



Government of Maharashtra



Institute of Science Nagpur

Proposal for Autonomous Status



R. T. Road, Civil Lines, Nagpur – 440008 (Maharashtra)

URL : www.iscnagpur.ac.in : Email : ioscnagpur@gmail.com

Phone No. : 0712-2520571

PART – I : Summary Sheet for Fresh Autonomous Status

PROPOSAL FOR AUTONOMOUS STATUS

1	Name and address of College	Institute of Science R. T. Road, Civil Lines, Nagpur-440001, (M.S.)
2	Contact details	Phone No.: 0712-2520571 : Email : ioscnagpur@gmail.com
3	Affiliating University	Rashtasant Tukadoji Maharaj Nagpur University, Nagpur, M.S.
4	Included in Section 2(f)	Yes : Copy Enclosed (Annexure : 1)
5	Included under 12 (B)	Yes : Copy Enclosed (Annexure : 1)
6	Year of establishment of college	1909
7	NAAC accreditation	Yes : Copy Enclosed (Annexure : 2) Period of Validity : June – 2024 Grade : A : CGPA : 3.07
8	NBA Accreditation	Not Applicable
9	Type of Institution/College (Govt./Private/Aided etc.)	Government
10	Whether College is self financed	Government Financed
11	Whether proposal forwarded by affiliating university	Yes
12	Type of courses being run by college (Science/Technical/Arts/ Commerce/Management/ Engineering)	Science

Date :

Place : Nagpur

Director
Institute of Science, Nagpur

(Seal)

PART – II : Background Of The Institution With Vision, Mission And Objectives

Institute of science, Nagpur (previously called Science College) is a premier Institute in central India, established in the year 1909. It is situated in the heart of India at Nagpur, Maharashtra state. This is a government institute controlled by the department of higher education, Maharashtra government, Mumbai. This was the first Institute in central India providing undergraduate and post-graduate programs in pure sciences besides being a recognized research center.

It was initially called “Science College”, which was later upgraded to Institute in the year 1962 to enable and establish research-oriented education. The Institute has pronounced its goal through its gridline slogan “*PER ARDUA AD ASTRA*” which literally means *FROM TOILSOME WAYS TOWARDS THE STARTS*. It is through the commitment to this slogan it is making its way towards achieving the set goals.

Vision

The vision of our Institute is to inculcate scientific temper among students to address global challenges by advancing the frontiers of science, by producing scientifically-trained leaders and innovators and enhancing public understanding of science.

Mission

Our mission is to bring the benefits of science to society by providing access to a rich educational experience that will motivate and enable all of our students, to seek the highest levels of intellectual achievement in the physical, chemical, mathematical and biological sciences and attain an all-round personal growth with high moral values

Objectives

- To impart updated knowledge to the students.
- To produce good citizens through value based co-curricular activities.
- To produce competent youth capable of employment/ self-employment.
- To cater local and global needs.
- To engage dialogue with local community and industry academic tie-up for sustainable and all-round development.

Our Institute is focused on equity and excellence in learning so as to ensure its students meet the challenges of new millennium. The vision and mission statements are communicated to students, teachers, staff and stakeholders through Institute website www.ioscnagpur.ac.in, Besides these the Institute uses various methods of communication through Prospectus, display of banners at prominent places in the campus.

Part III : Basic Information

1.	Name of the Director (phone, fax, e-mail)		Dr. Ramdas G. Atram Email : ramdasatram@yahoo.co.in Mobile : 9975849004
2.	a.	Year in Which the College was Started (supporting documents to be placed as Annexure regarding establishment of College)	1909
	b.	Date when the College was declared fit under section 2(f) and 12 (B) of UGC Act (copy of UGC Letter to be placed as Annexure)	Since inception of UGC The letter from UGC of 19 September, 2012 is enclosed as Annexure 1.
3.	Period of autonomous status applied for		June 2020 onwards
4.	Category under which the College falls as per UGC guidelines		
	a.	Men	
	b.	Women	
	c.	Co- Education	Co-Education ✓
	d.	UG/PG/Both/	Both
	e.	Single Faculty/ Multi faculty	Single Faculty
f.	Whether Government/ Self Financing /Aided/partially aided. In case of aided/partially aided, purpose and % of grants received from the Government	State Government funded.	
5.	Type of College		
	a.	Arts / Science / Commerce	Science ✓
	b.	Engineering	
	c.	Education	
	d.	Others (Law, Physical Education, etc.)	
	e.	Multi-faculty (give details)	

Infrastructure Facilities

1.	Total land available (in acres) (copy of land documents to be placed as annexure)	12.5 Acre Please See Annexure-3
2.	Whether land is registered in the name of the College?	Yes : It is in the name of Govt. of Maharashtra
3.	Class Rooms (No. of class rooms and covered area in sq. Ft.)	Please See Annexure-4
4.	Laboratories (No. of labs rooms and covered area in sq. Ft.) (list of labs along with equipments to be placed as annexure)	Please See Annexure-5
5.	Central Library	
	i. Total Area	Existing Library 5340 Sq. Ft ----- New Library Building (on the verge of completion) Area 22311.86 Sq. Ft.
	ii. Whether reading room available?	Yes
	iii. Details about books, titles, Journals (National/International), CDs, e-resources, e-journals, Theses, etc.)	Please See Annexure-6
6.	Whether Departmental Libraries available? If yes, Please give details.	Yes : Major departments such as Physics, Chemistry, Statistics, Botany, Zoology have departmental library with good collection of books. This facility is used by Teachers, P.G. and research students
7.	Hostels (No. of rooms with students accommodated)	
	(i) Men	Yes : Men Hostel 02 - (Capacity - 100 rooms)
	(ii) Women	Yes : Women Hostel 01 - (Capacity - 45 rooms)
8	Information about	
	(i) Administrative Block	Yes
	(ii) Principal Office	Yes
	(iii) Staff Room	Yes
	(iv) Common Room	Yes
	(v) Canteen	Yes

	(vi) Auditorium	Yes
	(vii) Internet facilities	Yes
	(viii) Medical facilities	Yes
	(ix) Transport	No
	(x) Other : Parking Facility	Yes
9.	Sports Facilities in the College Campus (indoor/outdoor), Play grounds, Fitness equipment, sports coaches, etc.	States of art sports facilities are available. For details please see Annexure-9
10.	Total Buildings (covered area in sq. Ft.)	99897 Sq. Ft.
11.	Whether College website is available and updated Regularly?	Yes. http://www.iscnagpur.ac.in updated each weekend.

Courses

1. Courses offered (including diploma / certificate)

Undergraduate Courses

S. No.	Course	Intake	Actual enrolment at present
1	Bachelor of Science (B.Sc.) Group options : (Group of three subjects) B.Sc. with Physics, Chemistry, Mathematics B.Sc. with Physics, Electronics, Mathematics B.Sc. with Physics, Statistics, Computer Science B.Sc. with Physics, Mathematics, Computer Science B.Sc. with Chemistry, Botany, Zoology B.Sc. with Chemistry, Botany, Environmental Science B. Sc. with Chemistry, Zoology, Environmental Science	720	673

Postgraduate Courses

S. No.	Course	Intake	Actual enrolment at present
1	Master in Chemistry (M.Sc. Chemistry) : I + II Year	72	72
2	Master in Physics (M. Sc. Physics) : I + II Year	72	69

3	Master in Botany (M. Sc. Botany) : I + II Year	44	39
4	Master in Zoology (M. Sc. Zoology) : I + II Year	44	41
5	Master in Mathematics (M. Sc. Mathematics) : I + II Year	72	69
6	Master in Statistics (M. Sc. Statistics) : I + II Year	44	44
7	Master in Environmental Science (M. Sc. Env. Sci.) : I + II Year	22	22

Faculty Strength

1. No. of teachers available (Professor, Associate Professor, Assistant Professor, others)

(i) Regular	62
(ii) Ad-hoc	NIL
(iii) Contractual	NIL
(iv) Guest Faculty	NIL
(v) Visiting Faculty	02 (Environmental Science)

Please see Annexure-10

2. Sanctioned, working strength and vacant position (faculty) : See Annexure-11

Category	Sanctioned			Total	Working			Total	Vacant			Total	Grand Total
	Prof.	Asso. Prof.	Asstt. Prof.		Prof.	Assoc. Prof.	Asstt. Prof.		Prof.	Assoc. Prof.	Asstt. Prof.		
Aided	8	20	55	83	6	7	45	58	2	13	10	25	
Non-Aided	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
Others	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
Total	8	20	55	83	6	7	45	58	2	13	10	25	

3. Qualification of Faculty				
Category	No. of Ph.D.	M. Phil.	Other NET / SET	Total
Aided	47	-	11	58
Non-Aided	NIL	NIL	NIL	NIL
Others	NIL	NIL	NIL	NIL
Total	47	-	11	58

4. Non-teaching Staff	
Sanctioned	46
Working	41
Vacant	05

Please see Annexure-12

Achievements of Students		
1	Achievements of Students in Examination: University Rank etc.	Please see Annexure-13
2	Results during the last five years with % of I st , II nd division and overall pass-outs.	Please See Annexure-14
3	Number of M. Phil. And Ph. D. produced during the last five years.	113 For Details on Research Activities, please see Annexure-15
4	Achievements in co-curricular activities	Please See Annexure-16
5	Achievements in Extra-curricular activities	Please see Annexure-17
6	Other : Sports facilities, activities and achievements	Please see Annexure-18

Achievements of Teachers						
SN	Name of Teacher	Awards	Patents	Books Published	Training course attended	BOS/other membership
1	Dr. Sahera Nasrin		0	0	0	BOS Member
2	Dr. S. A. kalkar	10	1	3	1	Academic Council Member
3	Dr. K. R. Gopal	0	0	0	1	
4	Dr. P. S. Jakhi	1	0	0	1	BOS member
5	Dr. S. U. Borkar	0	0	0	0	
6	Dr. H. R. Pohekar	1	1	1	1	
7	N. B. Yemul	0	0	0	2	
8	Dr. Uma Thakur	0	0	0	1	
9	S. J. Borkar	0	0	0	1	
10	Dr. V. T. Kamble	0	0	0	0	
11	Dr. D. B. Patil	2	0	3	1	
12	Dr. V. M. Bhuse	0	0	0	1	
13	Dr. S. H. Ganatra	2	1 + 3 pre- patents applicatio n	Book No.1 5volumes, Book No.2 2 volumes	1	
14	Dr. G. M. Phadnaik	0	0	0	1	
15	Dr. R. Batra	0	0	0	1	
16	Dr. Indira Soni	0	0	0	1	
17	Dr. S. S. Deo	2	1	2	0	
18	Dr. Farheen Inam	0	0	0	0	
19	Dr. Anjali Rahatgaonkar	1	0	0	0	BOS member
20	Dr. M. I. M. Siddique	0	0	0	4	
21	Dr. N. J. Siddiqui	0	0	0	4	

22	S.U. Patil	1	1	0	2	
23	P. D. Ashtaputrey	0	0	1	2	
24	R. S. Shinde	0	0	0	1	
25	B. S. Navale	0	0	0	2	
26	P. D. Shirsath	0	0	0	2	
27	R. R. Tayade	0	0	1	2	
28	Dr. G. Waghmare	0	0	0	0	
29	Dr. U. S Thool	0	0	0	4	
30	P. P. Sayare	0	0	0	3	
31	Dr. M. R. Salunkhe	0	0	0	0	Regional Joint Director, Nagpur
32	Dr. K. Alti	0	0	0	0	
33	Dr. S. Patil	0	0	0	0	
34	Dr. C. P. Chaudhari	0	0	1	1	
35	Dr. A. A. Chaudhary	0	0	1	1	
36	S. S. Kasarla	0	0	2	1	
37	Dr. S. R. Jigajeni	0	0	1	1	
38	Dr. Nagde	0	0	0	0	
39	Y. B. Wankhade	0	0	0	2	
40	Dr. Swati Deshmukh	0	0	0	1	
41	Dr. Sandhya Dhabe	1	0	0	0	BOS member
42	Dr. K. S. Bhanu	4	0	0	0	Academic Council and BOS member
43	Dr. G. Behere	1	0	3	1	BOS member
44	Dr. A. K. Khamborkar	1	0	0	2	BOS member
45	Dr. P. R. Singh	1	0	1	1	BOS member

46	Dr. Meera Alsı	0	0	0	0	
47	Dr. Archana Nerkar	5	0	0	0	
48	Dr. Y. Gadhıkar	0	0	0	0	
49	Dr. R. V. Tıjare	2	0	3	2	
50	Dr. S. A. Kaushık	0	0	2	1	
51	Dr. K. R. Patıl	0	0	0	1	
52	Dr. Kawadkar	0	0	0	1	
53	Dr. J. S. Mhaske	0	0	2	2	
54	Dr. Choudhary	0	0	0	0	
55	Dr. M. A. Mardıkar	0	0	1	0	
56	Dr. S. K. Yeotıkar	0	0	0	0	
57	Dr. R. S. Lıhitkar	0	0	3	5	

Bank Details (Mandate Form)

Name of Bank	Bank of India
Branch	R . T. Road, Civil Lines, Nagpur-440001, M.S.
Account Name	Institute of Science, Nagpur
Account Number	8709101020005160
Account Type	Saving
IFSC Code	BKID0008709
MICR Code	440013009

**Signature of Registrar of Affiliating University
(With Seal)**

Signature of Director

PART IV: SUPPLY OF INFORMATION BASED ON CRITERIA

1. Academic reputation and previous performance in University examinations

Institute of Science is a pioneer pure science college in Central India. This century old institution has maintained its academic excellence. Every year significant number of students became rank holder in university examinations, further the passing percentage of students is always higher as compared to the students passing percentage of university.

Please see Annexure-13 & 14

2. Co-curricular and extension activities

Institute provide full support to the students for participating in co-curricular and extension activities, such as, NCC, NSS, LACF etc.

The students are also encouraged to participate in inter-collegiate, university, state and national level competitions and workshop.

Please see Annexure-16 & 17

3. Academic / extension / research achievements of the faculty

The faculty is actively engaged in academic, extension and research activities. Faculties regularly participate in various research conference, workshops and seminars.

They regularly publish their research work in reputed national and international journals.

More than 50 percent faculties are recognized guide and more than 113 students have been awarded Ph.D. during the past five years.

Please see Annexure-19

4. Quality and merit in the selection of students and teachers

At the UG level the admission of the students is on Merit basis and as per Government rules and regulations.

The post-graduate admission procedure is centralized and executed by RTM Nagpur University, Nagpur.

Being the government institution, the selection of the teachers are done by MPSC.

5.	Adequacy of infrastructure
<p>The Institute has spacious and heritage campus spread over more than twelve acres of land and offers a very green and pleasant ambience. The beautiful main building designed in British architecture. The building is specially designed as a science learning center with spacious lecture rooms and laboratories.</p> <p>The whole campus infrastructure includes the main building, annex building, boy’s hostel, girl’s hostel, new library building, canteen, sports complex including ground and gymkhana, vehicle parking space, front small garden etc.</p> <p>The main building is equipped with high capacity class rooms, huge laboratories, spacious office and library. Also the facilities of reading room, girls common room, close auditorium, open auditorium, conference room etc.</p> <p>Please see Annexure-20</p>	
6.	Quality of institutional management
<p>The Institute is owned and managed by the State government; hence it runs as per the policies and norms laid down by it. There are four levels of governance i.e. first, policy framing by state ministry of higher and technical education, second, execution of policies through Director of higher education, third, routine and micro level management along with regular progress and development by Director of Institute, and the fourth level of governance comprising of heads of department, teaching/non-teaching staff, various committees and other cells.</p> <p>These committees make the governance decentralized and participatory. Most of the functions and services in governance have been computerized and automated leading to faster and more transparent operations. The members of teaching and non-teaching staff, representatives of students and alumni are the major stakeholders who get a chance to participate in and contribute to various aspects of planning and decision making, thus following the principle of participatory management.</p> <p>The different departments of the Institute are supervised by heads of the department who have freedom and responsibility to manage their own affairs. All the departments are very well equipped with separate facilities for efficient and result oriented functioning.</p> <p>The management system of the Institution is decentralized and participatory in nature. A</p>	

considerable autonomy, freedom and support are provided by higher level management (Director of Higher Education) to our Director and faculty. All levels of management work on the principles of team work, collective responsibility, cooperation, freedom and participation. There are similar mechanisms for overall coordination and monitoring.

