

For the Year April 2023 to March 2024

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NATIONAL INSTITUTE OF TECHNOLOGY GOA

BRIEF PROFILE OF THE INSTITUTE

National Institute of Technology Goa (NIT Goa) is a premier technical Institute of the region. NIT Goa was established in the year 2010 by an act of parliament (NIT act 2007) and it is declared as 'Institute of National Importance'. NIT Goa is an autonomous institute and functioning under the aegis of Ministry of Education (MoE), Govt. of India. The Campus is located at Kottamoll Plateau, Cuncolim Municipal Area, Salcete Taluka, South Goa District, Goa - 403703. Cuncolim is located 15 kilometers from Margao City. Dabolim Airport in Vasco caters to domestic and international airlines that stop en route to other Indian destinations. It is at a distance of around 38 km (45 minutes by car) from the Institute. Manohar International Airport in Mopa is 77 km (1 hour and 30 minutes by car) from the Institute. The closest major railway station is 'Madgaon Railway Station', which is around 15 km (25 minutes by car) from the Institute. Goa is well connected by roadways, railways and airways with various parts of the country. The Institute is dedicated to its academic excellence and aims to produce quality Engineers and Scientists.

The Institute offers undergraduate programmes in Five Engineering Departments: (1) Computer Science and Engineering (CSE), (2) Electronics and Communication Engineering (ECE), (3) Electrical and Electronics Engineering (EEE), (4) Civil Engineering (CVE), and (5) Mechanical Engineering (MCE). The Institute offers M.Tech. Programmes in the Three disciplines: (1) Computer Science and Engineering (CSE), (2) VLSI and (3) Power Electronics and Power Systems (PEPS). The Institute also offers Ph.D. degree in various stream of Engineering, Applied Sciences, Technology and Humanities & Social Sciences. NIT Goa attracts students from all over the country and abroad. The Institute admits students to B. Tech degree program on the basis of ranks obtained in the Joint Entrance Examination (JEE Main) and the scheme of Direct Admission of Students Abroad (DASA). Forty percent (40%) of the seats are reserved for the students of Goa, Ten percent (10%) for Diu Daman, Dadra Nagar Haveli & Lakshadweep and the remaining seats are based on the all India rank. The institute also admits students to M.Tech and Ph.D. degree Programs. The institute is sincerely attempting to deliver quality education and to achieve excellence in teaching, learning and research with high professional ethics.

1.0 INTRODUCTION

1.1 Vision

National Institute of Technology Goa shall emerge as one of the nation's preeminent institutions. Through its excellence, it shall serve the Goan society and the global society at large with all its challenges and opportunities.

1.2 Mission

- * NIT Goa strives for quality faculty, good students and excellent infrastructure.
- * It further strives for excellence, through dissemination, generation and application of knowledge by laying stress on interdisciplinary approach in all the branches of Basic Science, Engineering, Technology, Humanities and Social Science with an emphasis on human values and ethics.

1.3 Education

Structure of the B. Tech. programme

B2.1. The medium of instruction, examination and project reports are in English.

B2.2. Undergraduate B.Tech Degree programmes are offered by the departments (i) to (v) and all the below listed departments offer courses in the B.Tech Programme.

- i) Computer Science and Engineering (CSE)
- ii) Electrical and Electronics Engineering (EEE)
- iii) Electronics and Communication Engineering (ECE)
- iv) Mechanical Engineering (MCE)
- v) Civil Engineering (CVE)
- vi) Department of Applied Sciences (APS), covering areas such as:
 - a. Mathematics (MA)
 - b. Physics (PH)
 - c. Chemistry (CY)
- vii) Department is Humanities and Social Sciences (HSS), covering areas such as:
 - a. Economics (HS)
 - b. English (HU)

B2.3. The programme structure consists of the following:

- i) A general (common) core programme comprising of basic sciences, basic engineering sciences and technical arts, humanities and social sciences, Indian knowledge systems.
- ii) department core courses introducing the student to the foundations of engineering in the respective branch;
- iii) department elective courses enabling the student to opt and undergo a set of courses of interest;
- iv) Open elective courses enabling the student to opt and undergo a set of courses of interest from other departments for nurturing interdisciplinary interest;
- v) Professional practice including project, Comprehensive Viva-Voce and industrial training/summer internship (for 6-8 weeks) and,
- vi) Courses on Environmental Studies, Physical Education, Professional Ethics and Human Values, Liberal Arts, Innovation & Entrepreneurship.

B2.4. Every branch of the B.Tech. programme will have a curriculum and syllabi for the courses approved by the Senate. Every department has a prescribed course structure which in general terms is known as Curriculum or Course of Study. It prescribes courses to be studied in each semester. The courses of study bulletin are available in the Institute's website.

B2.5. The Institute follows a credit-based semester system. There are two regular semesters in a year. The semester normally that begins in July/August (*July/August to December*) is known as 'ODD' semester and the semester that begins in January (*January to May*) is known as 'EVEN' semester.

B2.6. The complete programme will consist of 9 classifications, as given in Table 1. namely- basic sciences, basic engineering sciences and technical arts, humanities and social sciences, Indian knowledge systems, department theory & practice, and Others, distributed over eight semesters with two semesters per academic year. Department Core courses will commence from the third semester. The elective courses will normally be offered from the sixth semester. However, the departmental board of studies will decide the final course structure.

B2.7. The academic programmes of the Institute follow the credit system. The general pattern is: one credit for each lecture hour per week per semester; two credits for each laboratory/practical session of three hours per week per semester, one credit for each laboratory/practical session of two hours per week per semester and one credit for each laboratory/practical session of three hours per week per half semester. However, there can be a few special courses with a slight variation in credit allotment.

B2.8. The curriculum of any branch of the B. Tech. programme shall have a total of minimum 168 credits. Every course of the B.Tech. programme will be placed in one of the classifications listed in Table.1. The minimum credits to be earned for the award of B.Tech. degree are 168.

B2.9. Departmental courses (DC and DE) constitute atleast 60% of the total curriculum. Further, students are allowed open electives (OE) to broaden their inter-disciplinary knowledge base and to specialize in an area outside the parent discipline.

B2.10. As part of implementation of National Education Policy (NEP-2020), the Institute has introduced Minors in various disciplines.

Table 1: Course classifications of the B.Tech. programmes

Sl. No.	Classifications	Course Type	Credits For CGPA	Courses
1	Basic Sciences	BS	21	MA→11, PH→5, CY→5
2	Basic Engineering Sciences and Technical Arts	ES	21	EM→3, BMC→3, BES→6, CPPS→4, ED→3, WP→2
3	Humanities and Social Sciences	HU & HS	7	PC →4, ECO→ 3
4	Indian Knowledge Systems	IKS	5	HH →2 and an Open Elective Course →3
5	Others: Liberal Arts, Innovation & Entrepreneurship	OT	2	LA→1, IE→1
6	Mandatory Learning Courses	MLC	2	PE→0, ES→ 1, PEHV→ 1
7	Department Core	DC	83 - 86	Core Theory and Lab courses, Comprehensive Examination →1, Seminar→1, Summer Internship→1, Project Work→5
8	Department Elective (including MOOCs or any other as approved by the Institute)	DE	21-27	7-9 Electives
9	Open Elective (including MOOCs or any other as approved by the Institute)	OE	0-6	Upto 2 Open Electives
Total Credits			168	
10	Minor Program	MR	18	

Course Registration and Enrolment

- The first semester course registration will be carried out by the Institute and hence no separate registration by the students will be required.
- Students in the second and higher semesters are required to register for courses in accordance with the semester-wise published course schedule at the beginning of the corresponding semester. Students are required to submit course registration form duly filled, in consultation with their faculty advisor.
- A student who has cleared all the academic requirements up to the previous semester will register for all courses of the current semester as per Institute norms.
- Maximum Course limit:** A student can register up to a maximum of one course in addition to the prescribed courses in a particular semester.
- All the provisions of termination of registration will be applicable and have to be checked before course registration.
- All backlog courses of the corresponding semester have to be registered first. Subsequently, registration of prescribed semester courses is permissible.
- A student can enroll in a higher semester if they satisfy all above constraints in addition to:
 - they have cleared all dues in the Institute, Hostel and Library up to the end of the

- previous semester and
- b. They are not debarred from enrolment by a disciplinary action of the Institute.
- viii) If the students find their course load heavy in any semester or for any other valid reason, they may drop courses within three weeks of the commencement of the semester or as mentioned in the academic calendar, whichever is earlier, with the written approval from their faculty Advisor and HoD.
- ix) Slow-paced learning: Courses to be registered normally are specified in the curriculum. However, a student may register for a lesser number of credits than specified in the curriculum, provided it does not extend their programme for more than 4 semesters (i.e., 8+4 semesters or 6 years).

M.Tech (Post-Graduate) Programme

Admission: M.Tech. admissions are based on valid GATE scores followed by centralized counseling, with some seats reserved for sponsored and DRDO candidates. The vacancies unfilled from the above categories can be filled in Self-finance (Non-GATE) mode.

Structure of M.Tech Programme

- The medium of instruction, examination and project reports will be in English.
- Postgraduate (M.Tech Degree) programmes are offered in the following disciplines by the respective programme hosting Departments.
 - i) Master of Technology in “Computer Science and Engineering” (M.Tech. (CSE)) by the Department of Computer Science and Engineering (CSE)
 - ii) Master of Technology in “VLSI” (M.Tech. (VLSI)) by the Department of Electronics and Communication Engineering (ECE).
 - iii) Master of Technology in “Power Electronics and Power Systems”(M. Tech. (PEPS)) by the Department of Electrical and Electronics Engineering (EEE).

Other teaching departments, Humanities and Sciences (HSS) shall offer courses for these three different programmes.

- Each programme of instruction consists of the following:
 - i) An engineering “Programme Core” introduces the students to the state of the art in engineering in the respective branch.
 - ii) A “Programme Elective” gives opportunities to the students to opt for a set of specialized courses.
 - iii) A “Professional Practice”, includes independent study, seminar, comprehensive-viva and technical communication, etc.
 - iv) A “Dissertation Work” on specialized advanced engineering and/or research work of state of art nature.

- Each of the postgraduate programmes will have a curriculum and syllabi for the courses approved by the Senate. Every department has a prescribed course structure which in general terms is known as “Curriculum” or “Courses of Study”. It prescribes courses to be studied in the programme in each of the semesters as well as credits earned. The courses of study bulletin are available in the Institute’s website.

- The Institute follows a credit based semester system. There are two regular semesters in a year. The semester that begins in July (July to December) is known as “ODD” Semester and the

semester that begins in January (January to June) is known as “EVEN” Semester. The general pattern is: One credit for each lecture hour per week per semester; Two credits for each laboratory course of three to four hours per week per semester.

- The complete programme will consist of 4 categories (as given in the Table 2): Core, Electives, Dissertation work and Professional Practices distributed over four semesters with two semesters per academic year.

- The curriculum of any branch of the M. Tech. programmes shall have a total of minimum 64 credits. Minimum credits of each of the categories are specified in Table 2, which has to be earned by students for the award of M.Tech. Degree.

Table 2 : Every course of the M. Tech. programme will be placed in one of the 4 categories as listed in

Sl. No.	Category	Minimum Credits	Remarks
1	Program Core	38	The distribution in Core and Electives is specific to each department.
2	Program Electives (including MOOCs or any other Approved by Institute)		
3	Seminar, Viva Voce and communication skills	4	The course on “Communication Skills and Technical Writing” is compulsory and it is an “Audit” course
4	Dissertation Work	22	
Total Credit		64	

Academically well performing students, with CGPA > 8.0, who never had any backlogs, will only be able to register for additional subjects, within the prescribed 2 years duration. It is to be noted that in the final CGPA calculation, all the credited subjects will be included.

Registration & Enrolment

Students are allowed to pre-register for the elective courses to facilitate the selection of suitable electives from the set of electives that the respective department is ready to offer in the ensuing semester.

For all the admitted students, registration is mandatory for all the semesters and enrolment will be done in the beginning of the semester as per the schedule announced by the AAC.

A student will be eligible for enrolment only if he/she satisfies the clause (If at the end of the first two semesters of the normal academic programme, if a student has earned less than 26 credits and has a CGPA of less than 5.5, then his enrolment will be terminated), and additionally if

(i) he/she has cleared all dues in the Institute, Hostel and Library up to the end of the previous semester and (ii) he/she is not debarred from enrolment by a disciplinary action of the Institute.

Academic Programmes

The Institute currently offers B. Tech. programmes in the following Five branches of engineering: -

1. Computer Science and Engineering
2. Electrical and Electronics Engineering
3. Electronics and communication Engineering
4. Civil Engineering
5. Mechanical Engineering

The M. Tech. programme is offered in the following Three specializations: -

1. Computer Science and Engineering
2. Power Electronics and Power Systems (PEPS)
3. VLSI

The Ph.D. programmes are offered in the following disciplines: -

1. Computer Science and Engineering
2. Electrical and Electronics Engineering
3. Electronics and Communication Engineering
4. Civil Engineering
5. Mechanical Engineering
6. Applied Sciences
7. Humanities

2.0 AN OVERVIEW

2.1 Historical Background

NIT GOA is one of the ten newly set up NITs during the 11th Five Year Plan by the Ministry of Education (MoE). The institute was to be set up using Rs.250 crore provided by the central government. The first batch of students was admitted in 2010 and academic activities of NIT Goa started in the academic year 2010-11.

2.2 Location

NIT Goa's permanent Campus is located at Kottamoll Plateau, Cuncolim Municipal Area, Salcete Taluka, South Goa District, Goa – 403703. Goa is well connected by roadways, railways and airways with various parts of the country. The Institute is dedicated to its academic excellence and aims to produce quality Engineers and Scientists.

By Air

Dabolim Airport in Vasco caters to domestic and international airlines that stop en route to other Indian destinations. It is at a distance of around 38 km (45 minutes by car) from the Institute. Manohar International Airport in Mopa is 77 km (1 hour and 30 minutes by car) from the Institute..

By Rail

Goa is connected by the South Western and the Konkan Railways. Goa has two rail lines-one run by the South Western Railway and the other by the Konkan Railway. The closest major railway station is 'Madgaon Railway Station', which is around 15 km (25 minutes by car) from the Institute.

2.3 Campus

Building the nation to attain “VigyanBharat” involves moulding the minds of future generations. Establishing an educational institute with a state-of-the-art facility plays a key role in developing the intellectual property of the country. The National Institute of Technology Goa (NIT Goa) was established in 2010 by an act of parliament and has been declared as an “Institute of National Importance”. NIT Goa started functioning at the premises of Goa Engineering College, Farmagudi, Ponda, Goa from June 2010 onwards. The Govt. of Goa transferred land measuring 456767 Sqm in the village of Cuncolim in July 2017 to NIT Goa. The foundation stone for the campus was laid by Hon'ble Chief Minister of Goa, Dr Manohar Parrikar Ji in the presence of Shri Prakash Javadekar Ji, Hon'ble Minister of Human Resource Development, GoI in December 2018. In May 2019, the planning for the construction of the NIT Goa campus was started on 46 acres. The campus has been constructed to accommodate 1260 students with a total build-up area of 70750 sqm. The campus houses various facilities such as a Tutorial complex, Departmental complex, Seminar complex, Administrative complex, Hostels, health center, staff quarters, amenity center, sports ground and other utilities.

NIT Goa started functioning on its campus at Cuncolim from January 2024 onwards. The permanent campus was dedicated to the nation by the Hon'ble Prime Minister of India on 06/02/2024.



2.4 Administration

The overall head of the institute is the Director with full financial and administrative authority. The Senate, Scrutiny Committee and other Committees of the institute assist the Director. The Board of Governors constituted by the Government of India is the highest body that approves of all major decisions of the institute. The Finance Committee and the Building & Works Committee look after the financial and construction activities of the Institute.

2.5 Academic Programmes

The institute is currently offering B. Tech program in the following departments:

- Computer Science and Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Mechanical Engineering
- Civil Engineering

The institute is offering M.Tech program in the following departments:

- Computer Science and Engineering
- VLSI
- Power Electronics and Power Systems

The institute is currently offering Ph.D. program in the following streams:

1. Computer Science and Engineering
2. Electrical and Electronics Engineering
3. Electronics and Communication Engineering
4. Humanities and Social Sciences
5. Applied Sciences
6. Mechanical Engineering
7. Civil Engineering

2.6 Courses Offered

Undergraduate Courses (B. Tech):

Branch	Current Year Intake (CSAB/JOSAA)	Current Year Intake (DASA)	Academic Year
Computer Science and Engineering	38	6	2023-2024
Electrical and Electronics Engineering	38	6	2023-2024
Electronics and Communication Engineering	38	6	2023-2024
Mechanical Engineering	37	5	2023-2024
Civil Engineering	37	5	2023-2024

Postgraduate Courses (M. Tech):

M.Tech. Programme	Current Year Intake				Academic Year
	CCMT	Sponsored	DRDO	Total	

Computer Science and Engineering	23	2	2	27	2023-2024
Power Electronics and Power Systems (PEPS)	22	2	2	26	2023-2024
VLSI	23	2	2	27	2023-2024
Total	68	6	6	80	2023-2024

Courses Offered Doctorate Courses (Ph.D.):

Ph.D. Category	Current Year Intake	Academic Year
MoE Funded (Full-time)	70	2023-2024
Part-time	Not Fixed	2023-2024
Self-financed (Full-time)	Not Fixed	2023-2024
Sponsored (Full-time)	Not Fixed	2023-2024

2.7 Admission Procedure

B.Tech.

- Admission to all courses is made in the ODD semester of an academic year at the first year based on relative performance in Joint Entrance Examination (JEE Main), and Direct Admission of Students Abroad (DASA) as per the guidelines issued by the Ministry of Education (MoE), New Delhi from time to time.
- The number of seats in each branch of the B. Tech. programme is decided by the Senate of the Institute following the instructions from MoE, Government of India. Reservation of seats to different states, castes, tribes and other categories shall be as per the directives from MoE, Government of India. Some seats are allotted by MOE under DASA (Direct Admission Student Abroad) category, offered to Foreign Nationals and Indians living abroad in accordance with the rules applicable for such admissions issued from time to time by MoE.
- At the time of admission the candidates should have passed/appeared and are awaiting results of the final examination of the 10+2 system or its equivalent with Mathematics, Physics and Chemistry as main subjects of study.
- Candidates have to fulfill the medical standards required for admission as set out in the information brochure of JEE-Main/or by the Central Seat Allocation Board (CSAB).
- The selected candidates will be admitted to the B. Tech. programme after he/she fulfills all the admission requirements set by CSAB/Institute after payment of the prescribed fees.
- In all matters relating to admission to the B. Tech. programme, the decision of the CSAB and its interpretation given by the Chairperson of the Senate shall be final.
- If at any time after admission, it is found that a candidate has not fulfilled any of the requirements stipulated by CSAB/Institute, the Academic Affairs Committee (AAC) may revoke the admission of the candidate and report the matter to the Senate

**M. Tech.**

- Admission to all courses is made in the ODD semester of an academic year at the first year level based on relative performance in Graduate Aptitude Test for Engineering (GATE) in relevant discipline as per guidelines issued by the Ministry of Education (MoE), New Delhi from time to time.
- The number of seats in each branch of the M. Tech. programme is decided by the Senate of the Institute following the instructions from MoE, Government of India. Reservation of seats is made as per the directives from MoE.
- At the time of admission, the candidates should have passed/appeared and awaiting results of the final examination of the qualifying degree in relevant discipline as main subjects of study.
- Candidates have to fulfill the medical standards required for admission as per rules set up by the Institute or guidelines issued by the Ministry of Education (MoE) from time to time.
- The selected candidates will be admitted to the M. Tech. programme after the due admission process.
- In all matters relating to admission to the M. Tech. programme, the decision of the Institute's Post-Graduate Admission Committee (PAC) and its interpretation given by the Chairperson of the Senate shall be final.
- If at any time after admission, it is found that a candidate has not fulfilled any of the requirements stipulated by the Institute, the Academic Affairs Committee (AAC) may revoke the admission of the candidate and report the matter to the Senate.

Ph.D.

- The award of the Ph.D. degree is in recognition of high achievements, independent research and application of knowledge to the solution of engineering, scientific and societal problems. The details of research programmes and faculty research interests may be found in the department websites. NIT Goa currently offers Ph.D. degrees in: Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Humanities and Social Sciences (HSS) and Applied Sciences (APS).

Categories of Ph.D. Candidates

- The Assistantship/Fellowships will be payable for duration fixed by the Ministry of Education (MoE) (or the granting agency) or until the date of submission of thesis, whichever is earlier. The Institute admits Ph.D. candidates under the following categories:
 - a. Full time research scholar on Institute fellowship (FT)
 - b. Teaching Assistant (TA)
 - c. Teaching Assistant through Project (TAP)
 - d. Industry Fellowships (IF)
 - e. Govt. / Semi Govt. Fellowship Awardees (FA) (CSIR, UGC, DOE, DST, DBT,

NBHM, ISEAP etc.)

f. Sponsored candidates (SP)

g. Self-Financed (Indian / Foreign) / Study Leave (SF)

h. Indian Council for Cultural Relations Award (ICCR) (Foreign Nationals)

(The candidate should have qualified GATE/NET examination for scholarship)

Advertisement for Ph.D. programmes is issued in the month of March (for July session) and October (for December-January session) each year in the employment news, website of the Institute as well as in leading newspapers. Admissions are carried out in the months of July and December. Candidates seeking admission under this clause must fulfil the required academic qualification/experience at the time of interview. They must join within two weeks after the issuance of admission offers by the Institute/ Department. Admission is subject to vacancy being available in the relevant specializations.

2.8 STUDENTS

- Number of Candidates admitted into First year B. Tech during 2023-2024

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	30	13	43
2.	EEE	27	9	36
3.	ECE	28	8	36
4.	MCE	28	8	36
5.	CVE	23	7	30
	Total	136	45	181

Eight (08) Students admitted under DASA Scheme

182 students were admitted into first year B. Tech Courses during 2023-2024

32 Number of Candidates admitted into first year M. Tech during 2023-24

- Number of Candidates admitted into First year M. Tech during 2023-2024

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	9	10	19
2.	EEE	1	1	2
3.	ECE	6	5	11
	Total	16	16	32

- Number of Candidates admitted into First year P.h.D during 2023-2024

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	4	3	7

2.	EEE	6	0	6
3.	ECE	4	5	9
4.	Civil	1	1	2
5.	APS	0	1	1
	Total	15	10	25

2.9 Examination & Evaluation

B.Tech.

Internal Evaluation

- For lecture or lecture cum practical courses, two tests will be conducted. The details of weights of marks for the tests and assignments will be decided by the course coordinator in consultation with the DCC. These details will be announced to the students in the beginning of the semester. The AAC should be informed of these details in the beginning of the semester. For laboratory practicals, the teacher of the laboratory in consultation with the DCC decides the number of tests.
- For all Lectures based courses, mid-term exam (25%) and internal evaluation (25%) through class tests/assignments/quizzes, etc., together carry 50% weight and the End-term examination carries 50% weight. For laboratory practicals, the End-term exam is not mandatory. If the End-term exam is planned for a practical course, it should be conducted before the last instructional day and the weight for it should not exceed 40%. For lecture cum practical courses assessment procedure is to be a properly weighted combination of those for lecture and those for practical components, and is to be decided in the DCC. For all Pass/Fail courses, the concerned faculty, in consultation with the AAC shall decide the assessment procedure

Examination

There will be one mid-term examination of one and a half hours duration for each lecture based or lecture cum practical course. There will be one End-term examination of three hours duration on each lecture based or lecture cum practical course

Make up examination

- Students who miss the mid-term or the end-term examinations for valid reasons are eligible for a make-up examination.
- Those who miss mid-term and/or end-term exam should apply to the Head of the concerned course department (in the case of third and higher semesters) or to the HoD, APS & HSS (in the case of first/second semester) through the faculty advisor within five days after the missed exam, giving the reasons for absence. Applications received after this period will not be entertained. All make-up exams for mid-term tests should be completed with evaluation within 10 days prior to the end-term exam. All the make-up exams pertaining to the end-term exam should be conducted and evaluated before the commencement of the next semester.
- Permission to appear for make-up exam will be given under exceptional circumstances such as admission to a hospital due to illness or grave family calamities, etc. Students residing in the Hostels should produce a Medical Certificate issued by Institute Medical Officer (IMO), certifying

that he/she was admitted to hospital during the period of exam. The application should be routed through and approved by Chief Warden.

- Students residing outside the campus must produce a medical certificate from a Registered Medical practitioner and the same should be duly endorsed by parent/guardian and also by IMO, within five days.
- A student who misses the make-up exam will not be given the another chance make-up exam. However, in exceptional cases of prolonged illness resulting in the student missing a make-up exam, the Chairperson of the Senate may permit the student to appear for a second make-up exam.

Project Evaluation

The B.Tech. Project is done in the final year of the undergraduate programme and is divided into two stages. Normally, the first stage is done in ODD semester and the second stage in subsequent EVEN semesters. Through the project work, the student has to exhibit both the analytical and practical skills. On completion of the project, the student will submit a project report that will be evaluated by duly appointed examiners. A panel of examiners should be finalized by HoD in consultation with all faculty members of the concerned department. The project evaluation will be based on combining the reports of internal and external examiners (outside the department). Suitable weights must be given to the qualitative and quantitative results of the project and are evaluated by a viva-voce exam.

Grading

1. The faculty members will return evaluated papers of tests, assignments, tutorials etc., within two weeks after their respective test/examinations.
2. Only the final grades (after approval by DCC) and attendance of all the students should be communicated by the teachers of the courses. Students may seek clarification regarding grades etc., from the concerned Course coordinator, if required.
3. The DCC meeting will be convened within ten days after the last day of the end-term examination. The letter grades to be awarded to the students for different subjects will be finalized in the meeting.
4. Based on the relative performance, each student is awarded a final letter grade for each of the course. The letter grades and the grade points are as follows:

Grade	Grade Points (GP)
S	10
A	9
B	8
C	7
D	6
P	5
F	0 (Failure)
W	0 (Failure due to insufficient attendance)
I	0 (Actual grade to be awarded later)



SA	0 (Satisfactory, only for Pass/Fail Courses)
US	0 (Unsatisfactory, only for Pass/Fail Courses)

5. A student is considered to have credited a course or earned credits for a course only if he/she secures a grade other than F, W or I for that course.

6. A 'W' grade is treated as equivalent to 'F' for the purpose of CGPA calculation, and the following criteria, in addition to poor attendance (less than 80%) may be considered for the award of 'W' grade:

- I. Badly incomplete in-semester record (due to non-medical reasons),
- II. Misconduct or use of unfair means in the examination, assignments, etc., or a behaviour serious enough to call for disciplinary action in the opinion of the Faculty advisor or teacher of a course.

In such cases, award of 'W' grade is taken up as an immediate action. Further, the case may be referred to the DC for consideration of further punishment depending on the seriousness of the offence.

M.Tech.

Assessment Procedure

The DCC will decide from time to time the system of tests and examinations in each subject in consultation with AAC and inform the same to the Senate.

Evaluation Method

- For lecture or lecture cum practical courses, a minimum of two tests will be conducted. The details of weightage of marks for the tests and assignments will be decided by the course coordinator in consultation with the DCC. These details will be announced to the students in the beginning of the semester. The AAC should be informed of these details in the beginning of the semester. For laboratory practical, the teacher of the laboratory decides the number of tests.
- For all Lecture based courses, mid-term exam (25%) and internal evaluation through class tests/assignments/quizzes, etc. (25%), together carry 50% weightage and the End-term examination carries 50% weightage. For laboratory practical, end-term exam is not mandatory. If end-term exam is planned for a practical course, it should be normally conducted before the last instructional day and the weight age for it should not exceed 40%. For lecture cum practical courses assessment procedure is to be a properly weighted combination of those for lecture and those for practical components.

Examination

There will be one mid-term examination of one and half hours duration on each lecture based or lecture cum practical course. There will be one end-term examination of three hours duration on each lecture based or lecture cum practical course

Make up Examination

- Students who miss the mid-term or the end-term examinations for valid reasons are eligible for a make-up examination with the due approval of AAC.
- Those who miss mid-term and/or end-term exam should apply to the Head of the concerned department through the faculty advisor within five days after the missed exam, giving the reasons for absence. Applications received after this period will not be entertained. All make-up exams for mid-term tests should be completed with evaluation within 10 days prior to the end-term exam. All the make-up exams pertaining to the end-term exam should be completed with evaluation before the commencement of the next semester.
- Permission to appear for make-up exam will be given under exceptional circumstances such as admission to a hospital due to illness or grave family calamities, etc.
- Students residing in the Hostels should produce a Medical Certificate issued by Institute Medical Officer (IMO), certifying that he/she was admitted to hospital during the period of exam. The application should be routed through and approved by Chief Warden.
- Students residing outside the campus must produce a medical certificate from a Registered Medical practitioner and the same should be duly endorsed by parent/guardian and also by IMO, within five days.
- A student who misses the make-up exam will normally not be given another make-up exam. However, in exceptional cases of prolonged illness resulting in the student missing a make-up exam, the Chairperson of the Senate may permit the student to appear for a second make-up exam.

M.Tech. Dissertation Evaluation

The M.Tech. Dissertation work is done in the last year of the postgraduate programme and is divided into two stages. Normally the first stage is done in ODD semester and the second stage in subsequent EVEN semester. Through the dissertation work, the student has to exhibit depth in terms of engineering or technological innovation or research ability to solve the contemporary problem. On completion of the work, the student will submit a project report that will be evaluated by duly appointed examiners. It is proposed to have at least one expert as part of the examining committee from external Institute/Organisation. The panel of examiners should be finalized by HoD in consultation with all faculty members of the concerned department. The dissertation evaluation will be based on combining the reports of internal examiners and external expert(s). Suitable weightage must be given to the qualitative and quantitative results of the project and evaluated by a viva-voce exam.

Grading

- The faculty will return evaluated assignments, tutorials, term papers, etc., within two weeks after the respective test/examination.
- Only the final grades (after approval by DCC) and attendance of all the students should be communicated by the teachers of the courses. Students may seek clarification regarding grades etc., from the concerned Course coordinator, if required.

- The DCC will be convened within ten days after the last day of the end-term examination. The letter grades to be awarded to the students for different subjects will be finalized at the meeting.
- Based on the relative performance, each student is awarded a final letter grade in each course. The letter grades and the grade points are as follows:

Grade	Grade Points	Description of Grades
S	10	Outstanding
A	9	Excellent
B	8	Very Good
C	7	Good
D	6	Average
P	5	Below Average
F	0	Failure
W	0	Failure due to insufficient attendance
I	0	Actual grade to be awarded later

1. A student is considered to have credited a course or earned credits in respect of a course if he/she secures a grade other than F, W or I for that course.
2. A 'W' grade is treated as equivalent to 'F' for the purpose of CGPA calculation, and the following criteria, in addition to poor attendance (less than 80%) may be considered for the award of 'W' grade:

I. Badly incomplete in-semester record (due to non-medical reasons),

II. Misconduct or use of unfair means in the examination, assignments, etc., or a behaviour serious enough to call for disciplinary action in the opinion of the Faculty advisor or teacher of a course.

In such cases, award of 'W' grade is taken up as an immediate action. Further, the case may be referred to the DC for consideration of further punishment depending on the seriousness of the offence.

Ph.D.

Constitution of DRC and progress during Ph.D.

1. Candidate will enroll for coursework, as self-study/lectures and complete 12 credits achieving a letter grade of at least 7.0 grade points in each course. The choice of coursework is based

on decision of the candidate's supervisor and DRC and this is recommended to help the candidate with preparatory work for research.

2. Candidate's DRC will comprise of a Chairperson (Head of Dept. (HoD) or his/her nominee, usually of the rank of Professor) preferably from the same department, Internal Expert - Area expert from the Department, External Expert - Area expert from another department and the Supervisor. The same should be informed to the Dean (Academics) through DRPC. Reconstitution of DRC member(s) with internal/external experts is subjected to approval from DRPC and Dean (Academics). In such a case the outgoing internal/external expert is not responsible for the candidates' further progress.

3. Candidate will have to appear for a Comprehensive Examination, within two years of registration of Ph.D., based on the courses approved by DRC. He/she will have to demonstrate satisfactory progress/performance in written examination or course viva-voce and must fulfil the departmental norms in force for evaluation of course works from time to time.

4. Candidate will present a research seminar as a part of the comprehensive examination to the DRC. In this presentation, he/she should identify his/her problem statement, thesis title and methodologies in the chosen problem area(s). He/she should have preferably published at least one paper in a reputed conference. The DRC may then approve and recommend him/her for "Confirmation of Registration" of Ph.D. along with confirming the area/title of his/her proposed work by a written communication to Dean (Academic) through DRPC. A maximum of two chances will be given for completion of comprehensive examination within the stipulated time. In case, the student is not able to clear Comprehensive Examination in the first attempt, one last chance will be given for completion, within the stipulated 2 years' time.

5. Candidate will give a research progress seminar every semester before the DRC. His/her progress will be monitored with recommendations that must be effectively incorporated by him/her. Candidate will be evaluated for his/her research progress through the seminar conducted in each semester, which will further be graded as- "SA" for satisfactory and "US" for unsatisfactory. The DRC sends these reports/comments to the Dean (Academic) through DRPC at the end of every semester. The DRC has to maintain an adequate record of the candidate's progress and communicate the same to the Dean (Academics) through DRPC at the end of every year.

6. If a candidate gets "US" for the first time, the DRC warns the candidate and allows him/her to proceed with the research work. In case the candidate gets "US" grade second time, his/her case may be recommended by the DRC for termination of Ph.D. registration. The recommendation should be forwarded in the form of a report to the Dean (Academics) through DRPC.

