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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 Human Resource Development (MHRD), Govt. of India. The campus is located at Farmagudi, Ponda approximately 29 km southeast of Panaji, the capital of Goa and it is a temporary campus. The state of Goa is well connected by roads, railways and by air with various parts of the country.

NIT Goa started functioning in 2010 with three Engineering Departments: (1) Computer Science and Engineering (2) Electronics and Communication Engineering and (3) Electrical and Electronics Engineering at undergraduate level. 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) with an intake of 38 students in each branch 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.
- \* Strives for excellence, through dissemination, generation and application of knowledge laying stress on interdisciplinary approach in all the branches basic of Science, Engineering, Technology, Humanities and Social Sciences with an emphasis on human values and ethics.

### 1.3 Education

#### B.Tech

#### Structure of B.Tech. Programme

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

- Undergraduate (B.Tech Degree) programmes are offered in the following disciplines by the respective programme hosting Departments.
  - i) Computer Science and Engineering (CSE)
  - ii) Electrical and Electronics Engineering (EEE)
  - iii) Electronics and Communication Engineering (ECE)
  - iv) Civil Engineering (CVE)
  - v) Mechanical Engineering (Mech. Eng.)
- Other supporting departments are:

#### Applied Sciences (Appl. Sci.)

- Mathematics (MA)
- Physics (PY)
- Chemistry (CY)

#### Humanities & Social Sciences (HSS)

- Economics (HS)
- English (HU)



- The programme structure consists of the following:
  - A general (common) core programme comprising of basic sciences, engineering sciences, humanities and technical arts;
  - An engineering core programme introducing the student to the foundations of engineering in the respective branch;
  - An elective programme enabling the student to opt and undergo a set of courses of interest;
  - Professional practice including project, seminar and industrial training/internship and,
  - Courses on Environmental Studies (ES), Physical Education (Phy.Ed.), Value Education (VE).
- 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
- 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 May) is known as 'EVEN' semester.
- The complete programme will consist of 6 classifications (as given in the Table 1), namely- Basic Sciences, Basic Engineering Sciences, Humanities and Languages, Technical Arts, Professional Theory & Practice, and Others, distributed over eight semesters with two semesters per academic year. Professional Core courses will commence from the third semester onwards. The elective courses will normally be offered from the sixth semester onwards.
- 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 of three hours per week per semester. Three credits for Drawing course of one Lecture plus three hours of drawing.
- The curriculum of any branch of the B. Tech. programme shall have a total of minimum 170 credits.
- Every course of the B. Tech. programme will be placed in one of the 6 classifications as listed in Table.1. Minimum credits to be earned for the award of B. Tech. Degree are 170(of which 5 credits of course work done under the Pass/Fail option are not counted towards calculation of Cumulative Grade Point Average (CGPA)).

Table 1: Course classifications

Sl. No.	Classifications	Minimum Credits		Remarks
		For CGPA	For Pass/Fail	
1.	Basic Sciences (BS)	27	0	MA→ 14,PH→ 8,CY→ 5
2.	Basic Engineering Sciences (ES)	14	0	EM→ 3,ME→ 2, EL→ 5, CPPS→ 4



3.	Humanities & Languages (HL)	9	0	PC→3, ECO→6
4.	Technical Arts (TA)	5	0	ED→3, WP→2
5.	Professional Theory & Practice (PT) (Core, Electives (including MOOCs or any other Approved by Institute), Project, Seminar)	110	0	PT
6.	Others (Environmental Studies, Physical Education, Value Education) (OT)	-	5	ES → 3, Phy. Ed → 1 VE→1
<b>Total Credit</b>		<b>165</b>	<b>5</b>	

## REGISTRATION

- Except for the first semester, Course registration is mandatory for all other 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 to enroll for higher semester only if he/she satisfies the clause (A student who has cleared all the academic requirements upto the previous semester will register for all courses of the current semester as per Institute norms),and additionally;
  - If he/she has cleared all dues in the Institute, Hostel and Library upto the end of the previous semester and
  - If he/she is not debarred from enrolment by a disciplinary action of the Institute.
- Students are required to submit Course registration form duly filled in, in consultation with his/her faculty adviser.