Being a state government owned Institute; the objective is to impart quality scientific education to all segments of society. The Director of the Institute looks after routine and micro level management and its regular progress and development. The responsibility of administration primarily lies with the Director.

In case of academic matters, the various departments work in tandem for achieving the overall goals of the Institute. The registrar, office superintendent and other staff assist him as per the roles earmarked for them. Financial resources are managed by the Director and finance committee.

Adequate representation of teaching and non-teaching staff, and in some cases, of students and alumni is ensured for decentralization.

Our Institute strategically plans activities and executes them in a planned manner. The activities are decentralized at four levels as departmental, administrative, academic and financial. At the departmental level, the strategic plans are prepared with the consent of faculties; the academic strategic plans are made before commencement of academic session by preparing academic calendar of that year taking into consideration the academic calendar of RTM Nagpur University, Nagpur.

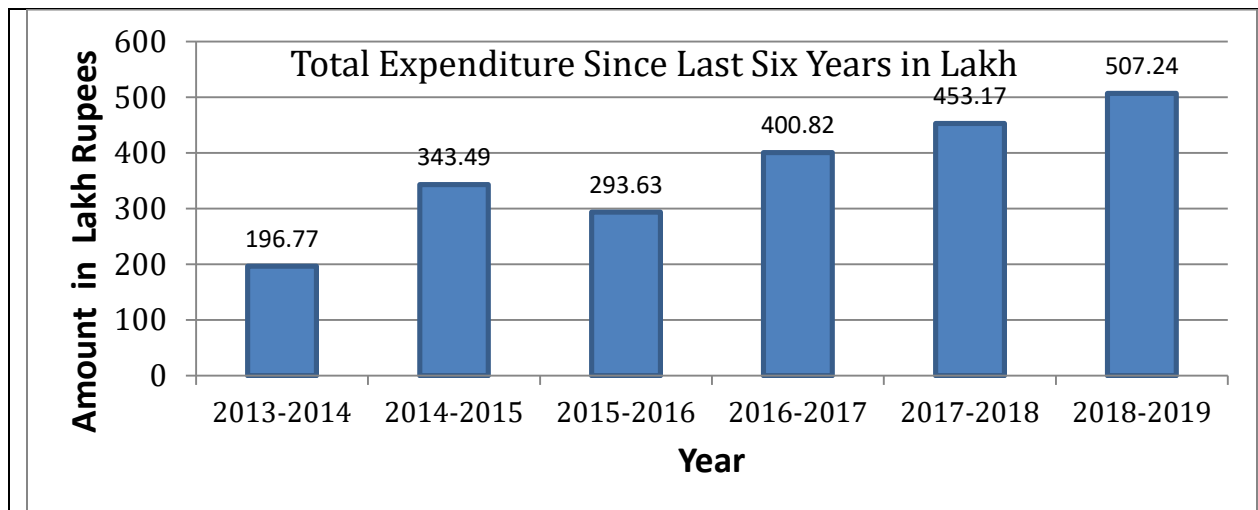
Administrative committees that are formed at the beginning of the session are responsible for all student and staff related activities.

7.	Financial resources provided by the Management / State / Government for the development of the College / institute
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The Institute reviews the existing situation and submits the plan as per the requirements to the State Government, through Director of Higher Education, Pune. Then the State Government makes provision in budget as committed expenditure.

From the allocated fund, Institute meets recurring and non-recurring expenses.

Besides the government fund, Institute also receives the funds from DPC (District Planning Committee at District level), RUSA (Rastriya Uchhatara Shiksha Abhiyaan), UGC, CPE, DST etc. also provide the financial support under various schemes.



8. Responsiveness of the administrative structure

Being the Government Institute, the policies and practices of the Institute are as per the instructions given by Principal Secretary through Director of Higher Education, Pune.

The teaching staff is appointed by Government of Maharashtra on the recommendations of the Maharashtra Public Service commission and it is transferred by the Government on the recommendations of the Director of Higher Education.

For smooth functioning of the Institute, the various committees are constituted by the Director of the institute. The functions of the student's council are to look after the welfare of the students and organize various cultural programs.

The policies for the functioning of the department are decided through the various intra-departmental committees. To evaluate and improve the work efficiency a self-appraisal form is filled every year by the teaching and non-teaching staff excluding class IV employees. The professional skills of the non-teaching staff are improved by sending them to the training programs organized by the Government.

Please see Annexure-21

9. Motivation and involvement of faculty in the promotion of innovative reforms

In the Govt. Institute of Science every PG & UG department have their innovative activities like quiz, Science competition, remedial teaching, hostel related activities etc in the institute. NSS and NCC are the active wings involved in various innovative activities. Every individual faculty is actively involved in the motivational activity for the progress of the students. Institute faculties are frequently attending training programs, workshops, seminars, conferences at Government and non-government institutions.

PART V : IMPLEMENTATION OF AUTONOMY

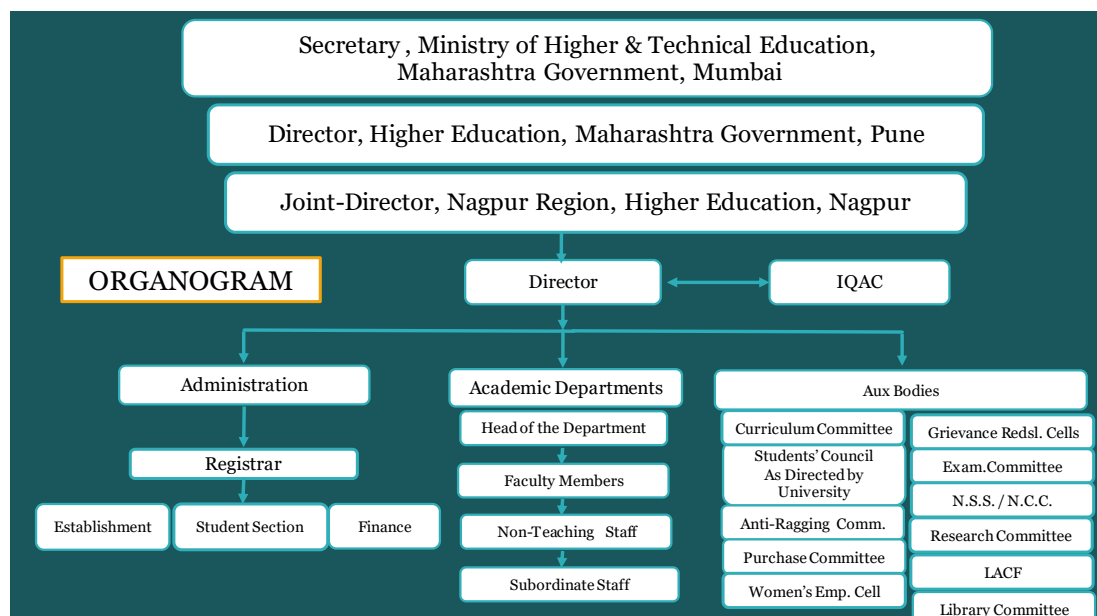
1. Aims and objectives

- a) To modify the existing syllabus of the courses according to the needs of the society.
- b) To upgrade Science and technology to achieve the required targets.
- c) To impart updated information/knowledge/ skills to the teachers.
- d) To create favorable environment for overall development of teachers
- e) To enhance the quality of teachers
- f) To improve evaluation pattern i.e. choice based credit system of Evaluation
- g) To evolve methods of assessment of students' performance
- h) To provide platform to the students to indulge in the work having societal impact.
- i) To involve the students in various curricular and non-curricular activities.
- j) To implement ways to enhance academic as well as non academic Administration

2. Management of the college

Institute of Science, Nagpur was established in 1909 under the aegis of British, with a sole motto of providing quality education to the students of central India region. The Institute is situated in the center of Nagpur city. The mission of the institute is to empower the students with scholastic attitude, professional integrity and humanitarian values and to keep pace with competitive professional world.

Institutional Management is a part of Educational Management. The processes of management are from top to bottom. Institutional management involves the following:



3. Governance Plan Indicating The Proposed Institutional Structure

Number	Category	Nature
3 Members one of them to be Chairperson	Educationist, Industrialist, Professional	Nominated by the State Government, persons of proven academic interest with at least PG level qualification
2 Members	Teachers of the College	Nominated by the Director on seniority by rotation.
1 Member	Educationist or industrialist	Nominated by the Director for two years
1 Member	UGC Nominee	Nominated by UGC
1 Member	State Government nominee	Nominated by the State Government
1 Member	University Professor	Nominated by the University
1 Member	Director of College	Ex-Officio

Term: The term of the nominated members shall be two years except UGC Nominee whose term will be full six years.

I. **Meeting:** The meeting will be held at least twice a year.

II. **Objectives :** The objectives of Governing body are:

1. To fix the fees and other charges payable by the students of the college on the recommendation of the Finance Committee.
2. To approve the scholarships, fellowships, studentships, medals, prizes and certificates on the recommendations of the Academic Council.
3. To approve Institutional new programs of study leading to degrees
4. To constitute institute committees and perform such functions as may be necessary and deemed fit for the proper development and fulfillment of the objectives by which the Institute will be declared as autonomous.

ACADEMIC COUNCIL

I. **COMPOSITION OF ACADEMIC COUNCIL:**

- a) The Director (Chairman)
- b) All the Heads of Departments in the Institute
- c) Four teachers of the Institute representing different categories of teaching staff by rotation on the basis of seniority of service in the college.
- d) Not less than four experts/academicians from outside the Institute representing such areas as Industry, Commerce, Law, Education, Medicine, Engineering, Sciences etc., to be nominated by the Governing Body.
- e) Three nominees of the university not less than Professors.
- f) A faculty member nominated by the Director (Member Secretary).

II.	Term: The term of the nominated members shall be three years.
III.	Meetings: Academic Council shall meet at least twice a year.
IV.	<p>Functions of the Academic Council:</p> <p>The Academic Council shall have powers to:</p> <ol style="list-style-type: none"> a) Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc., provided that where the Academic Council differs on any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so. b) Make regulations regarding the admission of students to different programmes of study in the Institute keeping in view the policy of the Government. c) Make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels. d) Recommend to the Governing body proposals for institution of new programmes of study. e) Recommend to the Governing body related to scholarships, studentships, fellowships, prizes and medals, and to frame regulations for the award of the same. f) Advise the Governing body on suggestions(s) pertaining to academic affairs made by it. g) Perform such other functions as may be assigned by the Governing body.

BOARD OF STUDIES

I.	<p>Composition of Board of Studies:</p> <ol style="list-style-type: none"> a) Head of the Department concerned (Chairman). b) The entire faculty of each specialization. c) Two subject experts from outside Institute to be nominated by the Academic Council. d) One expert to be nominated by the Director of Institute from a panel of six recommended by the Head of the respective department. e) One representative from industry/corporate sector/allied area relating to placement. f) One postgraduate meritorious alumnus to be nominated by the Director of the Institute. The Chairman, Board of Studies, may with the approval of the Director of the Institute, co-opt: <ol style="list-style-type: none"> i. Experts from outside the Institute whenever special courses of studies are to be formulated. ii. Other members of staff of the same faculty.
II.	Term: The term of the nominated members shall be three years.
III.	Meetings: The Board of studies shall meet at least twice a year.

IV. Functions: The Board of Studies of a Department in the Institute shall:

- a) Prepare syllabi for various courses keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and approval of the Academic Council;
- b) Suggest methodologies for innovative teaching and evaluation techniques;
- c) Suggest panel of names to the Academic Council for appointment of examiners; and
- d) Coordinate research, teaching, extension and other academic activities in the department/college.

FINANCE COMMITTEE

I. Composition of Finance Committee:

- (a) The Director of the Institute (Chairman).
- (b) One person to be nominated by the Governing Body of the college for a period of two years.
- (c) One senior-most teacher of the college to be nominated in rotation by the director of the institute for two years.

II. Term: Term of the Finance Committee shall be three years.

III. Meetings : The Finance Committee shall meet at least twice a year

IV. Functions of the Finance Committee: The Finance Committee shall act as an advisory body to the Governing Body, to consider:

- (a) Budget estimates relating to the grant received/receivable from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy; and
- (b) Audited accounts for the above.

BOARD OF EXAMINATION

I. The Committee will comprise the following :

- a) Director as Chairman
- b) Director of Boards of Examination and Evaluation.(Member Secretary)
- c) All Heads of department one from each subject
- d) Two Members other than Head of each faculty (Nominated by the Director of Institute)

II. Term of Members :

The term of the members shall be three years.

III. Meetings :

The Director of Boards of Examination and Evaluation shall convene a meeting of the Committee at least once in a semester.

IV. Functions:

- (a) Prepare Examination Calendar and conduct the same.
- (b) Make regulations regarding the examination.
- (c) Implement the activities related to these examinations.
- (d) Ensure the implementation on the conduction of External, Internal and Practical examinations and declaration of results.
- (e) Perform such other functions as may be assigned by the Director/Principal.
- (f) To hear and decide the complaint relating to conduct of examination and evaluations.
- (g) To exercise such other power in relation to examination and evaluations as assigned to it by the act.
- (h) To maintain the examination records

For the day to day smooth functioning of the institute committees such as Admission Committee, Academic Audit Committee, Alumni Association , Anti Ragging Committee, Anti Sexual Harassment Committee, Cultural Activities Committee, Grievance Redressal Cell, Internal Quality Assurance Cell, Planning & Evaluation Committee, Prize Distribution Committee, Finance and Purchase Committee, Research Recognition Committee, Result and Analysis Committee, Sports and recreation Committee, Time Table Committee, Training and Placement Committee and Institute Magazine Committee etc. will assist the Director of the institute.

The Director will constitute such other committees as and when required as per the need.

4. Student admissions policy and plan

Student admission policy stepwise:

- i. Admission committee will look after the affairs of student admission for all courses.
- ii. All admission will be as per Government Rules and Regulations
- iii. Aspirant students will have to submit the admission application form duly signed along with the required documents. (Offline and Online mode). The submission will be within time limits.
- iv. Once all application forms are submitted, admission committee will check forms and finalize list of students applying for admission along with any errors reported in application form.
- v. The merit list will be displayed online and offline. Students will be given a couple of days time to take admission after paying the required fees.
- vi. If vacancy exists, the second list will be displayed.
- vii. On completion of the admission process, names of all admitted students will be

displayed on notice board and on website.

viii. The admitted students will be provided ID card of the institute.

5. Curricular aspects

Curricular program- The curricular program will be designed for each subject by the Board of Studies constituted by the Institute and which will be approved by the Academic Council of the College. For detail please see attachment

6. Student feedback system

Feedback committee will monitor teaching and feedback and will be collected through online and offline questionnaire. This will help in enhancing the teaching quality of programs.

The curricula framed by the respective Board of Studies of the Institute will be implemented upon its approval. The Institute has to abide by and follow the curriculum designed by the BOS. Faculties of Institute who are members of BOS in various subjects will contribute significantly to the development of curriculum in their respective subjects.

By obtaining feedback about the curriculum, the suggestions of students will be communicated to BOS members for design and development of curriculum.

Student feedback will be obtained for all the courses conducted in the Institute. The feedback will be analyzed and forwarded for evaluation to IQAC committee. The teachers will be assessed regularly through the Annual Performance Indicator (API), self-performance appraisal, and confidential reports.

7. Internal assessment

Every month students will be required to take tests in every subject and submit assignments in every semester. Projects/ Internships / Seminars/ Study Excursions/ Field Visits, will also be part of the assessment procedure.

Internal assessment also serves as a basis for professional development. Teachers who analyze the work of their students will see trends in student performance that may be related to instruction

8. External assessment

Examinations- Theory and practical will be conducted with help of external/internal

examiners, who will evaluate the students. Project Viva will also be conducted in a similar way. The external examiners will be approved and appointed by the Academic Council of the Institute.