3.0 STAFF

3.1 Faculty

Department of Computer Science and Engineering

Sr. No.	Name	Designation
1	Dr. Damodar Reddy Edla	Associate Professor

2	Dr. Veena Thenkanidiyoor	Associate Professor
3	Dr. Purushothama B.R.	Associate Professor
4	Dr. Keshavamurthy B. N	Associate Professor
5	Dr. S Mini	Associate Professor
6	Dr. Pravati Swain	Assistant Professor
7	Dr. Venkatanareshbabu Kuppili	Assistant Professor
8	Dr. Modi Chirag Navinchandra	Associate Professor
9	Mrs. Sanga Chaki	Faculty on Contract
10	Ms. Sreedivya I.	Faculty on Contract
11	Ms. Samrudhi B. Desai	Faculty on Contract
12	Ms. Pratima Chatterjee	Faculty on Contract

Department of Electrical and Electronics Engineering

Sr. No.	Name	Designation
1	Dr. Suresh Mikkili	Associate Professor
2	Dr. B. Venugopal Reddy	Associate Professor
3	Dr. Sree Raj E.S	Associate Professor
4	Dr. Amol Deodas Rahulkar	Associate Professor
5	Dr. C. Vyjayanthi	Associate Professor
6	Dr. Soumitra Das	Associate Professor
7	Dr. Anudevi Samuel	Faculty on Contract
8	Dr. Ansal V.	Faculty on Contract

Department of Electronics and Communication Engineering

Sr. No.	Name	Designation
1	Dr. Vasantha M. H. Rao	Associate Professor
2	Dr. T. Veerakumar	Associate Professor
3	Dr. Anirban Chatterjee	Associate Professor
4	Dr. Nithin Kumar Y. B	Associate Professor
5	Dr. Trilochan Panigrahi	Associate Professor
6	Dr. Prashanth G. R.	Associate Professor
7	Dr. Shivnarayan Patidar	Assistant Professor
8	Dr. Lalat Indu Giri	Assistant Professor
9	Dr. Pragati Patel	Assistant Professor
10	Dr. E. Mallikarjun	Assistant Professor
11	Dr. Lokesh Kumar Bramhane	Assistant Professor

Department of Humanities and Sciences

Sr. No.	Name	Designation
1	Dr. Sarani Ghosal Mondal	Associate Professor
2	Dr. Sunil Kumar A.	Assistant Professor
3	Unais KT	Faculty on Contract
4	Debojyoti Das	Faculty on Contract
5	Ankita Sarmah	Faculty on Contract
6	Sujata	Faculty on Contract

Department of Applied Sciences

Sr. No.	Name	Designation
1	Dr. Saidi Reddy Parne	Associate Professor
2	Dr. Velavan Kathirvelu	Associate Professor
3	Dr. Ragoju Ravi	Associate Professor
4	Dr. Ravi Prasad K. J	Associate Professor
5	Dr. Shangerganesh L.	Assistant Professor
6	G. Shiva Kumar Reddy	Faculty on Contract
7	Suman Gandhi	Faculty on Contract
8	Lasitha P.	Faculty on Contract

Department of Mechanical Engineering

Sr. No.	Name	Designation
1	Dr. B Santhi	Assistant Professor
2	Dr. Prasenjit Dey	Assistant Professor
3	Pravin Anandrao Pawar	Faculty on Contract
4	Abhijit Sarkar	Faculty on Contract
5	Gaurang Ruhela	Faculty on Contract
6	Darius Diogo Barreto	Faculty on Contract
7	Sooraj Mohan	Faculty on Contract
8	Anoop A D	Faculty on Contract
9	Manvendra Tiwari	Faculty on Contract
10	Shubham	Faculty on Contract
11	Abhilash Kumar Tilak	Faculty on Contract

Department of Civil Engineering

Sr. No.	Name	Designation
1	Dr. Harikumar M.	Assistant Professor
2	Ankit Balvanshi	Faculty on Contract
3	Nithin V. L.	Faculty on Contract

4	Ande Bhuvaneswari Devi	Faculty on Contract
5	Chejarla Venkatesh Reddy	Faculty on Contract
6	Dhanesh Sing Das	Faculty on Contract
7	Aparup Biswal	Faculty on Contract
8	Govind Mohan	Faculty on Contract
9	Dr. Suryateja Pottipati	Faculty on Contract
10	S. Bright Singh	Faculty on Contract

3.2 Non- Academic Staff

Sr. No.	Name	Designation
1.	Dr. Shashidhar K Kudari	Registrar
2.	Mr. Amit Kabiraj	Assistant Registrar
3.	Mr. Manmohan Sakhuja	Assistant Registrar
4.	Mr. Digamber D. Mayekar	Accountant
5.	Mr. Sudharsan S	Technical Asst.
6.	Mr. Venkata Raman Grandhi	Technical Asst.(System)
7.	Mr. Rameez Rahman Kadavath	Technical Asst.
8.	Mr. Vijeesh V P	Technical Asst.
9.	Ms. Suvida Bipeen Madkaiker	Technical Asst.
10.	Mr. Patitapaban Pradhan	Technical Asst.
11.	Mr. Pinaki Chatterjee	Technical Asst.
12.	Mr. Digambar Ramchandra Dhengole	Technician
13.	Mr. Srinath Revoori	Technician
14.	Mr. Nijin M.	Technical Asst.
15.	Mr. Rohit Madhu Gawas	Technician
16.	Mr. Shri Ram Kumawat	Technical Asst.
17.	Ms. Swara S. Lotliker	Stenographer
18.	Mrs. Sweta Prashant Parwar	Junior Asst
19.	Ms. Namrata Prajesh Sawant	Junior Asst
20.	Mr. Karthikeyan M.	Junior Asst
21.	Ms. Tallulah Rodrigues	Junior Asst
22.	Mr. Amit Ajit Naik	Superintendent
23.	Mr. Kanneboina RajKumar	Multi- Tasking
24.	Mr. Arjun Singh	Technician
25.	Mr. Pritam Nageshkar	Multi- Tasking
26.	Mr. Sandeep Jaishwar	Junior Assistant
27.	Ms. Dipti Gaude	Multi- Tasking
28.	Mrs. Asmita Pritam Nageshkar	Multi- Tasking
29.	Mrs. Reshma R. Castelino	Technical Assistant
30.	Mr. Nikhil Uday Naik	Technician
31.	Ms. Supriya Shivaji Shet	Junior Assistant

32.	Ms. Priyanka Arun Parab	Technician
33.	Mrs. Teju Vasim Shaikh	Junior Assistant
34.	Mr. Kokate Santosh Parvatrao	Technician
35.	Mr. Anand Gachchinamath	Superintendent
36.	Mr. Koushik Shit	Technician
37.	Dr. S. Kumaraguru	Student Activity and Sports Officer on Contract
38.	Vallabh Ganapati Shenvi Velingkar	Resident Engineer
40.	Somya Shukla	Administrative Officer (T&P)
41.	Vijeta Saurabh Naik Dessai	Medical Officer
42.	Mamata Borkar	Student Counselor

4.0 ACADEMIC PROGRAMMES 2023-2024

Course-wise Enrolment

Course-wise enrolment Undergraduate Courses (B. Tech)

	Total Number of Students			Out of total no. of Students																	
				SC			ST			OBC			EWS			General			DASA		
B (Boys) G (Girls)	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
2023- 2024	136	45	181	21	6	27	9	5	14	40	14	54	14	6	20	45	13	58	7	1	8

*B-Boys, G-Girls, T-Total

4.1 Total number of Students in 2023-2024

Under Graduate Students: **724**

4.2 Course-wise enrolment Postgraduate Courses (M. Tech)

	Total Number of Students			Out of total no. of Students																	
				SC			ST			OBC			General			Sponsored			EWS		
B (Boys) G (Girls)	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
2023-2024	16	16	32	5	2	7	0	0	0	5	3	8	2	0	2	3	11	14	1	0	1

*B-Boys, G-Girls, T-Total

Total number of Students in 2023-2024

Postgraduate Graduate Students: 65

4.3 Course-wise enrolment Doctorate Courses (Ph.D.)

	Total No. of Students			Out of total no. of Students																	
				SC			ST			OBC			General			EWS			Others		
B (Boys) G (Girls) 2023-2024	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
2023-2024	15	10	25	5	0	0	0	0	0	2	2	8	8	8	16	0	0	0	0	0	0

***B-Boys, G-Girls, T-Total**

Total number of Students in 2023-2024 are Ph.D- 133

5.0 ADMINISTRATIVE AND STATUTORY BODIES AND OTHER COMMITTEES

The Board of Governors of National Institute of Technology Goa was constituted as per NIT Act, 2007 and NIT (Amendment) Act, 2012, by MOE, New Delhi vide letter no. F.No.23-2/2012-TS.III. Dated 13th August 2012.

5.1 Board of Governors

Prof. O. R. Jaiswal : Chairman I/C & Director NIT Goa
Director, National Institute of Technology Goa

Mrs. Saumya Gupta : Member
Addnl Secretary/Jt. Secretary (Technical Education),
MOE, Govt of India

Sh. Sanjog Kapoor : Member
Financial Advisor, Dept of Higher Education
MoE, Govt of India

Dr. Venkatesh Ganesh Prabhu Desai : Member
Chairman, Chandranath Education Society,
Assolda, Quepem, Goa

Mr. Mahesh Dhavlikar : Member
Professor, Dept of Mechanical Engineering
Goa Engineerign College, Farmagudi, Ponda Goa



Dr. Suresh Mikkili, : Internal Board Member
Associate Professor,
Department of EEE NIT Goa

Dr. Lalat Indu Giri, : Internal Board Member
Assistant Professor,
Department of ECE NIT Goa

Prof. B. G. Fernandes : Member
Professor & Head of Department of Electrical Engineering,
IIT Bombay

Dr. Shashidhar K Kudari : Member Secretary
Registrar, NIT Goa

5.2 Finance Committee

Prof. O.R. Jaiswal : Chairman I/C &
Director, National Institute of Technology Goa
Director, NIT Goa

Mrs. Saumya Gupta : Member
Addnl Secretary/Jt. Secretary (Technical Education),
MOE, Govt of India

Sh. Sanjog Kapoor : Member
Financial Advisor, Dept of Higher Education
MoE, Govt of India

Dr. Suresh Mikkili, : Internal Member
Associate Professor,
Department of EEE NIT Goa

Dr. Shashidhar K Kudari : Member Secretary
Registrar

5.3 Senate

Prof. Omprakash Jaiswal : Chairman Senate &
Director, National Institute of Technology Goa
Director, NIT Goa

Prof. N. C. Shivaprakash : External Member
Professor, Department of Instrumentation,
Indian Institute of Sciences, Bengaluru

Prof. Vasant Matsagar : External Senate



Dogra Chair Professor,
Multi-Hazard Protective Structures (MHPS) Laboratory
Department of Civil Engineering,
Indian Institute of Technology, Delhi

Prof. Smita Jha : External Senate
Professor,
Department of Humanities & Social Science,
Indian Institute of Technology, Roorkee.

Prof (Dr.) Shashidhar K Kudari : Member Secretary
Registrar , NIT Goa

Dr. Vyjyanthi C : Member
Dean Academics

Dr. Velavan Kathirvelu : Member
Dean Planning & Development

Dr. Amol Rahulkar : Member
Dean Faculty Welfare

Dr. Anirban Chatterjee : Member
Dean IRAA

Dr. Chirag Modi : Member
Dean R&C

Dr. Damodar Reddy Edla : Member
Dean Student Welfare

Dr. Veena T.. : Member
Associate Professor, HoD, CSE, NIT Goa

Dr. Prashanth G.R : Member
Associate Professor, HoD, ECE, NIT Goa

Dr. Soumitra Das, : Member
Associate Professor, HoD, EEE, NIT Goa

Dr. Harikumar M. : Member
Assistant Professor, HoD, Civil Engineering, NIT Goa

Dr. B.Santhi : Member

Assistant Professor, HoD,
Mechanical Engineering, NIT Goa

Dr. Shangerganesh L., : Member
Associate Professor, HoD, HS & APS, NIT Goa

5.4 Building and Works Committee

Prof. O.R. Jaiswal : Ex-Officio Chairman &
Director, National Institute of Technology Goa Director, NIT Goa

Ms. Veena Dunga : Member
Deputy Secretary, MoE

Shri Anilkumar : Member
Director, IFD, MoE

Prof. R. K Tripathi : Member
Prof, Dept of Civil Engg & Dean P&D
NIT Raipur

Dr. Shashidhar K. Kudari : Ex-Officio, Member Secretary
Registrar, NIT Goa

Dr. Velavan Kathirvelu : Member
Dean (P&D) NIT Goa

Prof. Krishna Kant Pathak : Expert
Professor Dept. of Civil Engineering IIT BHU.

Shri A.K Jain Former DDG (Works), : Expert
CPWD Delhi

6.0 CONCESSIONS FOR SCs, STs and PwD STUDENTS

6.1 Concessions provided for students:

- SC, ST and Physically Handicapped students in the institute are helped in many ways.
- There is reservation for admission for the UG courses as per the norms of the government of India.(15% for SC, 7.5% for ST and 2.5 % for Handicapped, 27% for OBC and 10% reservation for EWS students from supernumerary seats)
- Scholarships are given to the SC/ST Students(Vide section 4.6)

6.2 Concessions provided for staff

- There is reservation for the SC and ST Candidates for appointment and promotion as per the Govt. Norms. (15% for SC and 7.5% for ST and 27% for OBC and 10% for EWS).

7.0 PUBLICATIONS, SEMINARS,WORKSHOPS

Several workshops had been conducted and the faculty members engaged themselves actively in the research works.

7.1 Publications accepted /published:

Sr. No.	Publication details	Faculty Member	Department
1.	1. Kalyan Sundar Kola, Anirban Chatterjee, "A miniaturized left-handed circularly polarized printed radiator for direct broadcast satellite application" Int J Commun Syst, vol.37,, no.09, pp. e5693, Jan 2024. (Published) 2. Kalyan Sundar Kola, Anirban Chatterjee, "A printed tiny-RHCP antenna for direct broadcast application," AEU-International Journal of Electronics and Communications, vol 172, December 2023. (Published)	Dr. Anirban Chatterjee	ECE
2.	A review on subgrade soil stabilization using bio enzymes, Arabian Journal of Geosciences, 2023, Vol.16 (3)	Dr. Harikumar Mohanan, Saurabh Shivhare,	CVE
3.	Post curing optimization for tensile strength of hybrid ramie-carbon fiber reinforced polymer, Polymers and Polymer Composites, 2024, 32.	Dr. Harikumar M ,Tanvesh Dabholkar,	CVE
4.	Whether the role of Technological Innovation and Intellectual Property Rights on Sustainable Development is different in Developing and Developed countries? A Panel Data Analysis. International Journal of Innovation and	Dr. Sunil Kumar A	HSS

	<p>Sustainable Development ,472-493. https://doi.org/10.1504/ijisd.2022.10050021. Published online 11th July, 2023.</p> <p>2. Challenges and Opportunities of Hospital Preparedness and Resilience Plans in India: Experience from Covid-19 Pandemic. Journal of Informatics Education and Research, 4(2).</p> <p>3. Intellectual property rights (IPR) and its effect on the flow of cross-border mergers and acquisitions (M&As). WSEAS TRANSACTIONS ON BUSINESS AND ECONOMICS, 21, 1297-1313.</p>		
5.	<p>1. S. Hariharan, J. Manimaran and L. Shangerganesh, Stability analysis for a time-fractional SIR epidemic disease model with varying population sizes, Rocky Mountain Journal of Mathematics, Accepted, 2023.</p> <p>2. S. Hariharan, K.P. Sreesiva, L. Shangerganesh and N. Barani Balan, Prey-predator model with an infection in both population: Stability analysis and an optimal control study, Discontinuity, Nonlinearity and Complexity, 13(2) (2024) 257-268.</p> <p>3. S. Hariharan, L. Shangerganesh, A. Debbouche and V. Antonov, Stability analysis of spatiotemporal reaction–diffusion mathematical model incorporating the varicella virus transmission, The European Physical Journal Plus 138(12), (2023) 1123.</p> <p>4. P.T. Sowndarrajan, L. Shangerganesh, N. Nyamoradi and S.Hariharan, Optimal control for a nonlinear tuberculosis model, Iranian Journal of Science, (2023), 1-5.</p> <p>5. A. Arivazhagan, N Barani Balan, L. Shangerganesh and K. Dravid, Blow-up phenomena for a sixth-order partial differential equation with a general non-linearity, Journal of Dynamical and Control Systems, (2023), 1-15.</p> <p>6. V.N. Deiva Mani, S. Karthikeyan, L. Shangerganesh and S Marshal Anthoni, Solvability of the acid-mediated tumor growth model with nonlinear acid production term, Journal of Elliptic and Parabolic Equations, (2023), 1-14.</p> <p>7. J. Manimaran, V. Bhuvaneswari and L. Shangerganesh, Weak solution for time-fractional strongly coupled three species cooperating model, Partial Differential Equa-</p>	Dr. Shangerganesh L	APS

	tions in Applied Mathematics, (2023), 100504. 8. M.N. Krishnan, N Barani Balan, L. Shangerganesh and J Manimaran, An optimal control problem for acid-mediated cancer invasion model, Journal of Applied Nonlinear Dynamics 12(2023), 339-351.		
6.	Sireejaa Uppal, Bindiya Kansekar, S. Mini, Deepak Tosh, "HealthDote: A blockchain-based model for continuous health monitoring using interplanetary file system," Healthcare Analytics (Elsevier), vol. 3, 2023.	Dr. S. Mini	CSE
7.	1. Non-linear thermohaline instability of a Jeffrey fluid in a porous layer with chemical reaction. 2. Effect of viscous dissipation on thermal convection in bidispersive porous media with vertical throughflow: Global stability analysis. 3. Onset of Oscillatory Convection of a Chemically Reacting Fluid with Rigid Horizontal Boundaries. 4. Effect of throughflow on the study of linear and weakly nonlinear stability analysis of Jeffrey fluids in an anisotropic porous layer. 5. Onset of rotating convection of a nanofluid with helical force: Stability analysis. 6. The study of internal heat and variable gravity field on the onset of convection in a sparsely packed porous medium. 7. Dissolution-driven convection in an inclined porous medium with first order chemical reaction. 8. Dissolution-driven convection of a power-law fluid in a porous medium in the presence of chemical Reaction. 9. Thermohaline convection of a Casson fluid in a porous layer: Linear and non-linear stability analyses	Dr. G. Shiva Kumar Reddy	Applied Sciences
8.	1. Predicting the effect of inertia, rotation, and magnetic field on the onset of convection in a bidispersive porous medium using machine learning techniques, Physics of Fluids, 2023, DOI: 10.1063/5.013842 2. Nonlinear instability analysis of internally heated convection in a porous layer with the impact of magnetic field and variable gravity, Heat Transfer, 2023, DOI: 10.1002/htj.22841. 3. Thermohaline convection of a Casson fluid in a porous layer: Linear and non-linear stability analyses, Physics of Fluids, 2023, DOI: 10.1063/5.0163731 4. Transient magnetized Soret effect on dissipative couple stress convection flow past a cylinder,	Dr. Ravi Ragoju	APS

	<p>Numerical Heat Transfer, Part B: Fundamentals, 2023, DOI: 1080/10407790.2023.2265551</p> <p>5. Thermal Convection of a Ferrofluid with the Effect of Helical Force: Weakly Non-Linear Theory, Special Topics & Reviews in Porous Media: An International Journal, 2023.</p> <p>6. Onset of Darcy-Brinkman Convection in a Rotating Bidisperse Porous Medium, Journal of Porous Media, 2023, DOI: 10.1615/jpormedia.2023044780.</p> <p>7. Impact of variable gravity on rotating convection in a porous layer with an internal heat source, Mathematics in Engineering, Science and Aerospace, 2023, EID: 2-s2.0-85169472616.</p> <p>8. Linear and nonlinear investigations of the impact of chemical reaction on the thermohaline convection in a permeable layer saturated with Casson fluid, Physics of Fluids, 2024, DOI: 10.1063/5.0187286</p> <p>9. Dissolution-driven convection of a power-law fluid in a porous medium in the presence of chemical reaction, Heat Transfer, 2024, DOI: 10.1002/htj.22937</p> <p>10. The effect of Péclet number on the onset of Casson fluid convective motion in a porous layer: Analytical and numerical investigations, Numerical Heat Transfer, Part B: Fundamentals, 2024, DOI: 10.1080/10407790.2024.2320720.</p> <p>11. Effects of throughflow and gravity modulation on triple-diffusive convection in a sparsely packed porous medium Numerical Heat Transfer, Part B: Fundamentals, 2024, DOI: 10.1080/10407790.2024.2345590.</p> <p>12. Nonlinear magnetoconvection of a Maxwell fluid in a porous layer with chemical reaction, 2023, International Journal of Modelling and Simulation, 1-10</p>		
9.	<p>1. Annet M. Wilson, T. Panigrahi, Bishnu Prasad Mishra, and Samrat L Sabat, "Channel Equalization through Pre-Denoising using a Hybrid Multiscale Decomposition in an Impulsive Noise Environment," in International Journal of Communication Systems, Wiley, 2024 accepted.</p> <p>2. Bhabani Sankar Gouda, Parimal Kumar Giri, Sudhakar Das, Trilochan Panigrahi, and Bijay Kumar Paikaray "Predicting and diagnosing self-intermittent faults in a dynamic distributed attack on wireless sensor network," International Journal of Business Continuity</p>	Dr. Trilochan Panigrahi	ECE

	<p>and Risk Management, Vol. 14, No. 2, June, 2024.</p> <p>3. Saran Srihari Sripada Panda, Saidi Reddy Parne, Sahil Sharma, Suman Gandhi, Trilochan Panigrahi, "Barium-doped Mg-Zn ferrites: synthesis, characterization, and microwave absorption properties for radar absorption applications," Journal of Sol-Gel Science and Technology, Springer. May 2024</p> <p>4. Saran Srihari Sripada Panda, Sahil Sharma, Suman Gandhi, Trilochan Panigrahi, Saidi Reddy Parne, "Microwave Absorption Behaviour of Novel Rib Cage Structured Piper Betel Leaves: Effect of Drying and Sintering Processes," Materials Today Communications, Elsevier, 2023, 107863.</p> <p>7. 5-Saran Srihari Sripada Panda, Suman Gandhi, Saidi Reddy Parne, Trilochan Panigrahi, Vijeesh Vadakke Parambil, "Facile hydrothermal synthesis of bio-inspired ZnO/Fe₂O₃/ZnFe₂O₄ heterostructure: Effect of microwave absorption properties," Surfaces and Interfaces, Elsevier, 2023, 103490, https://doi.org/10.1016/j.surfin.2023.103490.</p> <p>8. Bhabani Sankar Gouda, Sudhakar Das, Trilochan Panigrahi, "Distributed Self Intermittent Fault Diagnosis in Dense Wireless Sensor Network," International Journal of Computer Networks and Applications (IJCNA), 10(4), PP: 603-620, Sep. 2023.</p> <p>9. Annet Mery Wilson and T Panigrahi, "Robust SIMO Channel Estimation under Impulsive Noise with "Fair" Cost Function," in National Conference on Intelligent Systems, IoT, and Wireless Communication for the Society, held at National Institute of Technology Rourkela, Odisha from 16-17th Feb. 2024.</p> <p>10. Charulata Palai, Pradeep Ku jena and T Panigrahi, "Face Image Retrieval using GLCM and Texture Feature Fusion," in National Conference on Intelligent Systems, IoT, and Wireless Communication for the Society, held at National Institute of Technology Rourkela, Odisha from 16-17th Feb. 2024.</p> <p>11. Kaivalya Gaune, Anirudh Lawande, T. Panigrahi, "Sign Detection using an N-gram Language Model and MobileNet," in 5th International Conference on Advances in Distributed Computing and Machine Learning-2024, during January 05-06, 2024, VIT-AP, Amarawati India.</p>		
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	<p>12. Bandaru Bhavana, Samrat L. Sabat, Swetha Namburu and T. Panigrahi, "Distributed Compressive Spectrum Sensing using Robust Power Estimation Techniques under Non-Gaussian Noise," in 16th IEEE International Conference on COMMunication Systems & NETworkS (COMSNET 2023), January 3 – 7, 2024, Hybrid Mode, Bengaluru, India</p> <p>13. Shilpa Sikdar and T Panigrahi, "Low Power and Area-Efficient Hybrid Adder for ALU Operation," in IEEE International Symposium on Smart Electronic Systems (iSES) 2023, Nirma University, Ahmedabad, 18-20 Dec 2023.</p> <p>14. Bandaru Bhavana, Samrat L. Sabat, Swetha Namburu and T. Panigrahi, "Energy detector for spectrum sensing using robust statistics in non-Gaussian noise environment," in 15th IEEE International Conference on COMMunication Systems & NETworkS (COMSNET 2023), January 3 – 8, 2023, Hybrid Mode, Bengaluru, India.</p>		
10.	<p>1. Priolkar, Jayesh, and Sreeraj E. S. "Distributed Generation and Demand Response Coordination for Optimal Operation of Microgrid Using Modified Elephant Herd Optimization." Electric Power Components and Systems, (2024), 1–18. doi:10.1080/15325008.2024.2330989.</p> <p>2. Priolkar, Jayesh, and Sreeraj E. S. "Optimal scheduling and demand response implementation for home energy management." International Journal of Electrical and Computer Engineering (IJECE) Vol. 14, No. 2, April 2024, pp. 1352~1368 ISSN: 2088-8708, DOI: 10.11591/ijece.v14i2.pp 1352-1368.</p>	Dr. Sree Raj E. S	EEE
11.	<p>1. A review on influence of nanoparticle parameters on viscosity of nanofluids and machining performance in minimum quantity lubrication.</p> <p>2. Hirudayanathan HP, Debnath S, Anwar M, Johar MB, Elumalai NK, Mohammed Iqbal U. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. 2023;0(0). doi:10.1177/09544089231189668</p>	Dr. Hiru Purushothaman Hirudayanathan	MCE
	1.Pritesh Anil Metha and Suresh Mikkili "A Low-Cost, Real-Time Current Sensing Full-Bridge MOSFET Topology for Efficient Operation with Resistive/Inductive Loads". IEEE Journal of Emerging and Selected Topics in Industrial Electronics, (DOI: 10.1109/JESTIE.2024.3447744) Accepted, 2024.		

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	ZZ, SS, NSD, and MMS) to Extract Maximum Power under Various Shading Conditions”, International Journal of Circuit Theory and Applications – Wiley, 2023		
13.	1. Nivedita Naik, C. Vyjayanthi and Chirag Modi, “Filter- Based Active Damping of DAB Converter to Lower Battery Degradation in EV Fast Charging Application”, IEEE Access, July 2023, Digital Object Identifier 10.1109/ACCESS.2021.3095354.	Dr Vyjayanthi	EEE
14.	1. Sahil Sharma, Saidi Reddy Parne, Saran Srihari Sripada Panda, Suman Gandhi, “Progress in microwave absorbing materials: A critical review” Advances in Colloid and Interface Science, 2024, 103143, https://doi.org/10.1016/j.cis.2024.103143 2. Balachandar Waddar, Saidi Reddy Parne, Suman Gandhi, G R. Prasanth, Vishnu Rama Chari, Investigation of second order NLO properties of novel 1,3,4 oxadiazole derivatives: A DFT study, Journal of Molecular Modeling, Journal of Molecular Modeling (2024) 30:118, https://doi.org/10.1007/s00894-024-05910-7 . 3. Ruchika Tayil, Suman Gandhi, Saidi Reddy Parne, Velavan Kathirvelu “Recent advances and perspectives of Molybdenum Disulfide and Molybdenum Disulfide based nanocomposites for adsorption and photocatalytic degradation of organic dyes: A review” Journal of Materials Science, 2024, https://doi.org/10.1007/s10853-024-09441-7 https://rdcu.be/dAitb 4. Ruchika Thayil, Kurugundla Gopi Krishna, Sudhir Cherukulappurath, Velavan Kathirvelu, Saidi Reddy Parne, “MoS ₂ and MoS ₂ -based nanocomposites for enhanced toluene sensing response at room temperature” Surface and Interface, Volume 46, March 2024, 104134, https://doi.org/10.1016/j.surfin.2024.104134 5. Saran Srihari Sripada Panda , Sahil Sharma, Suman Gandhi, Trilochan Panigrahi, Saidi Reddy Parne, “Microwave absorption behaviour of novel rib cage structured piper betel leaves: Effect of drying and sintering processes” Materials Today Communications, 38 (2024), 10786, https://doi.org/10.1016/j.mtcomm.2023.107863 6. KG Krishna, Saidi Reddy Parne, P Nagaraju , “ZnO/CdO island-like porous nanocomposite as an ultra-sensitive sensor for BTX detection at room	Dr. Saidi Reddy	Applied Science

	<p>temperature”- Surfaces and Interfaces, Volume 44, January 2024, 103631, https://doi.org/10.1016/j.surfin.2023.103631</p> <p>7. Gopi Krishna Kurugundla, Saidi Reddy Parne and Nagaraju P, “Optimizing Gas Sensing Properties of Fe-Loaded Indium Zinc Oxide Nanocomposite for Efficient Detection of Ammonia Gas” ECS Journal of Solid State Science and Technology, Volume 12, Number 12, 2023, https://doi.org/10.1149/2162-8777/ad1207</p> <p>8. Praveen Chenna, Saran Srihari Sripada Panda, Sahil Sharma, Suman Gandhi and Saidi Reddy Parne, “Optical, Dielectric, and Electromagnetic Microwave Absorption Properties of Hexagonal $\text{Ba}_3(\text{VO}_4)_2$”, ECS Journal of Solid State Science and Technology, January 2024, https://doi.org/10.1149/2162-8777/ad1ed0</p> <p>9. A Naik, DR Edla, Saidi Reddy Parne, H Bhukya, “Weighted ensemble CNN for lung nodule classification: an evolutionary approach” Multimedia Tools and Applications, 1-26, 2024, https://doi.org/10.1007/s11042-023-17996-x</p> <p>10. SSS Panda, S Gandhi, Saidi Reddy Parne, T Panigrahi, Vijeesh V.P. “Facile hydrothermal synthesis of bio-inspired $\text{ZnO}/\text{Fe}_2\text{O}_3/\text{ZnFe}_2\text{O}_4$ heterostructure: Effect of microwave absorption properties” Surfaces and Interfaces, Volume 42, Part B, November 2023, 103490, https://doi.org/10.1016/j.surfin.2023.103490</p> <p>11. Kurugundla Gopi Krishna, Saidi Reddy Parne, and P. Nagaraju, “An optical study of heterojunction n-ZnO/p-CuO nanosheets and detection of n-butanol vapour at room temperature” Journal of Materials Science, 2023, https://doi.org/10.1007/s10853-023-08997-0</p> <p>12. P Sujith, Saidi Reddy Parne, T Abhinav, “Exploring the synthesis, structure, and optoelectronic properties of lead-free halide perovskite $\text{Cs}_3\text{Bi}_2\text{I}_9$ in single crystal and polycrystalline forms” - Semiconductor Science and Technology, Volume 38, Number 12, 2023, https://iopscience.iop.org/article/10.1088/1361-6641/ad08dd/meta</p> <p>13. KG Krishna, Saidi Reddy Parne, P Nagaraju, “Low cost ternary metal oxide based nanocomposites as a room temperature formaldehyde sensor”, Phys. Scr.</p>		
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	14. Preetha R Rao, Amruta Lipare, Damodar Reddy Edla, and Saidi Reddy Parne. 2023. "An Energy-Efficient Routing Algorithm for WSNs Using Fuzzy Logic" Sensors 23, no. 19: 8074. https://doi.org/10.3390/s23198074		
	15. Praveen Chenna , Suman Gandhi , Sujith Pookatt , Saidi Reddy Parne , Perovskite White Light Emitting Diodes: A Review, Materials Today Electronics, Volume 5, September 2023, 100057 (2023)		
	16. Nithin Kumar Goona, Saidi Reddy Parne, "Distributed source scheme for Poisson equation using finite element method", Journal of Computational Science, Volume 72, September 2023, 102103, https://doi.org/10.1016/j.jocs.2023.102103		
	17. KG Krishna, Saidi Reddy Parne, P Nagaraju , "Facile synthesis and enhanced acetone sensing properties of ZnO/TiO ₂ nanocomposite at room temperature", Materials Science and Engineering: B, 2023, https://doi.org/10.1016/j.mseb.2023.116734		
	18. SSS Panda, S Gandhi, T Panigrahi, Saidi Reddy Parne, "Structural, Optical, and Electromagnetic Microwave Absorption Properties of Bael Leaves: A Simple Approach to Investigate Microwave Absorption Properties with 3D Printed PLA Tubes", - Journal of Electronic Materials, Volume 52, Pages 6254-6268, 2023, https://doi.org/10.1007/s11664-023-10575-8		
	19. SR Sriram, N Pothukanuri, Saidi Reddy Parne, DR Edla, "Flake-Like WO ₃ -Based Thin Films for Enhanced Ethanol Sensing Applications" ECS Journal of Solid State Science and Technology, Volume 12, Number 7, 2023,, http://doi.org/10.1149/2162-8777/ace5d8		
	20. Sujith P, Saidi Reddy Parne and P.Predeep, "Iodine doping of CsPbBr ₃ : toward highly stable and clean perovskite single crystals for optoelectronic applications" Journal of Philosophical Magazine, https://doi.org/10.1080/14786435.2023.2195703 , 2023		
	21. Saran Srihari Sripada Panda, Suman Gandhi, Trilochan Panigrahi, Saidi Reddy Parne "Investigation of electromagnetic wave absorption properties of Ramphal leaves" Journal of Materials Science: Materials in Electronics, Volume 34, article number-1207, (2023), https://doi.org/10.1007/s10854-023-		

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15.	<p>1. Achintya Kampli, Prasenjit Dey, "A critical review on recent developments and applications of microchannels in the field of heat transfer and energy", Heat and Mass Transfer, Volume 59, pages 1707–1747, (2023)</p> <p>2. Prasenjit Dey, "A Novel Arrangement of Multiple Cylinders of Different Structural Conditions Dictating Wind Energy Harvesting at Very Low Reynolds Number", Journal of Vibration Engineering & Technologies (2024), https://doi.org/10.1007/s42417-024-01408-x.</p> <p>Achintya Kampli, Prasenjit Dey, "Effects of Magnetic fields and nanoparticle concentration on hydro-thermal performance of a surface enhanced microchannel", Numerical Heat Transfer, Part A: Applications (2024), 10.1080/10407782.2024.2373966</p>	Dr. Prasenjit Dey	MCE
16.	<p>1. A. K. Samantaray, P. J. Edavoor and A. D. Rahulkar, "A Novel Design Approach and VLSI Architecture of Rationalized Bi-Orthogonal Wavelet Filter Banks," in IEEE Transactions on Very Large Scale Integration (VLSI) Systems, vol. 32, no. 4, pp. 619-632, April 2024, doi: 10.1109/TVLSI.2023.3342122 (IF-2.8)</p> <p>2. Pranose Edavoor, Aswinikumar Samantaray and Amol D Rahulkar, "Design of floating point multiplier using approximate hybrid Radix-4/ Radix-</p>	Dr. Amol Rahulkar	EEE

	8 booth encoder for image analysis”, e-Prime - Advances in Electrical Engineering, Electronics and Energy, Elsevier, Vol. 8, April 2024.		
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7.2 Workshops Conducted/Participated/attended

Sr. No.	Workshop Details	Faculty Member	Department
1.	Conducted: Organized a 5 day STTP on Sustainable Future on Water Resources and Climate Challenges, sponsored by the Department of Science and Technology & Waste Management, Govt. of Goa, during 12th –16th March 2024	Dr. Harikumar M	CVE
2.	Participated: BIS meeting for CED57 - Cyclone Resistant Structures Sectional Committee, for discussion on formulation of the necessary Indian standard codes related to Cyclone-related structures	Dr. Harikumar M	CVE
3.	Participated: CED 39- Earthquake Engineering Sectional Committee.	Dr. Harikumar M	CVE
4.	Attended International Conference on “Photonics-2023, IISc Bangalore during 5-8 July 2023 (Attended)	Dr. Saidi Reddy	APS
5.	Indo-Norway Workshop on “Smart Sensing, Communication and Control Systems for Industrial Applications (IN-SCOCOS)” during 19-20 February 2024 (Conducted)	Dr. Saidi Reddy	APS

7.3 Paper Presented in Seminars

Sr. No.	Papers Presented	Faculty Member	Department
01.	R&D Tax Credit and Firm Productivity: Evidence from India” In sixteenth Annual Conference of Forum for Global Knowledge	Dr. Sunil Kumar	HSS

	Sharing (FGKS) held at IIT Bombay during November 24-25, 2023.		
02.	S. Hariharan and L. Shangerganesh, Optimal control problem for a fractional order chickenpox mathematical model, ICIAM, 20-25, August, 2023, Japan.	Dr. Shangerganesh	APS
03.	S. Hariharan and L. Shangerganesh, Optimal control and dynamic behavior of SIQVR epidemic model, Recent Trends in Mathematical Biology Theory, Methods and Applications, 20-22 July 2023, India.	Dr. Shangerganesh	APS
04.	L. Shangerganesh, A time-fractional cross-diffusion -competition ecological model, Recent Advances in Industrial and Applied Mathematics on July 27-28, 2023, Periyar University, Salem, India.	Dr. Shangerganesh	APS
05.	S. Hariharan and L. Shangerganesh, A study on basic reproduction number for a spacio-thermal epidemic model, Recent Advances in Industrial and Applied Mathematics on July 27-28, 2023, Periyar University, Salem, India.	Dr. Shangerganesh	APS
06.	Resource person in the Workshop on Advanced Partial Differential Equations and Applications at CUTN on 29, December, 2023 – 11, January, 2024.	Dr. Shangerganesh	APS
07.	Resource person in Refresher Course in Computational Sciences, Goa University, 30, January, 2024.	Dr. Shangerganesh	APS
08.	Guest Lecture on Spatiotemporal Mathematical Models on Epidemic Disease at Dr. N.G.P Arts and Science College, Coimbatore, 26-02-2024.	Dr. Shangerganesh	APS
09.	Resource person for FDP- Recent	Dr. Shangerganesh	APS

	Advancement In Mathematics And Statistics at CIT, Coimbatore, 16-02-2024.		
10.	National Conference on Mathematical Modelling and Computation (NCMMC-2024) at PSGR Krishnammal College, Coimbatore, 14 and 15, March, 2024	Dr. Shangerganesh	APS
11.	George Munus and C. Vyjayanthi, "Modeling and Simulation of DC-DC Converters for PEM Fuel Cell Electric Vehicles", IEEE 8th International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET-2023), National Institute of Technology Mizoram, India, 06-07 October 2023.	Dr. C. Vyjayanthi	EEE
12.	V V S Swamy, Bharath Dasari, Vijeesh V P, Saidi Reddy Parne, "Fabrication of 3-D printed plunge mechanism type FBG pressure sensor for underwater applications" Photonics-2023 (International Conference on Photonics), IISc Bangalore	Dr. Saidi Reddy	Applied Science

Books/Chapter Published

Sr. No.	Books/Chapter Published	Faculty Member	Department
1.	K.S.Kola, A.Chatterjee, "A Printed Array of Nature-inspired based Antennas for IoT and future 5G Applications" Advances in Microwave Engineering: From Novel Material to Novel Microwave Applications, CRC Press, Chapter 5, 15 pages, 1st Edition, eBook ISBN 9781003459880, 21 November 2023.	Dr. Anirban Chatterjee	ECE
2.	Y.G. Bala, Santhi B, Dinesh Kumar, "Sustainability in Welding Industries", 215–228, Scrivener Publishing, 2024	B Santhi	MCE
3.	Suman Gandhi, Saidi Reddy Parne, Shyam Sundar Gandhi and Nagaraju Pothukanuri, "Functionalized nanofibers for fuel cell applications" Handbook of Functionalized Nanofibers: Synthesis and Industrial Applications, Elsevier, 2023, Pages: 753-779. https://doi.org/10.1016/B978-0-323-99461-3.00001-7	Dr. Saidi Reddy	Applied Science

4.	Suman Gandhi, Saran Srihari Sripada Panda, Saidi Reddy Parne, Nagaraju Pothukanuri, and Gangaraju Gedda, "Advanced Electrochemical Bionanomaterials for Energy Conversion and Storage." Sustainable Nanomaterials for Biosystems Engineering: Trends in Renewable Energy, Environment, and Agriculture (2023): 57. Page No 56-91. Publisher: AAP, CRC Press, USA (Taylor and Francis Group), Hard ISBN: 9781774912010, E-Book ISBN: 9781003333517	Dr. Saidi Reddy	Applied Science
5.	Aswini. K. Samantaray and Amol D. Rahulkar, "Feature Extraction in Medical Image Retrieval: A New Design of Wavelet Filter Banks", 1st edition, Springer Nature, May 2024., ISBN No. 978-3-031-57279-1	Dr. Amol Rahulkar	EEE