## M.Tech

### Structure of M.Tech Programme

- The medium of instruction, examination and project reports will be English.
- Postgraduate (M.Tech Degree) programmes are offered in the following disciplines by the respective programme hosting Departments.
  - Master of Technology in “Computer Science and Engineering ”(M.Tech. (CSE)) by the Department of Computer Science and Engineering (CSE)
  - Master of Technology in ‘VLSI’ (M.Tech. (VLSI)) by the Department of Electronics and Communication Engineering (ECE).
  - Master of Technology in “Power Electronics and Power Systems”(M. Tech. (PEPS))by the Department of Electrical and Electronics Engineering (EEE)Other teaching Department, Humanities and Sciences (HS) shall offer courses for these three different programmes.
- Each programme of instruction consists of the following:



- i) An engineering “Programme Core” introduce the student to the state of the art in engineering in the respective branch.
  - ii) A “Programme Elective” give opportunities to the students to opt for a set of specialized courses.
  - iii) A “Professional practice” includes independent study, seminar, comprehensive- viva & 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 or 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	
<b>Total Credit</b>		<b>64</b>	

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.

## 2.0 AN OVERVIEW

### 2.1 Background

NIT GOA is one of the ten newly set up NITs during the 11th Five Year Plan by the Ministry of Human Resources Development (MHRD). The institute was to be set up using Rs. 250 crore provided by 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 present temporary Campus is located at Farmagudi, Ponda, Goa. Farmagudi is located on a plateau 3 km from the main Ponda City on the way towards Panaji. Ponda is a city and a municipal council in North Goa district in the Indian state of Goa. It is located in the central part of Goa. Ponda city lies about 28 km south-east of Panaji and 17 km north-east of Margao and is also the capital of Ponda Taluka. Ponda is well connected by road to the Panaji (Capital of Goa) and main railway junction of Margao.

By Air

Goa's sole airport, the '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 30 Km (45 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 20 Km (30 Minutes by car) from the institute.

### 2.3 Campus

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 new buildings accommodate thirteen class rooms, eight laboratories, one conference room, and one seminar hall with seating capacity of 120 persons, a workshop and an administrative office.

In the F.Y 2015-16 Institute also has its own medical centre and canteen facility in the temporary premises.

On July 2017 state Govt. handed-over the land measuring 120 Acers identified for the permanent campus of NIT Goa.

### 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 majors 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:

- Computer Science and Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Humanities and Sciences
- Applied Sciences

## 2.6 Courses Offered

### Undergraduate Courses (B. Tech):

Branch	Current Year Intake	Year Started in
Computer Science and Engineering	38	2020-2021
Electrical and Electronics Engineering	38	2020-2021
Electronics and Communication Engineering	38	2020-2021
Mechanical Engineering	37	2020-2021
Civil Engineering	37	2020-2021

### Postgraduate Courses (M. Tech):

Branch	Current Year Intake	Year Started in
Computer Science and Engineering	23	2020-2021



Power Electronics and Power Systems (PEPS)	22	2020 -2021
VLSI	23	2020 -2021

#### Courses Offered Doctorate Courses (Ph.D.):

Branch	Current Year Intake	Year Started in
Computer Science and Engineering	-	2020 -2021
Electrical and Electronics Engineering.	-	2020 -2021
Electronics and Communication Engineering	-	2020 -2021
Humanities and Sciences	-	2020 -2021

## 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 Human Resources and Development (MHRD), 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 MHRD, Government of India. Reservation of seats to different states, castes, tribes and other categories shall be as per the directives from MHRD, Government of India. Some seats are allotted by MHRD 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 MHRD
- At the time of admission the candidates should have passed/appeared and 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 Human Resources and Development (MHRD), 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 MHRD, Government of India. Reservation of seats is made as per the directives from MHRD.
- 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 fulfil the medical standards required for admission as per rules set up by Institute or guidelines issued by the Ministry of Human Resources and Development (MHRD) from time to time.
- The selected candidates will be admitted to the M. Tech. programme after 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. degree in: Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE) and Electrical and Electronics Engineering (EEE), Humanities and Sciences (HS) and Applied Sciences (AS).