9. Financing plan with details of the source

Institute of Science, Nagpur is a Government Institute run by the Government of Maharashtra. Institute will submit proposal for funds to District planning and development commission, Government of Maharashtra, MHRD/ UGC/ DST and RUSA for new building construction, maintenance of buildings, purchase of Books, purchase of new equipments etc .

10. Academic plan showing the courses proposed and their schedule of offering

Degree courses (Under Graduate & Post Graduate) are available in the Institute. Institute has great academic flexibility in offering the subjects. Program options are as follows-

Stream	Degree	Subject Option
SCIENCE	Bachelor of Science (Semester Pattern)	Physics
		Chemistry
		Mathematics
		Statistics
		Botany
		Zoology
		Environmental Science
		Electronics
		Computer Science
	Master of Science Choice based Credit System(CBCS)	Physics
		Chemistry
		Mathematics
		Statistics
		Botany
		Zoology
	Ph. D.	Physics
		Chemistry
		Mathematics
		Statistics
		Environmental Science

		Botany
		Zoology
		Environmental Science

Students have flexibility to pursue a program with reference to:

1. The teaching time-schedule is decided by Institute, and no flexibility in time frame is available to students.
2. Students with Bachelor's degree in science can get B.Sc. degree in group of three subjects.
3. The three years B.Sc. course is of six semesters. After completion of each semester student has to appear for examination.
4. Students have to offer three optional subjects at degree level. They can opt any of these subjects for Master's degree course. This Institute is a recognized research center. Adequate laboratory and library facilities are available in the departments. Recognized research guides in different subject are available in most of the disciplines.

Range of Core / Elective options offered by the Institute :

1. Elective options at undergraduate level:

Elective options at undergraduate and post graduation level: Several options are available to the students.

English and a second language are compulsory subjects at the first year of degree course. There are three options for second language. Students have to select any one of these: 1. Marathi 2. Hindi 3. Supplementary English

Seven groups are available for study in Undergraduate programs. These are grouped into seven combinations of three subjects each. Students can opt for any one of these seven combinations listed below.

Group No.	Optional Subject	Optional Subject	Optional Subject
1	Chemistry	Physics	Mathematics
2	Chemistry	Botany	Zoology
3	Chemistry	Botany	Env. Science
4	Chemistry	Zoology	Env. Science
5	Physics	Statistics	Mathematics
6	Physics	Mathematics	Electronics
7	Statistics	Mathematics	Computer science

2. Elective options at post graduate level:

Sr. No.	Subjects	Optional Papers
1.	Mathematics	<ol style="list-style-type: none"> 1. General Relativity and Cosmology 2. Operations Research 3. Fluid Dynamics
2.	Physics	<ol style="list-style-type: none"> 1. Atomic and Molecular Physics 2. Material Science
3.	Chemistry	<ol style="list-style-type: none"> 1. Organic Chemistry 2. Physical Chemistry 3. Inorganic Chemistry 4. Analytical Chemistry
4.	Botany	<ol style="list-style-type: none"> 1. Angiosperm taxonomy and Phytochemistry 2. Plant Physiology & Biochemistry 3. Molecular Biology and Biotechnology
5.	Zoology	<ol style="list-style-type: none"> 1. Animal Physiology 2. Fish & Fisheries 3. Mammalian Reproductive Physiology
6.	Statistics	<ol style="list-style-type: none"> 1. Operations Research 2. Statistical Quality Control and Industrial Statistics

3) Research facility is available in following subjects.

Sr. No	Subjects	Sr. No	Subjects	Sr. No	Subjects
1.	Physics	4.	Zoology	7.	Env. Science
2.	Chemistry	5.	Mathematics		
3.	Botany	6.	Statistics		

Library, laboratory and instrumentation facilities are adequate. Research supervisors are available in all the above departments. There is provision for interdisciplinary research.

4) Choice Based Credit System and range of subject options:

The Institute offers such programs at PG level in the Science subjects mentioned above.

5) Skill based certificate course:

The Institute offers certificate courses conducted by the following departments.

- 1) Department of Statistics:- Statistical Package on 'R'
- 2) Department of Botany :- Plant Bio-technology

6) Enrichment courses :

The Institute conducts enrichment program on curricular, co-curricular as well as extracurricular aspects especially those related to social awareness, environment and health to ensure an overall holistic development of the students.

11.	Faculty recruitment policy and plan to meet academic plan requirement
<p>Since it is a government institute the faculty recruitment policy and plan are not within the jurisdiction of the Institute, however the demands for the same will be put forth to the concerned authorities as and when required to fulfill the academic requirements.</p>	

12.	In case of Science & Technology subjects, research plan indicating the research laboratories and other facilities proposed to be established
<p>i. Central Instrumentation facility (Including major instruments):</p> <p>At the global scenario, advanced level research in basic science disciplines has crossed the boundaries and is emerging as an interdisciplinary concept merging chemical, life, physical sciences area under one roof. This scientific research demands need for the state-of-the-art sophisticated instrumentation support in order to work in high priority research area. To cater the to the need of researchers in different areas, the establishment of Central Instrumentation facility housing sophisticated instruments is a necessity.</p> <p>Institute is already having central instrumentation facilities, also each department is having expert laboratory related to the respective department.</p> <p>ii. Common Computer lab facility :</p> <p>Well furnished air conditioned computer lab with modern equipped terminals and loaded with high end software pertaining to the curriculum and high speed internet access.</p>	

iii. Video conferencing lab/ VLC centre:

In the age of MOOC and recorded lectures, colleges are turning to video conferencing as a tool for distance education.

iv. Smart classrooms:

With the aim of enhancing teaching and learning, setting up of smart classrooms is essential, so that students can learn beyond the assigned classroom spaces and times. Thus digital classrooms are modern day pedagogy method of teaching which helps students to emerge out of their shells and become good communicators.

v. Up gradation of research laboratories in Science: The research laboratories need to be upgraded keeping in view the advancing science and technology demands.

vi. Up gradation of Museums of Zoology and Botany departments**vii. Up gradation of Guest house of the Institute**

13.	In case of Humanities and Social Science, research plan indicating the broad areas and nature of field work and research sought to be done	N.A.
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14.	Co-curricular and extra-curricular activities	
<p>Co-Curricular activities: Every year our Institute organizes various co-curricular activities like Workshops, Seminars, Conferences, Student seminars, Quiz competitions, Science forum activity, General knowledge Test, Educational Tours, etc. These activities as well as some new activities like paper presentation competition for students, organizing conferences, seminars/workshops for students, preparation of charts and models, etc would also be organized for students.</p>		
<p>Extra Curricular activities</p>		
<p>Our institute organizes various extra-curricular activities every year through National Service Scheme (NSS), National Cadet Corps (NCC) and Literary, Art & Cultural forum. All these activities will be retained and further strengthened post autonomy for all round development for students.</p>		

15.	Networking plan outlining the teaching and research collaborations and partnerships proposed	
<p>On the recommendation of research advisory committee the teaching and research collaborations will be established from time to time so as to meet the requirements of cutting edge research work</p>		

16.	Infrastructure development plan that would meet the proposed academic and admissions plan as well as all student and other amenities
<ul style="list-style-type: none"> <li data-bbox="253 228 1437 363">▪ Institute of Science has adequate physical facilities and infrastructure for the existing academic program and administrative functions, co-curricular and extra-curricular activities. The Institute campus is spread over an area of 12.5 acres approximately. <li data-bbox="253 396 1437 636">▪ The Institute has a well-defined policy of augmenting infrastructural facilities as a catalyst for ensuring academic excellence. New infrastructure is created and existing one is upgraded to enhance academic standards and to increase efficiency. Moreover, constant and proper monitoring of infrastructure has helped the optimal usage of the existing facilities. <li data-bbox="253 669 1437 753">▪ The Institute reviews the existing situation and submits the plan as per the requirements to various funding agencies through proper channel. <li data-bbox="253 787 1437 816">▪ After the approval, amount is utilized as per the guidelines of the funding agencies. 	

Annexure : 1

Ph. 23236351, 23232701, 23237721
23234116, 23235733, 23232317
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)
UGC Website: www.ugc.ac.in



विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

F. No. 1-1/2004 (CPP-I/C)

The Principal,
Institute of Science
Nagpur, Dist. Nagpur
Maharashtra.

वि. नं. १-१/२००४ नागपुर
भा.क. क्रमांक ४४८६
दिनांक २४/९/१२

September, 2012

19 SEP 2012

Sub: - Recognition of Institute of Science, Nagpur, Dist. Nagpur, Maharashtra under Section 2 (f) & 12 (B) of the UGC Act, 1956.

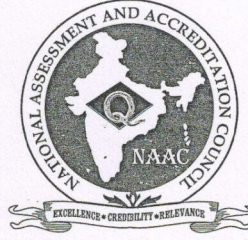
Sir,

With reference to your letter No. NIL dated 26.04.2012 on the above subject I am directed to say that the name of Institute of Science, Nagpur, Dist. Nagpur, Maharashtra established in the year of 1909, affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur is included in the list of Colleges maintained under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head Government College teaching upto Master's Degree. The College is also eligible to receive Central assistance under Section 12 (B) of the UGC Act.

Yours faithfully,

Sunita Gulati

(Sunita Gulati)
Section Officer



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Institute of Science
Civil Lines, Nagpur,
affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Maharashtra as
Accredited
with CGPA of 3.07 on four point scale
at A grade
valid up to June 13, 2024*

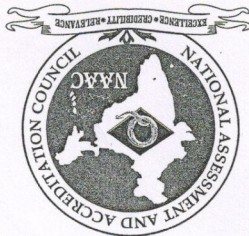
Date : June 14, 2019



S. C. Chandra
Director

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

राष्ट्रीय मूल्यांकन एवं प्रमाणन परिषद
विश्वविद्यालय अग्रदान आयोग का स्वायत्त संस्था



Quality Profile

Name of the Institution : Institute of Science

Place : Civil Lines, Nagpur, Maharashtra

Criteria	Weightage (W _i)	Criterion-wise Weighted Grade Point (Cr WGP _i)	Criterion-wise Grade Point Averages (Cr WGP _i /W _i)
I. Curricular Aspects	090	230	2.56
II. Teaching-Learning and Evaluation	330	1071	3.25
III. Research, Innovations and Extension	118	382	3.24
IV. Infrastructure and Learning Resources	099	347	3.51
V. Student Support and Progression	125	341	2.73
VI. Governance, Leadership & Management	100	277	2.77
VII. Institutional Values and Best Practices	100	305	3.05
Total	$\sum_{i=1}^7 W_i = 962$	$\sum_{i=1}^7 (Cr WGP_i) = 2953$	

$$\text{Institutional CGPA} = \frac{\sum_{i=1}^7 (Cr WGP_i)}{\sum_{i=1}^7 W_i} = \frac{2953}{962} = \boxed{3.07}$$

Grade = A



Date : June 14, 2019

S. C. D. L.
Director

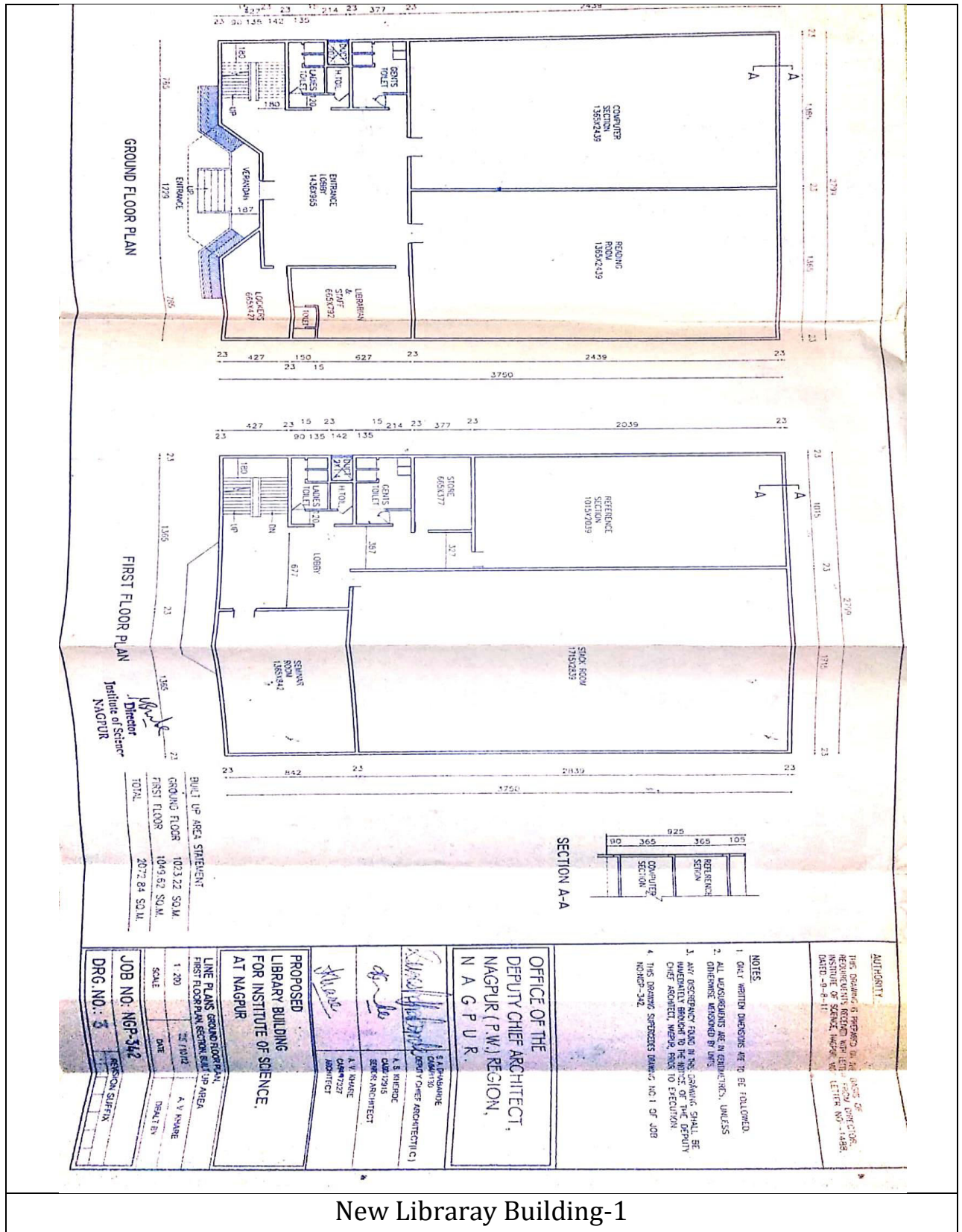
- This certification is valid for a period of Five years with effect from June 14, 2019
- An institutional CGPA on four point scale in the range of 3.51 - 4.00 denotes "A" grade, 3.26 - 3.50 denotes "A" grade, 3.01 - 3.25 denotes "A" grade, 2.76 - 3.00 denotes "B" grade, 2.51 - 2.75 denotes "B" grade, 2.01 - 2.50 denotes "B" grade, 1.51 - 2.00 denotes "C" grade
- Scores rounded off to the nearest integer