7.4 Conferences:

Sr. No.	Conference Details	Faculty Member	Department
1.	K. S. Kola, A. Chatterjee and S. Bhattacharya, "Golden-ratio based Concentric Circular shaped Printed Antennas for DSRC Applications," 2024 Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), Bhilai, India, pp. 1-7, Jan 2024.	Dr. Anirban Chatterjee	ECE
2.	B.Yeswanthkumar Reddy and B Santhi, "A Novel Approach on the Development of Natural Gums for Additive Manufacturing Applications", Recent Advances in Additive Manufacturing (Select Proceedings of ICAM 2024) - Lecture Notes in Mechanical Engineering, ISSN 2195-4356, March 2024	B. Santhi	MCE
3.	B. R. Jose and S. Mini, "Efficient Device Management for Enhanced Energy Utilization and Operational Performance in Internet of Things," <i>IEEE 8th International Conference for Convergence in Technology (I2CT)</i> , India, pp. 1-5, 2023.	Dr. S. Mini	CSE
4.	Double-diffusive convection in an inclined porous	Dr. Ravi Ragoju	APS

	layer with the effect of a magnetic field Presented at the International Conference on Computational Modeling in Science and Engineering (ICCMSE-2023), Department of Mathematics, NIT Warangal, October 28 - 30, 2023		
5	M. Sundar, R. Bandaru and E. S. Sreeraj, "A Single Phase Zero-Voltage-Transition Type-1 Common Ground PV Inverter," 2023 11th National Power Electronics Conference (NPEC), Guwahati, India, 2023, pp. 1-6, doi: 10.1109/NPEC57805.2023.10384904.	Dr. Sree Raj E. S	EEE
6.	Influence of the Viscosity of Nanofluids on Surface Roughness in End Milling of Nickel Alloys with Minimum Quantity Lubrication. Hiru Purushothaman Hirudayanathan, Sujan Debnath, Mahmood Anwar, Mahzan Bin Johar, Naveen Kumar Elumalai, Mohammed Iqbal U MATEC Web Conf. 377 01007 (2023) DOI: 10.1051/mateconf/202337701007	Dr. Hiru Purushothaman Hirudayanathan	Mechanical Engineering
7.	Annet Mery Wilson and T Panigrahi, "Robust SIMO Channel Estimation under Impulsive Noise with "Fair" Cost Function," in National Conference on Intelligent Systems, IoT, and Wireless Communication for the Society, held at National Institute of Technology Rourkela, Odisha from 16-17th Feb. 2024.	Dr.Trilochan Paniograhi	ECE
8.	Kaivalya Gaune, Anirudh Lawande, T. Panigrahi, "Sign Detection using an N-gram Language Model and MobileNet," in 5th International Conference on Advances in Distributed Computing and Machine Learning-2024, during January 05-06, 2024, VIT-AP, Amarawati India.	Dr.Trilochan Paniograhi	ECE
9.	Shilpa Sikdar and T Panigrahi, "Low Power and Area-Efficient Hybrid Adder for ALU Operation," in IEEE International Symposium on Smart Electronic Systems (iSES) 2023, Nirma University, Ahmedabad, 18-20 Dec 202	Dr.Trilochan Paniograhi	ECE
10	Achintya Kambli, Prasenjit Dey, "Effects of magnetic field on nanofluid flow in an oblique finned microchannel", Proceedings of the 10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP), 2023	Dr. Prasenjit Dey	MCE
11	Tanu Naik Kurade, Rutuja Patil, Priyesh Singh,	Dr. Prasenjit Dey	MCE

	Prasenjit Dey, "Dual Cylinders in Tandem Dictating Wind Energy Harvesting at Very Low Reynolds Number", Proceedings of the 2nd International Conference on Fluid, Thermal and Energy Systems June 6-8, 2024, NIT Calicut, Kerala, India		
12.	Gaurav Kumar, Suresh Mikkili, "Performance Analysis of Grid-Integrated: V2G, G2V, EV and PV Systems for Power Flow Optimization", IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10430734	Dr. Suresh Mikkili	EEE
13.	Praveen Kumar B, Suresh Mikkili, "Grey Wolf Optimization Assisted MPPT Technique for Total-Cross-Tied PV Array Configuration to Track GMPP under Shading conditions", IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10430660	Dr. Suresh Mikkili	EEE
14.	Aditi Atul Desai, Suresh Mikkili, "Hardware Implementation of H5 and Novel H6 Transformer-Less Inverter Topologies for Grid Connected Photovoltaic System to Eliminate Leakage Current using OPAL-RT", IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10430825	Dr. Suresh Mikkili	EEE
15.	Santhosh Yedla; Suresh Mikkili; Praveen Kumar B, "PV Array Interconnection Schemes for Extracting Maximum Power under Dynamically Varying Irradiance Conditions", IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10430785	Dr. Suresh Mikkili	EEE
16.	Abhilash Sakhare, Suresh Mikkili, "A Novel Non-Isolated High Gain Bidirectional DC-DC Converter for Photovoltaics to Extract the Maximum Power", IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10431076	Dr. Suresh Mikkili	EEE
17.	6 Shivalika Sharma and Suresh Mikkili, "Design of Solar Powered Charging Station for Electric Vehicle Applications with MPPT Optimization," 2023 11th National Power Electronics Conference (NPEC), IIT	Dr. Suresh Mikkili	EEE

	Guwahati, India, 14-16 December 2023, pp. 1-6, doi: 10.1109/NPEC57805.2023.10384993.		
18.	K. Dileep and Suresh Mikkili, "A Novel One Time Diagonal Sudoku PV Reconfiguration Technique To Soothe The Effect Of Partial Shading Conditions," 2023 11th National Power Electronics Conference (NPEC), IIT Guwahati, India, 14-16 December 2023, pp. 1-6, doi: 10.1109/NPEC57805.2023.10384981.	Dr. Suresh Mikkili	EEE
19.	P. K. Bonthagorla and Suresh Mikkili, "A Triple-Tied PV Array scheme with Grey Wolf Optimization based MPPT Approach for Maximum Power Harvesting Under Partial Shading," IECON 2023- 49th Annual Conference of the IEEE Industrial Electronics Society, Singapore, 16-19 October 2023, pp. 1-6, doi: 10.1109/IECON51785.2023.10311850.	Dr. Suresh Mikkili	EEE
20.	Priyanka K. Padiyar and Amol D. Rahulkar, "Design of Adaptive Gabor Filter Bank for Feature Extraction of MRI Images and Classification using Support Vector Machine," 2023 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, India, 2023, pp. 1-5, doi: 10.1109/CONECCT57959.2023.10234741. SEPT 2023	Dr. Amol Rahulkar	EEE

Patents Filed/Published/Granted

Sr. No.	Patents Filed/Published/Granted	Faculty Member	Department
1	Indian Patent Entitled "MOSFET Based Real-Time Current Sensing Device" has been granted to Dr. Suresh Mikkili and Mr. Pritesh Anil Metha	Dr. Suresh Mikkili	EEE
2	Indian Patent Entitled "Smart Street Light" has been granted to Dr. Suresh Mikkili and Mr. Abhinav Bhattacharjee	Dr. Suresh Mikkili	EEE
3	"Preparation of Palm Oil-based Aluminum Oxide (Al ₂ O ₃) Nanofluid" has been filed with Intellectual Property Corporation of Malaysia (MyIPO). (Application No: PI2023007342)	Dr. Hiru Purushothaman Hirudayanathan	Mechanical Engineering
4	Internet of Things Enabled Smart Solar Photo Voltaic Module and Control Method Thereof	Madhu G M, Chintamani Vyjayanthi, Chirag	EEE and CSE

		Modi	
5	Portable Electric Vehicle to Electric Vehicle Charging System and its Control Method	Madhu G M, Nivedita Naik, Anju Mathew, Chintamani Vyjayanthi, Chirag Modi	EEE and CSE
6	Superconducting Permanent Magnetic Motor Inventors: Mr. Nithin Kumar Goona, Dr. P Saidi Reddy, Prof. G. R. C. Reddy, Prof. Rajender Singh Indian Patent: Granting Number: 468162, 2023/Granted	Dr. Saidi Reddy Parne	Applied Sciences
7	Photonic Inverter, Inventor: Mr. I V Anudeep Kumar Reddy, Ms. Chinmayee Dessai Prabhu, Dr. P Saidi Reddy, Prof. G. R. C. Reddy Indian Patent: 4584/MUM/2015 -2015/Published	Dr. Saidi Reddy Parne	Applied Sciences
8	A Method and System for Sensing Pressure using FBG Sensor and Liquid Pressure Sensor Inventors: V V S Ch Swamy, Saidi Reddy Parne, Vijeesh V P, Suman Gandhi, Damodar Reddy Edla Linga Reddy C Application no.: 202121037735 Published Date: 24 February 2023	Dr. Saidi Reddy Parne	Applied Sciences
9	.Mubarak M. Amol D. Rahulkar, T. Veerakumar, Lokesh Brahmane, "Power Efficient Approximate 4:2 Compressor Using CMOS Circuit", Indian patent, Application no.202421005060 A, published date: 23/02/2024. (Published)	Dr. Amol Rahulkar	EEE

Projects

Sr. No.	Projects	Faculty Member	Department
1.	UG Project	Dr. Santhi B	MCE
2.	"Analyzing the Impact of the 'Start-up India' Policy: An Empirical study on major startup hubs of India" Funded by ICSSR on 27-09-2023.	Dr Sunil Kumar A	HSS
3.	Rs. 36,21,332/- Funded by SERB, DST Govt. of India	Dr. Suresh Mikkili	EEE
4.	Rs. 9,99,995/- Funded by NIT Goa respectively	Dr. Suresh Mikkili	EEE
5.	Thermoconvective instabilities in a bidispersive porous	Dr. Ravi Ragoju	APS

	layer: Linear and Non-linear stability analyses, SERB-CRG, Accepted-Ongoing		
6.	Sponsored research project titled “Installation of a Single phase PV rooftop system with a capacity of under 1kW at Goa Energy Development Agency” funded by Goa Energy Development Agency (GEDA), is sanctioned in September 2023 and the project started at 28-03-2024.	Dr. Sree Raj E. S	EEE
7.	Consultancy Project C. “Exploration of Future Energy Applications and Future Energy Trends” M/s Siemens Goa Ltd. Worth 2 Lakhs	Dr. Vyjayanthi Dr. Amol Rahulkar and Dr. Chirag Modi	EEE
8.	Development of Nature and Bio-inspired Metamaterials for Stealth Technology Applications, SERB-DST, Fund amount: 35.52 lakhs, Start Date: 15th March 2024 and end date: 14th March 2027	Dr. Saidi Reddy Parne	Applied Science
9.	Wind Energy Harvesting from Vortex Induced Vibration of Multiple Cylinders using Novel Multiple Piezoelectric Strips Arrangement, Science and Engineering Research Board (SERB), DST, India (SRG/2021/000778)	Dr. Prasenjit Dey	MCE
10.	Project Sanctioned: Received project from MeitY, Govt of India entitled “Design and Development of FPGA accelerator IP for Depp Neural Network” dated on 23/05/2023.	Dr. Amol Rahulkar	EEE

Students' Achievements:

- Aryan Shrivastav, Zubin Shah, Omkar Borker, and Aman Kushwaha, students of IV year B.Tech. CSE, won the first prize at HackAI 2023, an AI-based hackathon, organized as a part of Techfest' 23, IIT Bombay, on 27 December, 2023.
- Aman Kushwaha, Sumit, and Varun Pandiya, students of final year B. Tech. CSE won the first prize at the National level hackathon (24 hour) organized by MNIT Jaipur.
- Zubin Shah (IV year B.Tech. CSE), Rahul Jalan (IV year B.Tech. EEE), and Ann Mariya Roy (IV year B.Tech. CSE) won the first position in the 24 hour hackathon of InfoFest 2023, organized by Goa University, during 10-11 August 2023.
- Shruti Patil, Vaibhav Yadav and Gunaditya Patil have won the second prize in Inspiration, a 24-hour hackathon organized by Don Bosco College of Engineering, Goa, during 6-7 October, 2023.



- Pranav Tikone, Numan Maldar, Shivansh Pandey, and Hamees Muhammad, students of II year B.Tech. CSE, were shortlisted to the finals of Nexus 2023, a 36-hour hackathon organized as part of iConclave' 23, at IIIT Pune, during 26-28 October 2023.
- UV Rohith, Fardeen Hasan, Shaivi Chanekar, and Kaushik Bhat, final year students of Civil Engineering Department have secured admission to Early Ph.D and M.Tech programs at IIT Gandhinagar
- Ms. Konjeti Manju Sree, Final Year M.Tech (CSE) student, clinches the "PG Top-Up Fellowship Grant" from IISc Bangalore's Skilling Program 2023@ARTPARK for her innovative project on "Early Detection of Parkinson's Disease using Deep Convolutional Neural Network Models and Bio-Inspired Optimization" under the guidance of Dr. Damodar Reddy Edla, Associate Professor in CSE Department.
- Final Year B.Tech (CSE) students, Pritika Barshilia & Suyash Mirchandani, bagged the "Goa State Innovation Council Grant" for their innovative project on "Modelling and Simulation of Brain-Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy Logic." Under the guidance of Dr. Damodar Reddy Edla.
- State Level Elocution Competition organised by Goa Shipyard on 18/10/2023, wherein Ms. Mehek Bhandari of Electrical Department has won 3rd Prize in Hindi category.
- Ms Nivedita Kasyap, Mr. Jayendra Pal, and Mr Roshan Kumar Singh, won the second position in the inter-collegiate competition "MAECOFIN" held in BITS Pilani Goa Campus on 06-11-2023.
- Following two teams of students have won the first position in Smart India Hackathon 2023 in the selected topics

A) Team Alchemist

Deepak S (Team Leader): IV year B.Tech. ECE

Manobhav Sachan: IV year B.Tech. ECE

Ambesh Gaunker: IV year B.Tech. ECE

Aman Kushwaha: IV year B.Tech. CSE

Ann Mariya Roy: IV year B.Tech. CSE

Darshan Bilana: IV year B.Tech. EEE

B) Team Name: index.tsx

Abhiraj Verma (Team Leader): IV year B.Tech. ECE

Aman Tiwari: IV year B.Tech. ECE

Piyush Singh: IV year B.Tech. EEE

Vijay Gautam: IV year B.Tech. EEE

Karan Barai: IV year B.Tech. CSE

- In the recent GATE 2023 results, four B.Tech students (CSE batch 2019-2023) excelled. Ketul Patel secured an impressive AIR rank of 90. Alumnus Akash Srivastava achieved AIR-01 in Instrumentation Engineering and AIR 78 in Electrical Engineering. Further he secured AIR 09th Rank in IES-2023. Six ECE students, seven from Mechanical Engineering, and eleven from Civil Engineering qualifying in GATE 2023.
- In academic pursuits, Mr. Omkar Khadtare from Mechanical Engineering secured admission to the University of Birmingham in 2023.
- Aditya Laddad, a B.Tech CSE graduate (2019-2023), with a remarkable CAT 2022 score of 99.35 percentile, has been selected for the MBA program at IIT Bombay (2023-2025).
- Ayush Naique has been chosen for the MS Computer Science program at New York University, and Ms. Valaboju Sreevidya secured admission to the University of Alabama's Civil Engineering Master's Program.
- Mandar Patadewas listed among top 1.5% coders globally on LeetCode.
- Mandar Patade, Aniruddh Lawande and Kaivalya Gauns have secured All India Ranks 31 and 35 in ICPC AsiaAmritapuri Regional and Kanpur-Mathura Preliminary Contests respectively.
- Ms. Pritika Barshilia was awarded the DAAD-WISE (the German Academic Exchange Service) scholarship for a research internship at the Ludwig Maximilian University (LMU) of Munich, for a duration of 70 days.
- Zubin Shah, a fourth-year B.Tech student, achieved remarkable success in coding and hackathons. He secured the 2nd Prize at IIT Goa's HackTheGames Hackathon, earned a LeetCode KnightBadge with a peak rating of 2003, and clinched 1st Prizes in the Codeit To WinIt competition (ETC Dept, GEC Goa), Arena DeCodigo Coding Competition (Technix, CS Dept, GEC Goa), and Code Cosmos Coding Competition (TechUrja, AITD, Mapusa). Additionally, he achieved the 2nd Prize at Code Ops (Techfluence, IT Dept, GEC Goa). Zubin's achievements stand as a testament to his dedication and talent in the field.
- In Coding, four 3rd-year ECE students – Manobhav Sachan, Deepak S, Ambesh Gaunker, and Sahil Reddy – have proven themselves at the "Solve India" regional hackathon by GeeksforGeeks on May 27-28, 2023, at Pimpri Chinchwad College of Engineering, Pune
- Mr. Kaushik Bhat, and Mr Sharul Kukolkar, have secured First Position in the Xventure – Warrior Dash, which was held as part of Revels'23- The National Sports and Cultural Fest organized by Manipal Institute of Technology, Manipal in March 2023.

- Mr. Milind Gauns has secured First prize in the Inter-Collegiate Chess Event in Goa State, organized by Plexus 2023 Chess Event.
- The students of NIT Goa have actively participated in the Smart India Hackathon and won the KPIT Innovation Award (Fifth prize-Cash prize Rs. 10,000) in the finals of the Smart India Hackathon.
- Atharva Khade and Harsh Patel have received 2nd Best Paper Award in Security and Privacy Track from IEEE International Conference on Blockchain and Distributed Systems Security, organized at IIIT Raipur during 6-8 October 2023.

FACULTY ACHIEVEMENTS:

Name	Department	Achievements
Dr. Harikumar	CVE	<ol style="list-style-type: none"> 1. Organized a 5 day STTP on Sustainable Future on Water Resources and Climate Challenges, sponsored by the Department of Science and Technology & Waste Management, Govt. of Goa, during 12th –16th March 2024. 2. Attended the BIS meeting for CED57 - Cyclone Resistant Structures Sectional Committee, for discussion on formulation of the necessary Indian standard codes related to Cyclone-related structures and CED 39- Earthquake Engineering Sectional Committee. 3. Granted German patent on Quantitative Estimation of the Impact of Climate Change on Crop Evapotranspiration and Yield in the Central Region of India, (No.202022107269), with Ankit Balvanshi and Hari lal Tiwari. 4. Journal publication: Saurabh Shivhare, Harikumar Mohanan, A review on subgrade soil stabilization using bio enzymes, Arabian Journal of Geosciences, 2023, Vol.16 (3). 5. Journal Publications: Tanvesh Dabholkar, Harikumar M, Post curing optimization for tensile strength of hybrid ramie-carbon fiber reinforced polymer, Polymers and Polymer Composites, 2024, 32.
Dr. Ankit Balvanshi	CVE	<ol style="list-style-type: none"> 1. Granted German patent on Quantitative Estimation of the Impact of Climate Change on Crop Evapotranspiration and Yield in the Central Region of India, (No.202022107269), with Ankit Balvanshi and Hari lal Tiwari. 2. Book Chapter published: Balvanshi, A., & Tiwari, H.L. (2023), “Climate Change Impact on Future Reference Evapotranspiration and Crop Evapotranspiration for Maize in Sehore District of Madhya Pradesh”, Climate Change Impact on Water Resources, Lecture Notes in Civil Engineering, Springer Nature, DOI: 10.1007/978-981-19-8524-9. 3. Served as Coordinator of 5 days STTP Sustainable Future on

		<p>Water Resources and Climate Challenges organized by Dept. of Civil Engg, NIT Goa sponsored by DST W&M Goa, during 12th – 16th March 2024.</p> <p>4. Technical Session chaired in the International Water Conference for Sustainable Development Goals (IWCSGDG 2024) organized by Department of Civil Engineering, MANIT Bhopal during 22nd – 23rd March, 2024.</p> <p>5. Expert Lecture delivered in 5 days STTP Sustainable Future on Water Resources and Climate Challenges organized by Dept. of Civil Engg, NIT Goa during 12th – 16th March 2024.</p> <p>6. Keynote Speech delivered in the International Water Conference for Sustainable Development Goals (IWCSGDG 2024) organized by Department of Civil Engineering, MANIT Bhopal during 22nd – 23rd March, 2024.</p>
Dr. Suryateja Pottipati	CVE	<p>1. Journal Publication: Venkatesh Reddy, C., Kumar, R., Chakraborty, P., Karmakar, B., Pottipati, S., Kundu, A., Jeon, B.H., 2024. A critical science mapping approach on removal mechanism and pathways of per- and poly-fluoroalkyl substances (PFAS) in water and wastewater: A comprehensive review, Chemical Engineering Journal 492, 152272.</p> <p>2. Journal publication: Saikia, S., Maturi, K.C., Prit, H., Pottipati, S., Kalamdhad, A.S., 2024. Application of municipal solid waste (MSW) char during rotary drum co-composting (RDC) of vegetable waste and its characterization. Environmental Science and Pollution Research.</p>
Dr. B Santhi	Mechanical Engineering	<p>1. Visited IIT Mumbai to attend Makersspace Conclave 2024, IIT Mumbai between 1-2 July 2024.</p> <p>2. Attended STTP program on six sigma for improved quality management at Don Bosco College of Engineering, Margao between 13-17 May 2024.</p> <p>3. To conduct labs of V sem, students were taken to NIT K from 19 to 23 Nov 2023.</p> <p>4. Visited ONGC, Betul, Goa for exploring opportunities for collaborative work with them, 28 Jun 2024.</p> <p>5. Reviewer of Inspire Manak Award for 2023 -24.</p> <p>6. Reviewed One PhD thesis of Osmania University.</p> <p>7. Reviewed One PhD thesis of Pondichery University</p>
Dr. Prasenjit Dey	Mechanical Engineering	<p>1. Successfully completed DST Sponsored Project of 28.09 lac under the Start-up Research Grant (SRG/2021/000778), Science and Engineering Research Board (SERB), India.</p> <p>2. Published one single authored SCI paper, Prasenjit Dey, “A Novel Arrangement of Multiple Cylinders of Different Structural Conditions Dictating Wind Energy Harvesting at Very Low Reynolds Number”, Journal of Vibration</p>

		Engineering & Technologies, https://doi.org/10.1007/s42417-024-01408-x .
		3. Reviewed One PhD thesis of Gujrat Technical University
Dr. Pravin Anandrao Pawar	Mechanical Engineering	<ol style="list-style-type: none"> 1. Pravin Pawar, Amaresh Kumar, Raj Ballav, A Systematic Review of the Rotary Piercing Process, In; Analysis and Optimization of Sheet Metal Forming Processes. CRC Press, Taylor and Francis Group, pp. 21-38, 13 June 2024, doi:- https://doi.org/10.1201/9781003441755, ISBN:- 9781003441755. 2. Pravin Pawar, Amaresh Kumar, Raj Ballav, The Developments and Retrospect of Water-Laser Machining Technology, In: Laser-Assisted Machining: Processes and Applications, 02 May 2024, Scrivener Publishing LLC, Wiley, doi:- https://doi.org/10.1002/9781394214655.ch11 , ISBN:9781394214655
Dr Amol D Rahulkar	EEE	<ol style="list-style-type: none"> 1. Project Sanctioned: Received project from MeitY, Govt of India entitled "Design and Development of FPGA accelerator IP for Depp Neural Network" dated on 23/05/2023. 2. K. Samantaray, P. J. Edavoor and A. D. Rahulkar, "A Novel Design Approach and VLSI Architecture of Rationalized Bi-Orthogonal Wavelet Filter Banks," in IEEE Transactions on Very Large Scale Integration (VLSI) Systems, vol. 32, no. 4, pp. 619-632, April 2024, doi: 10.1109/TVLSI.2023.3342122 (IF-2.8) 3. Pranose Edavoor, Aswinikumar Samantaray and Amol D Rahulkar, "Design of floating point multiplier using approximate hybrid Radix-4/ Radix-8 booth encoder for image analysis", e-Prime - Advances in Electrical Engineering, Electronics and Energy, Elsevier, Vol. 8, April 2024. <p style="text-align: center;">Conferences paper Publihsed</p> <ol style="list-style-type: none"> 4. Priyanka K. Padiyar and Amol D. Rahulkar, "Design of Adaptive Gabor Filter Bank for Feature Extraction of MRI Images and Classification using Support Vector Machine," 2023 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, India, 2023, pp. 1-5, doi: 10.1109/CONECCT57959.2023.10234741. SEPT 2023 5. Mubarak M. Amol D. Rahulkar, T. Veerakumar, Lokesh Brahmane, "Power Efficient Approximate 4:2 Compressor Using CMOS Circuit", Indian patent, Application no.202421005060 A, published date: 23/02/2024. (Published) 6. Aswini. K. Samantaray and Amol D. Rahulkar, "Feature Extraction in Medical Image Retrieval: A New Design of Wavelet Filter Banks", 1st edition, Springer Nature, May 2024., ISBN No. 978-3-031-57279-1

Dr Suresh Mikkili	EEE	<ol style="list-style-type: none"> 1. SERB-DST, &quot;Development of Metaheuristic Algorithms based Maximum Power Point Tracking Controllers for various Grid-Connected/Stand-Alone PV System to Enhance the Maximum Power Generation Capability&quot;;, Feb 2022 -Feb 2025, Scheme:Empowerment And Equity Opportunities For Excellence In Science; Sanctioned Amount : 36,21,332. 2. Seed Grant, “Design and Implementation of Solar PV Battery Integrated System for Enhancing the Efficiency under Partial Shading Effects for an Isolated Solar PV Applications” started in Jan 2019. Sanctioned Amount : Rs. 9,99,995/- INR. 3. Pritesh Anil Metha and Suresh Mikkili &quot;A Low-Cost, Real-Time Current Sensing Full-Bridge MOSFET Topology for Efficient Operation with Resistive/Inductive Loads&quot;; IEEE Journal of Emerging and Selected Topics in Industrial Electronics, (DOI: 10.1109/JESTIE.2024.3447744) Accepted, 2024. 4. Chavan Vinaya C, Suresh Mikkili and Gaurav Kumar, “Enhancement of PV Array Performance Through Reconfiguration with P&O MPPT for Shading Resilience”, International Journal of Ambient Energy- Taylor & Francis – Accepted, 2024. Santhosh Y, Suresh Mikkili, and Praveen Kumar B, “A novel reduced cross link-based PV array interconnection schemes for enhancing maximum power under dynamically varying irradiance conditions”, Transactions of the Indian National Academy of Engineering– Springer, Accepted, May – 2024. 5. Aditi Atul Desai, Suresh Mikkili and Kavitha N, “Hardware Implementation of Improved Transformer-less Grid-Connected PV Inverter Topologies with Constant Common Mode Voltage and Enhanced Efficiency”, Electrical Engineering – Springer, Accepted, May – 2024. 6. Gaurav Kumar and Suresh Mikkili, “Advancements in EV international standards: Charging, safety and grid integration with challenges and impacts”, International Journal of Green Energy- Taylor & Francis - Accepted - (SCI-E Journal), March 2024. 7. Chavan Vinaya C and Suresh Mikkili, “Hardware Implementation of Sensor-less Matrix Shifting Reconfiguration Method to Extract Maximum Power Under Various Shading Conditions”, IEEE CPSS Transactions on Power Electronics and Applications, vol. 8, no. 4, pp. 384-396, December 2023, doi. 10.24295/CPSSTPEA.2023.00038. 8. Gaurav Kumar and Suresh Mikkili, “Critical Review of Vehicle-to-Everything (V2X) Topologies: Communication, Power Flow Characteristics, Challenges, and Opportunities”,
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		<p>IEEE CPSS Transactions on Power Electronics and Applications, Accepted, Sept. 2023.</p> <p>9. Srinivasan V, Sridhar R., Suresh Mikkili, et al. "Hybrid Social Grouping Algorithm-Perturb and Observe Power Tracking Scheme for Partially Shaded Photovoltaic Array", International Journal of Energy Research - WILEY, vol. 2023, Article ID 9905979, 18 pages, Sept. 2023 https://doi.org/10.1155/2023/9905979.</p> <p>10. Chavan Vinaya C and Suresh Mikkili, "Hardware Implementation of Proposed and Conventional PV Array Reconfiguration Techniques (SK, OSK, MS, ZZ, SS, NSD, and MMS) to Extract Maximum Power under Various Shading Conditions", International Journal of Circuit Theory and Applications – Wiley, 2023.</p> <p>11. Gaurav Kumar, Suresh Mikkili, "Performance Analysis of Grid-Integrated: V2G, G2V, EV and PV Systems for Power Flow Optimization", IEEE 3 rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10430734.</p> <p>12. Praveen Kumar B, Suresh Mikkili, "Grey Wolf Optimization Assisted MPPT technique for Total-Cross-Tied PV Array Configuration to Track GMPP under Shading conditions", IEEE 3 rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI:10.1109/STPEC59253.2023.10430660.</p> <p>13. Aditi Atul Desai, Suresh Mikkili, "Hardware Implementation of H5 and Novel H6 Transformer-Less Inverter Topologies for Grid Connected Photovoltaic System to Eliminate Leakage Current using OPAL-RT", IEEE 3 rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), DoI: 10.1109/STPEC59253.2023.10430825.</p> <p>14. Santhosh Yedla; Suresh Mikkili; Praveen Kumar B, "PV Array Interconnection Schemes for Extracting Maximum Power under Dynamically Varying Irradiance Conditions", IEEE 3 rd International Conference on Smart Technologies for Power Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10430785.</p> <p>15. Abhilash Sakhare, Suresh Mikkili, "A Novel Non-Isolated High Gain Bidirectional DC- DC Converter for Photovoltaics to Extract the Maximum Power", IEEE 3 rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), 10-13 December 2023, DoI: 10.1109/STPEC59253.2023.10431076.</p> <p>16. Shivalika Sharma and Suresh Mikkili, "Design of Solar Powered Charging Station for Electric Vehicle Applications</p>
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		<p>with MPPT Optimization,&quot; 2023 11 th National Power Electronics Conference (NPEC), IIT Guwahati, India, 14-16 December 2023, pp. 1-6, doi: 10.1109/NPEC57805.2023.10384993.</p> <p>17. K. Dileep and Suresh Mikkili, &quot;A Noval One Time Diagonal Sudoku PV Reconfiguration Technique To Soother The Effect Of Partial Shading Conditions,&quot; 2023 11 th National Power Electronics Conference (NPEC), IIT Guwahati, India, 14-16 December 2023, pp. 1-6, doi: 10.1109/NPEC57805.2023.10384981.</p> <p>18. P. K. Bonthagorla and Suresh Mikkili, &quot;A Triple-Tied PV Array scheme with Grey Wolf Optimization based MPPT Approach for Maximum Power Harvesting Under Partial Shading,&quot; IECON 2023- 49 th Annual Conference of the IEEE Industrial Electronics Society, Singapore, 16-19 October 2023, pp. 1-6, doi:10.1109/IECON51785.2023.10311850.</p> <p>19. Indian Patent Entitled &quot; MOSFET Based Real-Time Current Sensing Device&quot; has been granted to Dr. Suresh Mikkili and Mr. Pritesh Anil Metha. Indian Patent Entitled &quot; Smart Street Light&quot; has been granted to Dr. Suresh Mikkili and Mr. Abhinav Bhattacharjee.</p> <p>20. Book Published: Authored Suresh Mikkili, "Power Systems-I", text book for third year AICTE students.</p>
Dr. Damodar Reddy Edla	CSE	<p>Dr. Damodar Reddy is recognized as among the world's top 2% most influential scientists for the year, according to a Stanford University study. Dr. Damodar Reddy Edla and his Ph.D. scholar Mr. Akhilesh Kumar Singh were granted a patent for an adjustable solar-powered portable charger, and with another scholar, Mr. Deepak DM, a patent for an AI-powered medicine storage cabinet. Moreover, he also earned The Outstanding Associate Editor-2023 Award from IEEE Transactions on Instrumentation and Measurement and has been elected as an ACM India Eminent Speaker.</p>
Dr.Venkatnareshbabu Kuppili	CSE	<p>Dr. Venkatnareshbabu Kuppili is recognized as among the world's top 2% most influential scientists for the year, according to a Stanford University study. Additionally, he published a notable paper titled "<i>An embedded feature selection method based on generalized classifier neural network for cancer classification</i>" in Computers in Biology and Medicine, an SCI Journal with an impact factor of 7.0.</p>
Dr. Pravati Swain	CSE	<p>Dr. Pravati Swain was selected for the Short Research Trip to France (SRTF) 2023 program.</p>

Dr. Chirag Modi	CSE	Dr. Chirag Modi is recognized as among the world's top 2% most influential scientists for the year, according to a Stanford University study. Dr. Chirag Modi with Dr. C. Vyjayanthi (Dept. of EEE), and Dr. Amol Rahulkar (Dept. of EEE) secured a consultancy project from Siemens Ltd. Goa. In addition, Dr. Chirag Modi and Dr. C. Vyjayanthi (Dept. of EEE) received an Indian Patent for an IoT-enabled smart solar photovoltaic module, and with their students, another patent for a portable electric vehicle charging system. And moreover, Dr. Chirag Modi and Dr. C. Vyjayanthi (Dept. of EEE) received Rs. 9.96 Lakhs to conduct a GIAN course on "Blockchain Evolution and its Applications".
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8.0 OUTREACH CELL ACTIVITIES

SWACHH BHARAT ABHIYAN (SBA) ACTIVITIES AT NIT GOA (March 2024-June 2024)

NIT Goa is actively participating in Swachha Bharat Abhiyaan (SBA) activities since its inception. The Institute has organized the following activities.

- **Swachhata Hi Seva" Campaign- April 2024.** The Institute is conducted a cleanliness drive on 25th April 2024 (Thursday) at 4.15 pm. Around 100 students, Faculty and staff members were participated.



- NIT Goa organized cleanliness drive on 21st March, 2024, as part of the "Swachhata Hi Seva" Campaign. Our team of 60, including students, faculty, and staff, worked tirelessly to spruce up our campus, tackling roadsides and green areas. Together, we're shaping a cleaner, greener tomorrow!



राष्ट्रीय प्रौद्योगिकी संस्थान गोवा
National Institute of Technology Goa

BLOOD DONATION CAMP

National Institute of Technology Goa In collaboration with Goa Medical College (GMC) Organized a Blood Donation Camp on April 26th, 2024 from 9.30 am to 1.30 pm at Gyan Mandir. Over 100 students and employees actively participated, showcasing our commitment to saving lives. Prof. O R Jaiswal, Honorable Director, NIT Goa inaugurated the Blood Donation camp and addressed the gathering. Dr. Beneditas, Medical officer of Bali Primary Health Center (PHC), Dr. Clare, Dr. Murali and 12 members of their GMC colleagues organized the camp successfully. NIT Goa Medical Officer, Nurses and staff members were part of this unique program execution. NIT Goa SPIE Student Chapter student members volunteered for the event



**A Workshop on “Experimental Science & Basic Mathematics”
Perpetual Succour Convent High School Navelim, Goa
on 3rd May 2024**

The National Institute of Technology Goa (NIT) Goa organized A Workshop on “Experimental Science & Basic Mathematics ” at the **Department of Applied Science, NIT Goa** for Class IX students of Perpetual Succour Convent High School Navelim, Goa, on 3rd May 2024. A total of 40 students and three teachers have participated.

Dr. Saidi Reddy Parne provided a detailed overview of the diverse programs offered at NIT Goa. Interactive sessions were organised, featuring faculty members and students sharing their experiences and insights into the diverse engineering disciplines offered by the institute. The students engaged in discussions and explored potential career paths in engineering.

Three sessions were conducted including, Experimental Physics, Experimental Chemistry and Mathematics. Students have experienced hands-on experience in Physics and Chemistry laboratories.



**A Workshop on “Experimental Science & Basic Mathematics”
PM SHRI Govt. School, Gaval Khol, Canacona, Goa
on 18th April 2024**

The National Institute of Technology Goa (NIT) Goa organized A Workshop on “Experimental Science & Basic Mathematics ” at the **Department of Applied Science, NIT Goa** for Class IX students of PM SHRI Govt. School, Gaval Khol, Canacona, Goa, on 18th April 2024. A total of 30 students and four teachers have participated.

Honourable Director, NIT Goa Prof. O R Jaiswal addressed the students gathering and motivated them with his nice real-time examples and application. Prof. Shashidhar Kudari, Registrar and Dr. Saidi Reddy Parne participated.

Dr. Saidi Reddy Parne provided a detailed overview of the diverse programs offered at NIT Goa. Interactive sessions were organised, featuring faculty members and students sharing their experiences and insights into the diverse engineering disciplines offered by the institute. The students engaged in discussions and explored potential career paths in engineering. Three sessions were conducted including, Experimental Physics, Experimental Chemistry and Mathematics. Students have experienced hands-on experience in Physics and Chemistry laboratories. A delicious lunch was provided after the sessions.



A Workshop on “Experimental Physics”
New English High School, Digas Panchawadi,
on 27th March 2024

The National Institute of Technology Goa (NIT) Goa organized A Workshop on “Experimental Physics” at the **Physics Laboratory, Department of Applied Science, NIT Goa** for Class IX students of New English High School, Digas Panchawadi, Goa, on 27th March 2024. A total of 30 students and four teachers have participated.

Honourable Director, NIT Goa Prof. O R Jaiswal addressed the students gathering and motivated them with his nice real-time examples and application. Prof. Shashidhar Kudari, Registrar and Dr. Saidi Reddy Parne participated.

Dr. Saidi Reddy Parne, Associate Professor of Physics delivered a lecture on Experimental Physics and SPIE Student Chapter Student members demonstrated various Physics experiments.