### **Categories of Ph.D. Candidates**

The Assistantship/Fellowships will be payable for duration fixed by the Ministry of Human Resources and Development (MHRD) (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)

Normally, advertisement for Ph.D. programme is issued in the month of March (for July session) and October (for December-January session) each year in the employment news, department website 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 offer 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 2020-21**

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	30	11	41
2.	EEE	29	08	37
3.	ECE	29	10	39
4.	Mechanical	26	07	33
5.	Civil	27	07	34
	<b>Total</b>	<b>114</b>	<b>43</b>	<b>184</b>

- **Students admitted under DASA Scheme**

Six students were admitted into first year B. Tech Courses during 2020-21.

- **Number of Candidates admitted into first year M. Tech during 2019-20**

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	16	05	21
2.	EEE	17	05	22
3.	ECE	20	03	23
	<b>Total</b>	<b>53</b>	<b>13</b>	<b>66</b>



- **Number of Candidates admitted into first year P.h.D during 2020-21**

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	-	-	-
2.	EEE	-	-	-
3.	ECE	-	-	-
4.	HS	-	-	-
	<b>Total</b>	-	-	-

## 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 practical, 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 practical, End-term exam is not mandatory. If 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 for 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, HS (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 test 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 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.

### **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 semester. 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 test 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:

<b>Grade</b>	<b>Grade Points</b>	<b>Description of Grades</b>
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 enrol 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 Dean (Academics) through DRPC. Reconstitution of DRC member(s) with internal/external expert 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 year's time.
5. Candidate will give 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 report/comments to the Dean (Academic) through DRPC at the end of every semester. The DRC has to maintain adequate record of the candidate's progress and communicate the same to 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 report to the Dean (Academics) through DRPC.



### 3.0 STAFF

#### 3.1 Academic Staff

##### Department of Computer Science and Engineering

Sr. No.	Name	Designation
1	Dr. Damodar Reddy Edla	Assistant Professor
2	Dr. Veena Thenkanidiyoor	Associate Professor
3	Dr. Purushothama B.R.	Assistant Professor
4	Dr.Keshavamurthy B. N	Associate Professor
5	Dr.S Mini	Assistant Professor
6	Dr. Pravati Swain	Assistant Professor
7	Dr. Venkatanaresbhabu Kuppili	Assistant Professor
8	Dr. Modi Chirag Navinchandra	Assistant Professor
9	Mrs. Athulya T.	Faculty on Contract
10	Mrs. Helga V Lobo	Faculty on Contract



### Department of Electrical and Electronics Engineering

Sr. No.	Name	Designation
1	Dr. Suresh Mikkili	Assistant Professor
2	Dr. B. Venugopal Reddy	Associate Professor
3	Dr. Sree Raj E.S	Assistant Professor
4	Dr. Amol Deodas Rahulkar	Associate Professor
5	Dr. C. Vyjayanthi	Associate Professor
6	Dr. Soumitra Das	Assistant Professor
7	Mrs. Anudevi Samuel	Faculty on Contract
8	Dr. Ansal V.	Faculty on Contract
9	Mr. Rohit Sadashiv Yadavade	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	Assistant Professor
4	Dr. Nithin Kumar Y. B	Assistant 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
12	Dr. Shubhro Chakrabartty	Faculty on Contract





### Department of Humanities and Sciences & Applied Sciences

Sr. No.	Name	Designation
1	Dr. Saidi Reddy Parne	Associate Professor
2	Dr. Velavan Kathirvelu	Associate Professor
3	Dr. Sarani Ghosal Mondal	Associate Professor
4	Dr. Ragoju Ravi	Associate Professor
5	Dr. Ravi Prasad K. J	Associate Professor
6	Dr. Shangerganesh L.	Assistant Professor
7	Dr. Sunil Kumar A.	Assistant Professor
8	Mrs. Ritu Jangid	Faculty on Contract
9	Dr. R. S. Achyuthlal Babu	Faculty on Contract
10	Dr. G. Shiva Kumar Reddy	Faculty on Contract
11	Dr. Gajanan T. Hivale.	Faculty on Contract
12	Dr. Suman Gandhi	Faculty on Contract