EC(SO)/41/RA/R/MHCOGN10489

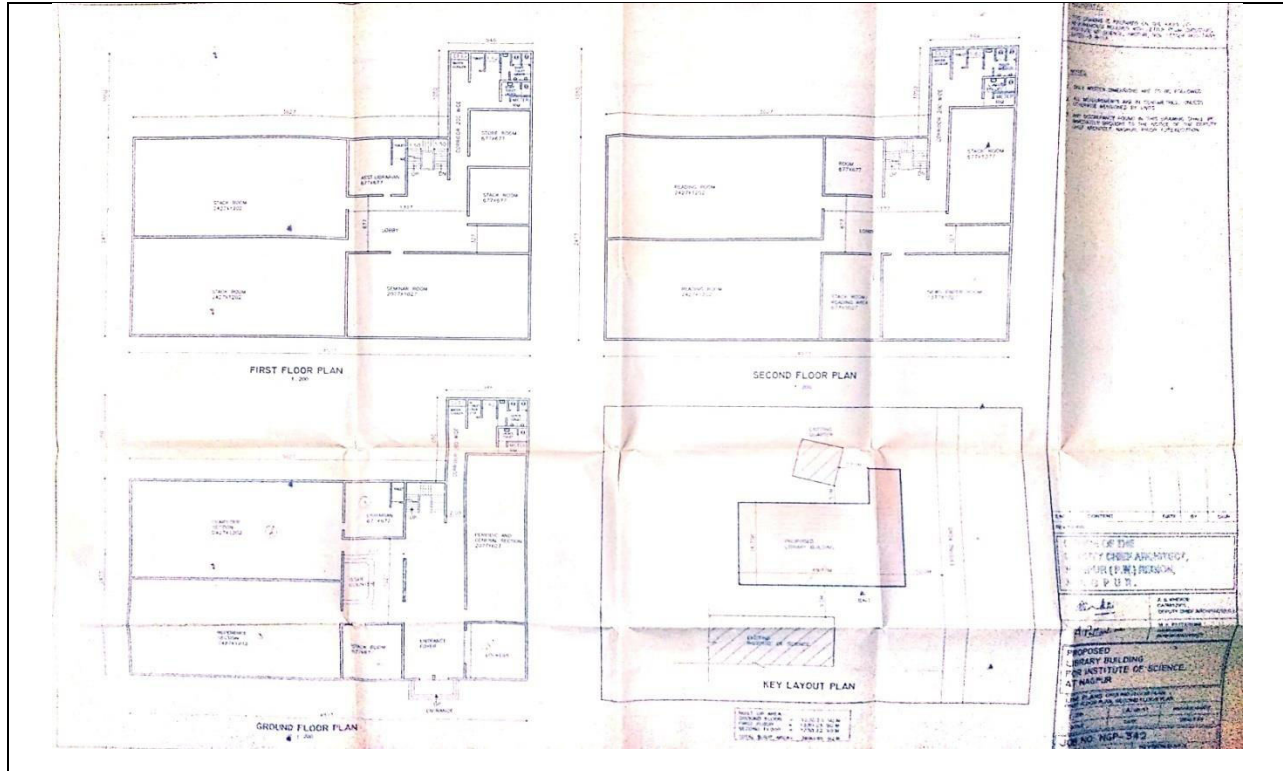
INSTITUTE OF SCIENCE, NAGPUR

Main Building

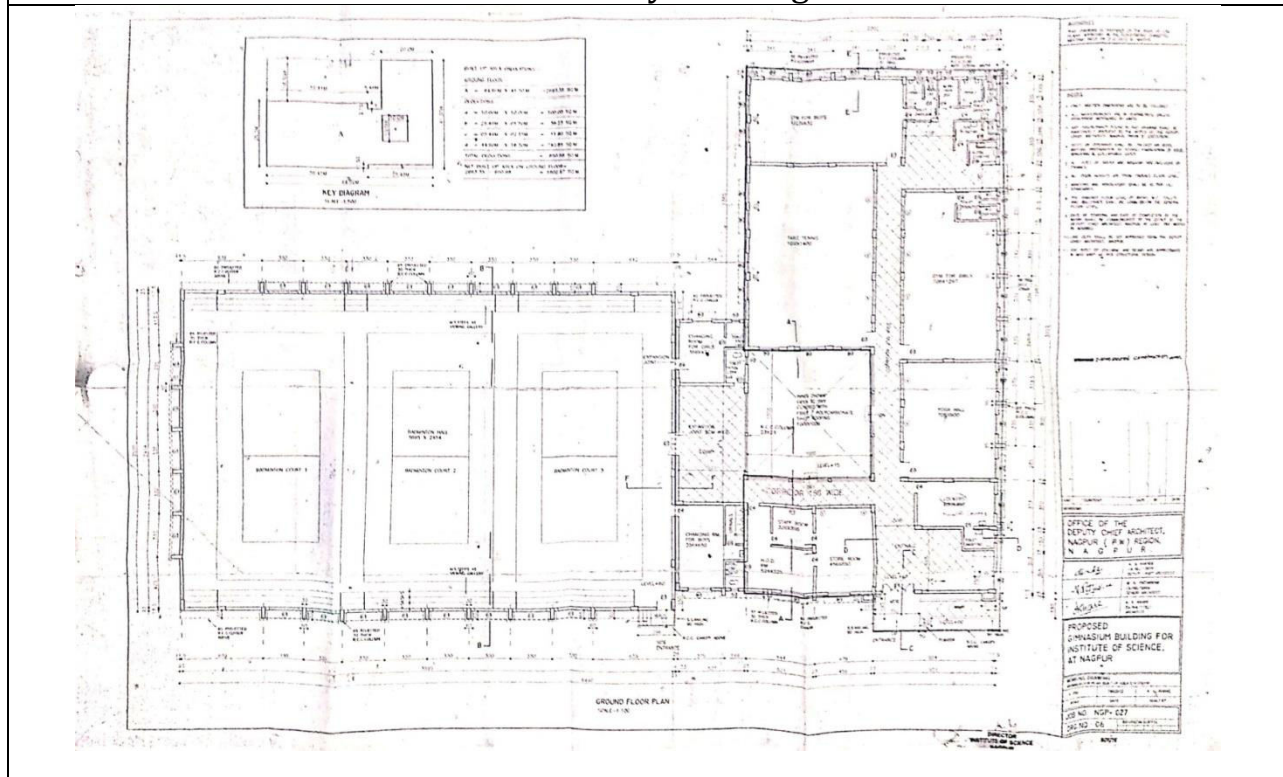




New Libraray Building-1



New Libraray Building-1



Institute of Science, Nagpur Gymkhan Building

Class Rooms (No. of class rooms and covered area in sq. Ft.)

Sr. No	Department	Classroom No.	Area in Sq ft	Total Area in Sq ft
1	Physics	63	552	2424
		80A	936	
		80B	936	
2	Chemistry	9 M.Sc. classroom with LCD	900	9964
		7A	433	
		15	922	
		16	922	
		21	745	
		26A	4748	
		26B		
		27	611	
		40	320	
		40A	363	
3	Zoology	79	1879	2769
		61 M.Sc II	890	
4	Botany	12 M. Sc II classroom	922	2578
		M.Sc. I Classroom	922	
		13 Palyno classroom	734	
5	Statistics	M.Sc. I	1296	2190
		N7		
		M.Sc. II	894	
6	Mathematics	M. Sc II Class Room,	358	1624
		46	1266	
7	Env. Science	N-14	1823	2722
		Env. Science room	899	
8	Conf. Room	39 IQAC	727	727
9	UG Class rooms	41	1248	7255
		42	2220	
		49	759	
		50	749	
		51	733	
		52	760	
		53	756	

Annexure : 5

Laboratories (No. of labs rooms and covered area in sq. Ft.) (List of labs along with equipments to be placed as annexure)

Sr. No	Department	Subject Lab No.	Area in Sq ft	Total Area in Sq ft	List of Equipments
1	Physics	64 Spectro	552	8715	Annexure- Infra-3.1
		65 Research Room	612		
		67 Material Sc	922		
		68 M.Sc. I Lab	1007		
		55 Instrumentation Lab	521		
		58 Computer Room	300		
		B. Sc I lab	2183		
		B. Sc II & III Lab,	2618		
2	Chemistry	Computer Room	377	6854	Annexure- Infra-3.2
		Inorganic PG lab	745		
		PG lab	4745		
		PG lab classroom	376		
		Conference Room	611		
3	Zoology	Cell bio lab - 1	355	3477	Annexure- Infra-3.3
		Cell bio lab - 2	324		
		60 Computer Room	216		
		79 - A M. Sc I lab	1080		
		66 Fresh Water Lab	612		
		MRP Lab	890		
4	Botany	13 Palyno classroom	734	4653	Annexure- Infra - 3.4
		Paleo lab	1123		
		N-2 UG lab	1874		
		5 seminar halls including Computer room	922		
5	Statistics	N10 class room R Lab	599	1299	Annexure- Infra - 3.5
		UG lab	700		
6	Computer	N-8 & N-9 Computer Lab	1517	1517	Annexure- Infra - 3.6
7	Mathematics	Computer Room	246	246	Annexure- Infra - 3.7
8	Electronics	N-11 Electronics lab	898	898	Annexure- Infra - 3.8
9	Env. Science	N-12 & N-13 including Computer Room	1823	1823	Annexure- Infra - 3.9

Department of physics
Lab wise list of instruments
RAMAN RESEARCH LAB (Room No. 65)

SN	Name of Instrument	Quantity
1	Laser raman spectrometer with computer and printer	01
2	Uv-vis spectrometer ocean optics	01
3	Uv-visible spectrometer with computer, lab india	01
4	Ultrasonic interferometer for solid and liquid m-81	01
5	Constant temperature bath unit	01
6	Polarimeter sodium lamp	01
7	Oven, lab hosp ® digital	01
8	Microwave bench unit, n-k enterprises	01
9	Thin film vacuum evaporation unit mansha vacuum equipment pvt ltd.	01
10	Yamato balance	01
11	Lcr q meter	01
12	Ic-regulated power supply	01
13	Digital picometer, dpm-111	02
14	Universal time and frequency counter, aplab 1116	01
15	Keithley 6514 SYSTEM ELECTROMETER	01
16	Four probe setup dfp-03	01
17	Magnetic sturrer with hotplate, macro scientific	01
18	Spot reflecting galvonameter coil resistance	01
19	K-12 classic balance	02
20	True rms ac millivoltmeter	03
21	Stabilized power supply	01
22	Function generator scientific	01
23	Pid oven 200	01
24	Ic regulated power supply (lyzer)	06
25	Universal ic programmer and tester	01
26	Unipro 110 u	01
27	Hysteresis looptracer	01
28	Hydrogen tube	03
29	Mercury lamp	01
30	Adjustable micrometer	01
31	Timer clock	01
32	Study of pn junction	02
33	Solar educational kit	01
34	Microscope	01
35	Spectrometer	01
36	Lcrq bridge 6018	02
37	Pid controlled oven	01
38	Digital lcr meter 925	01
39	He-ne laser	01

Annexure : 5

40	Testronix 30d powersupplyu	01
41	Ac millivoltmeter	01
42	Testronix signal generator	02
43	Lcr bridge	01
44	Frank hertz setup	01

Central Instrumentation Facility (Room No. 55)

SN	Name of Instrument	Quantity
1	Fluorescence Spectrophotometer F-7000 (Hitachi)	01
2	Tube Furnace (Hamco)	01
3	FTIR-8400s (Shimadzu)	01
4	DTG-60 Simultaneous DTA-TG (Shimadzu)	01
5	Quantech Filter Fluorometer (Thermo Scientific)	01
6	UV-Visible Spectrophotometer	01
7	Vacuum Oven (Besto)	01
8	KBr Press Model M-15 (Technosearch Instrument)	01
9	Analytic Balance (Contech)	01
10	Computer	06
11	Oscilloscope I/360	01
12	Optical Microscope	01
13	Printer	05

Annexure : 5

MSc-II Sem-III Physics LAB Room No. 63
List of Equipment

SN	Name of Instrument	Quantity
1	Digital Xerox machine	2
2	Weighing machines	3
3	Digital oven	1
4	Furnace(High Temperature)	
5	D.C.Power Supply	1
6	Digital Nanoammeter	2
7	Hydraulic press	1
8	9302 LCR meter	1
9	Dimmer stat	1
10	Resistance box	1
11	Distillation setup	1
12	IC Regulated power supply 0-16v, 5 am	1
13	Four probe setup	2
14	D.C.Power Supply 5 v,1A	1
15	Micro Ammeter (0-500 μ A)	1
16	DC Voltmeter analog(0-10v)	1
17	Milliammeter analog(0-10ma)	1
18	Rheostat 540 Ω , 0.6 A	1
19	PID control oven	1
20	Digital Pico Ammeter	2
21	High voltage power supply	1
22	Computer	1
23	Digital LCR meter-17	1

MSc-II Sem-III Atomic and Molecular Physics LAB Room No. 64
List of Equipments

SN	Name of Instrument	Quantity
1	Abbes Refractometer	1
2	Ultrasonic Interferometer	1
3	Magnetic stirrer with hot plate	1
4	Malus Law Setup	1
5	He-Ne Laser source	1
6	LCRQ Bridge 6018	1
7	Rotary Vacuum pump	1
8	Vacuum Oven	1
9	One pan Balance	1
10	Adam Hilger Spectrograph	1

Annexure : 5

Annexure : 5

11	UV-Vis Spectrophotometer (SL 159)	1
12	Optical Bench	1
13	Spectrometer	2
14	Helmholtz Coil Unit	1
15	Power Supply 2-12 volts	1
16	Comparator	1
17	Microwave Test Bench Unit	1
18	Magnetic field measurement apparatus Model:MEM-01	1
19	Gunn Power Supply X-110	1+1
20	Klystron Power Supply Model: KP-151	1
21	Computer CPU unit	1
22	Computer	1
23	Power Supply 0-16Volt, 5amp DC	1
24	Ballistic Galvanometer	1+1
25	High Voltage Power Supply	1
26	UPS Microtek	1
27	Mercury Lamp	1
28	Laser Diode Module	1
29	Corners Fringes	1

Laboratory Room: Materials Science Lab MSc II Room No.: 67

SN	Name of the Instrument	Quantity
1	ESR Spectrometer	1
2	Power Supply for Electromagnet	1
3	Constant Current Power Supply	1
4	Constant Current Power Supply	1
5	High Voltage Power Supply EHT - 11	2
6	High Voltage Power Supply EHT - 11	1
7	Power Supply (Stabilised)	1
8	PID controlled Oven	1
9	Mini Ovens (Came With Different Kits)	3
10	Lattice Dynamic Kit	1
11	Electromagnets (Different Sizes)	4
12	Electromagnets	2
13	Electromagnets for Hall Effect (Big Size)	1
14	Electromagnets for Susceptibility (Big Size)	1
15	Furnace (Hand Made)	2
16	Electric Comparator for Lattice Measurements	1
17	Thermal Conductivity kit	1

Annexure : 5

Annexure : 5

18	Hysteresis Loop Tracer with Assembly	2
19	Hysteresis Tracer With Assembly HLT-III	1
20	Function Pulse generator	1
21	Thermoluminescence Temp. Meter (TL-02)	1
22	Unit TL-02B Box Unit	1
23	Nanometer (Digital) (DNM – 121)	1
24	Nanometer (Digital) (DNM – 121)	1
25	Picoammeter (Digital) (DPM 111)	1
26	Low Current Source (LCS 02) + Oven	1
27	LCR Series Resonance Circuit Kit	1
28	LCR Meter (Digital)	1
29	LCR Meter (Caddo 9302)	1
30	Temperature Recorder	1
31	Assembly for BH Curve	1
32	Ionization Potential for Gases Kit (Model 372)	1
33	Digital Panel Meter	6
34	Digital Ohm Meter (Macro Scientific - MAC)	1
35	Multimeter (Digital)(Small)	3
36	Multimeter (Digital) (Big) (Broken)	2
37	Multimeter (Philips Analog)(PH 2421 A)	1
38	DimmerStat	6
39	Voltmeter + Millivoltmeter	3
40	Ammeter + Milliammeter	8
41	Milliammeter	2
42	Ammeter (AC)	4
43	Voltmeter (Also Bandwidth Measurement) Old	1
44	MonoPan Balance	2
45	Monopan Balance (Digital)	1
46	Hall Probe Set Up	2
47	Weight Box	3
48	Lees Disc Apparatus	1
49	Ionised Water unit	1
50	Electric Oven	1
51	Transformer	3
52	Digital Gaussimeter (DGM 102)	2