**A Workshop on “Experimental Science”
Maria Bambina Convent High School, Cuncolim, Goa
on 6th March 2024**

Maria Bambina Convent High School, Cuncolim, Goa, X Standard Students (100) and faculty members (5) visited the NIT Goa campus on 6th March 2024. Prof. O R Jaiswal, Director, NIT Goa encouraged students to maintain curiosity, nurture hobbies and strive for independence and urged early training for students.

Our Faculty Member Dr. Saidi Reddy Parne, Associate Professor of Physics shared insights on Experimental Physics and Physics Research Scholars showcased physics experiments. Dr. Amit Pandey, a Postdoc student delivered a lecture on Chemistry Subjects and showed Chemistry Laboratory experiments. Students have enjoyed both sessions. Refreshments are arranged at the end of the sessions.



Students & Faculties of Maria Bambina Convent High School, Cuncolim, Goa visited NIT Goa Campus. Honorable Director, Prof. O R Jaiswal addressed the students gathering



Govt. of Goa PM SHRI School Morpirla, Students Visit on 21st February 2024

PM SHRI Govt. School, Morpirla, Cuncolim, Goa, X Standard Students (30) and faculty members (5) visited our NIT Goa campus on 21st February 2024. Honourable Director, NIT Goa, Prof. O R Jaiswal addressed the students gathering. Our Faculty Members taught Physics, Chemistry, Mathematics and Professional Communication subjects and showed Physics & Chemistry Laboratories.

Dr. Saidi Reddy Parne provided a detailed overview of the diverse programs offered at NIT Goa. Interactive sessions were organised, featuring faculty members and students sharing their experiences and insights into the diverse engineering disciplines offered by the institute. The students engaged in discussions and explored potential career paths in engineering.

Prof. O R Jaiswal, Director, NIT Goa encouraged students to maintain curiosity, nurture hobbies and strive for independence and urged early training for students. Four sessions were conducted including, Experimental Physics, Experimental Chemistry, Mathematics and Professional Communications. Students have experienced hands-on experience in Physics and Chemistry laboratories. A delicious lunch was provided after the sessions.





The Navhind Times

PM Shri Govt. HS Morpirla students visit NIT Goa

NT KURIOCITY

Students from PM Shri Government High School Morpirla, visited the National Institute of Technology (NIT) at Cuncolim. The tour aimed to provide a comprehensive understanding of campus life and infrastructure at NIT Goa.

Associate professor of physics in the Department of Applied Sciences, Saidi Reddy Parne provided a detailed overview of the diverse programmes offered at the institution and conducted a guided tour, showcasing the academic buildings, laboratories, library, and other facilities.

Interactive sessions were organised, featuring faculty members and students sharing their experiences and insights into the diverse engineering disciplines offered by the institute. The students engaged in discussions and explored potential career paths in engineering.

The day's first session focused on experimental physics, conducted by Dr. Parne. The topic, 'Introduction to Light' explored the five main properties of light: reflection, refraction, diffraction, interference, and polarisation. He also explained key terms such as wavelength, frequency, amplitude, and the electromagnetic spectrum.

The following session on experimental chemistry, was led by Dr. Velavan Kathirvelu. She demonstrated the titration technique for determining chloride ion concentration in a water sample using silver nitrate as the titrant. Dr. Kathirvelu also explained the use of potassium chromate indicator solution and the associated equipment like burette, conical flask, and pipette. The session also covered an experiment using the Abbe Refractometer to find the refractive index of water.

The session on basic mathematics conducted by Dr. Ravi Rogoju introduced the concept of special factorisation using Pascal's triangle and explained the difference in squares of numbers to simplify mathematical formulas and calculations.

The concluding session led by Dr. Sarani Mondal, focused on soft skills and their significance in daily life. Dr. Mondal explained terms like IQ (Intelligence Quotient) and EQ (Emotional Quotient) to provide students with a holistic understanding of essential skills.

Post the sessions, the students interacted with the director of NIT, professor O. R. Jaiswal. He encouraged students to maintain curiosity, nurture hobbies, and strive for independence, and urged early training for students.

**A Workshop on “Experimental Science: Light and its Applications”
Cuncolim United Higher Secondary School
On 21st December 2023**

The National Institute of Technology Goa (NIT) Goa organized A Workshop on “Experimental Science: Light and its Applications” at Cuncolim United Higher Secondary School for Class XI & XII students at Cuncolim, Goa, on 21st December 2023. A total of around 200 students have participated.

The theme of the Workshop is “Light and its applications”. The sole purpose of this event was to create awareness among students and motivate them towards science and Technology.

Honourable Director, NIT Goa Prof. O R Jaiswal inaugurated the workshop and addressed the students gathering. Prof. Shashidhar Kudari, Registrar, Dr. Saidi Reddy Parne, Mr. Dessai, Chairperson and Mrs. Yvette Caiero, Principal from the school participated.

Dr. Saidi Reddy Parne, Associate Professor delivered a motivational lecture on Light and Its Applications, Physics Research Scholars and SPIE NIT Goa Student chapter students conducted the experimental session.



Social Media public Links:

1. Facebook: <https://www.facebook.com/nitgoa/>
2. X: https://twitter.com/NITGoa_Official
3. Instagram: <https://www.instagram.com/nitgoa/>
4. LinkedIn: <https://www.linkedin.com/school/nitgoa/>
5. NIT Goa_Outreach Activites: https://www.nitgoa.ac.in/outreach_activities.html

A Workshop on “Introduction to Light”
Damodar Higher Secondary School, Margao, Goa
on 9th September 2023

SPIE student chapter, NIT Goa organized a Workshop at Damodar Higher Secondary School for 11th and 12th Class students at Margao, Goa, on 09th September 2023. The theme of the Workshop was “Introduction to Light”. The sole purpose of this event was to create awareness among students and motivate them about light. The event started with a short speech by the President of the SPIE student chapter, Mr. Maaz Ali, who introduced NIT Goa, the SPIE student chapter, and our Faculty Advisor, Dr. Saidi Reddy Parne.

Following a brief introduction, Dr. Saidi Reddy Parne, Associate Professor of Physics, educated the pupils about light's characteristics, its waves, and its dual nature. Later, Mr. Saran Panda, a Physics research scholar, conducted a session on light in which he discussed the properties of light, lasers, and light diffraction. Students participated enthusiastically in the workshop. The teachers were present at the demonstration in addition to the pupils.

The event was successfully organized by SPIE members, Maaz Ali Mattehali, Darren Costa, Vishal Pratap, Saksham Thakur (B.Tech), Mr. Saran Panda (Ph.D. Scholar and SPIE Member), and Ms. Priyanka Parab (Physics Lab Assistant)



**A Workshop on “Introduction to Light”
Mustifund High School in Panaji, Goa
on 2nd September 2023**

SPIE student chapter, NIT Goa organized a Workshop on “Light and Its Applications” for Class X students at Mustifund High School in Panaji, Goa. The theme of the Workshop was “Introduction to Light”. The sole purpose of this event was to create awareness among students and motivate them about light. The event started with a short speech by the President of the SPIE student chapter, Mr. Maaz Ali, who introduced NIT Goa, the SPIE student chapter, and our Faculty Advisor, Dr. Saidi Reddy Parne.

This event aims to inspire and raise awareness among students regarding light. Class X students participated in the workshop and the quiz Competition. In order to address their doubts later, they were advised to write them on Light. Certain students have inquired about the nature of light, redshift, and the Chompton Effect, conversely, some test subjects were more engaged in the experiments. There were around sixty participants in the event. It was undoubtedly a successful event, and everyone present was able to clearly express their interest.



Rashtriya Avishkar Abhiyam (RAA) ACTIVITIES AT NIT GOA (Academic year 2023-2024)

The Department of School Education and Literacy, Ministry of Human Resource Development (MHRD), Govt. of India, had introduced a novel programme: Rashtriya Avishkar Abhiyan (RAA), through an Order (File No. 20-5/2014/EE.17, dated 28th May, 2015) with a view to ‘...provide nourishing and nurturing support to and a platform for schools in a dual track approach to make Science, Mathematics and Technology (SMT) exciting to children and encourage them to have an enduring interest in both inside classroom and outside classroom activities.

Highlights of the programmes of the academic year 2023-24:

1. Basic training programs on Optic and LASER:

We have organized a training programme for the college students in various parts of Goa as well as the neighbouring states of Karnataka, Kerala, and Maharashtra to show them various optics experiments. Initially, Dr. Saidi Reddy Parne, Associate Professor of Physics, explained the fundamentals of optics and photonics, the photoelectric effect, the dual nature of light etc. Further, Mr. Saran panda (President of the SPIE student chapter, NIT Goa) and other NIT Goa students helped them to understand the basic experiments.

An effort has been made to bring like-minded optics and photonics enthusiasts together and give a platform to interact and exchange ideas. The session witnessed the active participation of more than 40 undergraduate students. Mr. Saran Panda and the other SPIE members took the lead for the session.

2. Introduction of Research Equipment to the Graduate Students of Goa Kerala and Karnataka state:

An initiative has been made for the young graduates to motivate them in order to pursue their Master's in M.Sc. photonics and Optics, M.Sc. tech in applied physics and explaining the various careers perspectives and research areas of optics, Optical fibres and Fiber optic sensors. Our NIT Goa SPIE student chapter students have taken the lead in this programme. Students explained about Fiber optics and Fiber Bragg Sensors for various applications. All Splicing methods hands-on experience also done with the students. NIT Goa Ph.D. Students explained about their area of research in the Fiber Bragg grating sensors and its application for Temperature, pressure, and strain measurement. At the end, a brief introduction of the working principles of AFM and optical properties study of materials using UV-visible has been explained to the students.



Ek Bharat Shreshtha Bharat (EBSB)

Ek Bharat Shreshtha Bharat (EBSB) is a flagship program of the Government of India, designed to enhance interaction and promote mutual understanding between people from different states and Union Territories (UTs) through state/UT pairing. For Goa, the paired state under EBSB is Jharkhand. In alignment with this initiative, NIT Goa has established an EBSB Club, which is currently governed by an elected student council. The club began its operations in 2020 with seven elected members and has since grown, now boasting a council of 13 members and an active membership of 200 students.

Under the capable and dynamic leadership of our student council, the EBSB Club organizes a variety of programs and cultural events at NIT Goa. Some of our notable events include:

1. **Navya (2023)** - Celebrated Gudi Padwa and Ugadi, marking the Cultural New Year.
2. **Janmashtami (2023)** - Featured a remarkable Dahi Handi Competition.
3. **Umang (2023)** - Our annual Dandiya-Garba Night, organized to celebrate Navratri.
4. **Diwali (2023)** - Pre-event activities included Lumos (Lantern Making Competition) and Heena Harmony (Mehendi Competition).

Additionally, the EBSB Club had the honour of hosting **Yuva Sangam Phase III**, which facilitated a student exchange between Goa and Chhattisgarh from December 8, 2023, to December 24, 2023.

Vidyanjali

Vidyanjali - Higher Education is an initiative taken by the Ministry of Education, Government of India with the aim to strengthen Support to the Students, Faculties & Institutions of Higher Education by Volunteerism through involvement of community, private & public sector, NGOs, NRIs, PIOs etc. In this regard, Dr. Venkatanaresbhabu K delivered the following three lectures through Vidyanjali - Higher Education, as a voluntary service from NITGoa.

An expert lecture has been delivered on “Soft Computing Techniques” at College of Engineering, KARAD, Satara, Maharastra on 28th Oct, 2023 from 11 AM to 1 PM, Audience are PG students.

An expert lecture has been delivered on “Datastructures” at College of Engineering, KARAD, Satara, Maharastra on 27th Oct, 2023 from 2PM PM to 4 PM, Audience are PG students.

Sports and Cultural Events

The Sports Section of NIT Goa organized an Intra – Departmental Badminton Tournament from 07.03.2023 to 09.03.2023 in the GEC Indoor Badminton court.



The Sports Section of NIT Goa organized an Inter Year Cricket Tournament from 07.04.2023 to 09.04.2023 in ITI Playground. The tournament result is as follows: Winner: M.Tech & Ph.D. Scholars. Runners Up: IV Year B.Tech Students, Man of the series: Mr. Ashok M.Tech, Best Batsman: Mr. Mahesh Ph.D. Scholar and Best Bowler: Mr. Chinnamuthu Ph.D. Scholar.

Report of the International Day of Yoga (IDY) 2023

The 9th International Day of Yoga was befittingly observed on 21/06/2023 at the National Institute of Technology Goa, and it went on as per directions given by the Ministry of AYUSH and the Ministry of Education. The function began with a brief introduction of Yoga Day by Prof. O. R. Jaiswal, The Director of NIT Goa. He elaborated on how yoga helps to maintain harmony between body and mind. Hence, the 21st of June is celebrated as the International Day of Yoga; the theme selected for this year's International Day of Yoga 2023 is **“Yoga for Vasudhaiva Kutumbakam,”** which represents our shared desire for “One Earth, One Family, One Future. He explained the need for yoga and the importance of celebrating Yoga Day among faculty, staff, and students. Further, he mentioned the need for meditation to remain fit and improve concentration. The yoga expert demonstrated various yogic exercises and asanas. The program was highly successful as 128 participants, including faculty, staff, and students, joined with enthusiasm for celebrating the International Day of Yoga. All the participants learned how to practice different asanas properly on a daily basis. The function ended with a vote of thanks. Some photographs of the function are also attached herewith.



Report on 77th Independence Day 2023

NIT Goa witnessed the celebration of the 77th Independence Day on the 15th of August 2023. Students, Staff and Faculty members filled with a feeling of patriotism and dedication gathered in front of the Institute. The celebration started with the hoisting of the National Flag by the Director, Prof. O. R. Jaiswal, followed by the National Anthem.

As part of his address, the director said India is one of the fastest growing nations in the world and with national missions such as "Atmanirbhar Bharat" and "Make in India" is on its trajectory to become a developed nation. In addition, it should be noted that the New Education Policy 2020 aims to develop the next generation of leaders.

Further, he urged, let us all in NIT Goa work towards the goal of our Nation and as the Motto of our G-20 summit says "One Earth, One Family, One Future", though we are culturally and linguistically diverse let us all live together as One Family, with one future to sustain our mother Earth for future generations.

In addition to that, He congratulates faculty members and students for their accomplishments. These were followed by patriotic songs, speeches and poems performed by the students. In the end, the program was concluded by distributing sweets and snacks to all the students.



Orientation Programme on 22nd August 2023

Office of the Dean Students welfare conducts orientation programme to introduce the newly admitted students to life at the Institute and facilitate a smooth transition towards their new beginning at our esteemed organization scheduled on Tuesday, August 22, 2023, during 10 AM to 4 PM at Auditorium, ITI, Farmagudi. Dr. Vivek Kamat, Director of Technical Education, Government of Goa, will be the chief guest of the function.



National Sports Day Celebration 2023



Like every year, National Sports Day was celebrated with solemnity by the sports unit of NIT Goa on 29th August, to commemorate the birth anniversary of the legendary Hockey player and Olympian, Major Dhyan Chand. The Sports, NIT Goa organized “National Sports Day” – Mini Marathon & Volleyball Tournament for NIT Goa Community comprising Students, Research Scholar, Non - Teaching and Teaching staff for both Men and Women. Further, fitness pledges were taken by all the participants.

The tournament commenced on 27th August 2023 at 6.30 am in Volleyball Court with the welcome speech and the importance of National Sports Day by the Hon’ble Director and the inaugural match was played by 3rd year B.Tech Students Vs. 1st year B.Tech Students wherein Dean Students Welfare Dr. Damodar Reddy Edla shook hands with the players and wished them. The final match was played between 2nd year B.Tech Students Vs. 4th year B.Tech students. The prizes were distributed for the winners and runners.

**Rashtriya Ekta Diwas (National Unity Day)
On 31st October, 2023**



NIT Goa observed National Unity Day on October 31st, 2023 to commemorate the birth anniversary of Shri. Sardar Vallabhbhai Patel, popularly known as the Iron Man of India. The National Unity Day initiative was introduced by the Government of India and inaugurated by Prime Minister Shri. Narendra Modi in 2014.

Pledge-Taking Ceremony

All the participants assembled on the institute lawn and made the following pledge: "I solemnly pledge that I will devote myself to preserving our nation's unity, integrity, and security and that I will work hard to spread this message among my fellow countrymen." I take this pledge in the spirit of the unification of my country, which was made possible by the vision and actions of the late Sardar Vallabhbhai Patel. I also solemnly resolve to make my contribution to ensure the internal security of my country".

Unity Runs



In the "run for unity", many students, scholars, non-teaching staff, administrative officers, and teaching staff assembled enthusiastically participated in a short rally marathon around the premise of the campus to evoke the spirit of integrity.

Inter Branch Volleyball Tournament

The sports section conducted an inter-branch volleyball tournament from 03 – 05 November, 2023. The competition's outcome was as follows: Winner: III year B.Tech Students. Runners Up: IV year B.Tech Students.



All India Inter NIT Tournaments - Report

The NIT Goa Kabaddi (Men) teams have participated in the All India Inter NIT Tournament organized by NITK Surathkal from 27th to 29th October 2023.

The NIT Goa Faculty and Staff Cricket (Men) teams have participated in the All India Inter NIT Tournament organized by NIT Trichy from 14 to 17 December 2023.

The NIT Goa Faculty and Staff Chess (Men) teams have participated in the All India Inter NIT Tournament organized by NIT Bhopal from 21 to 23 December 2023.

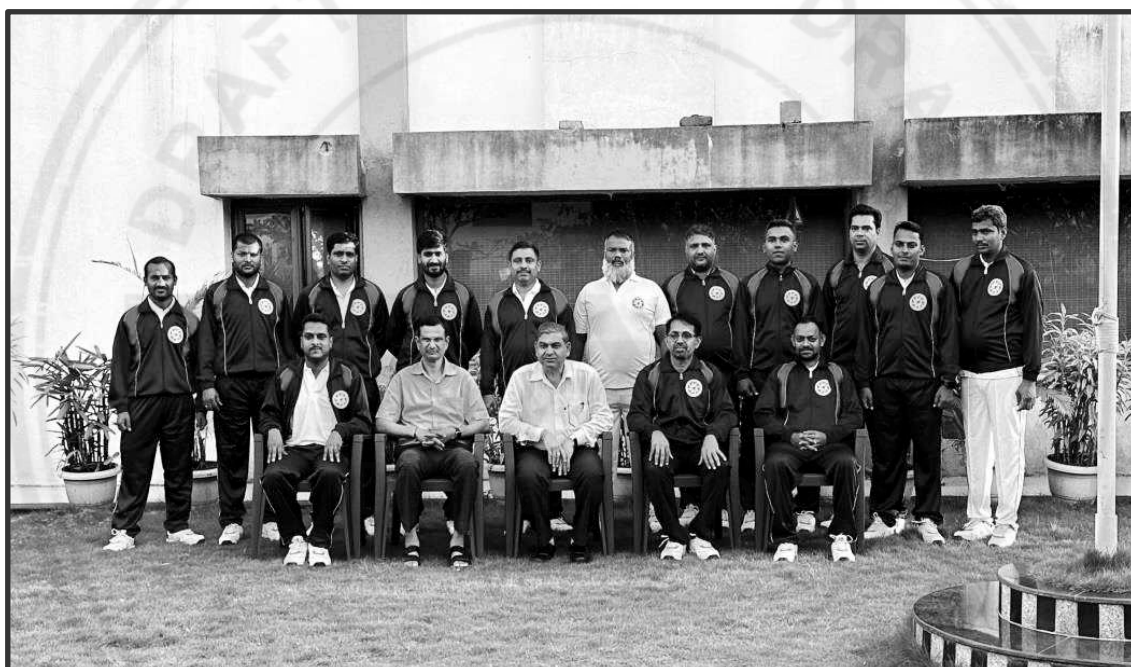
The NIT Goa Student Cricket (Men) teams have participated in the All India Inter NIT Tournament organized by NIT Trichy from 05 to 08 January 2024.

The NIT Goa Chess and Table Tennis (Men) teams have participated in the All India Inter NIT Tournament organized by NIT Jamshedpur from 02 to 04 February 2024.

The NIT Goa Table Tennis men team placed fourth out of twenty four teams from various NITs that took part in the competition.

NIT Goa's Chess Team secured 2 points overall with notable individual performances. Milind Gauns excelled on board 2, securing 3.5/5 and claiming the 6th position, while Ahan G S, with a score of 3/5 on board 3, secured the 7th spot out.





Report on 75th Republic Day Celebration



National Institute of Technology Goa celebrated the 75th Republic Day with grandeur and excitement. It was the first national festival celebrated at NIT Goa's new permanent campus at Cuncolim, Goa. The students, staff, and faculty members, filled with patriotism and dedication, gathered in front of the Sardar Vallabhbhai Patel Administrative complex. The event began at 9 am with the Guard of Honor and a parade. The honourable Director of NIT Goa, Prof. O. R. Jaiswal then unfurled the Indian National Flag followed by the National Anthem. In his speech, the director highlighted the importance of the Constitution and its unique features such as Sovereign, Socialist, Secular, Democratic, and Republic that are enshrined in the preamble of the Constitution. He also gave insight into the various accomplishments achieved by students, professors, and staff, motivating the crowd to bring more laurels to the institute through their accomplishments. The Director also mentioned the Viksit Bharat@2047 vision, representing the Government of India's ambitious vision to transform the nation into a developed entity by the centenary of its independence in 2047. He urged the students to take part in this campaign by submitting

innovative ideas that can contribute significantly to India's development and growth. The speech was followed by a spectacular show by the students with the recitation of strong patriotic poems and powerful speeches. The program ended with the message to create a great nation through collective efforts from all individuals. Sweets were distributed among all the attendees as a gesture of joy and celebration.



**Report of Campaign on Mera Pehla Vote Desh Ke Liya
From 28.02.2024 to 06.03.2024**

As per the direction from the MoE, NIT Goa is to ensure universal enlightened participation of youth in elections encourage young especially first-time voters to come out and vote, and to convey the importance of voting for the larger good of the nation. In this connection, NIT Goa has conducted the following events mentioned in the table.

S.No	Event	Date	Venue
1	Rally to aware the voters	29.02.2024	Playground to gate & Return back
2	Display of Audio – Visual Films/Songs	01.03.2024	Gyan Mandir
3	Download Voter Helpline App	28.02.204 to 06.03.2024	Online
4	Voters Pledge - Certificates will be generated online	28.02.204 To 06.03.2024	Online
5	Selfie Points	28.02.204 to 06.03.2024	Boys hostel/Girls Hostel Gyan Mandir
6	Informational Material and Motivational Content – Sharing through online and Whats App	28.02.204 to 06.03.2024	Online
7	Display of Banner	March, April & May	Main gate, Admin Boys & Girls Hostel





Display of Audio-Video films/Songs

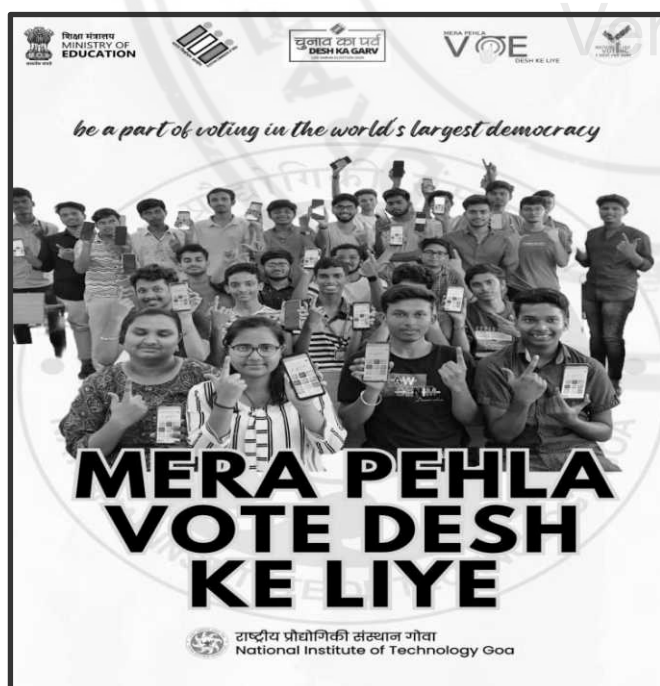
The informational and motivational content such as My Vote, My Duty film, Main Bharat Hoon Song, and Power of 18 are displayed in front of the Gyan Mandir. The students from various departments of our institute earnestly participated and took selfie photos with posters. Some groups of students are doing some reels for upload on social media with hashtags.

Voters Pledge – Online Certificate:

The students are informed to take voter pledge and download certificates for upload on social media platforms with hashtags #ChunavKaParv, #DeshKaGarv, #IVoteforSure and #MeraPehlaVoteDeshKeLiye.

Display of Banner

Banners for the campaign on Mera Pehla Vote Desh Ke Liye have been erected in the following places: the Main Entrance, Admin Block, Gyan Mandir and Girls hostel.



Rally to aware the voters with Informational Material

The students are informed to assemble in the playground and share the ECI Atlas and Informational Material for an awareness campaign for greater electoral participation. After that, started to rally from the Playground to the gate & returned.



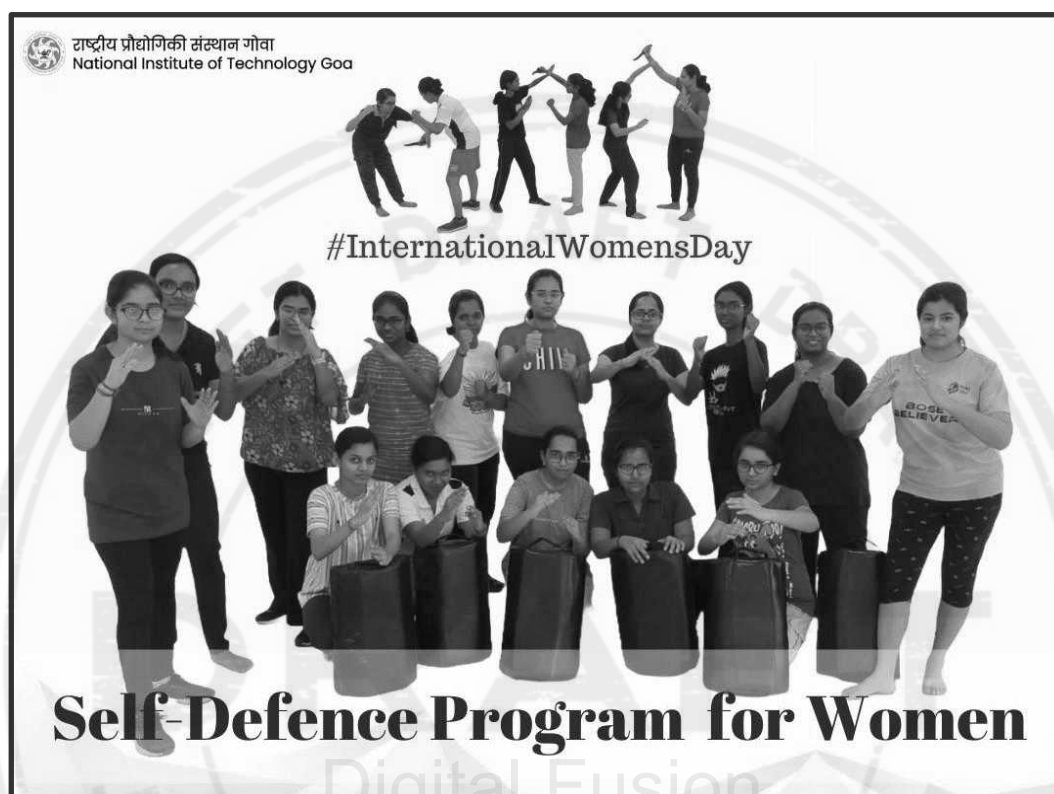
Art of Living – Motivational talk

Office of the Dean Students Welfare witnessed with the increasing academic demands and personal challenges of our student body, there is a need for conducting sessions related to stress and time management, especially for Final year B. Tech students on 02 March 2024 in the Gyan Mandir.



Self Defense Program

On account of International Women's Day on 8th March, organized a self-defense program for women including students, research scholars, teaching and non-teaching staff members for two days from 09.03.2024 to 10.03.2024.



Academic Highlights

New initiatives, provisions/programs started from AY: 2023-24 are as below:

1. Successfully implemented a NEP-2020 compliant curriculum starting from the academic year 2023-24
2. Minor programs in four specializations are started for admissions starting in 2022
3. Provision is made for B.Tech students to carry out their 7th and 8th semesters in IIT Madras and IIT Hyderabad
4. Provision is made for academically well-performing B.Tech students to opt for early completion of B.Tech course requirements by 7th Semester and carry out their 8th semester project work in Industry
5. Opportunity to credit Open Electives and Multidisciplinary courses
6. Opportunity to credit Indian Knowledge system courses
7. Opportunity for B.Tech and M.Tech students for carrying out Industrial Internships

8. In order to encourage experimental work, NIT Goa has started a funding support upto Rs. 1,50,000/- (One Lakh fifty thousand) per Department per year to carry out UG and PG Projects
9. Ph.D. students who can publish/get acceptance of two key publications within the first three years, will be given a fellowship of Rs. 50,000 or more towards registration fee and/or partial travel, accommodation to attend an international conference.
10. Adjunct faculty are taken
11. Implementing Post-Doctoral Fellowships from Institute grant
12. A course on Innovation & entrepreneurship will also be a part of the new curriculum. Plans to start Vocational/certification courses is underway.
13. Industry-oriented and Skill-based learning for the students is highly encouraged
14. MOUs with few of the academic institution are – IIT Madras, IIT Hyderabad, National Forensic Science University (NFSU), BITS BioCyTiH Foundation, etc
15. The students of NIT Goa actively participate in Smart India Hackathons and have already won many laurels
16. In NIT Goa, students earn Credits after successfully completing a course. The students will be able to gain and add to their bank of credits earned in Academic Bank of Credits (ABC). We will be enabling transfer of credits earned from any authorized academic platform like other Academic Institution, MOOCs (Massive Open Online Courses)/SWAYAM Platforms, etc.
17. NIT Goa has been awarded with 5G Usecase Lab from the Department of Telecommunication, one among the 100 Usecase labs of the country
18. Three of our Faculty members namely Dr. Damodar Reddy, Dr. Modi Chirag Navinchandra, and Dr. Venkatnareshbabu Kuppili listed in world's top 2% most influential Scientists (Single Year) in 2023, as per the study conducted by Stanford University.

Academic Talks Organised by Institute

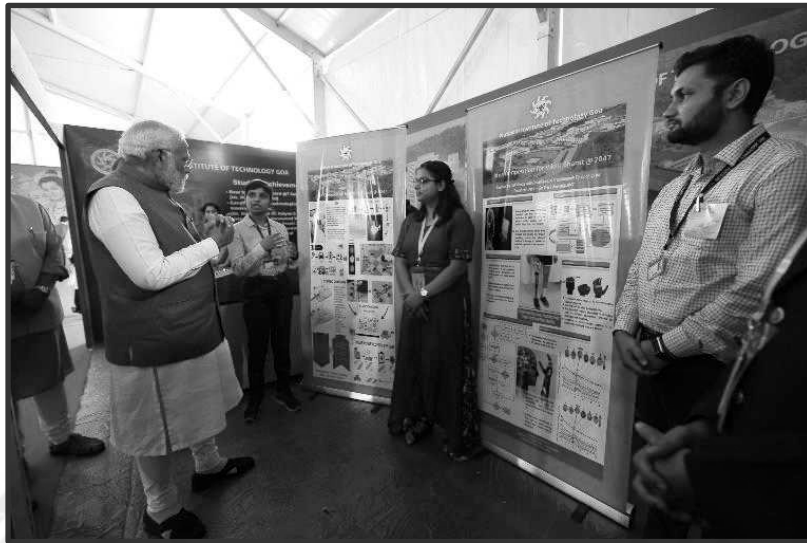
1. Prof. Sadanand S Gokhale, Retired Professor gave a talk on “Academic reforms and Industry 4.0” on 18th December 2023. Mrs. Beena Gokhale, Retired Professor gave a talk on “Pedagogy and Effective Communication for Researchers” on 18th December 2023
2. **Prof. Bidyadhar Subudhi**, Professor in Electrical Engineering, IIT Goa (Presently on lien as Director, NIT Warangal) had delivered a talk on **03 Feb 2024** in the topic: "R&D- a key Enabling Factor for Accomplished Career and Institute Growth".



Inauguration of the Permanent Campus

- The permanent campus of National Institute of Technology Goa at Cuncolim, South Goa was inaugurated by the Hon'ble PM, Shri. Narendra Modi ji on 6th February 2024 in the august presence of Shri Sreedharan Pillai (Governor of Goa), Dr. Pramod Sawant (CM of Goa), Shri Stripad Yesso Naik (Union Minister of State for Ports, Shipping & Waterways & Tourism, Shri Francisco Sardinha (MP, South Goa) and other central and state dignitaries.
- It was a historic moment for all the stakeholders of the Institute.





9.0 PLACEMENT DETAILS OF STUDENTS FOR ACADEMIC YEAR 2023-24


**NATIONAL INSTITUTE OF TECHNOLOGY GOA
TRAINING AND PLACEMENT CELL**
**CAMPUS RECRUITMENT DETAILS OF STUDENTS
ACADEMIC YEAR 2023-24**

More than 115 companies visited NIT Goa for the campus recruitment of 2024 graduating batch.

PLACEMENT RECORD FOR THE ACADEMIC YEAR 2023-24 (Branch wise)

Department	Total No. of Students (EL)	Total No. of Students placed	Percentage of students
CSE	25	24	96%
ECE	33	32	96.96%
EEE	27	22	81.5%
MCE	14	12	85.7%
CVE	20	15	75%

EL : Eligible

PLACEMENT RECORD FOR THE ACADEMIC YEAR 2022-23 (Overall)

Total No. of Students (EL)	119
Total No. of Students Placed	105
Percentage of Placements	87.03%

Placement percentage of circuit branches (CSE, EEE & ECE) is more than: 95% with an average of 8.67 LPA.

Maximum pay Package : 20 LPA
Average pay Package : 7.694LPA
Minimum pay Package : 3 LPA



10.0 CONVOCAATION DETAILS 2023

Degree & Medals awarded for the B.Tech Batch

This year the Institute has awarded B. Tech., M.Tech., and Ph.D. degrees to a total number of 223 students. Total 157 students awarded with B.Tech. degree. Branch wise results are given below:

- Computer Science and Engineering : 35 students passed
- Electrical and Electronics Engineering : 30 students passed
- Electronics and Communication Engineering : 37 students passed
- Mechanical Engineering : 29 students passed
- Civil Engineering : 26 students passed

A total number of 52 students are awarded the M.Tech Degree. Branch wise results are as follows:

- Computer Science and Engineering : 18 students passed
- Power Electronics and Power Systems : 14 students passed
- VLSI : 20 students passed

Ph.D. degree is conferred to 14 students: 3 from the Dept. of Computer Science and Engineering 05 from the Dept. of Electronics and Communication Engineering, 02 from Electrical and Electronics Engineering, 04 Applied Sciences.

The DIRECTOR'S GOLD MEDAL for the outstanding all-round performance in all disciplines of undergraduate programmes of study was awarded to MR. ATHARVA KHADE Roll no. 19CSE1007 of the CSE Dept for batch the 2019-2022. GOLD MEDAL for the best academic performance in the undergraduate programmes of study was awarded to MR. ATHARVA KHADE Roll no. 19CSE1007 of the CSE Dept, MS. ARAVETI GANGA PRATIMA Roll no. 19CVE1003 of the CVE dept, and MR. ASHWIN CHANDRA JAIN Roll no.19EEE1002 of the EEE dept., Mr. RAHUL VISHWANATH SWAR Roll no. 19ECE1028 of the ECE dept. , Mr. ABHINAV UPADHYAY Roll no. 19MCE1002 of the MCE dept.

The DIRECTOR'S GOLD MEDAL for the outstanding all-round performance in all disciplines of postgraduate programmes of study was awarded to Mr. SEAN MONTEIRO Roll No. 21CSE2016 of the CSE dept for batch the 2021-2023. GOLD MEDAL for the best academic performance in the postgraduate programmes of study was awarded to Mr. SEAN MONTEIRO Roll No. 21CSE2016 of CSE dept ,SHIRODKAR ADITYA SHIVANAND, Roll no. 21EEE2001 of the EEE dept ,MR. KARAPURKAR SHOUNAK SANJAY Roll no. 21ECE2018 of the ECE dept.