### Department of Mechanical Engineering

Sr. No.	Name	Designation
1	Dr. B Santhi	Assistant Professor
2	Dr. Prasenjit Dey	Assistant Professor
3	Dr. Pankaj Kumar	Faculty on Contract
4	DR. Anoop A D	Faculty on Contract
5	Dr. Shubham Tripathi	Faculty on Contract
6	Dr. Pravin Anandrao Pawar	Faculty on Contract
7	Dr. Manvendra Tiwari	Faculty on Contract
8	Dr. Vinod Kumar Singh	Faculty on Contract

### Department of Civil Engineering

Sr. No.	Name	Designation
1	Dr. Harish N.	Assistant Professor
2	Dr. Harikumar M.	Assistant Professor
3	Ms. Vanessa Fernandes	Faculty on Contract
4	Dr. Ankit Balvanshi	Faculty on Contract
5	Dr. Sumit Kumar	Faculty on Contract
6	Dr. Nithin V. L.	Faculty on Contract
7	Dr. Dinesh Kumar R.	Faculty on Contract
8	Mr. Tanvesh Ulhas Dabholkar	Faculty on Contract
9	Dr. Prasenjit Ghosh	Faculty on Contract



## 3.2 Non- Academic Staff

Sr. No.	Name	Designation
1.	Dr. Vasantha M.H	Registrar I/c
2.	Mr. Amit Kabiraj	Asst. Registrar
3.	Dr. Prasanth P.	Sports Officer
4.	Mr. Munesh Kumar	Asst. Librarian
5.	Mr. Digamber D. Mayekar	Accountant
6.	Mr. Sudharsan S	Technical Asst.
7.	Mr. Venkata Raman Grandhi	Technical Asst.(System)
8.	Mr. Rameez Rahman Kadavath	Technical Asst.
9.	Mr. Vijeesh V P	Technical Asst.
10.	Ms. Suvida Bipeen Madkaiker	Technical Asst.
11.	Mr. Patitapaban Pradhan	Technical Asst.
12.	Mr. Pinaki Chatterjee	Technical Asst.
13.	Mr. Digambar Ramchandra Dhengole	Technician
14.	Mr. Srinath Revoori	Technician
15.	Mr. Nijin M.	Technician
16.	Mr. Rohit Madhu Gawas	Technician
17.	Mr. Shri Ram Kumawat	Technician
18.	Ms. Swara S. Lotliker	Stenographer
19.	Ms. Sweta S. Jadhav	Junior Asst
20.	Ms. Namrata Prajesh Sawant	Junior Asst
21.	Mr. Karthikeyan M.	Junior Asst
22.	Ms. Tallulah Rodrigues	Junior Asst
23.	Mr. Amit Ajit Naik	Junior Asst
24.	Mr. Anilkumar Shersinh Mistri	Junior Asst
25.	Mr. Kanneboina RajKumar	Multi- Tasking
26.	Mr. Arjun Singh	Multi- Tasking
27.	Mr. Pritam Nageshkar	Multi- Tasking
28.	Mr. Sandeep Jaishwar	Multi- Tasking
29.	Ms. Dipti Gaude	Multi- Tasking
30.	Ms. Asmita Ashok als.Prabhakar Naik	Multi- Tasking
31.	Dr. Madhuri Debsikdar	Medical Officer on Contract
32.	Mr. Vallabh Ganapati Shenvi Velingkar	Resident Engineer on Contract
33.	Mr. B. V Raghu	Security & Housekeeping In charge on Contract



#### 4.0 ACADEMIC PROGRAMMES 2020-2021

##### 4.1 Course-wise Enrolment

###### Course-wise enrolment Undergraduate Courses (B. Tech)

	Total No. of Students			Out of total no. of Students														
				SC			ST			OBC			General			DASA		
B (Boys) G (Girls)	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
2020-2021	141	43	184	20	8	28	10	4	14	42	9	51	65	20	85	4	2	6

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

**Total number of Students in 2020-21**

Under Graduate Students: **573**

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

	Total No. of Students			Out of total no. of Students														
				SC			ST			OBC			General			Sponsored		
B (Boys) G (Girls)	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
2020 - 2021	53	16	66	8	2	10	3	1	4	20	3	23	22	7	29	0	0	0

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

**Total number of Students in 2020-21**

Postgraduate Graduate Students: **120**



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

	Total No. of Students			Out of total no. of Students														
				SC			ST			OBC			General			Others		
B (Boys) G (Girls)	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
2020-2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

**Total number of Students in 2020-21 Ph.D. Students: 84 (Studying)**

### 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 MHRD, New Delhi vide letter no. F.No.23-2/2012-TS.III. Dated 13<sup>th</sup> August 2012.