Annexure : 5

Annexure : 5

53	Digital Gaussimeter (DGM 102)	1
54	Digital Gaussimeter (DGM 102)	2
55	Hall Effect Set Up (One Broken)	2
56	DMR Probe	1
57	DMR Probe	1
58	Oscilloscope POS20A 15MHz	1
59	Oscilloscope 505 D + VOS4PC 5 MHz	2
60	Potentiometer (Portable)	1
61	Travelling Microscope	1
62	Radiation Counting System (OoO) RES 4027	1
63	G.M. Counter tube (Small Size) 5 CM	1
64	Themocouple MU 1 (In Meter)	1
65	Pyrometer (Broken)	1
66	Transformer/Power Supply/ Regulator (OoO)	1 each
67	Magneto-resistance Set Up	1

MSc-I

Room No. 68

SN	Instrument	Quantity
1	APLAB DSO	1
2	CRO Metro Q 0516B	3
3	Hysteresis loop tracer	1
4	Multifunctional Oscillator	1
5	Spectroscopy instruments parts	1
6	Helmholtz coil	1
7	IC regulated power supply	1
8	Magnetoresistance setup	1
9	Mini control oven	2
10	Oscillator	3
11	Audio signal generator	1
12	Travelling Microscope	2
13	Crystal structure model	11
14	Electron spin resonance spectrometer	1
15	Ferromagnetic sample coil	1
16	RF oscillator	1
17	Voltage regulator	4
18	Planks Constant Setup	1
19	Ammeter	7

Annexure : 5

Annexure : 5

20	Analog multimeter	11
21	Oil drop set up	1
22	Michelson interferometer setup	1
23	Transformer	5
24	Galvanometer	2
25	Solenoid	2
26	Polizer analyser assembly	1
27	Lens with holder	2
28	Electromagnetic Power supply	1
29	Light Source Assembly	1
30	Digital Gaussmeter	1
31	Four Probe setup	3
32	BH curve apparatus	1
33	PID control oven	1
34	Audio oscillator	1
35	He-Ne laser	1
36	Digital Multi meter	2
37	Polarizer	1
38	Inverter	1

Annexure : 5**MSc-I Electronics Lab List of Equipments**

SN	Instrument	Quantity
1	Function Generator	2
2	VTVM	1
3	CRO	7
4	IC-RPS	4
5	Voltmeter DC	2
6	Resistance Box	6
7	Micro ammeter	2
8	Variac	3
9	Rheostat	12
10	Bread Board	8
11	Digital Multimeter	6
12	Galvanometer	1
13	Digital Trainer Kit	1

MSc Room No. 58: Computer Lab

SN	Instrument	Quantity
1	ACER Veriton Computers	11
2	HCL Keyboard, CPU, Monitor, CPU	1 each
3	HCL Homeoclinic White Computer	1
4	HP ELITE 7100 COMPUTER	
5	PRINTER TVS MSP 245	1

HOD Room**Room No. 57 List of Equipments**

SN	Name of Instrument	Quantity
1	CRO-30 M Dueltrace, Caddo 803	2
2	HCL monitor	3
3	HCL	1
4	Digital nanometer	1
5	Electrometer EM 1000	1
6	Voltage Stabilizer	1
7	Heat capacity Kit	1
8	Ultrasonic interferometer	1
9	Ultrasonic Attenuation	1
10	Ultrasonic time intervoltmeter	1
11	Condenser type-428	2
12	Condenser type-121	1
13	HP printer and Xerox	1

Annexure : 5

Annexure : 5

14	Scanner (Scanjet) HP 2300C	1
15	Inverter	1
16	Inverter	1

List of Instruments in B.Sc.-I Lab

SN	Instrument	Quantity
1	Multi-meter	6
2	Mili voltmeter	5
3	Battery eliminator	2
4	Ammeter	4
5	Voltmeter	11
6	Micro ammeter	7
7	Travelling microscope	8
8	Dimmer stat	2
9	Telescope	1
10	Breadboard	2
11	Transformer	4
12	Stop watch	9
13	Rheostat	5
14	Magnetic Needle	9
15	Galvonameter	3
16	Thermometer	12
17	Millimeter	8
18	Variac	1
19	Resistance Box	7
20	Magnetic Field Measurement Apparatus	1
21	Electric Kettle	1
22	Induction Stove	1
23	Flywheel	1
24	Maxwell needle	2
25	Tensional Pendulum	4
26	Statical Method Rod	2
27	Vernier Calliper	22
28	Screw Gauge	17
29	IC regulated power supply	2
30	Cantilever	2
31	Thin metal plate	2
32	Wooden Scale	2
33	Young's Modulus apparatus	2
34	Dielectric Constant Kit	1
35	Signal Generator	1
36	LCR impedance apparatus	1
37	Tunning Fork	12
38	Copper travelling Microscope	1

Annexure : 5

Annexure : 5

39	Kater's Pendulum	2
40	Bar Pendulum	2

List of Instruments in B.Sc.-II and III Lab.

SN	Instrument Name	Quantity
1	Polaroid	2 Set
2	Polarizer	2 SET
3	Stabilized Power Supply	01
4	Microprocessor power supply	01
5	Multi meter	05
6	Micro ammeter	05
7	Vernier Caliper	03
8	Screw Gauge	01
9	Voltmeter	10
10	Galvanometer	02
11	Resistance Box	05
12	A.C. voltmeter (5v)	02
13	Rheostat	17
14	transformer	02
15	Power supply	07
16	Magneto resistance set up	01
17	Photodiode Characteristics	01
19	Milli ammeter	15
20	Spherometer	04
21	Demonstrator	03
22	Magnetic Stirrer	01
23	Cooking Burner	01
24	Milken oil drop	02
25	Digital Microvoltmeter	02
26	High Voltage Power supply	01
27	Study of Dielectric Constant	01
28	Tuning Fork Set	03
29	Zener Diode Characteristics	02
30	Helmholtz	01
31	Volume Resonator	02
32	Analog Multimeter	02
33	Function Generator	03
34	Electronic trainer board	02
35	Amplitude Modulation and Demodulation	01
36	Frequency Modulation Demodulation	01
37	Digital Penal Meter	01
38	Telescopes	02
39	spectrometer	05
40	Filter Characteristics Kit	01

Annexure : 5

Annexure : 5

41	Hartley and Colpitts Oscillator KIT	01
42	Transistor Characteristics Kit	01
43	Resonance RLC Circuit	01
44	Solar Cell Characteristics	05
45	PN-Junction Diode Characteristics Kit	01
46	LED Characteristics Kit	01
47	Energy Band Gap Kit	02
48	FET Characteristics Kit	02
49	Thermistor Characteristics	05
50	Digital Storage Oscilloscope	01
51	Tuned Diode Characteristics	02
52	CRO	04
53	Half Wave Full Wave KIT	01
54	e/m by Thomson Method SET	03
55	Modulation Demodulation	01
56	IC Regulator Power Supply	07
57	Step Down Transformer	02
58	Frequency Modulation kit	01
59	Clipper Clamper Kit	
60	Analog Counter System	03
61	Multimeter Analog	02
62	Fixed Regulated Power Supply	02
63	Operation on Phase Lock Loop	01
64	AM/FM Signal Generator	03
65	Function Generator	03
66	Ammeter 1 Amp	02
67	Milli voltmeter 100 mV	01
68	Sodium lamp 35 W	04
69	Digital Voltmeter	01
70	Function Generator	01
71	Oscillator for Bridge 1KHz	01
72	Voltmeter 3V	01
73	Fiber Optic Trainer Kit	01
74	CRO	3
75	AC millivoltmeter	01
76	Power Supply	01
77	Hall Effect Setup	01
78	Constant Current Supply	01
79	Function Generator	02
80	CRO	01
81	IC Regulated Power Supply	01
82	Plank Constant Apparatus	01
83	Four probes Set up	01
84	Dielectric Constant Apparatus	01
85	Portable Wheatstone Bridge	01

Annexure : 5

List of Instruments with Geo- tagged Photographs



1 Thin Film Vacuum Evaporation Unit



2 Constant Temperature Bath Unit



3 Polarimeter



4 Oven



5 Laser Raman Spectrophotometer



6 UV- VIS Spectrophotometer



7 Hydraulic press



8 Four probe Setup



9 Furnace



10 Furnaces



11 Water Distillation Plant

Department of chemistry
List of Equipments

Sr. No	Instrument Description	Quantity
1	Abbe's Refractometer	7
2	Biotechnique Oil Bath	1
3	Compact Lab Centrifuge with speed regulator digital timer	4
4	Digital Balance	19
5	Digital Colorimeter	11
6	Digital Conductivity meter	24
7	Digital Flame photometer	2
8	Digital Melting Point apparatus	8
9	Digital Nephlo turbidimeter	5
10	Digital pH meter	14
11	Digital polarimeter	2
12	Digital Potentiometer	18
13	Digital table electronic balance	8
14	Digital Visible spectrophotometer	8
15	Electrophoresis Apparatus	2
16	Electrochemical Work Station	1
17	Flask Shaker	1
18	FTIR	1
19	Hair Dryer	3
20	Heating Mantle Coil	6
21	Hot Air Oven	6
22	Magnetic Stirrer	27
23	Melting Point Apparatus	1
24	Muffle Furnace	6
25	Muffle type Soxhelt Apparatus	2
26	Photo Electric Colorimeter	13
27	Refrigerator Double door	9
28	Single Pan Balance	15
29	Teflon Lined SS-316 High Pressure Vessel Autoclave	1
30	UV-Visible Spectrophotometer	4
31	Vacuum Oven	1
32	Vacuum Pump	7
33	Water Distillation Unit (Automatic-Electricity)	4

List of Instruments with Geo- tagged Photographs



1 FT-IR Spectrophotometer



2 Hydraulic Press



3 Flame Photometer



4 Electroanalytical Work Station



5 UV-VIS Spectrophotometer



6 UV-VIS Spectrophotometer



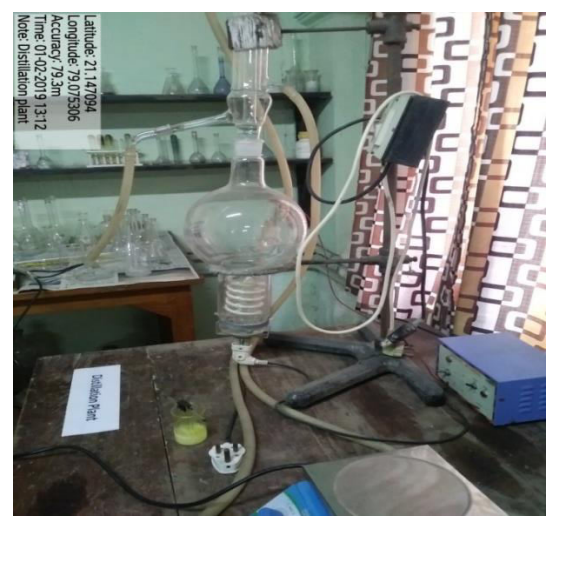
7 UV-VIS Spectrophotometer(Computer Based)



8 VIS Spectrophotometer



9 Deep Freezer






10 Distillation Assembly



11 Hot Air Oven



12 Autoclave

 <p>Latitude: 21.147244 Longitude: 79.075017 Accuracy: 85.9m Time: 01-02-2019 13:11 Note: Sonicator</p>	 <p>Latitude: 21.147244 Longitude: 79.075017 Accuracy: 85.9m Time: 01-02-2019 13:06 Note: Centrifuge</p>
<p>13 Sonicator</p>	<p>14 Laboratory Centrifuge</p>
 <p>Latitude: 21.147478 Longitude: 79.07534 Elevation: 318.78m Accuracy: 19.7m Time: 01-02-2019 13:19 Note: Muffle furnace</p>	 <p>Latitude: 21.147478 Longitude: 79.07534 Elevation: 318.78m Accuracy: 19.7m Time: 01-02-2019 13:24 Note: Muffle furnace</p>
<p>15 Muffle Furnace</p>	<p>16 Muffle Furnace</p>
 <p>Latitude: 21.147478 Longitude: 79.075335 Elevation: 318.78m Accuracy: 18.2m Time: 01-02-2019 13:22 Note: melting point apparatus</p>	 <p>Latitude: 21.147478 Longitude: 79.07532 Elevation: 317.8m Accuracy: 30.1m Time: 01-02-2019 13:23 Note: Centrifuge</p>
<p>17 Digital Melting Point Apparatus</p>	<p>18 Centrifuge</p>

Department of Zoology
List of Equipments

S.No.	Name of equipment	Utility
1	Rotary Microtome	U.G , P.G and Research
2	Hot Air Oven	U.G , P.G and Research
3	Centrifuge	U.G , P.G and Research
4	Digital Ph Meter	U.G , P.G and Research
5	Electronic Balance	U.G , P.G and Research
6	Digital Photo Colorimeter	U.G , P.G and Research
7	Pen Ph meter	U.G , P.G and Research
8	Water Bath	U.G , P.G and Research
9	Compound Microscopes	U.G , P.G and Research
10	Double distillation apparatus	U.G , P.G and Research
11	Triple distillation apparatus	U.G , P.G and Research
12	Incubater	U.G , P.G and Research
13	Dissecting Microscope	U.G , P.G
14	Heamometers	U.G and P.G
15	Heamocytometers	U.G and P.G
16	UV Spectrophotometer	P.G and Research
17	Micropipetts	P. G and Research
18	UV Transilluminator	P. G and Research
19	Electrophoresis apparatus	P.G and Research
20	BOD Incubater	P.G and Research
21	Flame Photometer	P.G and Research
22	Cooling Centrifuge	P.G and Research
23	Projecting microscope	P.G
24	LCD Projector	P.G
25	Computers	P.G
26	Printers	P.G
27	Deep Freeze	Research
28	Shaker	Research
29	Vortex Mixer	Research
30	Thermocycler	Research
31	Gel Documentation unit	Research
32	Microcentrifuge	Research
33	Laminar Air Flow	Research
34	Leica Microtome	Research
35	Cryostat	Research

List of Instruments with Geo- tagged Photographs



1 Ovens



2 Cryostat Microtome



3 Leica rotary Microtome



4 UV- Water bath and Centrifuge



5. Projection Microscope



6 Bacteriological Incubator

List of Instruments with Geo- tagged Photographs



7 BOD Incubator



8 Triple Distillation Unit



9 UV Transillminator



10 PC based thermocycler and Gel Doc



11 Centrifuge



12 Cooling Centrifuge

List of Instruments with Geo- tagged Photographs



13 Laminar air flow chamber



14 Shaker Electrophoresis Photo Colorimeter

Department of Botany
List of Instruments

Sr. No.	Name of the Instrument	Quantity
1	Autoclave (Vertical)	1
2	Digital Spectrophotometer	1
3	Vaccume Oven	1
4	Vaccume Pump	1
5	Digital pH meter	1
6	Pocket pH meter	1
7	Stereo zoom binocular microscope	4
8	Monocular Research microscope	3
9	Monocular Research microscope	3
10	Monocular Research microscope	3
11	Monocular Research microscope	1
12	Ultra Pure Water (R. O.)	1
13	Berchard's Air Sampler	1
14	Biostereoscopic zoom microscope	1
15	Sieve Brass (150 mesh)	2
16	Sieve Brass (500 mesh)	2
17	Compound Microscope (L.S.)	11
18	Dissecting Microscope	20
19	Dissecting Microscope	20
20	Precision Digital balance	1
21	Digital Spectrophotometer Systronics	1
22	Digital Spectrophotometer Systronics	1
23	Student Microscope Advanced Weswox	7
24	Student Microscope Advanced Weswox	7
25	Balance Compact Scale	2
26	Binocular Research microscope	2
27	Binocular Research microscope	2
28	Lab oven (Biotechnic)	1
29	Air Conditioner	2
30	Desktop Computer	2
31	Desktop Computer	2
32	Ocular Micrometer disc	6

Annexure : 5

33	Stage Micrometer	2
34	Cuvettes (Glass)	2
35	Cuvettes (Quartz)	2
36	Heating Mantle	1
37	Geosync rock cutting machine	1
38	Cuvettes (Glass)	5
39	Cuvettes (Plastic)	1
40	Haemocytometer	4
41	Occular Micrometer disc	29
42	Stage Micrometer	28
43	Digital photocolrimer	3
44	Soxlet apparatus	6
45	Student Microscope	6
46	Student Microscope	10
47	Electronic balance top pan	2
48	HPLC unit (Central purchase)	1
49	Dissecting Microscope	20
50	Dissecting Microscope	20
51	Scanner	1
52	HP printer MFP1136	1