Annual Accounts *2023-2024*

Digital Fusion
Ver.02



**NATIONAL INSTITUTE OF TECHNOLOGY GOA
BALANCESHEET AS AT 31ST, MARCH, 2024**

		Amount in Rupees	
SOURCES OF FUND	Sch.	As at 31.03.2024	As at 31.03.2023
COPRUS/CAPITAL FUND	1	1,98,85,62,725.76	1,44,10,53,130.75
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	2	1,49,97,301.00	1,35,83,482.00
SECURED LOANS	3	2,38,67,30,233.00	1,91,15,35,408.00
CURRENT LIABILITIES & PROVISIONS	4	37,33,32,761.59	36,95,66,114.66
TOTAL		4,76,36,23,021.35	3,73,57,38,135.41
APPLICATION OF FUNDS	Schedule	As at 31.03.2024	As at 31.03.2023
FIXED ASSETS	5		
Tangible Assets		8,66,83,572.16	7,59,67,607.82
Intangible Assets		29,57,332.00	21,01,525.00
Capital Works-In-Progress		3,67,94,24,266.00	2,82,17,30,049.00
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	6		
Long Term		-	-
Short Term		-	-
INVESTMENTS - OTHERS	7		
CURRENT ASSETS	8	88,46,67,505.62	74,33,38,253.25
LOANS, ADVANCES & DEPOSITS	9	10,98,90,345.57	9,26,00,700.34
TOTAL		4,76,36,23,021.35	3,73,57,38,135.41
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS	25		

FOR AND ON BEHALF OF THE BOARD

IN TERMS OF OUR INTERNAL AUDIT REPORT
FOR R.K.PIKALE AND ASSOCIATES

CHARTERED ACCOUNTANTS
FRN: 127641W

Signature
29/01/24

DIRECTOR

निदेशक

Director

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा

National Institute of Technology Goa

Signature
26/06

DIRECTOR

निदेशक

Director

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा

National Institute of Technology Goa

PLACE: CUNCOLIM, GOA

DATE: 26-06-2024

नृत्तसचिव

Registrar

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा

National Institute of Technology Goa



PARTNER

MEM NO. 438038



NATIONAL INSTITUTE OF TECHNOLOGY GOA
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31ST, MARCH, 2024

PARTICULARS	Sch.	Amount in Rupees	
		As at 31.03.2024	As at 31.03.2023
INCOME			
Academic Receipts	10	6,31,89,834.00	4,26,87,049.00
Grants / Subsidies	11	37,48,57,857.52	32,29,55,832.59
Income from investments	12	3,39,65,175.30	2,12,76,308.00
Interest earned	13	8,08,084.00	2,86,957.00
Other Income	14	80,17,051.13	39,32,739.84
Prior Period Income	15	-	-
TOTAL (A)		48,08,38,001.95	39,11,38,886.43
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	16	18,06,62,416.00	17,62,03,803.35
Academic Expenses	17	3,22,03,753.00	3,20,24,776.00
Administrative and General Expenses	18	3,41,51,079.03	1,99,96,198.33
Transportation Expenses	19	26,26,660.00	23,40,080.00
Repairs & Maintenance	20	2,56,67,091.00	2,15,46,035.00
Finance costs	21	11,38,89,236.25	9,11,10,904.13
Depreciation	5	1,89,97,762.66	1,66,27,318.40
Other Expenses	22	-	-
Prior Period Expenses	23	1,32,600.00	-
TOTAL (B)		40,83,30,597.94	35,98,49,115.21
Balance being excess of Income over Expenditure (A-B)		7,25,07,404.01	3,12,89,771.22
- Transfer (to) / from			
Capital Fund (Sch-1)		(1,89,97,762.66)	(1,66,27,318.40)
Corpus Fund (Sch-1)		(9,15,05,166.67)	(4,79,17,089.62)
Significant Accounting Policies			
Contingent Liabilities And Notes To Accounts			
	24		
	25		

FOR AND ON BEHALF OF THE BOARD

IN TERMS OF OUR INTERNAL AUDIT REPORT
FOR R.K.RIKALE AND ASSOCIATES

CHARTERED ACCOUNTANTS

FRN: 127641W

DIRECTOR

निदेशक

Director

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा

National Institute of Technology Goa

PLACE: CUNCOLIM,GOA

DATE: 26-06-2024

कुलमन्त्रि

Registrar

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा

National Institute of Technology Goa



**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024**

SCHEDULE - 1 COPRUS/CAPITAL FUND

Particulars	Amount in Rupees			
	Capital Fund	Corpus Fund	As at 31.03.2024	As at 31.03.2023
Balance at the beginning of the year	1,07,35,70,803.27	36,74,82,327.48	1,44,10,53,130.75	1,07,04,62,513.69
Add: Contributions towards Corpus/Capital Fund	-	-	-	-
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure	26,03,84,318.00	-	26,03,84,318.00	1,95,38,381.00
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure (Expenditure of F.Y-2014-15 & F.Y-2015-16)	-	-	-	2,35,088.84
Add: Grants received from MOE towards repayment of HEFA Loan principal (75%)	21,17,92,500.00	-	21,17,92,500.00	31,76,88,750.00
Add: Transfer from Corpus Fund (Repayment of HEFA Loan principal from IRG (Institute Share 25%))	7,05,97,500.00	-	7,05,97,500.00	10,58,96,250.00
Add: Assets Purchased out of Earmarked Funds	28,25,373.00	-	28,25,373.00	18,38,626.00
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution	-	-	-	-
Add: Assets Donated/Gifts Received	-	9,15,05,166.67	9,15,05,166.67	4,79,17,089.62
Add: Excess of Income over expenditure transferred from the Income & Expenditure Account	-	-	-	-
TOTAL	1,61,91,70,494.27	45,89,87,494.15	2,07,81,57,988.42	1,56,35,76,699.15
Less: Transfer to Earmarked Funds	-	-	-	-
Less: Transfer to Capital Fund (Repayment of HEFA Loan principal from IRG (Institute Share 25%))	-	7,05,97,500.00	7,05,97,500.00	10,58,96,250.00
Less: Other Deductions	1,89,97,762.66	-	1,89,97,762.66	1,66,27,318.40
Less: Depreciation for the year	-	-	-	-
Balance at the year end	1,60,01,72,731.61	38,83,89,994.15	1,98,85,62,725.76	1,44,10,53,130.75

**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024**

SCHEDULE 2 - DESIGNATED/ EARMARKED / ENDOWMENT FUNDS

Particulars	Amount in Rupees			
	Institute Devt Fund	Hostel Devt Fund	Student Welfare Fund	TOTAL
A.				
a) Opening balance	1,34,22,028.00	1,61,454.00	-	1,35,83,482.00
b) Additions during the year	-	-	-	-
c) Income from investments made of the funds	-	-	-	-
d) Accrued Interest on investments/Advances	-	-	-	-
e) Interest on Savings Bank a/c	5,68,441.00	6,458.00	1,920.00	5,76,819.00
f) Other additions (Specify nature) (Collected from students)	7,89,000.00	-	48,000.00	8,37,000.00
i. Collected from Students	-	-	-	-
ii. Transfer from Capital Fund	-	-	-	-
Total (A)	1,47,79,469.00	1,67,912.00	49,920.00	1,35,83,482.00
B.				
Utilization /Expenditure towards objectives:				
i) Capital Expenditure	-	-	-	-
ii) Revenue Expenditure	-	-	-	-
Total (B)				
Closing Balance at the year End (A-B)	1,47,79,469.00	1,67,912.00	49,920.00	1,35,83,482.00
Represented by				
Cash and Bank Balances	1,47,79,469.00	1,67,912.00	49,920.00	1,35,83,482.00
Investments	-	-	-	-
Interest Accrued but not due	-	-	-	-
Total	1,47,79,469.00	1,67,912.00	49,920.00	1,35,83,482.00

**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST MARCH, 2024**

**SCHEDULE 2A
ENDOWMENT FUNDS**

1. Sr. No.	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		Expenditure on the object during the year	Closing Balance		Total (10+11)
		3. Endowment	4. Accumulated Interest	5. Endowment	6. Interest	7. Endowmen t (3+5)	8. Accumulated Interest (4+6)		10. Endowment	11. Accumulated Interest	
		-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-	-

NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST. MARCH, 2024

SCHEDULE 3 - SECURED LOANS

	Amount in Rupees	
	As at 31.03.2024	As at 31.03.2023
Higher Education Funding Agency (HEFA) Loan A/c. No-0010110000139	1,98,83,98,908.00	1,91,15,35,408.00
Higher Education Funding Agency (HEFA) Loan A/c. No-0010110000176(Rs.61.50 crores)	39,83,31,325.00	-
Total	2,38,67,30,233.00	1,91,15,35,408.00

NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024

SCHEDULE 4 - CURRENT LIABILITIES & PROVISIONS

	Amount in Rupees	
	As at 31.03.2024	As at 31.03.2023
A. CURRENT LIABILITIES		
1. Deposits from staff	-	-
2. Deposits from students (Sub Schedule 1)	7,32,88,626.33	6,33,32,045.33
3. Sundry Creditors		
a) For Goods & Services (Sub Schedule 2)	2,82,93,881.00	76,76,563.00
b) Others	-	-
4. Deposit-Others (including EMD, Security Deposit) (Sub Schedule 3)	35,49,011.00	27,50,144.00
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS):		
a) Overdue	-	-
b) Others (Sub Schedule 4)	11,11,846.00	5,96,069.00
6. Other Current Liabilities (Sub Schedule 5)		
a) Salaries	1,25,37,182.00	1,15,27,551.00
b) Receipts against sponsored projects(Net) (as per Schedule 4a)	93,94,104.25	94,85,917.25
c) Receipts against sponsored fellowships & scholarships (Net) (as per Schedule 4b)	2,34,808.45	27,602.00
d) Unutilised Grants (as per Schedule 4c)	14,05,39,438.56	18,42,55,521.08
e) Grants in advance	-	-
f) Other funds (Sub Schedule 5)	5,72,076.00	10,62,402.00
g) Other liabilities (Sub Schedule 5)	22,48,456.00	17,64,232.00
Total (A)	27,17,69,429.59	28,24,78,046.66
B. PROVISIONS		
1. For Taxation	-	-
2. Gratuity	2,44,48,194.00	1,76,71,682.00
3. Superannuation Pension	-	-
4. Accumulated Leave Encashment	7,71,15,138.00	6,94,16,386.00
5. Trade Warranties/Claims	-	-
6. Others (Specify) (Sub Schedule 6)	-	-
Total (B)	10,15,63,332.00	8,70,88,068.00
Total (A+B)	37,33,32,761.59	36,95,66,114.66

Note: Unutilized grants 6 (d) will include grants received in advance for the next year.



**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024**

SCHEDULE - 4(a) SPONSORED PROJECTS

1. Sr. No.	2. Name of the Project	Opening Balance		5. Receipts/Recoveries during the year	6. Bank Interest	7. Total	8. Expenditure/Refund during the year	Closing Balance	
		3. Credit	4. Debit					9. Credit	10. Debit
1	Analyzing the Impact of the Start-up India Policy: An Empirical study on major startup hubs of India - ICSSR - Dr. Sunil Kumar	-	-	12,00,000.00	7,128.00	12,07,128.00	6,31,925.00	5,75,202.00	-
2	Deep-Learning Assisted Tomographic Ground Penetrating Radar for the Detection of Electrical and Morphological Features of Buried Objects-SERB- Dr. Mallikarjun E.	6,01,995.00	-	-	33,292.00	6,35,288.00	3,50,384.00	2,84,904.00	-
3	Biotechnological Interventions for Management of Protected Areas - Dept. of Biotechnology -Dr. Lalit Indu Giri(Scheme-0150)	-	-	13,01,760.00	-	13,01,760.00	13,01,760.00	-	-
4	Design and Development of FGPA Accelerator IP for Deep Neural Network (FAIPDNet) - Category III(21) CB&SD-Model-I-MEITY- Dr. Amod Rahulkar	-	-	13,32,800.00	-	13,32,800.00	13,32,800.00	-	-
5	Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Electroencephalography (Eeg) Data -SERB- Dr. Damodar Reddy Edla	1,32,955.00	-	-	-	1,32,955.00	1,32,955.00	-	-
6	Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	1,63,382.97	-	-	-	1,63,382.97	-	1,63,382.97	-
7	Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment - SERB - Dr. Chirag Modi	15,81,455.00	-	-	45,009.00	16,26,465.00	16,26,465.00	-	-
8	Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment - Siemens - Dr. Chirag Modi	6,83,859.80	-	-	-	6,83,859.80	4,36,111.00	2,47,748.80	-
9	Development of Metaheuristic Algorithms based Maximum Power Point Tracking Controllers for various Grid-Connected/Stand -Alone PV System to Enhance the Maximum Power Generation Capability -SERB -Dr. Suresh Mikkili	15,71,846.00	-	6,00,000.00	75,031.00	22,46,877.00	14,88,385.00	7,58,492.00	-
10	Development of Nature and Bio-Inspired Metamaterials for Stealth Technology Applications - SERB - Dr. Sadi Reddy Pame	-	-	16,50,000.00	10,143.00	16,60,143.00	-	16,60,143.00	-
11	Interference Rejection Using Built-In Filter Based Band-Pass Sigma Delta Modulators -SERB- Dr. Nithin Kumar Y.B.	22,72,657.00	-	-	1,47,564.00	24,20,221.00	5,59,052.00	18,61,169.00	-



12	Next-generation spirocyclic nitroxide spin labels for distance measurement at higher temperature by Electron Paramagnetic Resonance Spectroscopy-(Project no:6905-3) - IFCPAR - Dr. Velavan K.	-	12,09,120.00	37,233.00	12,46,353.00	3,31,914.00	9,14,439.00	-
13	Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology- TERI -Dr.Lalat Indu Giri	22,986.00	-	-	22,986.00	22,986.00	-	-
14	Speech Technologies in Indian Languages- DR. Veena T.- MEITY	-	24,08,000.00	-	24,08,000.00	24,08,000.00	-	-
15	Teachers Associateship for Research Excellence (TARE) - SERB - Dr. Damodar Reddy Edla	3,11,910.00	-	20,788.00	3,32,698.00	85,000.00	2,47,698.00	-
16	Thermoconvective Instabilities in a bidisperse porous layer: Linear and Non-linear stability analyses- SERB- Dr. Ravi Ragolu	-	8,53,635.00	5,248.00	8,58,883.00	-	8,58,883.00	-
17	Visvesvaraya Phd Scheme for Electronics and IT - (Batch 2014-15) sponsored by Media Lab Asia -Dr. Nithin Kumar Y.B.	27,851.23	-	1,856.00	29,707.23	-	29,707.23	-
18	Visvesvaraya Phd Scheme for Electronics and IT - (Batch 2015-16) sponsored by Media Lab Asia -Dr. Nithin Kumar Y.B.	4,22,755.25	-	28,168.00	4,50,923.25	-	4,50,923.25	-
19	Wind Energy Harvesting from Vortex Induced Vibration of Multiple Cyclinders using novel multiple Piezoelectric Strips Arrangement -SERB-Dr Prasennjit Dey	16,92,262.00	-	88,642.00	17,80,904.00	12,31,569.00	5,49,335.00	-
20	Indo-Norwegian Collaboration in Intelligent Offshore Mechatronics- Universitetet i Agder, Norway	-	3,40,730.00	-	3,40,730.00	2,19,752.00	1,20,978.00	-
21	Installation of a Grid-connected Single Phase PV Rooftop System with a capacity of under 1KW at Goa Energy Development Agency (GEDA) - Goa Govt - Dr. Sreeraj E.S.	-	5,70,000.00	485.00	5,70,485.00	-	5,70,485.00	-
22	International Travel Grant (ITS) - SERB	-	2,66,308.00	-	2,66,308.00	2,66,308.00	-	-
23	Modelling and Simulation of Brain - Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy logic's - Dept. of Science & Technology & waste management- Goa Govt. - Dr. Malikarjun	-	50,000.00	307.00	50,307.00	-	50,307.00	-
24	Short Term Training Program - "Sustainable Future on Water Resources and Climate challenges"-Department of Science & Technology and Waste Management - Goa Govt. - Dr. Hari Kumar N.	-	1,00,000.00	169.00	1,00,169.00	1,00,169.00	-	-
25	Students Attendance System - Dept. of Science & Technology & waste management - Goa Govt. - Dr. Damodar Reddy Edla	-	50,000.00	307.00	50,307.00	-	50,307.00	-
Total		94,85,917.25	1,19,32,353.00	5,01,370.00	2,19,19,640.25	1,25,25,536.00	93,94,104.25	-

- The Projects may be listed agency-wise, with sub-totals for each agency.
- The total of Col. 9 (Credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 4).
- The total of Col. 10 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024**

SCHEDULE - 4(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

1. Sr. No.	2. Name of the Sponsor	Amount in Rupees					
		Opening Balance as on 01.04.2023		Transactions during the year		Closing Balance as on 31.03.2024	
		3. Credit	4. Debit	5. Credit	6. Debit	7. Credit	8. Debit
1	Scholarship EDCIL (India) Ltd.	-	-	9,08,338.00	9,08,338.00	-	-
2	Scholarship from Ministry of Tribal Affairs	-	-	-	-	-	-
3	Scholarship from Ministry of Social Justice	-	-	-	-	-	-
4	Scholarship Govt. of Madhya Pradesh	-	-	-	-	-	-
5	Inspire Fellowship-Dept. of Science & Technology	26,957.00	-	-	26,957.00	-	-
	Bank Interest	-	-	37,643.00	37,643.00	-	-
	Arrears	-	-	40,000.00	40,000.00	-	-
	Contingency	-	-	8,64,000.00	8,64,000.00	-	-
	Fellowship	645.00	-	1,58,957.00	1,58,957.00	-	-
	H.R.A.	-	-	1,44,000.00	1,44,000.00	-	-
6	Ohm Jyoti - Scholarship	-	-	4,13,975.45	2,00,000.00	2,13,975.45	-
7	Shraman Foundation Scholarship	-	-	50,000.00	50,000.00	-	-
8	Umang Scholarship	-	-	20,833.00	-	20,833.00	-
9	Other Scholarships	-	-	-	-	-	-
	Total	27,602.00	-	26,37,746.45	24,30,540.00	2,34,808.45	-

Note:

1. The total of Col. 7 (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 4).
2. The total of Col. 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 9(Loans, Advances and Deposits).

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SCHEDULE 4(c) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

Particulars	OH-31 (General)	OH-31 (HEFA Loan Principal)	OH-31 (HEFA Loan Interest)	OH-36 (Salaries)	OH-35 (Capital)	Amount in Rupees	
						As at 31.03.2024	As at 31.03.2023
A. Plan Grants : Government of India							
Balance B/F							
Add: Receipts during the year for Expenditure	2,85,65,603.13	10,58,96,250.00	(3,51,20,408.00)	4,72,48,286.38	3,76,85,789.57	18,42,55,521.08	36,85,63,661.16
Add: Receipts during the year towards HEFA Loan repayment	9,44,00,000.00	-	-	11,17,00,000.00	25,00,00,000.00	45,61,00,000.00	25,44,00,000.00
Add: Provision of Retirement Benefits of earlier years w/back	-	23,48,55,000.00	11,73,66,955.00	-	-	35,22,21,955.00	27,53,11,115.00
Add: Interest earned during the year	54,40,116.00	-	-	25,00,187.00	33,05,266.00	1,12,45,549.00	1,61,47,462.00
Total (a)	12,84,05,719.13	34,07,51,250.00	8,22,46,547.00	16,14,48,453.38	29,09,71,055.57	1,00,38,23,025.08	91,44,22,238.16
Less: Refunds back to MOE/Autoreversal of Grants in TSA	61,229.00	-	-	40,220.00	-	1,01,449.00	4,97,21,500.65
Less: Interest refunded back to the MOE	86,41,845.00	-	-	30,09,253.00	44,96,364.00	1,61,47,462.00	2,00,27,164.00
Less: Utilized for HEFA Loan Principal Repayment	-	21,17,92,500.00	-	-	-	21,17,92,500.00	31,76,88,750.00
Less: Utilized for HEFA Loan Interest Repayment	-	-	11,35,43,570.00	-	-	11,35,43,570.00	9,10,69,175.00
Less: Utilized for Capital Expenditure - 35	-	-	-	-	26,03,84,318.00	26,03,84,318.00	1,95,38,381.00
Less: Utilized for Capital Expenditure - 35 (not considered in F.Y. 2014-15 & F.Y. 2015-16)	-	-	-	-	-	-	2,35,088.84
Less: Utilized for Revenue Expenditure	11,28,73,702.52	-	-	14,84,40,585.00	-	26,13,14,287.52	23,18,86,657.59
Total (b)	12,15,76,776.52	21,17,92,500.00	11,35,43,570.00	15,14,90,058.00	26,48,80,682.00	86,32,83,586.52	73,01,66,717.08
Unutilized Carried Forward (a-b)	68,28,942.61	12,89,58,750.00	(3,12,97,023.00)	99,58,395.38	2,60,90,373.57	14,05,39,438.56	18,42,55,521.08
B. UGC grants: Plan	-	-	-	-	-	-	-
C. UGC grants: Non Plan	-	-	-	-	-	-	-
D. Grants from State Govt.	-	-	-	-	-	-	-
Grand Total (A+B+C+D)	68,28,942.61	12,89,58,750.00	(3,12,97,023.00)	99,58,395.38	2,60,90,373.57	14,05,39,438.56	18,42,55,521.08

Notes:-

-Unutilized grants includes advances on Capital Account
-Unutilized grants includes grants received in advance for the next year
-Unutilized grants are represented on Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account

The Revenue expenditure met out of non plan grants calculated is as follows:

Particulars	General - 31	General - 31 HEFA Principal	General - 31 HEFA Interest	Salaries - 36	Total
Expenditure as per Expenditure schedules (Non Plan column) of the Income and Expenditure Account	11,41,24,988.18	21,17,92,500.00	11,35,43,570.00	18,06,62,416.00	62,01,23,384.18
Less: Provision made in the year for retirement benefits	-	-	-	1,49,09,794.00	1,49,09,794.00
Add: Actual payments made in the year for retirement benefits	-	-	-	4,34,530.00	4,34,530.00
Less: Depreciation during the year	1,89,97,762.66	-	-	-	1,89,97,762.66
Add: Less: Salary of Contract Staff booked in General-31	1,77,46,567.00	-	-	(1,77,46,567.00)	-
Revenue expenditure met out of non - plan grants.	11,28,73,702.52	21,17,92,500.00	11,35,43,570.00	14,84,40,585.00	58,66,50,357.52



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SCHEDULES 5: FIXED ASSETS					GROSS BLOCK				DEPRECIATION				Amount in Rupees NET BLOCK	
S.No.	Assets Heads	Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	31.03.2024	31.03.2023			
1	Land	-	-	-	-	-	-	-	-	-	-			
2	Site Development	-	-	-	-	-	-	-	-	-	-			
3	Buildings	-	-	-	-	-	-	-	-	-	-			
4	Roads & Bridges	-	-	-	-	-	-	-	-	-	-			
5	Tubewells & Water Supply	-	-	-	-	-	-	-	-	-	-			
6	Sewerage & Drainage	39,86,836.50	-	-	39,86,836.50	7,41,699.00	1,99,342.00	-	9,41,041.00	30,45,795.50	32,45,137.50			
7	Electrical installation and equipment	1,24,10,006.99	3,70,802.00	-	1,27,80,808.99	39,38,007.00	6,39,043.00	-	45,77,050.00	82,03,758.99	84,71,999.99			
8	Plant & Machinery	6,29,34,371.35	2,04,53,287.00	-	8,33,87,658.35	2,72,42,423.96	65,59,411.38	-	3,38,01,835.34	4,95,85,823.01	3,56,91,947.39			
9	Scientific & Laboratory Equipment	15,32,501.00	1,75,049.00	-	17,07,550.00	5,43,599.00	1,28,070.00	-	6,71,669.00	10,35,881.00	9,88,902.00			
10	Office Equipment	50,39,769.25	7,66,298.00	-	58,06,067.25	27,13,368.00	4,32,078.00	-	31,45,446.00	26,60,621.25	23,26,401.25			
11	Audio Visual Equipment	5,99,23,184.73	44,22,233.00	-	6,43,45,417.73	4,69,28,655.73	59,66,480.00	-	5,28,95,145.73	1,14,50,272.00	1,29,94,529.00			
12	Computers & Peripherals	2,58,59,307.62	6,60,717.00	-	2,65,20,024.62	1,59,33,625.00	19,60,769.26	-	1,78,94,394.26	86,25,630.36	99,25,682.62			
13	Furniture, Fixtures & Fittings	32,14,129.00	-	-	32,14,129.00	23,97,367.00	3,21,411.00	-	27,18,778.00	4,95,351.00	8,16,762.00			
14	Vehicles	61,08,435.51	4,73,792.00	-	65,82,227.51	46,02,282.44	3,99,610.02	-	50,01,892.46	15,80,335.05	15,06,153.07			
15	Library Books & Scientific Journals	13,17,934.58	1,59,776.00	-	14,77,710.58	13,17,841.58	1,59,765.00	-	14,77,606.58	104.00	93.00			
16	Small Value Assets	18,23,26,476.53	2,74,81,954.00	-	20,98,08,430.53	10,63,58,868.71	1,67,65,989.66	-	12,31,24,858.37	8,66,83,572.16	7,59,67,607.82			
Total (A)		2,82,17,30,049.00	85,76,94,217.00	-	3,67,94,24,266.00	-	-	-	-	3,67,94,24,266.00	2,82,17,30,049.00			
17/ Capital Work in Progress (B)														



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SCHEDULES 5 (a) FIXED ASSETS PLAN GRANTS				GROSS BLOCK			DEPRECIATION			Amount in Rupees NET BLOCK	
S.No.	Assets Heads	Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	31.03.2024	31.03.2023
1	Land	-	-	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-	-	-
4	Roads & Bridges	-	-	-	-	-	-	-	-	-	-
5	Tube wells & Water Supply	-	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-	-
7	Electrical Installations and equipments	39,86,836.50	-	-	39,86,836.50	7,41,699.00	1,99,342.00	-	9,41,041.00	30,45,795.50	32,45,137.50
8	Plant and Machinery	1,24,10,006.99	3,70,802.00	-	1,27,80,808.99	39,38,007.00	6,39,043.00	-	45,77,050.00	82,03,758.99	84,71,999.99
9	Scientific & Lab. Equipments	4,09,59,058.60	29,16,832.00	-	4,38,75,890.60	1,92,79,676.96	33,95,470.38	-	2,26,75,147.34	2,11,97,743.26	2,16,79,381.64
10	Office Equipments	15,32,501.00	1,75,049.00	-	17,07,550.00	5,43,589.00	1,25,070.00	-	6,71,669.00	10,35,881.00	9,88,902.00
11	Audio Visual Equipment	50,39,769.25	7,66,298.00	-	58,06,067.25	27,13,368.00	4,32,078.00	-	31,45,446.00	26,60,621.25	23,26,401.25
12	Computer and Peripherals	5,37,35,993.73	31,02,342.00	-	5,68,38,335.73	4,19,04,810.73	52,59,035.00	-	4,71,63,846.73	96,74,480.00	1,18,31,183.00
13	Furniture, Fixtures & Fittings	2,58,59,307.62	6,60,717.00	-	2,65,20,024.62	1,59,33,625.00	19,60,769.26	-	1,78,94,394.26	86,25,630.36	95,25,692.62
14	Vehicles	32,14,129.00	-	-	32,14,129.00	23,97,367.00	3,21,411.00	-	27,18,778.00	4,95,351.00	8,16,762.00
15	Library Books & Scientific Journals	60,29,047.51	4,73,792.00	-	65,02,839.51	45,54,647.44	3,91,672.02	-	49,46,319.46	15,56,520.05	14,74,400.07
16	Small Value Assets	13,17,934.58	1,59,776.00	-	14,77,710.58	13,17,841.58	1,59,765.00	-	14,77,606.58	104.00	93.00
	Total (A)	15,40,84,584.78	86,25,608.00	-	16,27,10,192.78	9,33,24,641.71	1,28,89,555.66	-	10,62,14,297.37	5,64,95,895.41	6,07,59,943.07
17	Capital Work in Progress (B)	57,68,94,930.00	25,10,01,630.00	-	82,78,96,560.00	-	-	-	-	82,78,96,560.00	57,68,94,930.00
	Grand Total (A+B+C)	76,62,86,743.78	26,03,84,318.00	-	1,02,66,71,061.78	12,65,41,548.71	1,41,86,428.66	-	14,07,27,977.37	88,59,43,084.41	83,97,45,195.07
S.No.	Intangible Assets	Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	31.03.2024	31.03.2023
18	(E-Journals perpetual)	8,25,154.00	-	-	8,25,154.00	8,25,153.00	-	-	8,25,153.00	1.00	1.00
19	Computer software	3,33,66,010.00	4,45,000.00	-	3,38,11,010.00	3,20,59,195.00	11,38,092.00	-	3,31,97,287.00	6,13,723.00	13,06,815.00
20	Patents & Copyrights	11,16,065.00	3,12,080.00	-	14,28,145.00	3,32,559.00	1,58,681.00	-	4,91,240.00	9,36,905.00	7,83,506.00
	Total (C)	3,53,07,229.00	7,57,080.00	-	3,60,64,309.00	3,32,15,907.00	12,96,773.00	-	3,45,13,680.00	15,50,629.00	20,90,322.00



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SCHEDULES 5 (b) FIXED ASSETS - HEFA LOAN										Amount in Rupees	
			GROSS BLOCK			DEPRECIATION				NET BLOCK	
Sr.No.	Assets Heads	Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	31.03.2024	31.03.2023
1	Land	-	-	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-	-	-
4	Roads & Bridges	-	-	-	-	-	-	-	-	-	-
5	Tubewells & Water Supply	-	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-	-
7	Electrical installation and equipment	-	-	-	-	-	-	-	-	-	-
8	Plant & Machinery	-	-	-	-	-	-	-	-	-	-
9	Scientific & Laboratory Equipment	-	1,60,30,973.00	-	1,60,30,973.00	-	12,82,478.00	-	12,82,478.00	1,47,48,495.00	-
10	Office Equipment	-	-	-	-	-	-	-	-	-	-
11	Audio Visual Equipment	-	-	-	-	-	-	-	-	-	-
12	Computers & Pheripherals	-	-	-	-	-	-	-	-	-	-
13	Furniture, Pictures & Fittings	-	-	-	-	-	-	-	-	-	-
14	Vehicles	-	-	-	-	-	-	-	-	-	-
15	Library Books & Scientific Journals	-	-	-	-	-	-	-	-	-	-
16	Small Value Assets	-	1,60,30,973.00	-	1,60,30,973.00	-	12,82,478.00	-	12,82,478.00	1,47,48,495.00	-
Total (A)		-	1,60,30,973.00	-	1,60,30,973.00	-	12,82,478.00	-	12,82,478.00	1,47,48,495.00	-
17 Capital Work in Progress (B)											
		2,24,48,35,119.00	60,66,92,587.00	-	2,85,15,27,706.00	-	-	-	-	2,85,15,27,706.00	2,24,48,35,119.00
Sr.No	Intangible Assets	Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	31.03.2024	31.03.2023
18	E-journals (perpetual)	-	-	-	-	-	-	-	-	-	-
19	Computer software	-	23,30,500.00	-	23,30,500.00	-	9,32,200.00	-	9,32,200.00	13,98,300.00	-
20	Patents & Copyrights	-	-	-	-	-	-	-	-	-	-
Total (C)		-	23,30,500.00	-	23,30,500.00	-	9,32,200.00	-	9,32,200.00	13,98,300.00	-
Grand Total (A+B+C)		2,24,48,35,119.00	62,50,54,060.00	-	2,86,98,89,179.00	-	22,14,678.00	-	22,14,678.00	2,86,76,74,501.00	2,24,48,35,119.00

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SCHEDULE 5C - INTANGIBLE ASSETS

SCHEDULE 5C - INTANGIBLE ASSETS										
		Amount in Rupees								
Sr.No	Assets Heads	Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	
1	E-journals (perpetual)	8,25,154.00	-	-	8,25,154.00	8,25,153.00	-	-	8,25,153.00	1.00
2	Computer software	3,33,66,010.00	4,45,000.00	-	3,38,11,010.00	3,20,59,195.00	11,38,092.00	-	3,31,97,287.00	6,13,723.00
3	Patents & Copyrights	11,16,065.00	3,12,080.00	-	14,28,145.00	3,32,559.00	1,58,681.00	-	4,91,240.00	9,36,905.00
										13,06,815.00
										7,83,506.00

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SCHEDULE 5 (C) (i) - PATENTS AND COPYRIGHTS

Particulars	Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	Amount in Rupees	
									31.03.2024	31.03.2023
A. Patents Granted										
1. Balance as on 31.03.2024 of Patents obtained in 2008-09 (Original Value Rs. /-)	-	-	-	-	-	-	-	-	-	-
2. Balance as on 31.03.2024 of Patents obtained in 2010-11 (Original Value Rs. /-)	-	-	-	-	-	-	-	-	-	-
3. Balance as on 31.03.2024 of Patents obtained in 2012-13 (Original Value Rs. /-)	-	-	-	-	-	-	-	-	-	-
4. Balance as on 31.03.2024 of Patents obtained in 2021-22 (Original Value Rs.3,45,071 /-)	3,45,071.00	-	-	3,45,071.00	76,682.00	38,341.00	-	1,15,023.00	2,30,048.00	2,68,389.00
5. Balance as on 31.03.2024 of Patents obtained in 2023-24 (Original Value Rs.3,45,071 /-)	3,26,214.00	76,740.00	-	4,02,954.00	1,03,470.00	44,773.00	-	1,48,243.00	2,54,711.00	2,22,744.00
Total	6,71,285.00	76,740.00	-	7,48,025.00	1,80,152.00	83,114.00	-	2,63,266.00	4,84,759.00	4,91,133.00
B. Patents Pending in respect of Patents applied for										
1 Expenditure incurred during 2010-11 to 2023-2024	4,44,780.00	2,35,340.00	-	6,80,120.00	1,52,407.00	75,567.00	-	2,27,974.00	4,52,146.00	2,92,373.00
Total	4,44,780.00	2,35,340.00	-	6,80,120.00	1,52,407.00	75,567.00	-	2,27,974.00	4,52,146.00	2,92,373.00
C. Grand Total (A+B)	11,16,065.00	3,12,080.00	-	14,28,145.00	3,32,559.00	1,58,681.00	-	4,91,240.00	9,36,905.00	7,83,506.00

Note: The addition in Part A (Patents Granted), will be figure of Patents granted during the year, transferred from Part B (column - Patents granted/rejected). The amount against patents rejected during the year is written off in the Income and Expenditure Account



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SCHEDULES 5D: FIXED ASSETS - OTHERS, SPONSORED PROJECTS ASSETS										Amount in Rupees	
S.No.	Assets Heads	GROSS BLOCK				DEPRECIATION				NET BLOCK	
		Opening Balance as on 01.04.2023	Additions	Deductions	Closing Balance as on 31.03.2024	Depreciation Opening Balance as on 01.04.2023	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2024	31.03.2024	31.03.2023
1	Land	-	-	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-	-	-
4	Roads & Bridges	-	-	-	-	-	-	-	-	-	-
5	Tubewells & Water Supply	-	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-	-
7	Electrical Installation and equipment	-	-	-	-	-	-	-	-	-	-
8	Plant & Machinery	-	-	-	-	-	-	-	-	-	-
9	Scientific & Laboratory Equipment	2,19,75,312.75	15,05,482.00	-	2,34,80,794.75	79,62,747.00	18,78,463.00	-	98,41,210.00	1,36,39,584.75	1,40,12,565.75
10	Office Equipment	-	-	-	-	-	-	-	-	-	-
11	Audio Visual Equipment	-	-	-	-	-	-	-	-	-	-
12	Computers & Peripherals	61,87,191.00	13,19,891.00	-	75,07,082.00	50,23,845.00	7,07,455.00	-	57,31,300.00	17,75,782.00	11,63,346.00
13	Furniture, Pictures & Fittings	-	-	-	-	-	-	-	-	-	-
14	Vehicles	-	-	-	-	-	-	-	-	-	-
15	Library Books & Scientific Journals	79,388.00	-	-	79,388.00	47,635.00	7,938.00	-	55,573.00	23,815.00	31,753.00
16	Small Value Assets	-	-	-	-	-	-	-	-	-	-
	Total (A)	2,82,41,891.75	28,25,373.00	-	3,10,67,264.75	1,30,34,227.00	25,93,856.00	-	1,56,28,083.00	1,54,39,181.75	1,52,07,664.75
17	Capital Work in Progress (B)	-	-	-	-	-	-	-	-	-	-
	Grand Total (A+B+C)	2,89,61,603.75	28,25,373.00	-	3,17,86,976.75	1,37,42,736.00	25,96,656.00	-	1,63,39,392.00	1,54,47,584.75	1,52,18,867.75
Note: The Additions during the year include additions from											
	Gifted	-	-	-	-	-	-	-	-	-	-
	Earmarked Funds	-	-	-	-	-	-	-	-	-	-
	Sponsored Projects	28,25,373.00	-	-	-	-	-	-	-	-	-
	HEFA Loan	62,50,54,060.00	-	-	-	-	-	-	-	-	-
	Own Funds	26,03,84,318.00	-	-	-	-	-	-	-	-	-
	Total	88,82,63,751.00	-	-	-	-	-	-	-	-	-

NATIONAL INSTITUTE OF TECHNOLOGY GOA**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024****SCHEDULES 6: INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS**

	Amount in Rupees	
	As at 31.03.2024	As at 31.03.2023
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks	-	-
7. Others (to be specified)	-	-
TOTAL	-	-

SCHEDULES 6(A): INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUNDS WISE)

Funds	Amount in Rupees	
	As at 31.03.2024	As at 31.03.2023
1	-	-
2	-	-
3	-	-
4	-	-
5 Endowment Fund Investments	-	-
TOTAL	-	-

Note: The Total in this Schedule will agree with the total in Schedule 5.

