is nurtured in the campus where both the faculty and the student are motivated to get involved in research-related activities. There is a Research Promotion Cell to guide and advise on research related issues. On the College premises, the superannuated teachers run a "Science for Society". They are doing a commendable work in popularizing Science Education in the society and inculcating scientific outlook in youths aged between 10 and 17.

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

E-governace area	Details
Student Admission and Support	The admission process in Patna Science college has been conducted through online centralized portal for filling up of form and declaration of results.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
Nill	NA	NA	00	0
No file uploaded.				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
Nill	00	00	Nill	Nill	0	0
No file uploaded.						

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

Title of the professional	Number of teachers who attended	From Date	To date	Duration

development programme				
Orientation programme	1	17/07/2018	13/08/2018	28

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
26	26	97	97

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
0	0	0

6.4 – Financial Management and Resource Mobilization

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

At the end of the service book of every financial year, the cash-book and other relevant registers in the accounts section is checked and audited at internal level. The bursar of the college takes care of the income and expenditure. The cash-registered is compared with bank statement and any anomaly is sorted out Moreover audit is conducted by private auditor also. The objections by the auditor are complied. The cashier of the college keeps record of various incomes and sends the amount collected from different sources to the bank. Overall there is a transparent mechanism of financial operations functional in the college even though there is a need of automation of the accounts section of the college. The proposal for office automation is likely to be sent very soon to the University.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NA	0	0

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6.4.3 – Total corpus fund generated

<div align="center">0</div>

6.5 – Internal Quality Assurance System

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

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

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

<div align="center">NA</div>

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

The College takes care that the employees can comfortably connect with the

Institution. Giving advance amount in case of emergency to the teaching and non-teaching staff is one of such measures that can facilitate the humanitarian goals of the Institution. Maternity and paternity leaves are granted to the employees according to the norms of the Patna University. The employees of the Patna Science College get healthcare benefits according to the Govt norms. Patna University Central Dispensary extends free medical support to the staff and the students of the College. The staff of the College are entitled to get Pension and other post-superannuation benefits, like the Gratuity and the Provident Fund and loan facilities from the Provident Fund according to the norms set by the University and the Govt of Bihar. The College honors the current teachers and students on special achievements. The College also invites and honors the former teachers and distinguished alumni to the campus at moments of cultural functions. In many cases, the non-teaching staff of the college are provided with office uniform according to the provisions and norms. Additional need-based financial support is provided to the faculty members under emergency conditions after due consideration in the Staff Council meetings.

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

Patna Science College was accredited by NAAC with a grade of B in the year 2007. A major recommendation of the peer team was discussed among the faculty members with a plan to implement quality initiative changes. The IQAC unit was constituted in the year 2012. Though we kept our pace with the conventional and basic science in the curriculum three self financing courses were launched in 2007. With the passage of time the curriculum has been updated and modern methodology of teaching has been adopted. The teachers are using ICT tools while imparting knowledge to the students. The WiFi scheme supported by the Government of Bihar is being fully utilized by the students and faculty members. We are trying to catch up with the e governance and are in the process of automation of the office and allied units. The strong alumni base of our college is our strength. Our alumni are placed in well established scientific organizations both national and international. They frequently visit their alma mater and interact with the students of the college. Of late new faculty members have joined and guest faculty members are fulfilling the gap.The faculty members have been awarded with major research projects by ISRO, UGC, MoEF, state departments and culture of research is in progress The recently signed MoU with the State Disaster Management Authority will provide desired impetus for a course in disaster management. Career and Counselling Cell established by the college provides guidance to the students for different level of competitive examinations. Reputed Career counselors are invited regularly to interact with the students. The students are taken for field training and also attend internship at reputed organization. The college publishes its own in house research journal and college magazine annually. The participation by students in this creative endeavor is satisfying.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	No
b)Participation in NIRF	No
c)ISO certification	No
d)NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Workshop on Revised	Nill	Nill	Nill	29

framework of NAAC AA Process Workshop on role functioning of IQAC Advancements and Innovation in Physics : A Promise for Society Workshop on establishment functioning of incubation centre	

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
0	Nill	Nill	0	0

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

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

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Rest Rooms	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
Nill	Nill	Nill	Nill	Nill	NA	NA	Nill
No file uploaded.							