List of Instruments with Geo- tagged Photographs



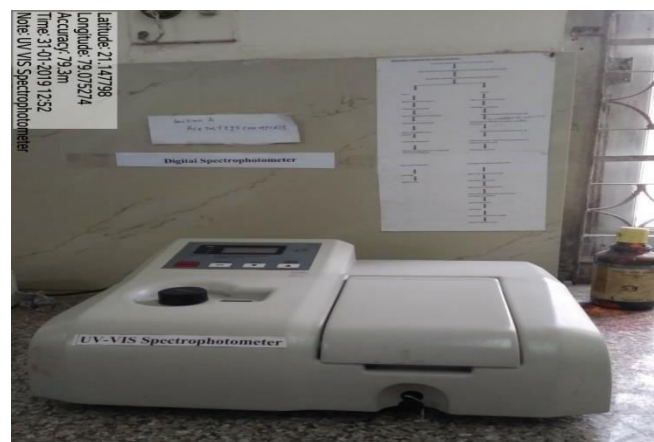
1 HPLC Unit(High- Performance liquid chromatography)



2 Cooling Centrifuge Unit



3 Bacteriological Incubator



4 UV- Visible Spectrophotometer



5 HiEco Airflow



6 Laminar Air Flow Chamber



7 Deep Freezer



8 Plant Tissue Culture Laboratory



9 Rock Cutting Machine



10 Rock grinding Machine



11 Burkard Air Sampler



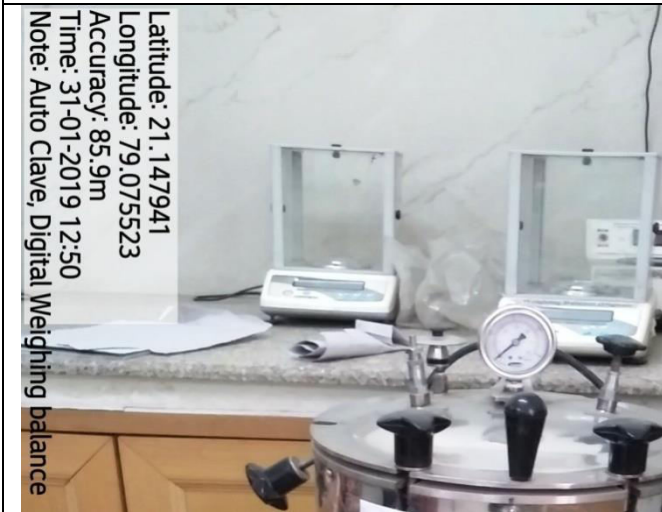
12 Glassware Drayer



13 B.O.D. Incubator



14 Orbital Shaking Incubator



15 Digital Weighing Balance



16 Carl Zeiss Photography Microscope



17 Automatic Autoclave



18 Microwave Oven



19 Microprocessor based Centrifuge



20 Hot Air Oven



21 Vacuum Oven



22 laminar air Flow Chamber

**Department of statistics
List of Equipments**

Sr. No.	Lab No.	Name of Instrument	Quantity
1	N10- R Lab	Computers	22
		Laser Printer	01
2	UG Lab	Projector	01
3	PG Lab	Projector	02
		Computers	55
		Smart Class Room Equipments	01
		Laser Printer	02

Computer Labs with Geo- tagged Photographs



Statistics, Computer Room I

Statistics, Computer Room II

**Department of Computer Science
List of Equipments**

Sr. No.	Lab No.	Name of Instrument	Quantity
1	N8 and N9 – UG Lab	Computers	25
		Laser Printer	05
		Projector	02
		Smart Class Room Equipments	01

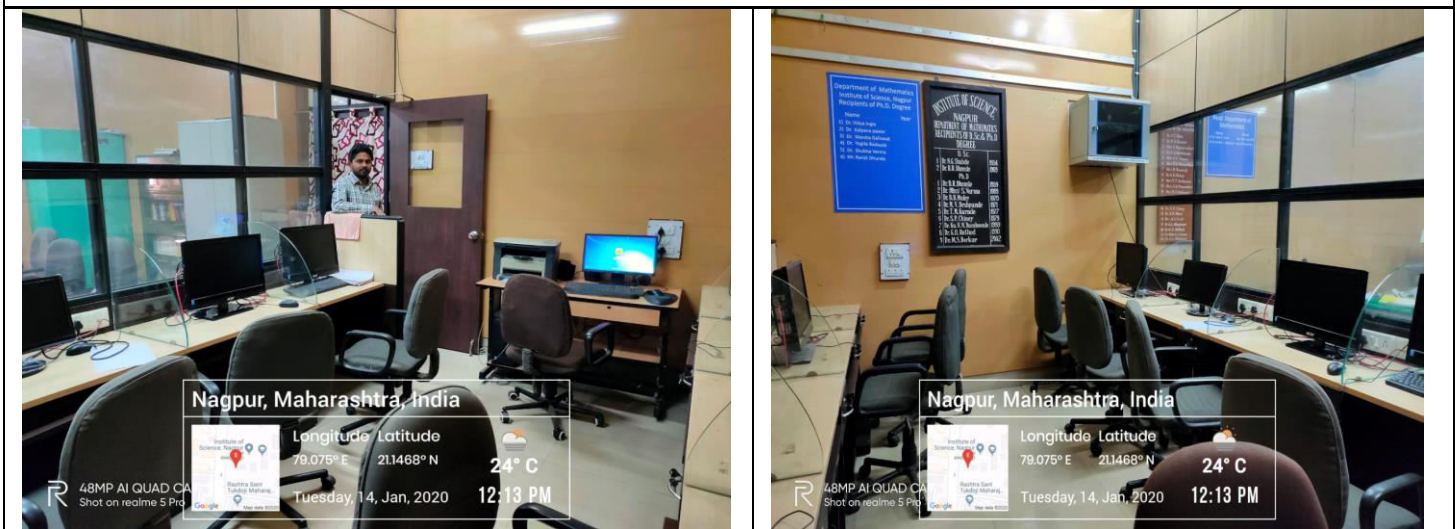


Computer Science, Laboratory

**Department of Mathematics
List of Equipments**

Sr. No.	Lab No.	Name of Instrument	Quantity
1	Room No 46 and PG lab	Computers	08
		Laser Printer	02
		Projector	02
		Smart Class Room Equipments	01

Mathematics with Geo- tagged Photographs



Mathematics, Computer Centre

**Department of Electronics
List of Equipments**

Sr. No.	Lab No.	Name of Instrument	Quantity
1	Room No N11	Computers	05
		Laser Printer	02
		Projector	01
		Digital Storage Oscilloscope	01
		Interactive Board	01

Department of Environmental Science

List of Instruments with Geo- tagged Photographs



1 Double Distillation Assembly



2 Bacteriological Incubator



3 Muffle Furnace



4 Hot Air Oven

Annexure : 5



Latitude: 21.146858
Longitude: 79.075584
Elevation: 301.79m
Accuracy: 45.5m
Time: 01-02-2019 12:29
Note: Extraction unit

5 Extraction Unit



Latitude: 21.146856
Longitude: 79.075585
Elevation: 319.79m
Accuracy: 254.5m
Time: 01-02-2019 12:31
Note: Respirable dust sampler

6 Respirable Dust sampler



Latitude: 21.146974
Longitude: 79.075288
Accuracy: 499.9m
Time: 01-02-2019 12:32
Note: BOD incubator

7 B.O.D. Incubator



Latitude: 21.143847
Longitude: 79.070861
Accuracy: 526.2m
Time: 01-02-2019 12:33
Note: spectro photometer visible range

8 Visible Spectrophotometer



Latitude: 21.14072
Longitude: 79.066464
Accuracy: 836.3m
Time: 01-02-2019 12:34
Note: Double beam digital spectro photometer

9 Double Beam Spectrophotometer



Latitude: 21.144562
Longitude: 79.080963
Accuracy: 500.3m
Time: 01-02-2019 12:36
Note: Hot air ovens

10 Hot Air Oven



Latitude: 21.147248
Longitude: 79.075902
Elevation: 334.79m
Accuracy: 292.8m
Time: 01-02-2019 12:37
Note: CoD digester

11 C.O.D. Digester



Latitude: 21.147318
Longitude: 79.076108
Elevation: 331.78m
Accuracy: 264.0m
Time: 01-02-2019 12:38
Note: Flocculator

12 Flocculator



Latitude: 21.147219
 Longitude: 79.075655
 Elevation: 317.79m
 Accuracy: 63.7m
 Time: 01-02-2019 12:39
 Note: Air sampler portable

13 Air Sampler Portable



Latitude: 21.146921
 Longitude: 79.075252
 Accuracy: 82.9m
 Time: 01-02-2019 12:41
 Note: Flamephotometer

14 Flame Photometer



Latitude: 21.146951
 Longitude: 79.075427
 Accuracy: 85.9m
 Time: 01-02-2019 12:42
 Note: Ultra pure water plant

15 Ultra Pure Water plant



Latitude: 21.146326
 Longitude: 79.075393
 Accuracy: 72.8m
 Time: 01-02-2019 12:44
 Note: UV VIS SPECTRPHOT

16 UV- VIS Spectrophotometer

Central Library



New Library Building (On the verge of Completion) - Area 22311.86 Sq. Ft.

Institute of Science Library is one of the oldest library from central India. It has large collection more than 50000 books including rare books, bound volumes of journals, reference books and Ph.D. thesis. Due to advancement in internet and computer facilities at institute library e-books, e-journals, digital database, video CD's and ample open accesses resources made available for users. All these additional resources enriched knowledge avenues of library.

SOUL Software of University Library software is in use for library automation. It is multi-user, multi-tasking integrated library management software. It helps us for the effective preparation of catalogue books, e-books, films, sound recordings, drawings, clippings, articles, reports, letters, pamphlets, serials publications etc. SOUL software is regularly updated by UGC-INFLIBNET and various new functions are introduced as per customer requirement. The upgraded version is given by UGC-INFLIBNET free of cost through online.

- | | | | |
|------|---------------------------------|----|--|
| (i) | Total Area | :- | Existing Library 5340 Sq. Ft
New Library Building (On the
verge of Completion) - 01
(Area 22311.86 Sq. Ft.) |
| (ii) | Whether reading room available? | :- | Yes |

- (iii) Details about books, titles, Journals :- **Annexure-Infra-4.1**
(National/International), CDs, e-resources,
e-journals, Theses, etc.)

Annexure-Infra-4.1

Details about books, titles, Journals (National/International), CDs, e-resources, e-journals, Theses, etc.)

Total Collection of Library

Sr. No	Subject	Total Books
1	Zoology	5112
2	Botany	3419
	Env. Sci.	1300
3	Math	4805
4	Chemistry	4473
5	Physics	3615
6	Statistics	2683
7	English	3364
8	Marathi	4317
9	Hindi	3559
10	UGC Merge Scheme	1485
11	Ph. D Theses	200
12	Bound Volume of Journals	7712
	Botany	861
	Physics	1261
	Chemistry	1574
	Math	597
	Statistics	755
	Zoology	1495
	Gen. Science	1169
13	Reference Books	2000
14	Shift to other Deptt.	2000
15	Write off & Cost paid books	2386
16	e-Books	97000 + UGC- NLIST,DELNET
17	e-Journals	3000 + UGC-NLIST, DELNET
18	Digital Database	10 UGC-NLIST, DELNET
19	CD & Video	100
20	Open Access Resources	1-9

UGC-NLIST , INFLIBNET <http://nlist.inflibnet.ac.in/about.php>

The Project entitled "National Library and Information Services Infrastructure for Scholarly Content (N-LIST)", being jointly executed by the UGC-INFONET Digital Library Consortium, INFLIBNET Centre and the INDEST-AICTE Consortium.

E-resources through N-LIST Programme

E-Journals Full Text			
Sr. No.	Publisher	Titles	URL
1	American Institute of Physics	18	http://journals.aip.org/
2	American Physical Society	10	http://publish.aps.org/browse.html
3	Annual Reviews	33	http://arjournals.annualreviews.org/
4	Cambridge University Press	224	http://journals.cambridge.org/
5	Economic and Political Weekly (EPW)	01	http://www.epw.in/
6	Indian Journals	150	http://www.indianjournals.com/
7	Institute of Physics	46	http://www.iop.org/EJ/
8	Oxford University Press	206	http://www.oxfordjournals.org
9	Royal Society of Chemistry	29	http://www.rsc.org/Publishing/Journals/
10	H. W. Wilson	1420	http://vnweb.hwwilsonweb.com/hww/jumpstart.jhtml
Total			2137
E-Books			
1	Cambridge Books Online	1000+	http://ebooks.cambridge.org
2	E-brary	70000+	http://site.ebrary.com/lib/inflibnet
3	EBSCoHost-Net Library	936	http://www.netlibrary.com/
4	Hindustan Book Agency	65+	http://hindustan.igpublish.com
5	Institute of South East Asian Studies (ISEAS) Books	382+	http://iseas.igpublish.com
6	Oxford Scholarship	902	http://www.oxfordscholarship.com/
7	Springer eBooks	1500+	http://www.springerlink.com
8	Taylor Francis eBooks	1000+	http://inflibnet.etailer.dpsl.net
9	Myilibrary-McGraw Hill	1124	http://lib.myilibrary.com/
Total			76909

Bibliographic Database			
1	MathSciNet	--	http://www.ams.org/mathscinet/
E-Resources for Universities			
1	Web of Science	--	http://isisknowledge.com
E-Resources for Technical Institutions (IITs, IISc, IISERs and NITs)			
1	Annual Reviews	--	http://arjournals.annualreviews.org/
2	Project Muse	--	http://muse.jhu.edu/
3	Nature	--	http://www.nature.com/

DELNET, New Delhi Link: <http://www.delnet.in/>

a) Union Catalogue of Books

DELNET maintains an online union catalogue of books available in its member-libraries. This union catalogue is continuously updated and is growing in size. The information can be retrieved by author, title, subject, conference, series, etc. It has **2,66,61,564** bibliographic records. The request for inter-library loan can be placed through the online system.

b) Union List of Current Periodicals

DELNET has created union lists of current periodicals in science and technology, social sciences and humanities. This database is available online to DELNET users. It now lists 37,847 periodicals and is regularly updated and new titles are added annually. It is a major resource for Document Delivery Services.

c) Union Catalogue of Periodicals

DELNET maintains a union catalogue of periodicals, which contains full holdings data of the libraries. At present, the database contains 20,235 records.

d) Database of Periodical Articles

The database has details of articles which can be searched under the title, author, compiler, name of the periodical and subject. The database is being extensively utilised by the researchers and scholars. At present the database contains **9,84,809** records.

e) CD-ROM Database

A bibliographic database of CD-ROMs available with the member-libraries is being compiled. It has **61,750** records.

f) Union List of Video Recordings

This is a database of video cassettes available in DELNET member-libraries and has about 6,000 listings.

g) Union List of Sound Recordings

This union list consists of audio cassette records available in member-libraries. This database has 1,025 records.

h) Database of Theses and Dissertations

A database of Theses and Dissertations submitted to Indian Universities has been started, which covers various subjects. The database has **1,30,753** records.

i) Union List of Newspapers

The database has 70 records and contains information about the newspapers including title, name of the editor, published from, E-mail address and also the Web address.

j) Database of E-books

It has nearly 1613 records.

k) Profile of Member-Libraries

A directory of member-libraries is available and contains information about them.