SCHEDULES 7: INVESTMENTS - OTHERS

	Amount in Rupees	
	As at 31.03.2024	As at 31.03.2023
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Others (to be specified)	-	-
TOTAL	-	-



NATIONAL INSTITUTE OF TECHNOLOGY GOA

SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024

SCHEDULE 8 - CURRENT ASSETS

Amount in Rupees

	As at 31.03.2024	As at 31.03.2023
1. Stock		
a) Stores and Spares	-	-
b) Loose Tools	-	-
c) Publications	-	-
d) Laboratory Chemicals, consumables and glass ware	-	-
e) Building Material	-	-
f) Electrical Material	-	-
g) Stationery	-	-
h) Water supply material	-	-
2. Sundry Debtors		
a) Debts Outstanding for a period exceeding six months	-	-
b) Others	-	-
3. Cash and Bank Balances		
a) Cash in Hand		
Cash	-	-
b) With Scheduled Banks:		
-In Current Accounts	-	-
-In Term Deposits Accounts	66,31,29,219.00	70,12,18,803.00
-In Savings Accounts	22,15,38,286.62	4,21,19,450.25
c) With Non - Scheduled Banks:		
-In Term Deposits Accounts	-	-
-In Savings Accounts	-	-
4. Post Office Savings Accounts		
	-	-
TOTAL	88,46,67,505.62	74,33,38,253.25

Note: Annexure A shows the details of Bank Accounts

ANNEXURE A

Amount in Rupees

	As at 31.03.2024	As at 31.03.2023
I. Saving Bank Accounts		
Canara Bank - NIT Goa HEFA Escrow 3 A/c. No. -1164101017423	14,14,67,884.00	1,88,363.00
Canara Bank - NIT Goa HEFA Escrow 4 A/c. No. -1164101017424	12,210.00	6,087.00
Union Bank of India CSAB/CCMT A/c No.SB/01/2538-520101026778293	1,28,72,690.93	2,44,909.90
Union Bank of India Growth Fund A/c No.SB/1935-520101026774646	1,07,41,922.72	7,31,635.64
Union Bank of India Hostel A/c No.SB/01/1250-520101026768530	2,86,33,988.75	40,27,810.38
Union Bank of India Mis. A/c No.SB/01/1915-520101026774476	16,13,026.85	43,355.74
Union Bank of India NITGOARC-SB/01/4333-520101026782665	18,782.90	18,275.90
Union Bank of India NIT Plan A/c No.SB/000653-520101026763067	39,34,081.01	11,20,210.35
Union Bank of India NIT Plan A/c No.SB/01/4284-520101026782460	4,97,186.83	16,290.91
Union Bank of India NIT Plan A/c No.SB/01/4363-520101026782843	1,45,400.60	1,19,609.90
Union Bank of India SB - Director NIT GOA Fees A/c No. 520101253886	17,41,949.43	2,04,55,365.99
Union Bank of India NIT Goa HEFA Escrow 2 A/c. No. - 520101263652423	44,55,130.92	24,044.10
Canara Bank NIT Goa ICSSR SB A/c. No.-110141443149	5,75,202.00	-
Union Bank of India - NIT Goa Projects Overhead PDA SB A/c. No. - 520101252614922	5,774.00	5,618.00
Union Bank of India SB/01/003573-520101026780557	1,48,23,055.68	1,51,17,873.44
II. Current Account		
III. Term Deposits with Schedule Banks		
Investment -132823030000118-Convocation A/c	2,00,000.00	2,00,000.00
Investment A/c No.-132823030000037	50,00,000.00	50,00,000.00
Investment A/c. No.-132823030000041	90,00,000.00	90,00,000.00
Investment A/c. No.-132823030000043	90,00,000.00	90,00,000.00
Investment A/c. No.-132823030000045	90,00,000.00	90,00,000.00
Investment A/c No - 132823030000067	1,85,00,000.00	1,85,00,000.00
Investment A/c No - 132823030000068	1,85,00,000.00	1,85,00,000.00
Investment A/c No - 132823030000069	-	1,67,98,750.00
Investment A/c No - 132823030000070	1,85,00,000.00	1,85,00,000.00
Investment A/c No - 132823030000071	1,85,00,000.00	1,85,00,000.00
Investment A/c No - 132823030000072	1,85,00,000.00	1,85,00,000.00



Investment A/c No - 132823030000074	1,85,00,000.00	1,85,00,000.00
Investment A/c No - 132823030000075	1,33,96,250.00	1,33,96,250.00
Investment A/c. No.- 132823030000115 - DASA	1,40,00,000.00	1,40,00,000.00
Investment Ac. no. -132823030000116	8,00,000.00	8,00,000.00
Investment A/c. No. 132823030000117 Misc Fines A/c	3,50,000.00	3,50,000.00
Investment A/c No. 132823030000231	72,12,014.00	72,12,014.00
Investment A/c No. 132823030000232	57,69,612.00	57,69,612.00
Investment A/c No.-132823030000300	40,03,616.00	-
Investment A/c No.-132823030000301	90,08,137.00	-
Investment A/c No.-530401024340851	-	99,00,000.00
Investment A/c No.-530401024340875	-	99,00,000.00
Investment A/c No.-530401024340905	-	99,00,000.00
Investment A/c No.-530401024340943	-	99,00,000.00
Investment A/c No.530401024340967	-	99,00,000.00
Investment A/c No.-530401024340974	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340981	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341018	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341025	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341049	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341063	99,00,000.00	99,00,000.00
Investment A/c No.530401024341094	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341131	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341179	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341186	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341223	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341247	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341285	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341308	-	99,00,000.00
Investment A/c No.-530401024341377	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341384	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341391	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341445	99,00,000.00	99,00,000.00
Investment A/c No.530401024342312-DASA A/c	60,00,000.00	60,00,000.00
Investment A/c. No. 530401024342527-Hostel Dev. Fund	1,27,600.00	1,27,600.00
Investment A/c No.-530401024342695-Misc. Fines	7,00,000.00	7,00,000.00
Investment A/c No.-530401024342749	7,00,000.00	7,00,000.00
Investment A/c No.-530401034273484	99,00,000.00	99,00,000.00
Investment A/c No.-530401036091840	-	90,00,000.00
Investment A/c No.-530401036092502	-	40,00,000.00
Investment A/c. No. - 530401041263874	-	1,50,00,000.00
Investment A/c No.-530401041264000 - Misc. Fines	10,00,000.00	10,00,000.00
Investment A/c No.530401041264291-Alumni	4,00,000.00	4,00,000.00
Investment A/c No.530401041264369-CSAB	15,00,000.00	15,00,000.00
Investment A/c. No.530401041264482 - Hostel	60,00,000.00	60,00,000.00
Investment A/c. No.530401041264567-DASA	66,00,000.00	66,00,000.00
Investment A/c. No. - 530401041288907	1,50,00,000.00	1,50,00,000.00
Investment A/c. No. KCC/01/170012-530401087497108	53,59,295.00	53,59,295.00
Investment A/c. No. KCC/01/170015-530401087497132	37,51,507.00	37,51,507.00
Investment A/c. No. KCC/01/170017-530401087497116	53,59,295.00	53,59,295.00
Investment A/c. No.-KCC 530401721030914	8,00,000.00	8,00,000.00
Investment CSAB No. 132823030000114	27,00,000.00	27,00,000.00
Canara Bank Investment No. 140026634988/17	-	1,90,00,000.00
Canara Bank Investment No. 140026634988/18	-	1,90,00,000.00
Canara Bank Investment No. 140026634988/19	-	1,90,00,000.00
Canara Bank Investment No. 140026634988/20	-	1,90,00,000.00
Canara Bank Investment No. 140026634988/21	-	1,90,00,000.00
Canara Bank Investment No. 140026634988/22	-	1,90,00,000.00
Canara Bank Investment No. 140026634988/23	-	1,90,00,000.00
Canara Bank Investment No. 140026634988/24	-	43,93,705.00
Canara Bank Investment No. 140026634988/25	-	1,14,10,775.00
Canara Bank Investment No. 140119450862/1	1,90,00,000.00	-
Canara Bank Investment No. 140119450862/10	99,10,613.00	-
Canara Bank Investment No. 140119450862/11	76,87,500.00	-
Canara Bank Investment No. 140119450862/12	1,15,00,000.00	-



Canara Bank Investment No. 140119450862/13	1,15,62,500.00	-
Canara Bank Investment No. 140119450862/2	1,90,00,000.00	-
Canara Bank Investment No. 140119450862/3	1,90,00,000.00	-
Canara Bank Investment No. 140119450862/4	1,90,00,000.00	-
Canara Bank Investment No. 140119450862/5	1,90,00,000.00	-
Canara Bank Investment No. 140119450862/6	1,90,00,000.00	-
Canara Bank Investment No. 140119450862/7	1,90,00,000.00	-
Canara Bank Investment No. 140119450862/8	1,58,04,480.00	-
Canara Bank Investment No. 140126456191/1 (Bank Gurantee for Electr	1,01,00,000.00	-
Canara Bank Investment No. 140126456191/2	3,16,26,800.00	-
Canara Bank Investment No. 145000195519/1	-	2,92,90,000.00
Total	88,46,67,505.62	74,33,38,253.25



NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2024

SCHEDULE 9 - LOANS, ADVANCES & DEPOSITS

	As at 31.03.2024		As at 31.03.2023	
1. Advances to employees: (Non - Interest bearing)				
a) Salary	-		-	
b) Festival	-		-	
c) Medical Advance	-		-	
d) Others (to be Specified)	19,176.00	19,176.00	69,176.00	69,176.00
2. Advances to employees: (Non - Interest bearing)				
a) Vehicle Loan	-		-	
b) Home Loan	-		-	
c) Others (to be Specified)	-	-	-	-
3. Advances and other amounts receivable in cash or in kind or for value to be received:				
a) On Capital Account	7,20,19,352.00		5,84,98,729.00	
b) to Suppliers	32,000.00		-	
c) Others (Sub Schedule 7)	-	7,20,51,352.00	-	5,84,98,729.00
4. Prepaid Expenses				
a) Insurance	-		-	
b) Other Expenses (Sub Schedule 7)	-	-	-	-
5. Deposits				
a) Telephone (Sub Schedule 8)	-		-	
b) Lease Rent (Sub Schedule 8)	-		5,00,000.00	
c) Electricity	5,75,000.00		-	
d) AICTE, if applicable	-		-	
e) Others (to be Specified)	-	5,75,000.00	-	5,00,000.00
6. Income Accrued:				
a) On Investments from earmarked/endow. Funds	-		-	
b) On Investments - others (Sub Schedule 7)	3,68,66,777.00		3,29,33,398.70	
c) On Loans and Advances	-		-	
d) Others (Includes Income due unrealised Rs...)	-	3,68,66,777.00	-	3,29,33,398.70
7. Other - Current Assets receivable from UGC/MHRD/sponsored projects				
a) Debit balances in Sponsored Projects	-		-	
b) Debit balances in Sponsored Fellowships & Scholarships	-		-	
c) Grants Receivable	-		-	
d) Other receivables from UGC	-		-	
8. Claims Receivable		3,78,040.57		5,99,396.64
TOTAL		10,98,90,345.57		9,26,00,700.34

Note:

1.If revolving funds have been created for House Building, computer and Vehicle advances to employees, the advances will appear as part of Earmarked/endowment Funds. The balance against these interest bearing advances will not appear in this schedule.

NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR
ENDED 31ST, MARCH, 2024

SCHEDULE 10 - ACADEMIC RECEIPTS

	Amount in Rupees	
	2023-2024	2022-2023
FEES FROM STUDENTS		
Academic		
1. Tuition fee	5,85,63,596.00	3,92,14,517.00
2. Admission fee	28,891.00	36,000.00
3. Enrolment fee	-	-
4. Library Admission fee	-	-
5. Laboratory fee	-	-
6. Art & Craft fee	-	-
7. Registration fee	-	-
8. Syllabus fee	-	-
9. Other Fee	31,68,363.00	22,66,033.00
10. Application Fee	1,20,600.00	1,07,300.00
Total (A)	6,18,81,450.00	4,16,23,850.00
Examinations		
1. Admission test fee	-	-
2. Annual Examination fee	-	-
3. Mark sheet, certificate fee	-	-
4. Entrance examination fee	-	-
Total (B)	-	-
Other Fees		
1. Identity card fee	-	-
2. Fine/ Miscellaneous fee	1,81,154.00	1,49,648.00
3. Medical fee	-	-
4. Transportation fee	-	-
5. Convocation fee	6,67,230.00	3,22,551.00
6. Hostel fee	-	-
Total(C)	8,48,384.00	4,72,199.00
Sale of Publications		
1. Sale of Admission forms	-	-
2. Sale of syllabus and Question Paper, etc.	-	-
3. Sale of prospectus including admission forms	-	-
Total (D)	-	-
Other Academic Receipts		
1. Registration fee for workshops, programmes	4,60,000.00	5,91,000.00
2. Registration fees (Academic Staff College)	-	-
Total (E)	4,60,000.00	5,91,000.00
GRAND TOTAL (A+B+C+D+E)	6,31,89,834.00	4,26,87,049.00

Note:

In case fees like entrance fee, subscriptions etc are material and are in the nature of capital receipts, such amount should be recognized to the Capital Fund. Otherwise such fees will be appropriately incorporated in this schedule.

NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD YEAR ENDED 31ST MARCH 2024

SCHEDULE 11- GRANTS /SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Particulars	OH-31 (General)	OH-31 (HEFA Loan Principal)	OH-31 (HEFA Loan Interest)	OH-36 (Salaries)	OH-35 (Capital)	Plan				Non Plan UGC	Amount in Rupees		
						Govt. of India	UGC				Total Plan	As at 31.03.2024	As at 31.03.2023
							Plan	Specific Schemes	Total Plan				
Balance B/F	2,85,65,603.13	10,58,96,250.00	(3,51,20,408.00)	4,72,48,286.38	3,76,65,789.57	18,42,55,521.08	-	-	18,42,55,521.08	-	18,42,55,521.08	36,85,63,661.16	
Add: Receipts during the year for Expenditure	9,44,00,000.00	-	-	11,17,00,000.00	25,00,00,000.00	45,61,00,000.00	-	-	45,61,00,000.00	-	45,61,00,000.00	25,44,00,000.00	
Add: Receipts during the year towards HEFA Loan repayment (Principal + Interest)	-	23,48,55,000.00	11,73,66,955.00	-	-	35,22,21,955.00	-	-	35,22,21,955.00	-	35,22,21,955.00	27,53,11,115.00	
Add: Provision for Retirement Benefits of earlier years which are not provided for	-	-	-	-	-	-	-	-	-	-	-	-	
Add: Interest earned during the year	54,40,116.00	-	-	25,00,167.00	33,05,266.00	1,12,45,549.00	-	-	1,12,45,549.00	-	1,12,45,549.00	1,61,47,462.00	
Add: Interest earned on grants refunded back to the MOE	12,84,05,719.13	34,07,51,250.00	8,22,46,547.00	16,14,48,453.38	29,09,71,055.57	1,00,38,23,025.08	-	-	1,00,38,23,025.08	-	1,00,38,23,025.08	91,44,22,238.16	
Less: Refunds back to MOE / Autoversal of Grants in TSA	61,229.00	-	-	40,220.00	-	1,01,449.00	-	-	1,01,449.00	-	1,01,449.00	4,97,21,500.65	
Less: Interest earned on grants refunded back to the MOE	86,41,845.00	-	-	30,09,253.00	44,96,364.00	1,61,47,462.00	-	-	1,61,47,462.00	-	1,61,47,462.00	2,00,27,164.00	
Balance	11,97,02,645.13	34,07,51,250.00	8,22,46,547.00	15,83,98,960.38	28,64,74,691.57	99,75,74,114.08	-	-	99,75,74,114.08	-	99,75,74,114.08	84,46,73,573.51	
Less: Utilised for Capital expenditure -35 (A)	-	-	-	-	-	26,03,84,318.00	-	-	26,03,84,318.00	-	26,03,84,318.00	1,95,38,381.00	
Less: Utilized for Capital Expenditure - 35 (not considered in F.Y.2014-15 & F.Y.2015-16) (A(i))	-	-	-	-	-	-	-	-	-	-	-	2,35,088.84	
Balance	11,97,02,645.13	34,07,51,250.00	8,22,46,547.00	15,83,98,960.38	2,60,90,373.57	72,71,89,796.08	-	-	72,71,89,796.08	-	72,71,89,796.08	82,46,00,103.67	
Less: Utilized for HEFA Loan Principal Repayment	-	21,17,92,500.00	-	-	-	21,17,92,500.00	-	-	21,17,92,500.00	-	21,17,92,500.00	31,76,66,750.00	
Less: Utilized for HEFA Loan Interest Repayment (B)	-	-	11,35,43,570.00	-	-	11,35,43,570.00	-	-	11,35,43,570.00	-	11,35,43,570.00	9,10,69,175.00	
Less: Utilized for General Revenue Expenditure -31 (C)	11,28,73,702.52	-	-	-	-	11,28,73,702.52	-	-	11,28,73,702.52	-	11,28,73,702.52	9,06,10,409.24	
Less: Utilized for Salaries Expenditure -36 (D)	-	-	-	14,84,40,585.00	-	14,84,40,585.00	-	-	14,84,40,585.00	-	14,84,40,585.00	14,12,76,248.35	
Balance C/F (E)	66,28,942.61	12,89,58,750.00	(3,12,97,023.00)	99,58,395.38	2,60,90,373.57	14,05,39,438.56	-	-	14,05,39,438.56	-	14,05,39,438.56	18,42,55,521.08	

A & A(i) - Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.

B, C & D - Appears as income in the Income & Expenditure Account.

E - (i) Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year.

(ii) Represented by Bank balances, Investments and Advances on the assets side.

The Revenue expenditure met out of non plan grants calculated is as follows:

Particulars	General - 31	General -31 HEFA Principal	General -31 HEFA Interest	Salaries - 36	Total
Expenditure as per Expenditure Schedules (Non Plan column) of the Income and Expenditure Account	11,41,24,898.18	21,17,92,500.00	11,35,43,570.00	18,06,62,416.00	62,01,23,384.18
Less: Provision made in the year for retirement benefits	-	-	-	1,49,09,794.00	1,49,09,794.00
Add: Actual payments made in the year for retirement benefits	-	-	-	4,34,530.00	4,34,530.00
Less: Depreciation during the year	1,89,97,762.66	-	-	-	1,89,97,762.66
Add: Less: Salary of Contract Staff booked in General-31	1,77,46,567.00	-	-	(1,77,46,567.00)	-
Revenue expenditure met out of non - plan grants	11,28,73,702.52	21,17,92,500.00	11,35,43,570.00	14,84,40,585.00	58,66,60,357.52

NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2024

SCHEDULE 12: INCOME FROM INVESTMENTS

	Investment from Earmarked Fund		Investment -Others	
	2023-2024	2022-2023	2023-2024	2022-2023
1. Interest				
a. On Govt. Securities	-	-	-	-
b. Other Bonds/Debentures	-	-	-	-
2. Interest on Term-Deposits	-	-	3,39,65,175.30	2,12,76,308.00
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees	-	-	-	-
4. Interest on Savings Bank Accounts	5,76,819.00	5,22,442.00	-	-
5. Others (Specify)	-	-	-	-
TOTAL	5,76,819.00	5,22,442.00	3,39,65,175.30	2,12,76,308.00
Transferred to Earmarked / Endowment Funds	5,76,819.00	5,22,442.00	-	-
Balance	-	-	3,39,65,175.30	2,12,76,308.00

Note: Interest accrued but not due on Term Deposits from HBA fund, conveyance advance fund and Computer Advance fund and on interest bearing advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

SCHEDULE -13: INTEREST EARNED

	Amount in Rupees	
	2023-2024	2022-2023
1. On Savings Account with Scheduled Banks	8,08,084.00	2,86,957.00
2. On Loans		
a. Employee/Staff	-	-
b. Others	-	-
3. Interest on Debtors and Other Recoverables	-	-
TOTAL	8,08,084.00	2,86,957.00

Note:

1. The amount against item 1, in respect of Bank Accounts of Earmarked/Endowment Funds is dealt with in Schedule 12 (First Part) and Schedule 2.

2. Item 2(a) is applicable only if Revolving funds have not been constituted for such advances.

**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2024**

SCHEDULE 14- OTHER INCOME

- Items of material amounts included in Miscellaneous Income should be separately disclosed.

	Amount in Rupees	
	2023-2024	2022-2023
A. Income from Land & Buildings		
1. Hostel Room Rent	43,09,600.00	30,33,780.00
2. License fee	34,816.00	-
3. Hire Charges of Canteen/Auditorium/Play ground/Convention Centre, etc	3,52,000.00	1,74,000.00
4. Electricity charges recovered	12,288.00	-
5. Water charges recovered	12,23,602.00	59,32,306.00
B. Sale of Institute's publications	-	32,07,780.00
C. Income from holding events		
1. Gross Receipts from annual function/ sports carnival	29,661.00	-
Less: Direct expenditure incurred on the annual function/ sports carnival	-	-
2. Gross Receipts from fetes	-	-
Less: Direct expenditure incurred on the fetes	-	-
3. Gross Receipts for educational tours	-	-
Less: Direct expenditure incurred on the tours	-	-
4. Others (to be specified & separately disclosed)	-	-
Gross Receipts from Workshops, Short Term courses, etc	14,43,890.00	1,55,000.00
Less: Direct expenditure incurred on Workshops, Short Term courses, etc	4,91,500.00	9,52,390.00
D. Others		37,345.00
1. Income from consultancy	-	-
2. Income from Overheads of Sponsored Projects	1,79,455.00	5,64,552.00
2. RTI fees	30.00	108.00
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	-	-
5. Misc. receipts (Sale of tender form, waste paper, etc.)	-	-
6. Profit on Sale/disposal of Assets	-	-
a. Owned assets	-	-
b. Assets received free of cost	-	-
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations	-	-

8. Foreign Exchange Gain	3,152.00	9,016.00
9. Recruitment Application Fees	1,86,759.20	-
10. Salary in Lieu of Notice	-	-
9. Others (specify) (Credit Balances w/off / Liquidated Damages)	7,33,297.93	1,13,938.84
Total	80,17,051.13	39,32,739.84

SCHEDULE 15- PRIOR PERIOD INCOME

Particulars	Amount in Rupees	
	2023-2024	2022-2023
1. Academic Receipts	-	-
2. Income from Investments	-	-
3. Interest earned	-	-
4. Other Income	-	-
Total	-	-

**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2024**

SCHEDULE 16- STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES).

- These shall be classified separately for teaching and non-teaching staff, adhoc staff, Arrears of DA, Salary arrears due to increment shall be shown separately

Particulars	2023-2024		2022-2023	
	Plan	Non Plan	Plan	Non Plan
a) Salaries and Wages				
Teaching Staff	9,90,06,238.00		9,33,27,112.00	9,33,27,112.00
Non Teaching Staff	2,79,97,208.00		2,55,09,093.00	2,55,09,093.00
Contractual Teaching Staff	1,48,84,027.00		1,19,63,927.00	1,19,63,927.00
Contractual Non Teaching Staff	28,62,540.00		26,98,648.00	26,98,648.00
b) Allowances and Bonus	1,94,582.00	-	1,97,360.00	1,97,360.00
c) Contribution to Provident Fund	-	-	-	-
d) Contribution to Other Fund	-	-	-	-
e) Staff Welfare Expenses	89,125.00	-	88,382.00	88,382.00
f) Retirement and Terminal Benefits	2,95,46,977.00	-	3,70,57,413.00	3,70,57,413.00
g) LTC facility	7,38,966.00	-	13,90,339.00	13,90,339.00
h) Medical facility	3,59,563.00	-	6,20,808.00	6,20,808.00
i) Children Education Allowance	15,39,000.00	-	11,97,000.00	11,97,000.00
j) Honorarium	-	-	-	-
k) CPDA Expenses	26,39,786.00	-	15,56,148.35	15,56,148.35
l) Others (Lien contribution)	8,04,404.00	-	5,97,573.00	5,97,573.00
TOTAL	18,06,62,416.00	-	17,62,03,803.35	17,62,03,803.35

SCHEDULE 16 A- EMPLOYEES RETIREMENT AND TERMINAL BENEFITS.

Particulars	Amount in Rupees	
	Pension	Gratuity
Opening Balance as on 01.04.2023	-	1,76,71,682.00
Addition : Capitalized value of Contributions Received from other Organizations	-	-
Total (a)	-	1,76,71,682.00
Less: Actual Payment during the Year (b)	-	-
Balance Available on 31.03.2024 c (a-b)	-	1,76,71,682.00
Provision required on 31.03.2024 as per Actuarial Valuation (d)	-	2,44,48,194.00
A. Provision to be made in the As at 31.03.2024 (d-c)	-	67,76,512.00
B. Contribution to New Pension Scheme		
C. Medical Reimbursement to Retired Employees		
D. Travel to Hometown on Retirement		
E. Deposit Linked Insurance Payment		
Total (A+B+C+D+E)		1,46,37,183.00

Note:

- The total (A+B+G+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 16.
- Items B,C,D&E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31.3.2024.

**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2024**

Particulars	2023-2024			2022-2023		
	Plan	Non Plan	Total	Plan	Non Plan	Total
	Amount in Rupees			Amount in Rupees		
a) Laboratory expenses	14,43,250.00	-	14,43,250.00	10,75,123.00	-	10,75,123.00
b) Field work/Participation in Conferences	1,10,708.00	-	1,10,708.00	1,13,014.00	-	1,13,014.00
c) Expenses on Seminars/Workshops	-	-	-	-	-	-
d) Payment to visiting faculty	16,02,236.00	-	16,02,236.00	11,38,940.00	-	11,38,940.00
e) Examination	76,509.00	-	76,509.00	41,316.00	-	41,316.00
f) Student Welfare expenses	25,87,511.00	-	25,87,511.00	22,51,963.00	-	22,51,963.00
g) Admission expenses	-	-	-	7,295.00	-	7,295.00
h) Convocation expenses	23,48,113.00	-	23,48,113.00	16,30,015.00	-	16,30,015.00
i) Publications	-	-	-	-	-	-
j) Stipend/means-cum-merit scholarship	1,87,67,517.00	-	1,87,67,517.00	2,16,94,051.00	-	2,16,94,051.00
k) Subscription Expenses	52,67,909.00	-	52,67,909.00	40,73,059.00	-	40,73,059.00
l) Others (specify)	-	-	-	-	-	-
TOTAL	3,22,03,753.00	-	3,22,03,753.00	3,20,24,776.00	-	3,20,24,776.00

SCHEDULE 18- ADMINISTRATIVE AND GENERAL EXPENSES

Particulars	2023-2024			2022-2023		
	Plan	Non Plan	Total	Plan	Non Plan	Total
	Amount in Rupees			Amount in Rupees		
A. Infrastructure						
a) Electricity and power	46,00,364.00	-	46,00,364.00	25,21,092.00	-	25,21,092.00
b) Water charges	4,06,748.00	-	4,06,748.00	5,83,712.00	-	5,83,712.00
c) Insurance	-	-	-	-	-	-
d) Rent, Rates and Taxes (including property tax)	2,23,570.00	-	2,23,570.00	6,17,880.00	-	6,17,880.00
B. Communication						
e) Postage and Stationery	(965.00)	-	(965.00)	5,011.00	-	5,011.00
f) Telephone, Fax and Internet Charges	5,79,778.00	-	5,79,778.00	6,42,818.00	-	6,42,818.00

C. Others									
g) Printing and Stationery (consumption)	9,55,240.00	-	9,55,240.00	14,45,572.00	-	14,45,572.00			
h) Travelling and Conveyance Expenses	12,86,052.00	-	12,86,052.00	13,88,692.00	-	13,88,692.00			
i) Hospitality	9,31,553.00	-	9,31,553.00	5,48,392.00	-	5,48,392.00			
j) Auditors Remuneration	3,36,300.00	-	3,36,300.00	5,23,920.00	-	5,23,920.00			
k) Professional Charges	14,160.00	-	14,160.00	28,320.00	-	28,320.00			
l) Advertisement and Publicity	2,49,900.00	-	2,49,900.00	-	-	-			
m) Magazines & Journals	18,505.00	-	18,505.00	23,316.00	-	23,316.00			
n) Staff Recruitment/Training Expenses	12,225.00	-	12,225.00	51,885.00	-	51,885.00			
o) Medical Expenses	13,64,839.00	-	13,64,839.00	5,20,304.00	-	5,20,304.00			
p) Seed Money / Patent Renewal Expenses	89,175.00	-	89,175.00	86,745.00	-	86,745.00			
q) Security Expenses	1,67,40,354.00	-	1,67,40,354.00	1,05,59,320.00	-	1,05,59,320.00			
r) Membership	-	-	-	-	-	-			
s) Foreign Exchange Loss	21,655.03	-	21,655.03	36,509.08	-	36,509.08			
t) GST Paid	10,03,179.00	-	10,03,179.00	87,203.00	-	87,203.00			
u) Campus Inauguration Expenses	7,44,354.00	-	7,44,354.00	-	-	-			
v) Campus Shifting Expenses	44,04,979.00	-	44,04,979.00	-	-	-			
w) Miscellaneous Expenses	1,69,114.00	-	1,69,114.00	3,25,507.25	-	3,25,507.25			
TOTAL	3,41,51,079.03	-	3,41,51,079.03	1,99,96,198.33	-	1,99,96,198.33			

Amount in Rupees

SCHEDULE 19-TRANSPORTATION EXPENSES

Particulars	2023-2024			2022-2023		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)						
a) Running expenses	10,35,857.00	-	10,35,857.00	7,33,771.00	-	7,33,771.00
b) Repairs & maintenance	-	-	-	-	-	-
c) Insurance expenses	22,904.00	-	22,904.00	35,135.00	-	35,135.00
2 Vehicles taken on rent/lease						
a) Rent/lease expenses	15,44,299.00	-	15,44,299.00	15,63,374.00	-	15,63,374.00
3 Vehicle (Taxi) hiring expenses	23,600.00	-	23,600.00	7,800.00	-	7,800.00
TOTAL	26,26,660.00	-	26,26,660.00	23,40,080.00	-	23,40,080.00

NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2024

Particulars	2023-2024			2022-2023		
	Plan	Non Plan	Total	Plan	Non Plan	Total
	Amount in Rupees			Amount in Rupees		
a) Buildings	6,85,884.00	-	6,85,884.00	3,39,646.00	-	3,39,646.00
b) Furniture & Fixtures	23,922.00	-	23,922.00	26,443.00	-	26,443.00
c) Plant & Machinery	-	-	-	-	-	-
d) Office Equipment	4,91,425.00	-	4,91,425.00	23,16,603.00	-	23,16,603.00
e) Computers (including Software)	32,64,692.00	-	32,64,692.00	28,43,581.00	-	28,43,581.00
f) Laboratory & Scientific equipment	-	-	-	-	-	-
g) Audio Visual equipment	-	-	-	-	-	-
h) Cleaning Material & Services	2,08,51,141.00	-	2,08,51,141.00	1,59,59,022.00	-	1,59,59,022.00
i) Book binding charges	-	-	-	-	-	-
j) Gardening	-	-	-	-	-	-
k) Estate Maintenance	-	-	-	-	-	-
l) Others (Specify)	3,50,027.00	-	3,50,027.00	60,740.00	-	60,740.00
Total	2,56,67,091.00	-	2,56,67,091.00	2,15,46,035.00	-	2,15,46,035.00

Particulars	2023-2024			2022-2023		
	Plan	Non Plan	Total	Plan	Non Plan	Total
	Amount in Rupees			Amount in Rupees		
a) Bank charges	3,45,666.25	-	3,45,666.25	41,729.13	-	41,729.13
b) Interest on HEFA Loan	11,35,43,570.00	-	11,35,43,570.00	9,10,69,175.00	-	9,10,69,175.00
c) Others (specify)	-	-	-	-	-	-
Total	11,38,89,236.25	-	11,38,89,236.25	9,11,10,904.13	-	9,11,10,904.13

Internal Auditors Note:

The NIT Goa has taken HEFA Loan for the construction of new campus at Cuncoim. As per the Accounting Standard - 16 if any loan has been taken for creation of Capital Assets and utilised for that purpose, interest paid on that specified loan has to be capitalised as capital expenditure till the date of completion and should be added with the cost of assets. As per the financial statement prepared by the management we have noticed that the constuction work of New campus building are still in progress and the management has claimed the interest paid on HEFA loan as revenue expenditure during the year considered as current year expense.

If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses in Schedule 17.

SCHEDULE 22- OTHER EXPENSES		Amount in Rupees			
Particulars	2023-2024		2022-2023		Total
	Plan	Non Plan	Plan	Non Plan	
a) Provision for Bad and Doubtful Debts/Advances	-	-	-	-	-
b) Irrecoverable Balances Written- off	-	-	-	-	-
c) Grants/Subsidies to other institutions/organizations	-	-	-	-	-
d) Others (specify)	-	-	-	-	-
Total	-	-	-	-	-

Note:

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investments, loss of fixed assets and loss on sale of fixed assets etc and disclosed accordingly.

SCHEDULE 23: PRIOR PERIOD EXPENSES		Amount in Rupees			
Particulars	2023-2024		2022-2023		Total
	Plan	Non Plan	Plan	Non Plan	
1 Establishment expenses	-	-	-	-	-
2 Academic expenses	-	-	-	-	-
3 Administrative expenses	1,32,600.00	-	1,32,600.00	-	-
4 Transportation expenses	-	-	-	-	-
5 Repairs & Maintenance	-	-	-	-	-
6 Other expenses (Consumables W/off)	-	-	-	-	-
Total	1,32,600.00	-	1,32,600.00	-	-

NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF ACCOUNTS FOR PERIOD/YEAR ENDED 31ST. MARCH, 2024

SCHEDULE -24 - SIGNIFICANT ACCOUNTING POLICIES

1) BASIS FOR PREPARATION OF ACCOUNTS

The Institute is governed by "The National Institute of Technology Act 2007". As per MOE, GOI Letter No. 29-4/2012-IFD DT 17.04.2015 the accounts of the Institute is prepared in Revised formats of accounts of Central Educational Institutions. The accounts are prepared on the basis of historical cost convention, unless otherwise stated and on the accrual method of accounting.

2) REVENUE RECOGNITION

2.1 Fees from Students (except Tuition Fees), Sale of Admission Forms, Royalty and Interest on Savings Bank account are accounted on receipt basis. Tuition Fees collected separately for each semester is accounted on accrual basis.

2.2 Income from Land, Buildings and Other Property and Interest on Investments are accounted on accrual basis.

3) FIXED ASSETS AND DEPRECIATION

3.1 Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning. Cost includes all attributable cost in bringing the assets to its working condition for the intended use.

3.2 All the assets that are acquired out of Government grants, the cost of assets acquired during the year is considered as utilization of grants for non-recurring purposes and to the extent utilized towards capital expenditure (on accrual basis) government grants and grants from MOE are transferred to the Capital Fund. While computing the capital expenditure met out of grants during the year (for the purpose of crediting to Capital Fund) care has been taken to exclude from the additions during the year (column 2 of Gross Block) the work in progress transferred to the Asset Accounts during the year.

3.3 Gifted/Donated assets are valued at the declared value where available, if not available, the value is estimated based on the present market value adjusted with reference to the physical condition of the asset. They are set-up by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets.

3.4 Fixed assets are valued at cost less accumulated depreciation. Depreciation on fixed assets is provided on Straight line method, at the following rates:

<u>Tangible Assets:</u>	
1. Land	0%
2. Site Development	0%
3. Buildings	2%
4. Roads & Bridges	2%
5. Tubewells & Water Supply	2%
6. Sewerage & Drainage	5%
7. Electrical Installation and equipment	5%
8. Plant & Machinery	8%
9. Scientific & Laboratory Equipment	7.5%
10. Office Equipment	7.5%
11. Audio Visual Equipment	7.5%

12. Computers & Peripherals	20%
13. Furniture, Fixtures & Fittings	7.5%
14. Vehicles	10%
15. Library Books & Scientific Journals	10%

Intangible Assets (amortization):

1. E-Journals (perpetual)	40%
2. Computer software	40%
3. Patents & Copyrights	9 Years

3.5 Depreciation is provided for the whole year on additions/sale/buyback/deductions during the year.

3.6 Where an asset is fully depreciated, it will be carried at a residual value of Re.1 in the Balance Sheet and will not be further depreciated. Thereafter, depreciation is calculated on the additions of each year separately at the rate of depreciation applicable for that asset head.

3.7 Assets created out of Earmarked Funds and funds of Sponsored Projects, where the ownership of such assets vests in the Institution, are setup by credit to Corpus/Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets. Assets created out of Sponsored Project funds, where the ownership is retained by the sponsors but held and used by the Institution are separately disclosed in the Notes on Accounts.

3.8 Assets, the individual value of each of which is Rs. 2000 or less (except Library Books) are treated as Small Value Assets, 100% depreciation is provided in respect of such assets at the time of their acquisition. However physical accounting and control are continued by the holders of such assets.

4) Intangible Assets: Patents and copy rights, E Journals and Computer Software are grouped under Intangible Assets.

4.1. **PATENTS:** The expenditure incurred from time-to-time (application fees, legal expenses etc.) for obtaining Patents is temporarily capitalized and shown as part of Intangible Assets in the Balance Sheet. If applications for patents are rejected, the cumulative expenditure incurred on the particular patent is written off to the Income & Expenditure Account in the year the application is rejected. The expenditure on Patents granted is written off over a life of 9 years on a conservative basis.

4.2. Perpetual Electronic Journals (E-Journals) are separated from Library Books in view of the limited benefit that could be derived from the on-line access provided. Perpetual E-journals are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge acquired by the Academic and Research Staff. Depreciation is provided in respect of Perpetual E-journals at a higher rate of 40% as against depreciation of 10% provided in respect of Library Books. Expenditure other than Perpetual E-journals are not perpetual in nature and hence expenditure for respective year is treated as expenditure in Income & Expenditure Account and expenditure for subsequent year is transferred to prepaid expenses in Balancesheet.