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

Title	Date of publication	Follow up(max 100 words)

NA	Nill	NA

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
NA	Nil	Nil	0

No file uploaded.

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

The College is very well aware of the environmental degradation that is taking place across the globe and commits itself towards the protection of the natural environment around its premise. The Institution feels that by implementing a smoothly functioning waste management system, it can significantly contribute to the cause of environment protection, at least at the local level. Keeping this in view, the College has placed solid waste bins at different corners of the campus in adequate numbers. The staff and the students are made increasingly aware to use them to the greatest extent. Efforts are also made to sensitize the cleaning staff to dispose the solid wastes in proper manner and especially to recycle them as much as possible instead of burning them. The Patna Science College campus is also the home for a Solid Waste Management Facility and two compost pits, which facilitates the production of organic manure although on a decent level. Dry waste and wet waste are collected separately and deposited into garbage van for further recycling procedure managed by the Corporation. Disposal of waste is done with utmost care. All biodegradable waste is collected in a vermiculite sites to be consecrated onto organic manure which in turn is used in the college lawns. Plastic waste is collected separately and sent to the municipal collection centers for appropriate disposal. The College regularly takes care that the students are made aware of the e-waste management procedures. The e-waste awareness campaigns have been organized in the College, especially, the one taken place in the recent past with the initiative led by the Ministry of Electronics and Telecommunication, Government of India. In such initiatives, the students have also contacted the common service centres for hand-on training of the e-waste management. The e-wastes are given to the vendors for recycling so that the College may voluntarily make itself a part of the world-wide campaign against environmental degradation

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: Title of the Practice: The Patna Science College regularly publishes its research journal entitled the 'Journal of Patna Science College'. Goal: To promote, preserve and disseminate fundamental research in basic sciences and allied areas. The Context: The historical contribution of the College to the science education and research, and also the growing contemporary thrust upon research and innovation have facilitated the publication of the journal. The Practice: This journal has an ISSN, which is 2347-9604. Until very recently the journal was enlisted in the list of UGC recognized journals. This is an annual research publication platform of the College, in which the teachers, the students and the research scholars registered under the Patna University working in the College campus publish their research works. Apart from the in-house authors contributing to the journal, the College is proud of the fact that the teachers and researchers from all over the country enrich the volumes by their valuable contributions. Evidence of Success: The Journal now has been published for the last six consecutive years. A digital copy of the latest volume of the journal (Volume-6, 2018) is available on the College website. Resource: The Journal is published with the internal resources available with the College. Best Practice

2: Title of the Practice: The Patna Science College invites its distinguished alumni placed in important positions at established institutions across the country and the globe for regular interactions with the students, delivering lectures, engaging classes, sharing research and professional experiences and career guidance. Goal: To closely integrate the historic alumni base of the College along with their rich treasure of knowledge with the present prospect of it, and to expose the current students more to the wider arena of contemporary research and education. The Context: Established in 1927, the College is one of the oldest institutions for science research and education. The College thus has a long history of producing distinguished alumni, who are placed in commendable positions at various institutions across the country and the globe. The present practice is the result of the meditation of the College on the prospect of having such a strong and rich alumni base. The Practice: This alumni visit the campus for regular interactions with the students, delivering lectures, engaging classes, sharing research and professional experiences and career guidance on regular basis. The College feels pleased to mention the fact that the alumni serve their alma mater free of cost and out of their sense of attachment and obligation with this institution. Evidence of Success: The students feel more energized, exposed and enriched by the presence of these eminent personalities. They also feel more attached to the College. This practice provides the students with avenues for finding better ways of success. Resource: The College is proud of the fact that the alumni visiting the campus manage the expenses for their visits on their own and thus relieve the institution from many burdens. The College honors them with tokens of appreciation.