II Delnet also provides access to

- a. Cambridge Dictionaries online
- b. Networked Digital Library of Theses and Dissertations

- c. ODLIS : Online Dictionary of Library & Information Science
- d. GISTNIC Databases
- e. MEDLINE & other databases of NLM
- f. U.S. Patents: Full Text
- g. Full Text Medical Journals
- h. Open Access Journals
- i. Engineering & Technology E-Journals: Table of Contents
- j. Full-Text Medical Books
- k. Full-Text Engineering & Technology E-journals
- l. Learning Resources for LIS Professionals
- m. Digital Libraries of the World

iii . Major Open Access Initiatives available in Institute of Science, Library

1) E-BOOKS

Sr. No	Name of Source	Link/website address
1	Universal Digital Library	http://www.ulib.org
2	Digital Library of India The books can be searched by parameters like Title, Author, Subject, Year, Language, and Scanning Centre. It provides access to total 354412 books.	http://www.dli.ernet.in
3	Directory of Open Access Books (DOAB) The Directory of Open Access Books is a service of OAPEN Foundation. The primary aim of DOAB is to increase discoverability of Open Access books. Its provides access to 1140 Academic peer-reviewed books from 30 publishers.	http://www.doabooks.org/

2. Major Digital Libraries in India

Sr. No.	Name of the library	Principal Implementing Agency	Web Address	Software used	Metadata standard
1	Archives of Indian Labour	V.V. Giri National Labour Institute, Noida	http://www.indialabourarchives.org	Greenstone	Dublin core
2	Cultural Heritage Digital Library in Hindi (CHDLH)	Cultural Informatics Laboratory, Indira Gandhi National Centre for the Arts (IGNCA), New Delhi, India	http://tdil.mit.gov.in/coilnet/ignca/welcome.html	Greenstone	Dublin core
3	Digital e- Library (DwareDwareGyanSampadaa/ Providing Books at your Doorsteps)	Centre for Development of Advanced Computing, Noida (CDAC, Noida)	http://mobilelibrary.cdacnoida.in http://mobilelibrary.cdacnoida.in/indexHindi.html	Greenstone	Dublin core
4	India Education Digital Library	Education development Center (EDC), Bangalore	http://www.edudl.gov.in/	Greenstone	Dublin core
5	Kalasampada: Digital Library-Resources of	Cultural Informatics Laboratory, Indira Gandhi National Centre for the Arts,	http://www.ignca.nic.in/dlrich.html	Self developed	Self developed

	Indian Cultural Heritage (DL-RICH)	New Delhi, India			
6	Muktabodha: Digital Library and Archiving Projects	Muktabodha Ideological Research Institute, New Delhi	http://www.muktabodhali.org/digital_library.htm http://www.muktabodhali.org/SECURE/digital_library_index.htm	Self developed	Self developed
7	Traditional Knowledge Digital Library	National Institute of Science Communication and Information Resources (NISCAIR), Council of Scientific and Industrial Research (CSIR), New Delhi	www.tkdl.res.in	Greenstone	Dublin core
8	VigyanPrasar Digital Library	VigyanPrasar, Noida	http://www.vigyanprasar.gov.in/digilib http://www.vigyanprasar.gov.in/dream/index.asp	Self developed	Self developed

3. INSTITUTIONAL REPOSITORIES

There are two popular directories of open access repositories which try to give a comprehensive list of repositories worldwide in classified manner with search and browse option. This makes the researcher's job easy. These two directories are

- Directory of Open Access Repositories (DOAR) <http://www.opendoar.org>
- Registry of Open Access Repositories (ROAR) <http://roar.eprints.org/>

- **DSpace@MIT**

DSpace@MIT is a growing collection of MIT's research that includes peer-reviewed articles, technical reports, working papers, theses and more. End-user downloads of the 60,000+ items regularly exceed one million per month.

<http://www.dspace.org/resources>

- **eGyanKosh- a National Digital Repository**

eGyanKosh- a National Digital Repository to store, index, preserve, distribute and share the digital learning resources developed by the Open and Distance Learning Institutions in the country. Items in eGyanKosh are protected by copyright, with all rights reserved by IGNOU, unless otherwise indicated. To access the items in repository registration is required. Registration is free. Link :-

<http://aiht.ac.in/OpenInstitutionalRepositories.html>

4. List of Institutional Repositories in India

Sr. No.	Name of Repository	URL
1	Digital Knowledge Repository	http://dkr.cdri.res.in:8080/dspace
2	Dspace at CUSAT	http://dspace.cusat.ac.in/dspace/
3	Delhi College of Engineering	http://dspace.mdi.ac.in/dspace

	Repository	
4	Dspace at GGSIPU	http://dspace.ipu.ernet.in:8080/jspui
5	Dspace at IBS	http://202.131.96.59:8080/dspace
6	Dspace at NCRA	http://ncralib.ncra.tifr.res.in:8080/dspace/
7	Dspace @ IITB	http://dspace.library.iitb.ac.in/dspace/
8	Dspace @ IIA	http://prints.iiap.res.in/
9	Dspace @ IIMK	http://dspace.iimk.ac.in
10	edt @ IISc	http://etd.ncsi.iisc.ernet.in
11	ePrints @IISc	http://eprints.iisc.ernet.in/
12	OpenAgri	http://www.agropedia.net/openaccess
13	Eprints @ IITD	http://eprints.iitd.ac.in/dspace/
14	Digital Library at ISI	http://library.isibang.ac.in:8080/dspace
15	Librarian's Digital Library (LDL)	http://drtc.isibang.ac.in
16	Kautilya Digital Library	http://oii.igidr.ac.in:8080/dspace
17	eGyankosh	http://www.egyankosh.ac.in
18	Dspace @ INFLIBNET	http://dspace.inflibnet.ac.in
19	NAL Repository	http://nal-ir.nal.res.in
20	ICRISAT Open Access Repository	http://openaccess.icrisat.org/
21	Eprints @ SBT MKU	http://eprints.bicmku.in/
22	MGU Online Theses	http://www.mgutheses.org/
23	Dspace @ MDI	http://dsapce.mdi.ac.in/dspace
24	ePrints @ NCCR	http://www.eprints.iitm.ac.in
25	Dspace @ NCL	http://dspace.ncl.res.in/dspace/
26	OpenMED @ NIC	http://openmed.nic.in
27	ePrints @ NII	http://eprints.nii.res.in
28	DRS @ nio	http://drs.nio.org
29	NISCAIR Online Periodical Repository	http://nopr.niscair.res.in
30	Dspace @ NITR	http://dspace.nitrkl.ac.in/dspace/
31	Petrospace- PDPU Open Repository	http://203.77.192.116:8080/dspace/
32	RRI Digital Repository	http://dspace.rri.res.in/
33	ePrints @ SVNIT	http://eprints.svnit.ac.in
34	Dspace @ TU	http://dspace.thapar.edu:8080/dspace/
35	IMScEprints Archive	http://www.imsc.res.in/eprints
36	DU Eprints Archive	http://eprints.du.ac.in

37	Dspace at Vidyanidhi	http://dspace.vidyanidhi.org.in:8080/
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5. MAJOR OPEN ACCESS RESOURCES AVAILABLE ON INTERNET

Sr. No.	Name of Sources	Website Address
1	Abbreviations	http://www.abbreviations.com
2	Amazon.com	http://www.amazon.com
3	Ask a Librarian	http://www.loc.gov/rr/asklib
4	Best World Free Digital library	http://www.e-book.com.au
5	BioMed Central The Open Access Publisher	http://www.biomedcentral.com
6	Book yards	http://www.bookyards.com
7	Consortium for Educational Communication (CEC) Web	www.cec-lor.edu.in www.cec-lor.edu.in/search.asp
8	Current Science Online	http://www.ias.ac.in
9	Dictionary-Thesaurus Lookup	http://www.yourdictionary.com
10	Digital Library of India	http://www.dli.ernet.in/
11	Directory of Open Access Books (DOAB)	http://www.doabooks.org/
12	Directory of Open Access Journals (DOAJ)	www.doaj.org
13	Directory of Open Access Repositories (DOAR)	http://www.opendoar.org
14	e-BookBay	http://www.ebooksbay.org
15	e-Gyankosh	www.egyankosh.ac.in
16	English Hindi Dictionary	http://www.shabdakosh.com
17	English Language Glossary	http://www.mantex.co.uk/samples/eng.htm
18	Fact bites	http://www.factbites.com
19	Free e-Books by Project Gutenberg	http://www.gutenberg.org
20	Free e-books.net	http://www.free-ebooks.net
21	Free Medical Journals	http://www.freemedicaljournals.com/
22	Free Science e-Books & e- News	http://www.freescience.info
23	Free Tech Books	http://www.freetechbooks.com
24	Genes & Development	http://www.genesdev.org
25	GENETICS	http://www.genetics.org
26	Gigapedia	http://www.gigapedia.com
27	Highwire Press	http://highwire.stanford.edu/lists/freear.t.dtl
28	IPL- Internet Public Library	http://www.ipl.org
29	JASNA- Jane Austin Society of North America	http://www.jasna.org

30	JBC Online	http://www.jbc.org
31	KIDS Click	http://www.kidsclick.com
32	Librarian Internet Index	http://www.lii.org
33	Librarians Digital Library	http://www.drct.isibang.ac.in
34	Library of Congress Online Catalogue	http://www.catalogue.loc.gov
35	Mamma	http://www.mamma.com
36	Med IND	http://www.medind.nic.in
37	MIT-Open Course Were	http://www.ocw.mit.edu
38	National human Genome Research Institute	http://www.genome.gov
39	NCERT (National Council of Education Research	www.ncert.nic.in/textbooks/testing/Index.htm
40	NDLTD (Networked Digital Library of Theses and Dissertations)	http://www.ndltd.org/
41	NPTEL (National Programme on Technology Enhancement Learning)	www.nptel.iitm.ac.in
42	Officials Statistics on the Web	http://www.library.auckland.ac.nz
43	Online English Dictionary	http://www.alphabeticdictionary.com
44	Open J-Gate	http://www.openj-gate.com/
45	Penn Libraries	http://www.pennlibraries.htm
46	PLOS- Public Library of Science	http://www.plos.org
47	PubMed	http://www.ncbi.nlm.nih.gov
48	Registry of Open Access Repositories (ROAR)	http://roar.eprints.org/
49	Resonance	http://www.ias.ac.in
50	Science Alert	http://www.scialert.net
51	SCIRUS-For Scientific Information	http://www.scirus.com
52	Shodh Ganga	http://shodhganga.inflibnet.ac.in/
53	Some other live Resources	http://www.youtube.com http://www.slideehare.net
54	St. Ambrose University Library	http://www.library.sau.edu
55	The British Library	http://www.britishlibrary.htm
56	The Online Medieval & Classical Library	http://www.omacl.org
57	The Universal Digital library	http://www.ulib.org
58	United States Patent and Trademark Office	http://www.uspto.gov
59	Universal Digital Library	http://www.ulib.org/
60	Vidyanidhi	http://dspace.vidyanidhi.org.in:8080/

61	Wikipedia	http://www.en.wikipedia.com
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6. OPEN ACCESS (FREELY ACCESS) E-RESOURCES

• Open E-Theses and Dissertations (ETDs) –

A dissertation or thesis is a work submitted in support of candidature for a under graduate, master's degree, or doctorate degree respectively, which presents the author's research and findings. Electronic versions of theses and dissertations are called ETDs. ETDs replaced paper theses and dissertations and it can be similar to their paper predecessors in that they may have figures, tables, footnotes, and references. Links are given below :

Open Access Theses Repository	Links
Shodhganga	http://shodhganga.inflibnet.ac.in/
DART-Europe	http://www.dart-europe.eu/basic-search.php
LSE Theses Online	http://etheses.lse.ac.uk/view/sets/DEPTS.html
DSpace@Cambridge	https://www.repository.cam.ac.uk/
NDLTD	http://search.ndltd.org/index.php
Open Thesis	http://www.openthesis.org/
Dyuthi Digital Repository	http://dyuthi.cusat.ac.in/xmlui/
USU Institutional Repository	http://repository.usu.ac.id/handle/123456789/21
KrishiKosh (कृषिकोष)	http://krishikosh.egranth.ac.in/
ETHos: e-theses online service	http://ethos.bl.uk/ProcessSearch.do
ISIM Dissertations	https://openaccess.leidenuniv.nl/handle/1887/4948
Open AccessTheses and Dissertations	https://oatd.org/
Shodhgangotri	http://shodhgangotri.inflibnet.ac.in/

7. E- Journals Link : - <http://nopr.niscair.res.in/>

NISCAIR Online Periodicals Repository

You can now access full text articles from research journals published by CSIR-NISCAIR! Full text facility is provided for all eighteen research journals viz. ALIS, BVAAP, IJBB, IJBT, IJCA, IJCB, IJCT, IJEB, IJEMS, IJFTR, IJMS, IJNPR, IJPAP, IJRSP, IJTK, JIPR, JSIR & JST. NOPR also hosts three Popular Science Magazines viz. Science Reporter (SR), VigyanPragati (VP) & Science Ki Duniya (SKD) and a Natural Products Repository (NPARR).

Springer Open Link :-<https://www.springeropen.com/>

The SpringerOpen portfolio has grown tremendously since its launch in 2010, so that we now offer researchers from all areas of science, technology, medicine, the humanities and social sciences a place to publish open access in journals and books. Publishing with SpringerOpen makes your work freely available online for everyone, immediately upon publication, and our high-level peer-review and production processes guarantee the quality and reliability of the work.

Elsevier Open access journals Link :- <http://journals.sagepub.com/home/sgoa>

All articles in open access journals which are published by Elsevier have undergone peer review and upon acceptance are immediately and permanently free for everyone to read and download.

Link :-<https://www.elsevier.com/about/open-science/open-access/open-access-journals>

SAGE Open access journals

SAGE Open is a peer-reviewed, "Gold" open access journal from SAGE that publishes original research and review articles in an interactive, open access format. Articles may span the full spectrum of the social and behavioral sciences and the humanities. This journal is a member of the [Committee on Publication Ethics \(COPE\)](#).

Directory of Open Access Journals (DOAJ)

DOAJ is a community-curated online directory that indexes and provides access to high quality, open access, peer-reviewed journals. All DOAJ services are free of charge including being indexed in DOAJ. All data is freely available.

Link :- <https://doaj.org/>

HighWireFree Online Full-text Articles

(List limited to journals published online with the assistance of HighWire Press)

HighWire Press is the largest archive of free full-text science on Earth! As of 3/25/15, we are assisting in the online publication of **2,434,604 free full-text articles** and 7,659,003 total articles. There are 4 sites with free trial periods, and 84 completely free sites. 163 sites have free back issues, and 346 sites have pay per view!

Link :- <http://highwire.stanford.edu/lists/freeart.dtl>

Hindawi Open Access journals

Hindawi publishes peer-reviewed, Open Access journals across many areas of science, technology, and medicine, as well as several areas of social science. Hindawi's journals are indexed in the leading abstracting and indexing databases, including the Web of Science, Scopus, PubMed, INSPEC, Mathematical Reviews, and Chemical Abstracts. Link :- <https://www.hindawi.com/journals/>

The European Association for Signal Processing (EURASIP) Journals

The EURASIP was founded on 1 September 1978 to improve communication between groups and individuals that work within the multidisciplinary, fast growing field of Signal Processing in Europe and elsewhere, and to exchange and disseminate information in the field all over the world. The association exists to further the efforts of researchers by providing a learned and professional platform for dissemination and discussion of all aspects of signal processing.

Link :- <http://www.eurasip.org/>

Institute of Physics electronic journals (IOP) -

The IOP is a scientific charity devoted to increasing the practice, understanding and application of physics. It has a worldwide membership of around 40,000 and is a leading communicator of physics-related science to all audiences, from specialists through to government and the general public. Its publishing company, IOP Publishing, is a world leader in scientific publishing and the electronic dissemination of physics.

Link :- <http://iopscience.iop.org/journalList>

Digital Library Of The Commons Repository

The Digital Library of the Commons (DLC) is a gateway to the international literature on the commons. The DLC provides [free and open access](#) to full-text articles, papers, and dissertations. This site contains an author-submission portal; an Image Database; the Comprehensive Bibliography of the Commons; a Keyword Thesaurus, and links to relevant reference sources on the study of the [commons](#).

Link :- <http://dlc.dlib.indiana.edu/dlc/>

The Royal Society Journals

The Royal Society is a Fellowship of the world's most eminent scientists and is the oldest scientific academy in continuous existence.