4.3. Expenditure on acquisition of software has been separated from computers and peripherals, as apart from being intangible assets, the rate of obsolescence in respect of these is very high. Depreciation is provided in respect of software at a higher rate of 40% as against depreciation of 20% provided in respect of Computers & Peripherals.

5) INVENTORY

Expenditure on purchase of chemicals, glassware, publications and other stores is accounted as revenue expenditure during the year of purchase. The stores and spares are purchased to the extent required.

6) RETIREMENT BENEFITS

Retirement benefits i.e., pension, gratuity and leave encashment are provided on the basis of actuarial valuation. The Actual payments of Pension, Gratuity and Leave encashment are debited in the Accounts to the respective provisions. Other retirement benefits viz. Deposit Linked Insurance, Contribution to New Pension Scheme, Medical reimbursement to retired employees and Travel to Home Town on retirement are accounted on accrual basis (actual payments plus outstanding bills at the end of the year).

7) INVESTMENTS

- a. Long term investments are carried at their cost or face value whichever is lower. However any permanent diminution in their value as on the date of the Balance Sheet is provided for.
- b. Short Term investments are carried at their cost or market value (if quoted) whichever is lower.

8) Earmarked/Endowment Funds

The following long term funds are earmarked for specific purposes. Since the balances in the funds are small and multiplicity of bank accounts operated by the institute, they are deposited in common bank account. Those with large balances also have investments in Term Deposits with Banks. The interest earned on the earmarked fund lying in saving account is transferred to the respective fund at the end of the year at the rate applicable on saving bank accounts from time to time i.e 4%. The income from investments / advances (House Building Conveyance and computer) on accrued basis and interest on savings Bank Accounts are credited to the respective Funds. The expenditure and advances (in the case of House Building & Conveyance/Computer) are debited to the fund. The assets created out of Earmarked Funds where the ownership Vests in the Institution, are merged with the assets of the Institution by crediting an equal amount to the Corpus/Capital Fund. The balance in the respective funds is carried forward and is represented on the assets side by the balance at Bank , Investments and accrued interest.

8.1 CORPUS/CAPITAL FUND was established in 2010. Matching contribution to the extent of Fixed Assets purchased from Plan Grants from MOE, Recognition/Affiliation fee received from Colleges and other academic institutions and contributions from Research Projects are treated as additions to Capital fund.

The Corpus/Capital Fund is utilized for both Revenue and Capital expenditure based on the guidelines by the MOE and the Executive council of the Institution from time to time. The assets created out of the Plan Grants of MOE are merged with the assets of the Institution by crediting an equal amount to the Corpus/Capital Fund. The Grant utilisation of principal Repayment of HEFA Loan (75% contribution from MOE) is shown as utilisation from Grant and equal amount is credited to the Capital Fund. The principal repayment of HEFA Loan (25% of NIT Goa Share) paid from the Internal Revenue of the Institute is shown as utilisation of Corpus Fund and the equal amount is transferred to Capital Fund from the Corpus Fund.

8.2 **Endowment Funds** :Endowments are funds received from various individual donors, Trusts and other organizations, for establishing Chairs and for Medals & Prizes, as specified by the Donors. While each of the Endowment funds has its own investment there is one savings Bank Account for all the Endowment funds, as the uninvested balances against them are negligible.

The income from investment of each Endowment Fund is added to the Fund. The interest on Savings Bank a/c is allocated to all the Endowment funds in the ratio of the year end closing balances in each fund. The expenditure on Medals & Prizes is met from the interest earned on investment of the respective Endowment Funds and the balance is carried forward. In respect of Chairs, however, the corpus of the Endowment is also used.

The balances are represented by Investment in RBI Bonds and Fixed Deposits and balance in the Saving Bank Account common for all Endowments, and Accrued Interest on Investments.

9) GOVERNMENT GRANTS

9.1 Government of India, Ministry of Education provides grant-in-aid to the Institute as Annual Plan Grants for meeting the recurring and non-recurring expenditure. The grants released by the Government has to be utilized only for the purpose for which it is granted and a Utilization Certificate in Form GFR-12A has to be furnished showing the actual amount utilized and the balance available at the close of the financial year. The unspent grant is carried forward for utilization in the subsequent years. As such the unspent amount of grants is a liability of the Institute and is disclosed as "Unutilised Grants" under Current Liabilities.

9.2 Expenditure of non-recurring nature (Capital expenditure for acquiring fixed assets) is shown as a deduction from this account (since it represents expenditure for the purpose for which the grant is sanctioned) and an equal amount is credited to Corpus/Capital Fund.

9.3 Government Grants and UGC grants are accounted on realization basis. However, where a sanction for release of grant pertaining to the financial year is received before 31st March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount is shown as recoverable from the Grantor.

9.4 To the extent utilized towards capital expenditure, (on accrual basis) government grants and grants from UGC are transferred to the Capital Fund.

9.5 Government and UGC grants for meeting Revenue Expenditure (on accrual basis) are treated, to the extent utilized, as income of the year in which they are realized.

9.6 Reconciliation of Grants as per books & Utilization Certificate is as below:

Particulars	General Head -31	OH-31 (HEFA Loan Principal)	OH-31 (HEFA Loan Interest)	Salaries Head -36	Capital Head -35	Total
Opening Balance as per Accounts on 01.04.2023	2,85,65,603.13	10,58,96,250.00	(3,51,20,408.00)	4,72,48,286.38	3,76,65,789.57	18,42,55,521.08
Add: Grant Received during the year	9,44,00,000.00	23,48,55,000.00	11,73,66,955.00	11,17,00,000.00	25,00,00,000.00	80,83,21,955.00
Add: Interest earned during the year	54,40,116.00	-	-	25,00,167.00	33,05,266.00	1,12,45,549.00
Less: Expenditure of earlier years	-	-	-	-	-	-
Less: Grants refunded during the year	61,229.00	-	-	40,220.00	-	1,01,449.00
Less: Interest refunded to MOE during the year	86,41,845.00	-	-	30,09,253.00	44,96,364.00	1,61,47,462.00
Less: Expenditure during the year	11,28,73,702.52	21,17,92,500.00	11,35,43,570.00	14,84,40,585.00	26,03,84,318.00	84,70,34,675.52
Less: Closing balance of Advances	-	-	-	-	33,33,848.00	33,33,848.00
Closing Balance as per UC as on 31.03.2024	68,28,942.61	12,89,58,750.00	(3,12,97,023.00)	99,58,395.38	2,27,56,525.57	13,72,05,590.56

Note 1: Reconciliation of Balance of Grants as per Accounts and Utilization Certificates

Grants as per Accounts as on 31.03.2024	14,05,39,438.56
Less: Advances to Suppliers as per Rule 238(4) of GFR 2017	33,33,848.00
Grants as per Utilization Certificates as on 31.03.2024	<u>13,72,05,590.56</u>

9.7 Interest earned on Plan Grants is allocated in Utilization Certificates between specified heads of grants (i.e General-31, Salaries-35 and Capital asset-36) having positive balances on the basis of average of opening and closing balance of respective heads before adding of interest. Interest during the year will be refunded to MOE, Govt. of India once the accounts are finalized as per GFR Rule 230(8) of GFR 2017.

9.8 As per Rule 238(4) of GFR the advances given to Suppliers has been shown as amount spent under expenditure head of Utilization Certificate as there is cash outflow.

9.9 Unutilized grants (including advances paid out of such grants) are carried forward and exhibited as a liability in the Balance Sheet.

9.10 The Ministry of Education vide its Letter F.No.33-2/2016-TS-III(Pt.) dated 27.09.2016 has issued a clarification and guidance note on merger of Plan and Non-Plan Grants and Utilization. Vide said circular it has been clarified that the Plan and Non-Plan Classification will be done away with and the focus is only on Revenue and Capital classification. As such, the Institute receives only Plan grants from MOE and accordingly appropriate disclosure as to utilization is given in the accounts. However, the format in Schedule 11 in common format of annual accounts has not been revised to that extent and no clarification is received regarding disclosure in line with the said proposal of Plan and non-plan merger.

10) TAXATION

National Institute of Technology, Goa being an Institution wholly financed by the Government is exempted from tax on its income under Section 10(23A) of the Income Tax Act, 1961. No provision for taxation is therefore made in the accounts.

11) INVESTMENTS

Investments are long term assets specifically made for earning income. Endowments or Corpus/Capital funds are only invested in such manner. Terms Deposits with banks for short duration which is to be encashed as and when money is required is treated as Current Assets and interest realized on the same is transferred to Interest Earned.

12) FOREIGN CURRENCY TRANSACTIONS

Transactions denominated in foreign currency are accounted at the exchange rate prevailing on the date of the transaction.

13) LEASE

Lease rentals are expended with reference to lease terms.

14) SPONSORED PROJECTS

14.1 In respect of ongoing Sponsored Projects, the amounts received from sponsors are credited to the head "Current Liabilities and Provisions -Current Liabilities -Other Liabilities - Receipts against ongoing sponsored projects." As and when expenditure is incurred /advances are paid against such projects, the concerned project account is debited and the liability account is debited.

14.2 In addition to the Earmarked Fund for the Junior Research Fellowships funded by the University Grants Commission, Fellowships and Scholarships are also sponsored by various organizations. These are accounted in the same way as Sponsored Projects except that the expenditure generally is only on disbursement of Fellowships and Scholarships, which may include allowances for contingent expenditure by the Fellows and scholars.

14.3 The Institution itself also awards Fellowships and Scholarships from the Plan Grants, which are accounted as Academic expenses.

14.4 Following Projects are ongoing / completed at the institute :

Name of the Project	Name of PI	Funding Agency
1) An Integrated Computational and Experimental Approach to Structural design for ballistic impacts and blasts	Dr. G.R.C. Reddy	IISC Bangalore
2) Visvesvaraya PhD Scheme for Electronics & IT- Batch 2014-15	Dr. Nithin Kumar Y.B.	Media Lab Asia
3) Visvesvaraya PhD Scheme for Electronics & IT- Batch 2015-16	Dr. Nithin Kumar Y.B.	Media Lab Asia
4) Design, Simulation and Implementing of Band-pass Sigma-Delta Modulator	Dr. Nithin Kumar Y.B.	SERB
5) Development Of Efficient Algorithms For Photoacoustic Tomography (Pat)	Dr. Raviprasad K.J	SERB
6) EPR Studies of some Ni(II) complex in crystalline environment	Dr. Velavan Kathirvelu	SERB
7) Special Manpower Development Programme for Chips to System Design	Dr. Nithin Kumar Y.B.	CEERI, Pilani
8) Suspended functional magnetic microparticle array based point-of-care diagnostic system for multiplexed bio-molecular sensing and diagnostic	Dr. Prasanth G.R.	SERB
9) Design and implementation of an inverter for a grid connected Photovoltaic System which is a part of Virtual Power Plant	Dr. Sreeraj E.S.	SERB
10) Development of Secure Key Management Protocols for Group Communication Being Grant Received from SERB for Project Development of Secure Key Management Protocols for Group Communication Under Active Outsider Attack Model	Dr. Purushothama B.R.	SERB
11) Enhanced Automation of 3-Axis CNC Milling Machine using Computer Vision and Artificial Intelligence	Dr. Pravati Swain	SERB
12) Energy Efficient Lighting with Visible Light based Communication & Power Line Communication	Dr. Ankit Dubey	DST
13) Design & Development of a Photovoltaic - Thermoelectric Hybrid Energy System	Dr. Lalit Indu Giri	SERB
14) Design & Development of Roast Distributed Nonlinear Channel Equalization & Identification	Dr. Trilochan Panigrahi	SERB
15) Monit Air: An IoT Based Air Pollution Monitoring System	Dr. S. Mini & Dr. Trilochan Panigrahi	SERB
16) Computational and Theoretical Studies on Parabolic Partial Differential Equations in Cancer Modelling	Dr. Shangeranesh	SERB
17) Design of Compact Shaped Beam Antenna Array for Dedicated Short Range Communication Service	Dr. Anirban Chatterjee	SERB

18) Development of a Multipurpose Intelligent Controller for a Nano Grid Operation	Dr. C. Vyjayanthi	MNRE
19) Improved PHY and MAC Strategies for M2M Communications in Smart Grid Over Wireless and PLC Heterogeneous Network	Dr. Ankit Dubey	SERB
20) Secure and efficient communications inside partitioned social overlay networks	Dr. Keshavamurthy BN	SERB
21) Smart City Surveillance using Decentralized Multi Camera Network	Dr. Badrinarayan Subudhi	SERB
22) Designing out-of-VM Monitoring based Virtual	Dr. Chirag Modi	SERB
23) MoniNoise: An IoT Based Noise Level Assessment System in Urban Cities of India	Dr. Trilochan Panigrahi	SERB
24) Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)	Dr. Amol Deodas Rahulkar	SERB
25) Design and Development of efficient Grid Integrated Distributed Maximum Power Point Tracking to Photovoltaic System for Enhancing Power Quality Under Partial Shading Condition	Dr. Suresh Mikkili	SERB
26) Development of coordination control schemes for hybrid AC/DC micro grids for a stable and reliable system operation.	Dr. C. Vyjayanthi	SERB
27) Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter based Grid Connected Photovoltaic Systems	Dr. Soumitra Das	SERB
28) Analysis of Cardiovascular Disorders Using Heart Sound Signals	Dr. Shivanarayan Patidar	SERB
29) Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron	Dr. Venkatanarashbabu Kupplili	SERB
30) Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology	Dr. Lalat Indu Giri	DST
31) Equipment - Design and Development of Compact and Wideband Dielectric Resonator Antennas	Dr. Pragati Patel	SERB
32) Design & Development of a Dynamic Photovoltaic Array Fed Singlase Stage PV System Using an Open Winding Induction Motor	Dr. Venugopal Reddy	SERB
33) Manpower-Design and Development of Acoustic Methods for early detection of Stem and Root Borer Plocaederus spp infestation in cashew	Dr. Veerakumar T.	SERB
34) Convective Instabilities in Double Diffusive Systems	Dr. Ravi Ragolu	SERB
35) Harnessing Technological Innovations for Sustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD)	Dr. Sunil Kumar A.	ICSSR
36) Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment	Dr. Chirag Modi	SERB
37) Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Electroencephalography (Eeg) Data	Dr. Damodar Reddy Edla	SERB
38) Interference Rejection Using Built-In Filter Based Band-Pass Sigma Delta Modulators	Dr. Nithin Kumar Y.B.	SERB
39) Deep-Learning Assisted Tomographic Ground Penetrating Radar for the Detection of Electrical and Morphological	Dr. Mallikarjun E.	SERB
40) Wind Energy Harvesting from Vortex Induced Vibration of Multiple Cylinders using novel multiple Piezoelectric Strips Arrangement	Dr. Prasenjit Dey	SERB
41) Speech Technologies in Indian Languages	Dr. Veena T.	MEITY
42) Teachers Associateship for Research Excellence (TARE)	Dr. Damodar Reddy Edla	SERB
43) Analyzing the Impact of the Start-up India Policy: An Empirical study on major startup hubs of India	Dr. Sunil Kumar A.	ICSSR
44) Biotechnological Interventions for Management of Protected Areas	Dr. Lalat Indu Giri	DBT
45) Design and Development of FGPA Accelerator IP for Deep Neural Network (FaipDNet) - Category III(21)	Dr. Amol Deodas Rahulkar	MEITY
46) Next-generation spirocyclic nitroxide spin labels for distance measurement at higher temperature by Electron Paramagnetic Resonance Spectroscopy	Dr. Velavan Kathirvelu	DST
47) Development of Nature and Bio-Inspired Metamaterials for Stealth Technology Applications	Dr. Saidi Reddy Parne	SERB
48) Thermoconvective Instabilities in a bidisperse porous layer: Linear and Non-linear stability analyses	Dr. Ravi Ragolu	SERB
49) Installation of a Grid-connected Single Phase PV Rooftop System with a capacity of under 1KW at Goa Energy Development Agency (GEDA)	Dr. Sreeraj E.S.	Goa Govt.

50) Modeling and Simulation of Brain - Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy Logic's	Dr. Mallikarjun E.	Goa Govt.
51) Students Attendance System - Dept. of Science & Technology & waste management	Dr. Damodar Reddy Edla	Goa Govt.

The grants received for above projects are disclosed under separate fund under Current Liabilities & Provisions under schedule 4 A 6(b) .

14.5 The Overheads Charges from the Sponsored Projects are distributed as per policy approved 41st & 42nd Board meeting of NIT Goa as below:

a) Institute Income	60%
b) Professional Update Fund	30%
b) Department Development Fund	10%
Total	100%

Note: The Share of Institute Income will be shown as Income in Income & Expenditure for the year under Schedule 14 - Other Income and Professional Update Fund and Department Development Fund will be disclosed as other Funds under Schedule 4 - Current Liabilities & Provisions.

**NATIONAL INSTITUTE OF TECHNOLOGY GOA
SCHEDULES FORMING PART OF ACCOUNTS FOR PERIOD/YEAR ENDED 31ST, MARCH, 2024**

SCHEDULE -25 - CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS

1) CONTINGENT LIABILITIES

1.1 Claims against the Institute not acknowledged as debts - Rs. NIL (As at 31.03.2023 - Rs. NIL)

1.2 In respect of :

- Bank Guarantees given by / on behalf of the Institute - Rs. 1,01,00,000/- Bank Guarantee to Goa Electricity Department towards Electricity Connection at Cuncolim Campus (As at 31.03.2023 - Rs. NIL)
- Letters of Credit opened - Rs. NIL (As at 31.03.2023 - Rs. NIL)
- Bills discounted with banks - Rs. NIL (As at 31.03.2023 - NIL)

1.3 Disputed demands in respect of :

- Income Tax - Rs. NIL (As at 31.03.2023 - Rs. NIL)
- Sales - tax - Rs. NIL (As at 31.03.2023 - Rs. NIL)
- Municipal Taxes - Rs. NIL (As at 31.03.2023 - Rs. NIL)

1.4 In respect of claims from parties for non-execution of orders, but contested by the Institute - Rs. NIL (As at 31.03.2023 - Rs. NIL)

2) CAPITAL COMMITMENTS

Estimated value of contracts remaining to be executed on capital account and not provided for (net of advances) - Rs. NIL (As at 31.03.2023 - Rs. NIL)

3) FIXED ASSETS

The Institute was functioning in the premises of Goa Engineering College till December 2012. The Campus was shifted to the renovated building of Industrial Training Institute (ITI) in the same premises. The renovation of the building was carried out by NIT Goa. The Land at Cuncolim, Goa for permanent campus of Institute is handed over by Govt. of Goa on 15th, July, 2017 and the Institute has shifted to the permanent campus from 01st January 2024. The MOE, Govt. of India has approved the proposal of establishment of permanent campus for National Institute of Technology Goa at the estimate cost of Rs.496.63 crores (Rs.362.63 crores towards Capital, Rs.134.00 crores towards recurring) on the basis of the recommendations of the Standing Finance Committee (SFC) on 01.03.2019. A built up area of 63,764 sqm at the estimated cost of Rs.304.33 crore has been proposed for the construction of permanent campus of NIT Goa for the 1260 students by 2023-2024 having construction cost/sqm as Rs.47727.56 per sqm and Sq Mt per student worked out to be 50.61. Initially keeping in view the very minimal IRG of NIT Goa, the appropriate window of financing the loan under HEFA was proposed under Window IV (grant would be provided for complete servicing of loan through OH 31 for funding construction of permanent campus) subject to concurrence of Department of Expenditure, But Ministry of education vide their letter No.F.No.23-4/2018.TS-III dtd. 07/04/2021 has approved to place NIT Goa under Window II for availing HEFA loan in accordance with HEFA guidelines. HEFA has sanctioned term Loan of Rs.282.39 crores vide their letter Ref. SAN/NITG/250/2019-20 dtd 12.09.2019 and Rs. 61.50 crores vide their letter Ref. No.SAN/NITG/606/2023-24 dtd. 20.11.2023 towards construction of the new campus at Cuncolim. The construction of the New Campus at Cuncolim is handed to CPWD, Goa. The Construction of the boundary wall of the New Campus at Cuncolim is handed over to the State PWD. The expenditure incurred at NIT Goa in transit campus is treated as revenue expenditure and not capitalised as the ownership of campus is not with NIT Goa. The Institute as on 31.03.2024 has incurred following amounts in terms of advances and expenditure in respect of temporary campus :

Sr.No.	Executing Agency	Type of Work	Amount(Rs.)
1	CPWD, Goa	Renovation and conversion of Type III quarter to dispensary and sports room	19,42,501.00
2	CPWD, Goa	Horticulture Work for Hostel Bldg, ITI, NIT Goa	2,82,000.00
3		Providing service connection, compound Lighting, water supply pumps and DLP bus bar trunking and split AC units in computer lab	11,44,500.00
		and water cooler for hostel building of ITI	
4	CPWD, Goa	Providing Split AC units in Conference hall and additional computer Lab at Hostel Bldg. of ITI for NIT	1,58,550.00
5	CPWD, Goa	LT Connection from ITI transformer to NIT	7,00,000.00

6	CPWD, Goa	Repairing structural retrofitting and upgradation of Hostel Bldg. of ITI for NIT at Farnagudi, Goa	1,85,81,083.00
7	CPWD, Goa	Providing & Fixing Sun Control Film to Class Room	4,00,000.00
8	CPWD, Goa	Construction of Canteen at Backside of newly constructed classrooms, interior works in lab, development of porch, corridor area in academic block and construction of toe/planter wall, filling good earth, construction of two wheeler parking, water proofing for NIT Goa	47,26,803.00
9	CPWD, Goa	Construction of Temporary Shed for Workshop and Drawing Class for NIT Goa	30,27,052.00
10	CPWD, Goa	Miscellaneous repair and maintenance works in temporary campus of NIT Goa	6,80,704.00
11	CPWD, Goa	Repairs to kitchen cum dining hall for NIT Goa Hostel Mess in GEC Campus	3,25,558.00
12	CPWD, Goa	Providing sun control film on windows and minor repair in temporary campus of NIT Goa	1,53,415.00
13	CPWD, Goa	Repairs & Painting Work of Hostels of NIT Goa in GEC Campus	57,44,191.00
14	CPWD, Goa	Aluminium Partition Work in room No.19 for sharing room between T&P & Exam-cell for NIT Goa	1,81,907.00
15	CPWD, Goa	Providing additional Power Outlets for Computers in electronics lab	1,00,000.00
16	CPWD, Goa	Construction of 14 No. Classrooms - Civil	3,39,10,000.00
17	CPWD, Goa	Miscellaneous Electrical Works for additional Lab & Office Building	10,50,000.00
18	Goa State PWD	SITC 11 KV/440 Volt AC 50 Hz/315 KVA Substation at NIT Goa	43,90,311.00
19	Goa State PWD	Providing & supplying one coat of Dr. Fixit primer for water proofing treatment at NIT Goa	2,61,010.00
20	Goa State PWD	Various repairs at Hostel 4 of NIT Goa	3,95,000.00
21	Goa State PWD	Construction of Store Room with Galvalium Sheet roof cover for mess of NIT in Boys Hostel IV in GEC Complex	2,38,317.00
22	Goa State PWD	Repairs to sewerage system including providing septic tank and soak pit to the sports Block of NIT Goa	3,27,400.00
23	Goa State PWD	Repairs to Internal wiring including additions & alterations of E type quarter (3 Nos) at NIT Farnagudi	1,65,930.00
24	Goa State PWD	Providing & Fixing Aluminium Partition in Lecture Hall 1A, 2D & 2B	4,97,542.00
25	Shri. Prashant R. Naik	Repair of D5 quarter at NIT Goa	4,97,808.00
26	S.P. Construction	Providing & fixing Aluminium partition in the lecture hall 2A,2C and providing Aluminium partition in the lecture hall 2A, 2C and providing fixing door closure at NIT Goa	4,47,946.00
27	Shri. Prashant R. Naik	Customized Electrification and other Modifications for research laboratories in D5 quarter	4,93,570.00
28	Shri. Prashant R. Naik	Various Repairs to mess of hostel IV of NIT Goa	14,35,146.00
29	Goa State PWD	Electrical Installation to faculty Block for NIT Goa at ITI Building	5,51,951.00
30	Goa State PWD	Repair & Fixing work done of compound wall beside the library block.	13,440.00
31	Shri. M. A. Doddamani	Internal Painting of boys hostel IV of NIT Goa	3,91,820.00
32	Goa State PWD	Various Repairs to mess of hostel IV of NIT Goa	46,056.00
33	Goa State PWD	Renovation of Old ITI building to use as faculty block of NIT Goa	25,14,681.00
34	Goa State PWD	Various repairs such as painting and repairs to roof of civil draftsman hall of ITI to NIT Goa	67,271.00
35	Shri. Prashant R. Naik	Providing & Fixing of Galvalium Sheet roofing over Academic Building of NIT Goa	2,58,485.00
36	Shri. Prashant R. Naik	Laying out of 2 Volleyball Courts near to Hostel D3 & D4 of NIT Goa	2,02,742.00
37	Shri. M. A. Doddamani	Supply and Installation of Tiles at New Faculty block	1,03,125.00
38	Shri. A. G. Savaikar	Providing and Fixing wall in EEE Lab-2 in NIT Complex of NIT Goa	1,77,030.00
39	Goa State PWD	Various Repairs and Renovation to Toilets, painting to rooms on first right wing and barbed wire fencing to boys hostel IV of NIT Goa	21,28,391.00

40	Rehan Computers	Providing Internet Connectivity to Hostels of NIT Goa	1,77,623.00
41	Digital Network Associates	Providing Internet Connectivity to new faculty block of NIT Goa	1,44,452.00
42	Shri. Deepak R. Naik	Repairs works to administrative and Teaching block for NIT Goa	4,69,591.00
43	Goa State PWD	Providing Galvalium sheet roofing & other repairs work for library building of NIT Goa	15,00,000.00
44	Goa State PWD	Providing Galvalium sheet roofing & other repairs work for library building of NIT Goa	8,73,000.00
45	Goa State PWD	Works of repair and painting of Quarter E/D, E/E, E/F in GEC Campus	9,53,732.00
46	Goa State PWD	Bill for repairs for C&D wings of new girls hostel in GEC complex	27,80,347.00
47	Goa State PWD	Bill for repairs and renovation of class room and toilet blocks	13,79,032.00
48	Goa State PWD	Bill for works of providing and fixing concrete pavers around faculty cabins	15,44,366.00
49	Goa State PWD	Bill for works of providing galvalium sheet roofing & other repairs works for library building of NIT Goa	15,20,948.00
50	Goa State PWD	Bill for works of providing aluminium partition work in administrative block-cabin for Deans	9,16,890.00
51	S.P. Construction	Repairing, painting and aluminium partition work in administrative building NIT Goa	4,89,871.00
52	N. M. Enterprises	Repairing, painting work in Director cabin administrative building NIT Goa	4,70,413.00
53	Shri. Deepak R. Naik	Repairs & Maintenance for rehabilitation work for main building of NIT Campus	4,85,257.00
54	T. R. Construction	Repairs of roof of teaching block and false ceiling of NIT Goa	4,05,040.00
55		Providing & Fixing compound gate with(rear side) portion of NIT Goa at Farnagudi	2,71,281.00
	Shri. Prashant R. Naik	Total	10,30,95,059.00

3.1 Additions in the year to Fixed Assets in Schedule 5 include Assets purchased out of Plan Funds (Rs. 260384318/-), Non-Plan Funds (Rs. NIL), Sponsored Projects (Rs.2825373/-), HEFA Loan (Rs.625054060/-) and Library Books and other assets of the value of (Rs. NIL), gifted to the Institution.

3.2 Fixed assets as set out in Schedule 5 do not include assets purchased out of funds of sponsored projects, held and used by the Institution, as project contracts include stipulations that all such assets purchased out of projects funds will remain the property of the sponsors.

The Details of Such Assets are :

Assets	Original Cost as on 01.04.2023	Additions during the year	Total (Rs.)	Notional Depreciation Opening Bal.	Notional Depreciation for the year	Total Notional Depreciation	Total Book Value as on 31.03.2024
Laboratory Equipment	23,66,250.00	1,40,501.00	25,06,751.00	10,67,236.00	2,00,540.00	12,67,776.00	12,38,975.00
Computers & Peripherals	6,75,600.00	20,488.00	6,96,088.00	6,75,595.00	4,098.00	6,79,693.00	16,395.00
Office equipment	-	-	-	-	-	-	-
Furniture, Fixtures & Fittings	-	-	-	-	-	-	-
Total	30,41,850.00	1,60,989.00	32,02,839.00	17,42,831.00	2,04,638.00	19,47,469.00	12,55,370.00

4) LEASE OBLIGATIONS

Future obligations for rentals under finance lease agreements for plant and machinery amounts to Rs. NIL (As at 31.03.2023 - Rs. NIL)

5) FOREIGN CURRENCY TRANSACTIONS

5.1 Value of imports calculated on C.I.F. basis:

- Purchase of finished Goods
- Raw Materials & Components (Including in transit)
- Capital Goods
- Stores, Spares and Consumables

(Amount)
2022-2023

NIL
NIL
NIL
NIL

2023-2024

NIL
NIL
NIL
NIL

5.2 Expenditure in foreign currency:		
a) Travel	NIL	NIL
b) Remittances and interest payment to financial institutions/banks in foreign currency	NIL	NIL
c) Other expenditure:		
- Online Subscription	NIL	NIL
- License Fee for Software/Web Edition	NIL	NIL
- Miscellaneous Expenses (Honorarium to Foreign Experts)	4,30,036.00	5,46,440.00
5.3 Earnings:		
- Value of Exports on FOB basis	NIL	NIL
6) <u>Remunerations to auditors:</u>		
As Auditors:		
- Taxation matters	NIL	NIL
- For Management Services	NIL	NIL
- For Certification	NIL	NIL
Others (Internal Audit/C&AG Audit)	3,36,300.00	5,23,920.00

7) CURRENT ASSETS, LOANS AND ADVANCES AND DEPOSITS

In the opinion of the management, the current assets, loans and advances have a value on realization in the ordinary course of business, equal at least to the aggregate amount shown in the Balance Sheet.

8) SECURED LOANS

The MOE, Govt. of India has approved the proposal of establishment of permanent campus for National Institute of Technology Goa at the estimate cost of Rs.496.63 crores (Rs.362.63 crores towards Capital, Rs.134.00 crores towards recurring) on the basis of the recommendations of the Standing Finance Committee (SFC) on 01.03.2019. A built up area of 63,764 sqm at the estimated cost of Rs.304.33 crore has been proposed for the construction of permanent campus of NIT Goa for the 1260 students by 2023-2024 having construction cost/sqm as Rs.47727.56 per sqm and Sq Mt per student worked out to be 50.61. Initially keeping in view the very minimal IRG of NIT Goa, the appropriate window of financing the loan under HEFA was proposed under Window IV (grant would be provided for complete servicing of loan through OH 31 for funding construction of permanent campuses) subject to concurrence of Department of Expenditure. But Ministry of Education vide their letter No.F.No.23-4/2018.TS-III dtd. 07/04/2021 has approved to place NIT Goa under Window II for availing HEFA loan in accordance with HEFA guidelines. HEFA has sanctioned term Loan of Rs.282.39 crores vide their letter Ref. SAN/NITG/250/2019-20 dtd 12.09.2019 and Rs. 61.50 crores vide their letter Ref. No.SAN/NITG/606/2023-24 dtd. 20.11.2023 towards construction of the new campus at Cuncolim. The construction of the New Campus at Cuncolim is handed to CPWD, Goa. The Construction of the boundary wall of the New Campus at Cuncolim is handed over to the State PWD.

NIT Goa has availed Rs.292.02 crores of HEFA Loan from Canara Bank till 31.03.2024 for the Construction of New Campus at Cuncolim. NIT Goa is placed under Window II mode of Financing where NIT Goa has to bear 25% of repayment of Principal amount and 75% of principal repayment is borne by Ministry of Education. The entire interest on HEFA Loan is borne by Ministry of Education. The HEFA Loan being long term loan is separately disclosed under Schedule 3 - Secured Loans in the Balancesheet and accordingly the subsequent schedules are rearranged accordingly.

Internal Auditors Note:

The NIT Goa has taken HEFA Loan for the construction of new campus at Cuncolim. As per the Accounting Standard - 16 if any loan has been taken for creation of Capital Assets and utilised for that purpose, interest paid on that specified loan has to be capitalised as capital expenditure till the date of completion and should be added with the cost of assets. As per the financial statement prepared by the management we have noticed that the construction work of New campus building are still in progress and the management has claimed the interest paid on HEFA loan as revenue expenditure during the year considered as current year expense.

9) NIT Goa has refunded the interest on Grants refunded to MOE from the F.Y-2022-23 of Rs.1,61,47,462/- to MOE on 12.02.2024. Also Grants lapsed under TSA for the F.Y-2023-24 as on 31.03.2024 is Rs.61,229/- under General Head OH-31 & Rs.40,220/- under Salaries Head OH-36 respectively.

10) NIT Goa has added back the provision of retirement benefits of Rs.1,49,09,794/- is not considered as expenditure under Salaries Head -36 as Grants to the extent utilised for the F.Y-2023-24.

11) The HEFA loan principal payment (2 Installments) of Rs.21,17,92,500/- (75% of MOE Share) is shown to the extent utilised from Grants and equal amount is shown as additions to the Capital Fund.

12) The HEFA loan principal payment (2 Installments) of Rs.7,05,97,500/- (25% of NIT Goa Share) is shown to the extent utilised from Corpus Fund and equal amount is shown as additions to the Capital Fund.

13) The details of balances in Saving Bank Accounts, Current Accounts and Fixed Deposit Accounts with Banks are enclosed as annexure 'A' to the Schedule of Current Assets.

14) In absence of employees whose subscriptions and matching contributions have been retained and managed by the Institute (pending allotment of PRA numbers), Balancesheet, Income & Expenditure A/c and Receipt and Payment A/c of NPS Tier-I have not been prepared.