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

http://www.patnasciencecollege.ac.in

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

In consonance with the vision and mission of the Patna Science College, the thrust of the Institution is to impart multi-dimensional and holistic development with special focus on teaching, learning and research in the field of Basic Sciences along with nurturing human values contributing towards the nation and the society. Being one of the oldest premier institutions, the College has witnessed a glorious journey and contributed richly to the field of science. The Institution aims at providing the youth with an education of science by incorporating endeavors to create an environment which generates a love of learning, a habit of critical thinking and ability for accurate expression. As an educational institution the emphasis lies on imparting education in the most effective manner. To attain this, the College ensures that classes are regularly conducted with sincerity and theoretical teaching is adequately supplemented with practical laboratory sessions and tutorials. In addition, remedial classes are also arranged as per the needs of the students. Keeping in mind the specific needs for the curricula, field visits, internships and hands-on trainings are undertaken by the College in collaboration with other institutions and industries across the country. For example, the students visit such Institutions and industries of repute, both at the National and the State levels, as the Geological Survey of India, the Central Ground Water Board, the Bihar State Disaster Management Authority, the Mahaveer Cancer Sansthan and Research Centre, the Office of the Superintendent Engineer of the South Bihar Power Distribution Company Ltd, the Hindustan Media Venture Ltd., the State Rays Edutech Pvt Ltd. etc. A distinctive feature of the College is its spacious and specially-equipped laboratories for conducting researches and

practical sessions specific to the programmes taught to the basic and applied science undergraduates. The laboratories in the Department of Physics have been designed in such a way that some rooms are well-lit, some are partly-lit while some of them are totally dark even during the day times. This unique feature specially helps the researchers to conduct experiments in the field of Spectroscopy. A wellmaintained museum is a proud part of the Department of Geology that is home for various rocks, fossils and minerals from widely distinct territories across the globe. The Department of Zoology has Electron Microscopy Laboratory, Dark Room, Museum, Store and Research Laboratories of Biochemistry etc. similarly, the Department of Botany is deservedly famous for maintaining a Botanical Garden enriched with various herbs and plants, which provide a venue for research and experiment. These features create an environment for innovation in teaching and research in the field of basic and applied sciences. Each department is equipped with a rich departmental library and reading hall. Keeping abreast of the recent technological advancements required for effective teaching and research, departments are provided with desktops, laptops, projectors and other ICT facilities. The Campus is endowed with the wi-fi facility and subscription to the INFLIBNET-NLIST to access e-resources for learning. In this way, the College is able to create an environment that serves the Institution's

Provide the weblink of the institution
http://www.patnasciencecollege.ac.in

8.Future Plans of Actions for Next Academic Year

 Our future plan is to create a vibrant academic space with focus on world-class education, research and service. Students and staff will be oriented to cultivate the best human values, character and practices demanded of citizens to serve the nation and society. Through innovative teaching, research, skill-development and use of technology, students and faculty members will strive to provide insights and solutions for diverse challenges faced across the globe. Along with the production of knowledge, it also believes in nurturing co-curricular talent in learners for their holistic development. Mission To grow as the centre of excellence in the field of science, technology and innovation and empower the learners to lead the world in general and nation in particular in the next century towards a bright and sustainable future for mankind. To prepare citizens equipped with independent thinking, critical ability and entrepreneurship. To work for the welfare of society by upholding the ideals of the Republic of India enshrined in the Constitution. The College is highly reputed for teaching and research. Our college believes in striving for newer goals, maintaining high standards and establishing Patna Science College as a 'Knowledge Centre', nationally and internationally. The strength of our college lies in its ability to adapt to the changing needs of the time. To realize this vision, we inculcate the importance of learning in our students, thus ensuring their intellectual and emotional development. The college encourages innovative, rigorous and professional pattern of teaching and learning, enabling the students and teachers to become outstanding scholars, educators and professionals by preparing action plans within the framework outlined by the Patna University.