Link :- <https://royalsociety.org/journals/>

OMICS International Open Access Journals

Make the best use of Researched information from 700+ peer reviewed, **Open Access Journals** operated by 50,000+ Editorial Board Members and esteemed reviewers and 1000+ **Scientific associations** in **Medical, Clinical, Pharmaceutical, Engineering**, Technology and **Management** Fields.

Meet Inspiring Speakers and Experts at our 3000+ Global **Conferenceseries** Events with over 600+ Conferences, 1200+ Symposiums and 1200+ Workshops on Medical, Pharma, Engineering, Science, Technology and Business

Link :- <https://www.omicsonline.org/open-access.php>

ARPN Journal of Science and Technology

Journal of Science and Technology (**ISSN: 2225-7217**) is an international, **open-access journal** that publishes research intensive articles and scientific manuscripts and survey based contributions focusing all aspects of science and Technology. The objective of this journal is to bring together research fellows from academia and professional practitioners from industry to enlighten the latest topics of interest and building long lasting collaborations.

Link :- <http://www.ejournalofscience.org/>

8. Free E – Books Websites

Sr. No	Name of Open Source	Website Address/Link
1	University of Pennsylvania	http://digital.library.upenn.edu/books
2	Project Gothenburg	http://www.gutenberg.org
3	Free e books	http://www.free-ebooks.net
4	Free Tech books	http://www.freetechbooks.com
5	Campus books	http://www.campusbooks.com
6	University of Virginia; e-book Library	http://etext.lib.virginia.edu/ebooks/ebooklist.html
7	NAP Open Book	http://www.nap.edu/index.html
8	Internet public Library	http://www.ipl.org/div/books
9	Direct Text book	http://www.directtextbook.com
10	e-books	http://e-books.org
11	e-books Palace	http://www.ebookpalace.com
12	Electronic Library of Mathematics	http://www.emis.de/journals/short_index.html

- **Directory of open access books**

The primary aim of DOAB is to increase discoverability of Open Access books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards. **Link**

: <https://www.doabooks.org/>

- **Intech Open access books -**

InTechOpen is the world's largest Science, Technology and Medicine Open Access book publisher. With a goal to provide free online access to research since 2004, InTechOpen has published [3,377 books](#) and 49,848 scientific works total by [108,482 international scientists](#).

Link :-<https://www.intechopen.com/about-intech.html>

9. Directory of Open Access Resources (DOAJ) Link: <http://www.doabooks.org>

10.e-PG PathashalaFor Higher Education Resources: Link <https://epgp.inflibnet.ac.in>

INSTITUTE OF SCIENCE, NAGPUR

Boys Hostel (New and Old)



Girls Hostel



Details of Administrative office, premises and other are like below

1	Total land area of Institute	12.5 Acre
2	No. of buildings	Main Building with Annex – 01 Boys Hotel – 02 (100 rooms) Girls Hotel – 01 (46 rooms) Gymkhana – 01 (7176 sq ft) New Library Building (On the verge of Completion) – 01 (Area 22311.86)
3	Director Chamber (Main Building)	720 Sq. ft
4	Office	Establishment, Finance, Record etc. – 1625 Sq. Ft
5	IQAC office	343 Sq. Ft
6	Staff Room	Every department has separate staff room for the teaching and non teaching staff.
6	Guest Rooms	02 A.C. Rooms
7	Common Room	Institute has two common rooms one each for Boys and Girls
8	Canteen	500 Sq. Ft
9	Auditorium	1) Sabhagruha – 2220 Sq. ft 2) Open Auditorium – 4360 Sq. ft
10	Internet facilities	Annexure-Infra-8.1
8	Parking area	05 (Approx 5000 Sq. ft)

Annexure-infra- : 8.1

The institute has a modern server room with Windows servers. LAN network is spread across the institute including Office, Laboratories, Library and other working areas. All the computing facility is equipped with high performance and latest edition of computers. All the computers are loaded with latest required software. The LAN network has a configuration Core switch to edge switch. Two leased lines of 10 MBPS (192.168.0.6) and 100 MBPS (192.168.0.2) are used in a network. By using these two leased lines from BSNL, restricted internet and WI-FI facilities are provided to students and faculty members of institute across the CAMPUS. This computing and internet facility is useful for UG, PG and research students to sharpen and update their knowledge base. Faculties are encouraged to use internet and computer facilities to enhance teaching learning process for overall improvement of students.

In 2015-16, to establish computer rooms in various departments for use of UG, PG and research students of Institute, 64 computers were purchased from grants received from DPC. Also modern workstations were made available to these computers. The total number of computers (for students) in working conditions is 248 and the numbers of students are 1022. So the ***Student – Computer ratio is around 4.12***

INSTITUTE OF SCIENCE, NAGPUR

Main Building



New Library Building



INSTITUTE OF SCIENCE, NAGPUR

Auditorium, Open air theatre



INSTITUTE OF SCIENCE, NAGPUR

Parking Area



Sports Facilities in the College Campus (indoor/outdoor), Play grounds, Fitness equipment, sports coaches, etc.

The department of Physical education was established in year 1951. The spacious ground for cricket, football and hockey are the main attraction since those days. New separate building of physical education department was constructed in the year 2014. This building constructed in **5000** square feet area boasting facility of gymnasium center, yoga center, table-tennis court and rooms for other indoor games.

Sports department is also equipped with a huge ground approximately **3 acres** area which is generally used for the training and competitions of cricket, hockey, football, archery games.

The department organizes various training programs for the boys and girls students and also makes them eligible for the inter-collegiate, inter-university, state and national level competitions.

The department provides training facility for cricket, volleyball, football, badminton, kabbadi, kho-kho, sepak takraw, basket ball, table-tennis, archery, softball, base ball and fencing games. Students are regularly participate in national, state, district, inter-university, inter-collegiate level competitions.

Indoor Sports Facilities:

The Institute has a well-equipped gymnasium with all modern facilities for Boys and Girls

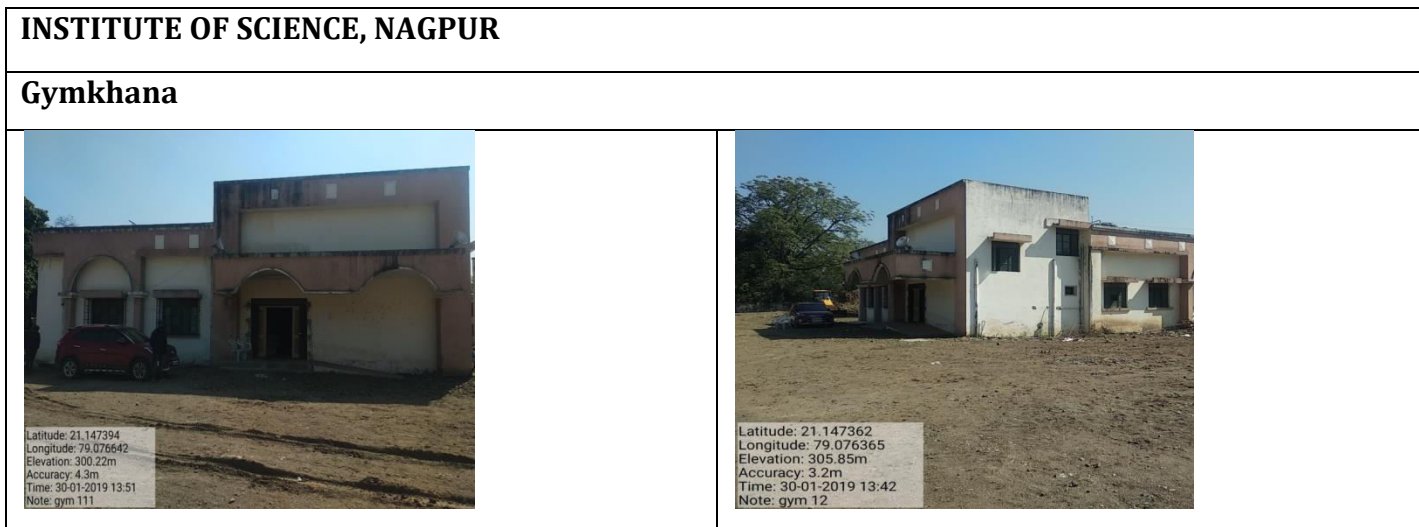
Sr.No.	Indoor Sports Facilities
1	Badminton Courts
2	Table Tennis
3	Gymnasium for Boys and Girls
4	Fencing
5	Caroms, Chess
6	Yoga and Meditation Room
7	Changing room for Boys
8	Changing room for Girls

Outdoor Sports facilities

The Institute has a spacious multipurpose play ground with all modern facilities for boys and girls. Recently State Government has sanctioned Rs. 194 lakhs for redevelopment of this play ground. Also District planning committee has sanctioned Rs. 19 lakh for the play ground. This redevelopment work is in full swing.

Sr.No.	Outdoor Sports Facilities
1	Cricket
2	Softball
3	Baseball
4	Football
5	Volleyball court
6	Basketball court
7	Kho-Kho Ground
8	Kabaddi Grounds
9	Ball-badminton

There is also a closed auditorium and one open air auditorium where various kind of cultural activities are regularly held.





INSTITUTE OF SCIENCE, NAGPUR

LIST OF FACULTIES 2019 – 2020

Sr.No	Name of the Full time teacher	Department /Subject	Designation	Qualification	Pay	Total Experience	No of Year in the college	No fo Research Publication
1	Dr. Nasreen	BOTANY	Professor	M.Sc. Ph.D	144200 - 218200	31	02	30
2	Dr. S.A.Kalkar		Associate Professor	M.Sc. Ph.D	131400 - 217100	31	31	65
3	Dr. P. S. Jakhi		Associate Professor	M.Sc. Ph.D	131400 - 217100	31	13	11
4	Dr. K. R. Gopal		Associate Professor	M.Sc. Ph.D	131400 - 217100	25	25	15
5	Dr. Uma Thakur		Assistant Professor	M.Sc. Ph.D	57700-182400	4	02	13
6	Dr. S. U. Borkar		Associate Professor	M.Sc. Ph.D	131400 - 217100	25	02	25
7	Mr. N. B. Yemul		Assistant Professor	M.Sc NET	57700-182400	4	04	5
8	Mr. S. J. Borkar		Assistant Professor	M.Sc NET	57700-182400	4	04	01
9	Dr.H.R.Pohekar		Assistant Professor	M.Sc. Ph.D	57700-182400	20	10	15
1	Dr. Archana Nerkar	ZOOLOGY	Professor	M.Sc. Ph.D	144200 -	27	27	40

					218200			
2	Dr. Y. A. Gadhikar		Associate Professor	M.Sc. Ph.D	131400 - 217100	26	03	40
3	Dr. Swati A. Kaushik		Associate Professor	M.Sc. Ph.D	131400 - 217100	22	12	12
4	Dr. R. V. Tijare		Assistant Professor	M.Sc. Ph.D	68900-205500	24	13	41
5	Dr. Aruna Kawadkar		Assistant Professor	M.Sc. Ph.D	79800-211500	13	13	03
6	Dr. J.S. Maske		Assistant Professor	M.Sc. Ph.D	57700-182400	19	19	08
7	Dr. Sushil Chaudhari		Associate Professor	M.Sc. Ph.D	131400 - 217100	25	01	15
8	Dr. Kavita Patil		Assistant Professor	M.Sc. Ph.D	79800-211500	27	12	03
1	Dr. V. T. Kamble		Professor	M.Sc. Ph.D	144200 - 218200	6	06	35
2	Dr. A. M. Rahatgaonkar		Professor	M.Sc. Ph.D	144200 - 218200	23	23	29
3	Dr. Rashmi Batra		Associate Professor	M.Sc. Ph.D	131400 - 217100	32	32	08
4	Dr. D. B. Patil		Associate Professor	M.Sc. Ph.D	131400 - 217100	22	10	90
5	Dr. Mrs. Indira Soni		Associate professor	M.Sc. Ph.D	131400 - 217100	35	25	02
6	Dr. Farheen Inam	CHEMISTRY	Associate Professor	M.Sc. Ph.D	131400 - 217100	37	02	48
7	Dr. Sujata Deo		Associate Professor	M.Sc. Ph.D	131400 - 217100	29	29	64

8	Dr. V. M. Bhuse		Associate Professor	M.Sc. Ph.D	131400 - 217100	22	04	40	
9	Dr. Mangesh Shelke		Associate Professor	M.Sc. Ph.D	131400 - 217100	2	02	33	
10	Dr.G.M.Phadnaik		Associate Professor	M.Sc. Ph.D	131400 - 217100	33	10	05	
11	Dr. N. J. Siddiqui		Assistant professor	M.Sc. Ph.D	131400 - 217100	20	05	44	
12	Dr. M.I.M. Siddique		Assistant professor	M.Sc. Ph.D	79800-211500	18	05	83	
13	Mr. S. U. Patil		Assistant professor	M.Sc. NET	57700-182400	13	13	06	
14	Mr. P. D. Ashtaputrey		Assistant professor	M.Sc. SET	57700-182400	20	03	08	
15	Dr. S. H. Ganatra		Associate Professor	M.Sc. Ph.D	131400 - 217100	28	02	42	
16	Mr. R. S. Shinde		Assistant professor	M.Sc. NET	57700-182400	05	05	01	
17	Mr. B. S. Navale		Assistant professor	M.Sc. NET	57700-182400	05	05	06	
18	Mr. P. D. Shirsath		Assistant professor	M.Sc. NET	57700-182400	05	05	02	
19	Dr. R. R. Tayade		Assistant professor	M.Sc. Ph.D	57700-182400	05	05	21	
1	Dr. K. S. Bhanu		STATISTICS	Professor	M.Sc. Ph.D	144200 - 218200	35	35	45
2	Mrs. M. V. Als			Associate Professor	M.Sc. Ph.D	131400 - 217100	37	06	02
3	Dr. S. D. Dhabe			Associate Professor	M.Sc. Ph.D	131400 - 217100	30	05	16

4	Dr. Gayatri Behere		Associate Professor	M.Sc. Ph.D	131400 - 217100	25	05	08
5	Dr. A. K. Khamborkar		Assistant professor	M.Sc. Ph.D	79800- 211500	20	05	10
6	Dr. P. R. Singh		Assistant professor	M.Sc. Ph.D	57700- 182400	17	08	10
1	Dr. G. L. Waghmare	MATHEMATICS	Associate Professor	M.Sc. Ph.D	131400 - 217100	30	02	15
2	Dr.U.S.Thool		Associate Professor	M.Sc. Ph.D	131400 - 217100	07	07	6
3	Mr. P. P. Sayare		Assistant professor	M.Sc. NET	57700- 182400	05	05	02
1	Dr. M. Salunkhe	PHYSICS	Professor	M.Sc. Ph.D	144200 - 218200	25	02	20
2	Dr.S. R. Patil		Associate Professor	M.Sc. Ph.D	131400 - 217100	09	01	49
3	Dr. Kamlesh Alti		Associate Professor	M.Sc. Ph.D	131400 - 217100	09	02	54
4	Mr. S. S.Kasarla		Assistant professor	M.Sc. NET	79800- 211500	21	04	03
5	Dr. C. P. Chaudhari		Assistant professor	M.Sc. Ph.D	79800- 211500	25	05	05
6	Mr. A. A. Chaudhary		Assistant professor	M.Sc. SET	57700- 182400	17	17	02
7	Mrs. S.P.Deshmukh		Assistant professor	M.Sc. NET	57700- 182400	09	19	03
8	Dr. S. R. Jigajeni		Assistant professor	M.Sc. Ph.D	57700- 182400	04	04	19

9	Mr. Y. B. Wankhade		Assistant professor	M.Sc. NET	57700-182400	04	04	06
10	Mr. Kalpana Nagle		Assistant professor	M.Sc. Ph.D	57700-182400	04	04	11
1	Dr. Madhavi Mardikar	SPORTS	Director of Physical Edu.	M.Sc. Ph.D	131400 - 217100	25	01	35
2	Dr. Suraj Yeotikar		Director of Physical Edu.	M.Sc. Ph.D	57700-182400	16	05	10
1	R. S. Lihitkar	LIBRARY	Librarian	M.Sc. Ph.D	57700-182400	19	11	85