15) Additional Information for Stakeholders :

i) Details of No. of Students

Sr. no.	Stream	I year	IIInd Year	IIIrd Year	IVth Year	Vth Year	VI th Year	VII th Year	2023-24	2022-23
1	B.Tech	171	173	175	181	-	-	-	700	636
2	B.Tech DASA	8	7	3	6	-	-	-	24	22
3	M.Tech	32	33	-	-	-	-	-	65	111
4	Ph. D	25	31	5	40	16	12	6	135	105
5	Ph. D (Visvesvaraya)	-	-	-	-	-	-	-	-	0
	Total	236	244	183	227	16			924	874

ii) No. of Professors (including Contract Faculty)

Sr. no.	Stream	2023-24	2022-23
1	CSE	10	9
2	H&S	12	12
3	ECE	11	11
4	EEE	8	9
5	CIVIL	8	6
6	ME	9	9
	Total	58	56

iii) Collection on account of Building fund and expenditure thereof - NIL

iv) Collection for Sports activities and expenditure thereof		Amount (Rs.)
Sr. no.	Particulars	
1	Collection for Sports Activities	
a	Sponsorship	-
	Total Collection towards Sports Activities	-
2	Expenditure for Sport Activities	
a	Expenses for various Sports activities	7,62,863.00
	Total Expenditure towards Sports Activities	7,62,863.00
v) Collection for co-curricular activities and expenditure thereof		Amount (Rs.)
Sr. no.	Particulars	
1	Collection for Co-curricular activities	
a	Sponsorship Received	-
	Total Collection towards Co-curricular activities	-
2	Expenditure for Co-curricular activities	
a	Expenses towards 132nd Birth Anniversary of Dr. B. R. Ambedkar	3,485.00
b	Expenses towards Amrit Kaal-Vimarsh: Viksit Bharat@2047	3,190.00
c	Expenses towards 9th International Yoga day celebration	13,702.00
d	Expenses towards Independence Day Celebration / Har Ghar Tiranga	24,050.00
e	Expenses towards Gudipadwa & Ugadi celebration	1,664.00
f	Expenses towards Akshay Urja Diwas	4,241.00
g	Expenses towards IEEE CIS national level Hackathon in MNIT Jaipur from 07th sept to 8 sept 2023	15,502.00
h	Expenses towards Elocution Competition held at Goa Shipyard Ltd	2,800.00
i	Expenses towards OpenHack 2024 National Level Hackathon conducted by IISc Bangalore	2,250.00
j	Expenses towards National Level AI based Hackathon at TechFest 2023 which was held at IIT Bombay	16,186.00
k	Expenses towards celebration of Ganesh Chaturthi	33,234.00
l	Expenses towards BITS Spree 2024	38,600.00
m	Expenses towards Tree plantation & Swachha Bharat Abhiyan (SBA) Activities	44,886.00
n	Expenses towards Engineers day celebration	7,641.00
o	Expenses towards Janmashtami Celebration	5,223.00
p	Expenses towards Inaugural of Indian Mobile Congress 2023 and Award of 5G Labs to NIT Goa from Department of Telecommunication	6,862.00
q	Expenses towards Hindi Pakhwada 2023	42,000.00
r	Expenses towards Intra-College Hackathon organized by coding club of NIT Goa	6,000.00
s	Expenses towards Diwali Celebration	5,215.00
t	Expenses towards Navratri Celebration	5,554.00
u	Expenses towards Inaugural events of the (Electric Brushstrokes) Art Club	2,532.00
v	Expenses towards Saraswati Pooja	20,015.00
w	Expenses towards Republic Day	33,087.00
x	Expenses towards Mera Phla vote Desh Ke liye Campaign	4,118.00
y	Expenses towards Viksit Bharat programme	30,916.00

u	Expenses towards Students orientation programme	17,771.00
	Total Expenditure towards Co-curricular activities	3,90,724.00

v) Collection on account of development charges and expenditure thereon - NIL

vii) Collection for medical expenses and expenditure thereon - NIL

viii) Salary structure of teachers

Sl. No.	Name of the Employees	Designation	EC	Pay Level	7 CPC Pay
1	Dr. Omprakash Jaiswal	Director	1170001	225000 [Fixed]	225000
2	Dr. Saidi Reddy Parne	Associate Professor	1130009	13A2 - Cell-7	166700
3	Dr. Damodar Reddy Edla	Associate Professor	1130011	13A2 - Cell-5	157100
4	Dr. Suresh Mikkili	Associate Professor	1130012	13A2 - Cell-5	157100
5	Dr. Velavan Kathirvelu	Associate Professor	1130013	13A2 - Cell-7	166700
6	Dr. Sarani Ghosal Mondal	Associate Professor	1130015	13A2 - Cell-7	166700
7	Dr. Veena Thenkanidiyoor	Associate Professor	1130016	13A2 - Cell-7	166700
8	Dr. Ragglu Ravi	Associate Professor	1130024	13A2 - Cell-3	148100
9	Dr. Vasantha M.H. Rao	Associate Professor	1130032	13A2 - Cell-7	166542
10	Dr. Veerakumar T	Associate Professor	1130033	13A2 - Cell-7	166700
11	Dr. Raviprasad K J	Assistant Professor	1130034	13A2 - Cell-3	148100
12	Dr. Anirban Chatterjee	Associate Professor	1130035	13A2 - Cell-3	148100
13	Dr. Nithin Kumar Y.B.	Associate Professor	1130036	13A2 - Cell-5	157100
14	Dr. Sree Raj E.S	Associate Professor	1140041	13A2 - Cell-3	148100
15	Dr. Keshavamurthy B.N.	Associate Professor	1140043	13A2 - Cell-7	166700
16	Dr. S. Mini	Associate Professor	1140045	13A2 - Cell-3	148100
17	Dr. Pravati Swain	Assistant Professor	1140064	12 - Cell-7	121000
18	Dr. Venkatanaresbhabu Kuppli	Assistant Professor	1140065	12 - Cell-7	121000
19	Dr. Trilochan Panigrahi	Associate Professor	1140066	13A2 - Cell-7	166700
20	Dr. Rahulkar Amol Deodas	Associate Professor	1140067	13A2 - Cell-7	166700
21	Dr. Modi Chirag Navinchandra	Associate Professor	1140068	13A2 - Cell-3	148100
22	Dr. C. Vyjayanthi	Associate Professor	1140069	13A2 - Cell-7	166700
23	Dr. Shivnarayan Patidar	Assistant Professor	1150071	12 - Cell-7	121000
24	Dr. Prashanth G. R.	Associate Professor	1150072	13A2 - Cell-7	166700
25	Dr. Lalit Indu Giri	Assistant Professor	1150073	12 - Cell-5	114100
26	Dr. Soumitra Das	Associate Professor	1150074	13A2 - Cell-3	148100
27	Dr. L. Shangerganesh	Assistant Professor	1160083	12 - Cell-7	121000
28	Dr. Pragati Patel	Assistant Professor	1160085	12 - Cell-5	91280
29	Dr. E. Mallikarjun	Assistant Professor	1160086	12 - Cell-3	107600
30	Dr. Sunil Kumar A.	Assistant Professor	1160087	12 - Cell-5	114100
31	Dr. B. Santhi	Assistant Professor	1200088	11 - Cell-5	77600
32	Dr. Harkumar Mohanan	Assistant Professor	1200090	11 - Cell-5	77600
33	Dr. Prasenjit Dey	Assistant Professor	1200091	11 - Cell-5	77600
34	Dr. Lokesh Kumar Bramhane	Assistant Professor	1210106	11 - Cell-5	77600

16) The Student Security Deposits include Rs. 880000/- of Final year M.Tech & B.Tech Students which will be refunded to students within 12 months from the balancesheet date.

Sr.No.	Stream	No. of Students	Deposit Amt
1	M.Tech	33	1,32,000.00
2	B.Tech	187	7,48,000.00
	Total	220	8,80,000.00

17) Corresponding figure for the As at 31.03.2023 have been regrouped / re-arranged, wherever necessary.

18) Schedules 1 to 25 are annexed to and form an integral part of the Balance Sheet as at 31ST, MARCH, 2024 and the Income and Expenditure for the year ended on that date.

19) The previous figures of Receipts & Payments Account has been regrouped wherever necessary.

FOR AND ON BEHALF OF THE BOARD

[Signature]
DIRECTOR

[Signature]
REGISTRAR

Director

Registrar

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा

National Institute of Technology Goa

National Institute of Technology Goa
PLACE: CUNCOLIM, GOA

DATE: 26-06-2024

IN TERMS OF OUR INTERNAL AUDIT REPORT

FOR R.K. PIKALE AND ASSOCIATES

CHARTERED ACCOUNTANTS

FRN: 427641W

[Signature]
CA YASH KUMAR PANTWAL
PARTNER

MEM NO. 438038



SUB SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST, MARCH, 2024

(Amount - Rs.)

Sub Schedule 1: Deposit from Students	As at 31.03.2024	As at 31.03.2023
Deposits from Students		
Students Fee Refundable (B-Tech)	1,300.00	17,14,868.00
DASA Tuition Fees Refundable	-	-
Students Hostel Fee Refundable(B.Tech)	2,06,910.00	91,160.00
Student Fees Refundable (M-Tech)	60,600.00	-
Students Fees Refundable (PHD)	2,000.00	-
Students Fines Refundable	2,420.00	-
Group Insurance Scheme	13,02,354.00	11,44,800.00
Security Deposit of Students		
B Tech Security Deposit Refundable	35,28,000.00	33,56,000.00
M-Tech Security Deposit Refundable	3,45,000.00	3,73,000.00
PHD Security Deposit Refundable	5,80,000.00	5,04,000.00
Hostel Caution Money (B.Tech)	30,00,000.00	-
Hostel Caution Money (M.Tech)	1,45,000.00	-
Mess Deposit		
Mess Adv.	1,93,46,475.00	1,32,53,186.00
Alumini Association Contribution		
Alumni Association Fees	21,36,167.00	18,90,167.00
SAC(Student Activity Centre)Fee	51,35,391.99	40,43,495.99
M Tech Tuition Advance Fees	6,43,711.00	10,31,622.00
PhD Tuition Advance Fees	3,78,808.00	4,33,807.00
B Tech Tuition Advance Fees	78,21,078.00	1,46,60,259.00
Advance Hostel Fees (B.Tech)	19,73,320.00	-
Advance Hostel Fees (M.Tech)	94,921.00	-
Hall Establishment Charges	2,65,85,170.34	2,08,35,680.34
TOTAL	7,32,88,626.33	6,33,32,045.33

Sub Schedule 2: Sundry Creditors for Goods & Services	As at 31.03.2024	As at 31.03.2023
For Goods & Services		
Ace Designers Ltd.	17,69,000.00	-
Aditya Caterers	4,704.00	-
A. F. Enterprises	-	2,67,894.00
AGMATEL INDIA Pvt. Ltd.	15,91,478.00	-
Allstar Welding Machines Private Limited	7,69,419.00	-
Alpha Ink Pvt Ltd Goa Unit	72,000.00	-
ANIMESH CHATTERJEE-VNIT NAGPUR	40,500.00	-
AO (Cash) BSNL GOA	-	9,735.00
Apollo Pharmacies Ltd	10,514.00	26,635.00
Arjun Travels	1,32,837.00	-
Balmer Lawrie and Co. Ltd	1,13,231.00	-
Best Engineering Aids & Consultancies Pvt. Ltd	5,32,475.00	-
Central Cargo Packers and Movers	(2,13,429.00)	-
Choudhary Enterprises	-	2,832.00
Choudhary Marketing	21,730.00	-
Director V.N.I.T. Nagpur	8,04,404.00	-
Director V.N.I.T Nagpur GPF Account	-	-
Dr. Abdul Azeez Erumban	22,924.00	-
Dr.Enid De Sa Miranda	4,500.00	-
Dr. K A Geetha	-	1,800.00
Dr. Masotti Diego	22,842.00	-
Dr. Prasenjit Dey - Payable	-	3,039.00
Dr. Raji Sundarajan	22,566.00	22,566.00
Dr. Vigna Kumaran Ramachandaramurthy	22,842.00	-
EE Div W.D.IX (PHE) PWD FATORDA (WATER CHARGES)	2,81,270.00	-



Entuple Technologies Pvt. Ltd.	16,33,800.00	-
Equiptronics	4,93,900.00	-
Goa College of Engineering	13,340.00	-
GUARDING FORCE SECURITY SERVICE	23,23,756.00	-
Hotel Royal Punjab	-	5,172.00
Hydraulic & Engineering Instruments	38,34,230.00	-
IIT Dharwad	-	1,66,455.00
JNCASR-Bangalore	-	91,841.00
Kuber Healthfood & Allied Services Pvt Ltd	24,32,367.00	-
Laxmi Sagar Hospitality	2,65,185.00	-
Machine Tools Trader (Madras)	4,25,975.00	-
Madhusudhan Enterprises	-	19,153.00
Mistri Anilkumar Shersinh	-	1,26,630.00
Mr. Milind Shantanu Gauns	38,600.00	-
Mr. Rajesh Shetty	23,184.00	-
Multitech Systems	68,516.00	-
Nisithkumar Sahadev Datta	-	4,500.00
NIT Jamshedpur	-	5,30,176.00
NITK Surathkal	-	5,97,573.00
NIT Warangal	-	5,18,307.00
N S GLASS & ALUMINIUM DEALER	98,910.00	-
Om Traders	-	1,57,300.00
Om Vikas	-	1,800.00
O P Gupta & Company	23,250.00	-
O/s Goa Intelligence Security Service	10,11,381.00	9,15,227.00
O/s. Ideal Catering Services	-	15,99,115.00
O/s Shubhalakshmi Motors	-	97,608.00
O/s. Sree Vinayaka Enterprises	24,50,568.00	14,35,060.00
Prithvi IT Products Private Limited	91,898.00	-
Prof.K G Guptha-GEC	4,500.00	-
Prof. Linga Reddy Cenkeramaddi	22,555.00	-
Ramdev Plastic Industries	58,910.00	-
Raut Scientific and General Traders	-	72,688.00
R.K.Pikale & Associates	1,65,240.00	2,48,400.00
Sam Technologies	60,33,253.00	-
San Instruments	4,89,852.00	-
Sanjay Swami	-	3,600.00
Shailesh Vinayak Naik	-	4,508.00
Sharayu Automobiles	-	49,222.00
Shree Shantadurga Petroleum	1,09,356.00	-
SMS OFFSET PRINTERS	-	2,18,131.00
Sri Venkateshwara	13,800.00	-
STAR BED MART	12,000.00	-
Suresh Baburao Tilve	1,436.00	2,130.00
TransValue Consultants	14,160.00	14,160.00
Triple S Enterprises	19,900.00	-
VDELIVER ENTERPRISES - PONDA	54,775.00	28,364.00
VGON Security and Inte	39,477.00	-
Bihar State Education Finance Corporation	-	4,34,942.00
Project Creditors		
Gen Next	-	-
Nimbus Enterprises	-	-
Remedics Global	-	-
San Instruments	-	-
TOTAL	2,82,93,881.00	76,76,563.00



Sub Schedule 3: Deposits Others	As at 31.03.2024	As at 31.03.2023
Security Deposits		
EMD - Micron Systems	7,800.00	7,800.00
EMD- SAHIL S NAIK	13,632.00	-
SD Advanced Electronic Systems	2,105.00	2,105.00
SD - Amonkar Enterprises	8,000.00	8,000.00
Sd CMM Arena Retail Pvt. Ltd.	3,599.00	3,599.00
SD Coreel Technologies	7,301.00	7,301.00
SD D. B. Solutions	15,000.00	15,000.00
SD - Direct Electric Pvt. Ltd.	12,000.00	12,000.00
SD Electrovision	1,000.00	1,000.00
SD Empower Technology	30,000.00	30,000.00
SD Goa Intelligence Security Services	4,80,000.00	4,80,000.00
SD Ideal Catering Services	25,000.00	1,30,000.00
Sd Labindia	14,560.00	14,560.00
SD - Nirakar Engineering Pvt. Ltd.	6,400.00	6,400.00
SD N. M. Enterprises	10,000.00	10,000.00
SD Olympus Refrigeration Inc.	50,000.00	50,000.00
SD - Power Research & Development Consultants Pvt. Ltd.	15,000.00	15,000.00
SD Prashant R. Naik	8,500.00	8,500.00
SD San Instruments	30,193.00	30,193.00
SD - Shanta Sound	10,000.00	10,000.00
SD Shree Vinayaka Enterprises	12,968.00	12,968.00
SD Smartsoft	16,300.00	16,300.00
SD S.P. Construction	4,000.00	4,000.00
SD Thunder Force Pvt. Ltd.	10,000.00	10,000.00
Sd Trillion Energies	5,500.00	5,500.00
SD Turnitin India Private Limited	-	16,755.00
Performance Gurantee of Supplier/Contractor		
PG - Adroitec Information System Pvt. Ltd.	15,761.00	15,761.00
PG- Allstar Welding Machines Private Limited	40,710.00	-
PG Apex Book Services	3,594.00	-
PG - Apollo Pharmacies Limited Goa	50,000.00	50,000.00
PG-Atlantic Publishers & Distributors	5,250.00	-
PG - Best Engineering Aids & Consultancies Pvt. Ltd	28,025.00	-
PG BKSP Enterprises	5,310.00	5,310.00
PG Capital Books Pvt Ltd	3,148.00	-
PG - Deepak R. Naik	19,411.00	19,411.00
PG -Detech Devices Private Limited	10,586.00	10,586.00
PG Digital Network Associates	7,223.00	7,223.00
PG Entuple Technologies Pvt. Ltd.	6,60,498.00	4,12,698.00
PG - Guarding Force Security Services	5,00,000.00	-
PG - Hydrodrops Aqua Solutions Pvt. Ltd.	90,000.00	-
PG - JSK Lab Instruments	10,500.00	10,500.00
PG Kalika Enterprises	9,784.00	9,784.00
PG - Machine Tools Trader (Madras)	22,950.00	-
PG Mastersoft ERP Solutions Pvt. Ltd.	5,19,011.00	5,19,011.00
PG Narendra Publishing House	1,424.00	-
PG - Nirakar Engineering Pvt. Ltd.	34,375.00	34,375.00
PG - N. M. Enterprises	23,521.00	23,521.00
PG Olumpus Refrigeration Inc	2,26,710.00	2,26,710.00
PG Power Research & Development Consultants Pvt. Ltd.	35,727.00	35,727.00
PG Prashant R Naik	11,504.00	19,642.00
PG Rehan Computers	14,221.00	14,221.00
PG- SAHIL S NAIK	30,702.00	-
PG San Instruments	42,300.00	16,050.00
PG -S H Enterprises	10,060.00	10,060.00



PG - Shree Chemicals	9,920.00	9,920.00
PG Shubhalakshmi Motors	2,00,000.00	2,00,000.00
PG S. S. Traders	8,376.00	8,376.00
PG Technical Bureau India Pvt Ltd	2,905.00	-
PG Technology Excellence Group	9,351.00	9,351.00
PG - Techser Power Solutions Pvt. Ltd.	5,487.00	-
PG - Total Pest Control Mangalore	21,546.00	21,546.00
PG- Turnitin India Private Limited	30,988.00	-
Project Performance Gurantee of Supplier/Contractor		
PG - Applied Realtech Systems Pvt. Ltd.	-	1,24,105.00
PG - Computer Clinic	-	-
PG - Sense Techno Solution	6,521.00	6,521.00
PG -Direct Electric Private Limited	14,616.00	14,616.00
PG - Pragna Microdesigns	8,138.00	8,138.00
TOTAL	35,49,011.00	27,50,144.00

Sub Schedule 4: Statutory Liabilities	As at 31.03.2024	As at 31.03.2023
PF Subscription	-	-
CGST Output @9%	5,760.00	1,080.00
CGST TDS @ 1%	33,663.00	96,397.00
IGST RCM Payables	2,27,271.00	-
IGST TDS	2,91,079.00	91,108.00
SGST Output @9%	5,760.00	1,080.00
SGST TDS @ 1%	33,663.00	96,397.00
Tax(IT/SC/EC) Professional U/s.194J	59,256.00	31,900.00
Tax (IT/SC/EC)Contractor	4,16,334.00	2,53,764.00
Tax (IT/SC/EC)Rent	-	-
TDS(IT)Staff	24,675.00	9,143.00
Project Statutory Liabilities		
IGST TDS @ 2%	-	-
TDS U/s 194C	3,385.00	-
Tax Deducted at Source -194J	11,000.00	15,200.00
TOTAL	11,11,846.00	5,96,069.00

SUB SCHEDULE 5: Other Current Liabilities	As at 31.03.2024	As at 31.03.2023
Salaries		
O/s Salary & Wages	1,25,37,182.00	1,15,27,551.00
Other funds		
CCMT Expenses Advance Received	63,940.00	63,940.00
DASA Admission Expenses Reimbursement	-	21,000.00
CSAB Expenses Advance Received	1,19,762.00	4,12,912.00
Projects Funds		
Overhead-Faculty & Staff Development Fund	1,59,000.00	5,64,550.00
Overhead - Department Development Fund	58,883.00	-
Overhead-Professional Update Fund	1,70,491.00	-
Other liabilities		
O/s Electricity Charges	8,71,802.00	2,46,872.00
O/s Hospitality Expenses	-	-
O/s Lab Consumable	-	-
O/s Lien Contribution of Director	-	-
O/s News Paper & Periodicals	-	-
O/s NPS Matching Share	11,80,750.00	11,47,260.00
O/s Patent Charges	-	-
O/s Repair & Maint.	-	-
O/s. Staff Telephone Charges	-	-
O/s Stipend (M Tech & Phd)	-	-
O/s Telephone Charges	-	-
O/s SAC Expenses	-	-



O/s Postage	-	965.00
O/s Water Charges	-	-
Staff Payables		
Dr.C. Vyjayanthi -Payable	-	43,256.00
Dr. Keshavamurthy B. N. -Payable	-	11,523.00
Dr. Modi Chirag Navinchandra - Payable	27,107.00	33,628.00
Dr. Pravati Swain -Payable	-	4,615.00
Dr. Purushothama B. R. -Payable	-	4,693.00
Dr. Ragoju Ravi - Payable	-	13,519.00
Dr.Sarani Ghosal Mondal- Payable	-	5,533.00
Dr. Shivnarayan Patidar - Payable	23,936.00	5,400.00
Dr. Soumitra Das - Payable	-	12,685.00
Dr. Sunil Kumar A - Payable	-	3,687.00
Dr. Trilochan Panigrahi -Payable	-	47,480.00
Dr. T. Veerakumar Payable	-	2,500.00
Dr. Vasantha M.H. Payable	-	11,090.00
Dr. Veena Thenkanidiyoor -Payable	-	4,195.00
Dr. Venkatanaresbhabu K - Payable	-	9,470.00
Mr. Anand G - Payable	-	1,432.00
Students Payable		
PhD Contingency - Payable	1,42,161.00	1,54,429.00
Staff Payables - Projects		
Pragati K, Payable	1,800.00	-
Students Payable - Projects		
Ms. Ruchika -Payable	900.00	-
TOTAL	1,53,57,714.00	1,43,54,185.00

SUB SCHEDULE 6: PROVISIONS	As at 31.03.2024	As at 31.03.2023
O/s Audit Fee	-	-
TOTAL	-	-

SUB SCHEDULE 7: LOANS & ADVANCES	As at 31.03.2024	As at 31.03.2023
1. Advances to employees: (Non - Interest bearing)		
a) Others		
Imprest Advance		
Dr. Veerakumar T., Asst. Prof. - Emp. No.-1130033	19,176.00	19,176.00
Suresh Mikkil Asst. Prof.	-	50,000.00
2. Advances and other amounts receivable		
a) On Capital Account		
CPWD, Goa - New Campus	-	-
CPWD, Goa - New Campus - HEFA Loan	-	5,51,64,881.00
CPWD, Goa - New Campus Furniture - HEFA Loan	1,94,05,678.00	-
CPWD, Goa - New Campus - HEFA Loan (61.50 Crores)	4,92,79,826.00	-
The Executive Engineer PWD DIV VIII Margao	33,33,848.00	33,33,848.00
Goa State PWD	-	-
b) to Suppliers		
CPWD, Goa	32,000.00	-
c) Others		
Imprest Advance/Other Advance		
Saavyas NIT Goa	-	-
Income Accrued		
Accrued Interest on Investment (Canara Bank)	52,36,463.00	41,44,449.00
Accrued Interest on Investment (Union Bank of India)	3,16,30,314.00	2,87,88,949.70
Prepaid Expenses	-	-
Grants Receivable		
MHRD (Plan Grant Receivable)	-	-



Claims Receivable		
Payu Money-Tuition Fees	54,073.56	65,873.56
Payu Money	11,128.93	-
Indian Council for Cultural Relations (ICCR)	(25,200.00)	(4,000.00)
Payu Moneybiz-DASA	2,03,173.00	78,173.00
Payu Money-Hostel	44,263.88	2,513.88
Students Hostel Fee Receivable	3,375.00	1,875.00
Projects Claim Receivable		
Office of the Executive Engineer and Senior Manager (Civil)-II, CPWD	-	3,75,240.00
Tax Deducted at Source A.Y-2022-23	79,721.20	79,721.20
Tax Deducted at Source A.Y-2024-25	7,505.00	-
TOTAL	10,93,15,345.57	9,21,00,700.34

Sub Schedule 8: Deposits (Assets)	As at 31.03.2024	As at 31.03.2023
Security Deposit to Div X - Electricity Deposit	5,00,000.00	5,00,000.00
Security Deposit of Director Residence -Rajan Shridhar Prabhu	75,000.00	-
TOTAL	5,75,000.00	5,00,000.00



**NATIONAL INSTITUTE OF TECHNOLOGY GOA
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST, MARCH, 2024**

RECEIPTS	As at 31.03.2024	As at 31.03.2023	PAYMENTS	As at 31.03.2024	As at 31.03.2023
I. Opening Balances (As per RP Schedule 1)			I. Expenses (As per RP Schedule 12)		
a) Cash in Hand	-	-	a) Establishment Expenses	14,55,92,160.00	13,43,69,091.00
b) Bank Balances	-	-	b) Academic Expenses	2,00,27,147.00	2,16,14,339.00
i) in current accounts	70,12,18,803.00	73,64,83,133.00	c) Administrative Expenses	41,03,952.28	28,77,742.21
ii) in deposit accounts	4,21,19,450.25	17,75,49,580.27	d) Transportation Expenses	3,300.00	-
iii) in savings accounts	-	-	e) Repairs & Maintenance	39,930.00	2,500.00
II. Grant Received (As per RP Schedule 2)			f) Prior Period Expenses	-	-
a) From Govt. of India	25,00,00,000.00	-	II. Payments made against Earmarked/Endowment Funds (As per RP Schedule 13)	-	-
Plan Grant - Capital	55,83,21,955.00	52,97,11,115.00	III. Payments against Sponsored Projects/Schemes (As per RP Schedule 14)	1,04,91,642.00	53,11,975.20
Plan Grant - Revenue	-	-	IV. Payments against Sponsored Fellowships/Scholarships (As per RP Schedule 15)	24,10,696.00	9,02,485.00
b) From State Govt.	-	-	V. Investments and Deposits made	-	-
c) From other sources	-	-	a) Out of Earmarked/Endowments funds	-	-
(Grants for Capital & revenue expenditure to be shown separately if available)	-	-	b) Out of own funds (Investments- Others)	-	-
III. Academic Receipts (As per RP Schedule 3)	12,42,02,676.27	12,00,58,019.76	VI. Term Deposits with Scheduled Banks	-	-
IV. Receipts against Earmarked/Endowment Funds (As per RP Schedule 4)	48,000.00	-	VII. Expenditure on Fixed Assets and Capital Works - in- Progress (As per RP Schedule 16)	-	-
V. Receipts against Sponsored Projects/Schemes (As per RP Schedule 5)	1,41,13,691.00	47,46,937.80	a) Fixed assets	-	-
VI. Receipts against sponsored Fellowships and Scholarships (As per RP Schedule 6)	26,37,746.45	8,49,850.00	b) Capital Works-in-progress	10,01,630.00	-
VII. Income on Investments from	-	-	VIII. Other Payments including statutory Payments (As per RP Schedule 17)	71,28,05,388.00	66,26,87,357.35
a) Earmarked/Endowment Funds	-	-	IX. Refunds of Grants (As per RP Schedule 18)	1,01,449.00	4,97,21,500.65
b) Other Investments	-	-	a) Plan Grant -Revenue	-	-
VIII. Interest Received (As per RP Schedule 7)	-	-	b) Plan Grant -Capital	1,61,47,462.00	2,00,27,164.00
a) Bank Deposits	4,12,77,346.00	3,09,33,019.00	c) Interest refunded to MOE on Plan Grants	77,99,842.00	1,06,28,154.00
b) Loans and Advances	18,82,145.00	13,12,924.00	XI. Other Payments	-	-
c) Saving Bank Accounts	-	-	XII. Closing balances (As per RP Schedule 20)	-	-
IX. Investments Encashed	-	-	a) Cash in hand	-	-
X. Term Deposits with Scheduled Banks Encashed	-	-	b) Bank Balances	-	-
XI. Other Income (including Prior Period Income) (As per RP Schedule 8)	16,23,426.93	9,134.83	i) in current accounts	-	-
XII. Deposits and Advances (As per RP Schedule 9)	1,82,45,351.00	57,60,322.00	ii) in deposit accounts	66,31,29,219.00	70,12,18,803.00
XIII. Miscellaneous Receipts including Statutory Receipts (As per RP Schedule 10)	4,95,02,513.00	4,40,66,526.00	iii) in savings accounts	22,15,38,286.82	4,21,19,450.25
XIV. Any other receipts - Misc (As per RP Schedule 11)	-	-	TOTAL	1,80,51,93,103.90	1,65,14,80,561.66

FOR AND ON BEHALF OF THE BOARD

16 June 2024
REGISTRAR
26/6

DIRECTOR

निदेशक

Director

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा
National Institute of Technology Goa

कुलसचिव
Registrar
राष्ट्रीय प्रौद्योगिकी संस्थान गोवा
National Institute of Technology Goa

PLACE: CUNCOLIM, GOA

DATE: 26-06-2024

IN TERMS OF OUR INTERNAL AUDIT REPORT
FOR R.K. PHALE AND ASSOCIATES
CHARTERED ACCOUNTANTS
FRN-127641W





***Separate Audit
Report
2023-2024***



भारतीय लेखापरीक्षा और लेखा विभाग
INDIAN AUDIT & ACCOUNTS DEPARTMENT
प्रधान निदेशक लेखापरीक्षा (केन्द्रीय) का कार्यालय, मुंबई
O/o the PRINCIPAL DIRECTOR OF AUDIT (CENTRAL), MUMBAI
C-25, Audit Bhavan, Bandra Kurla Complex, Mumbai- 400 051 e-mail –
pdacentralmumbai@cag.gov.in



क्र. प्र.नि.ले.प.(के.)/ना.एवं.स्वा.नि./एस.ए.आर/2023-24/ रा.प्रौ.सं.गोवा/

दिनांक:

सेवा में,

सचिव, भारत सरकार
शिक्षा मंत्रालय,
उच्च शिक्षा विभाग, शास्त्री भवन,
नई दिल्ली – 110 001.

विषय – वर्ष 2023-24 के लिए, राष्ट्रीय प्रौद्योगिकी संस्थान, गोवा, के लेखों पर पृथक लेखापरीक्षा प्रतिवेदन।


महोदय,

31 मार्च 2024 को समाप्त वर्ष के लिए राष्ट्रीय प्रौद्योगिकी संस्थान, गोवा, के लेखों पर संशोधित पृथक लेखापरीक्षा प्रतिवेदन निम्नलिखित दस्तावेजों के साथ संसद के दोनों सदनों की पटल पर प्रस्तुत करने हेतु अद्योषित किया जा रहा है।

- वर्ष 2023-24 के लिए वार्षिक लेखे
 - अनुबंधक सहित लेखापरीक्षा प्रतिवेदन-सह-लेखापरीक्षा प्रमाण पत्र
- कृपया संसद में प्रस्तुत दस्तावेजों की प्रतियां एवं सदनों में उनकी प्रस्तुति की तिथि के सम्बन्ध में सूचना इस कार्यालय को अद्योषित की जाए। कृपया पत्र की प्राप्ति की सूचना दे।
 - यह पत्र प्रधान निदेशक लेखा परीक्षा (केन्द्रीय) के अनुमोदन से जारी किया जा रहा है।

संलग्नक: यथोपरि

भवदीय,



निदेशक/ना.एवं.स्वा. नि.

क्र. प्र.नि.ले.प.(के.)/ना.एवं.स्वा.नि./एस.ए.आर/2023-24/ रा.प्रौ.सं.गोवा/ 742

दिनांक: 10/12/2024

निदेशक,

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा
कोट्टामोल पठार, कुन्कोलिम नगर क्षेत्र,
सालसेटे तालुका, दक्षिण गोवा जिला, गोवा - 403703

अनुबंधक के साथ संशोधित प्रथक लेखापरीक्षा प्रतिवेदन की एक प्रति जानकारी एवं आवश्यक कार्यवाही हेतु अद्योषित की जा रही है। संसद में दस्तावेजों की प्रस्तुति की तिथि एवं उनकी प्रतिलिपि इस कार्यालय को प्रस्तुत की जाए।

निदेशक/ना.एवं.स्वा. नि.

Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of the National Institute of Technology (NIT), Goa for the year ended 31 March 2024.

We have audited the attached Balance Sheet of the National Institute of Technology Goa, ('the Institute') as of 31st March 2024 and the Income & Expenditure Account, Receipt & Payment Account for the year ended on that date under Section 19(2) of Comptroller and Auditor General's (Duties, Powers and Conditions of Service) Act, 1971 read with Section 22(2) of National Institute of Technology Act, 2007 (as amended in June 2012). These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller and Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules and Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/ CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

- i. We have obtained all the information and explanations which, to the best

- of our knowledge and belief, were necessary for the purpose of our audit.
- ii. The Balance Sheet, the Income & Expenditure Account and the Receipt & Payment Account dealt with by this report have been drawn up in the format prescribed by the Ministry of Education (formerly Human Resource Development Department), Government of India vide order No 29-7/2012-IFD dated 17 April 2015.
- iii. In our opinion, proper books of accounts and other relevant records have been maintained by the Institute as required in the NIT statutes in so far it appears from our examination of such books.
- iv. We further report that:

A. Balance Sheet

A.1 Assets

A.1.1 Schedule 5 Fixed Assets ₹376.91 crore.

As per AS-10, depreciation of an asset begins when it is available for use, i.e. when it is in the location and condition necessary for it to be capable of operating in the manner intended by management.

The Institute had completed construction of its new campus at Cuncolim, Goa with all facilities including student hostels, mess, library, lab, canteen, health centres, residential flats to faculties and staff, etc and made it fully functional from 1st January 2024 after shifting from its old transit campus.

Audit, however, observed from Fixed Assets (Schedule 5) that the entire expenditure of ₹367.94 crore incurred on construction of the new campus has been shown as Capital Works in Progress (CWIP).

Non-transferring the CWIP to Fixed Assets and non-charging of depreciation on the same at the rate of 2 per cent, has resulted in overstatement of Fixed Assets (Schedule 5) and Corpus/Capital Fund (Schedule 1) by ₹7.36 crore.

B. Income and Expenditure Account

B.1 Expenditure

B.1.1 Finance Costs (Schedule 21) ₹11.38 crore.

As per AS-16 on 'Borrowing Costs', all interest payments made during the stage of construction of a capital asset should be treated as capital expenditure.

In contravention to the above, Institute has not capitalised the interest payment of ₹11.35 crore on Higher Education Financing Agency (HEFA) loan but debited to Finance Costs (Schedule 21). This has resulted in understatement of Capital Fund (Schedule 1) and Fixed Assets (Schedule 5) by ₹ 11.35 crore.

B.1.2 Schedule 18 Administrative and General Expenses ₹3.42 crore.

The above expenditure included water charges paid of ₹2.81 lakh pertaining to the period from 10.02.2024 to 30.04.2024 which was inclusive of payment of ₹1.04 lakh related to April 2024.

Inclusion of expenses pertaining to the year 2024-25 in the year 2023-24 has resulted in understatement of Corpus/Capital Fund (Schedule 1) and prepaid expenses under Loans, Advances and Deposits (Schedule 9) by ₹ 1.04 lakh.

B.1.3 Schedule 20 Repair & Maintenance ₹2.56 crore and Schedule 17 Academic Expenses ₹3.22 crore.

Repairs and Maintenance Expenses included Computer (including software) expenses of ₹32.65 lakh which was inclusive of AMC charges of software amounting to ₹23.01 lakh incurred during the period from 17.11.2023 to 16.11.2024. Of this, expenditure of ₹14.46 lakh was pertaining to the year 2024-25.

Similarly, Academic Expenses included Subscription Expenses of ₹52.67 lakh which, *inter-alia*, included Online Subscription Expenses of ₹6.19 lakh pertaining to the period from 30.08.2023 to 29.08.2024 and ₹2.55 lakh pertaining to the period from 21.9.2023 to 20.09.2024. Out of the above, online subscription expenditure of ₹ 3.76 lakh pertained to 2024-25.

Inclusion of AMC charges of software of ₹14.46 lakh under Repairs & Maintenance Expenditure (Schedule 20) and online subscription of ₹3.76 lakh under Academic Expenses (Schedule 17), during the current year has resulted in understatement of Corpus/Capital Fund (Schedule 1) and Pre-Paid Expenses/Advances under Loans, Advances and Deposits (Schedule 9) by ₹18.22 lakh.

C. General Comments

C.1 Sub-Schedule 4(3) of Schedule 4- Current Liabilities and Provisions included Security Deposits/Performance Guarantee/Students Caution Money Deposit/Student Deposit of ₹35.49 lakh. The above comprises of ₹19.44 lakh pertaining to the period 2014-2021 . The Institute needs to review these old pending and unclaimed deposits.

C.2 The Institute had purchased two Desktop Monitors costing ₹ 36405/- (₹15956/- + ₹20449/-) and debited the said expenditure to Repairs & Maintenance instead of debiting to Capital Expenditure.

This has resulted in understatement of Fixed Assets (Schedule 5) and Corpus/Capital Fund (Schedule 1) by ₹36405/- to that extent.

D. Grants – in- Aid

The Institute received grant in aids of ₹80.84 crore (OH-31 General ₹9.44 crore, OH-35 Capital ₹25.00 crore, OH-36 Salary ₹11.17 crore, HEFA Loan Principal ₹23.49 crore and HEFA Loan Interest ₹11.74 crore), with an unspent carried forward balance of ₹18.42 crore from previous year along with accrued interest of ₹1.12 crore.

Out of the total available funds of ₹100.38 crore, the Institute utilized ₹86.33 crore (General ₹11.29 crore, Capital ₹26.04 crore, Salary ₹14.84 crore, HEFA Loan Principal ₹21.18 crore, HEFA Loan Interest ₹11.35 crore, refund of interest on grants ₹1.62 crore and auto reversal of grant from TSA ₹0.01 crore), leaving an unspent balance of ₹14.05 crore (General ₹0.68 crore, Capital ₹2.61 crore, Salary ₹0.99 crore, HEFA Loan Principal ₹12.90 crore and Interest (-) ₹3.13 crore) as on 31.03.2024.

- v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, the Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.
- vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements, read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in the Annexure to this Audit Report, give a true and fair view in conformity with accounting principles generally accepted in India:
- (a) In so far as it relates to the Balance Sheet, of the state of affairs of the Indian Institute of Technology, Mumbai as at 31 March 2024, and
- (b) In so far as it relates to the Income & Expenditure Account, of the **deficit** for the year ended on that date.

**For and on behalf of the
Comptroller & Auditor General of India**



Principal Director of Audit (Central)

Place: Mumbai

Date: 10.12.2024

Annexure

1.	Adequacy of Internal Audit System The Internal Audit was conducted by Chartered Accountant. However, no Internal Audit has been carried out by Ministry till the date of audit.
2.	Adequacy of Internal Control System The internal control system is adequate subject to comments included in the report.
3.	Physical verification of Assets The physical verification of fixed assets for the year 2023-24 has been carried out by CA
4.	System of Physical verification of Inventory The Institute had incurred expenditure of ₹30.67 lakh on purchase of various consumable articles during the year 2023-24 and the entire expenditure has been accounted as revenue expenditure under various heads of Income and Expenditure Account. The Institute has neither maintained an inventory register nor obtained the position of closing stock of inventories from different departments. No physical verification of the inventories has also been conducted during the year.
5.	Regularity in payment of statutory dues. The Institute is regular in payment of Statutory dues.



Principal Director of Audit (Central), Mumbai