#### 5.1 Board of Governors

Prof. Gopal Mugeraya Director, National Institute of Technology Goa	:	Chairman & Ex-Officio Member
Smt. Darshana M Dabral Financial Advisor, Dept of Higher Education, MOE, Govt of India	:	Member (Nominated by Central Govt.)
Ms. Saumya Gupta IAS Joint Secretary (NIT), MoE, Govt of India,	:	Member (Nominated by Central Govt.)
Prof. B. G. Fernandes Professor & Head of Department of Electrical Engineering, IIT Bombay Director IIT Bombay)	:	Member
Dr. Venkatesh Ganesh Prabhu Desai (State Nominee) Chairman, Chandranath Education Society, Assolda, Quepm, Goa	:	Member



Mr. Vijaykumar Chandrakant Verekar (State Nominee) Educationist, 226, Chandrakant Building, Sunder Peth, Sanquelim, Goa-403505	:	Member
Dr. Velavan Kathirvelu Member Associate Professor of Chemistry, Department of Applied Sciences, NIT Goa	:	Internal Board
Dr. Damodar Reddy Edla Associate Professor, Department of Computer Science & Engineering,	:	Internal Board Member
Dr. Shashidhar K Kudari Registrar, NIT Goa	:	Member Secretary

## 5.2 Finance Committee

Prof. Gopal Mugeraya Director, National Institute of Technology Goa	:	Chairman & Ex-Officio Member
Smt. Darshana M Dabral Financial Advisor, Dept of Higher Education, MOE, Govt of India	:	Member (Nominated by Central Govt.)
Ms. Saumya Gupta IAS IAS, Joint Secretary (NIT), MoE, Govt of India,	:	Member
Dr. Velavan Kathirvelu Associate Professor Department of Applied Sciences, NIT Goa	:	Member
Dr. Shashidhar K Kudari Registrar	:	Member Secretary





### 5.3 Senate

Prof. Gopal Mugeraya [Director, NIT Goa]	Chairman
Dr. Veerakumar T., Dean Academics Associate Professor ECE, NIT Goa	Member
Dr. Nithin Kumar Y. B., Assistant Professor, NIT Goa [HoD, ECE]	Member
Dr. Amol Rahulkar, Associate Professor, NIT Goa [HoD, EEE]	Member
Dr. Sarani Ghosal Mondal, Associate Professor, NIT Goa [HoD, HSS]	Member
Dr. Purushothama B.R., Associate Professor, NIT Goa [HoD, CSE]	Member
Dr. Damodar Reddy Edla, Associate Professor, NIT Goa : [HoD, MCE]	Member
Dr. Sreeraj E.S, Associate Professor, NIT Goa : [HoD, CVE]	Member
Prof. Vijay H Desai Department of Mechanical Engineering, NIT Karnataka, Surathkal,	External Member
Prof. N C Shivaprakash Department of Instrumentation, Indian Institute of Science, Bangalore	External Member
Dr. Geetha B Department of Humanities and Social Sciences, BITS Pilani, K K Birla Goa Campus	External Member
Dr. Shashidhar K Kudari Registrar	Secretary



#### 5.4 Building and Works Committee

Prof. (Dr.) Gopal Mugeraya Director NIT GOA	Chairman
Shri. Vallabh G. S. Velingkar State PWD (Civil)	Member (Expert Nominated by the state govt.)
Dr. PS Reddy Dean (FW), NIT Goa	Member (Nominated by Board NIT Goa)
Dr. Purushothama B.R Dean (P&D) NIT Goa	Member
Prof. B.V.S Viswanadham Dean (P&D), IIT Bombay	Member
Dr. Vasantha M.H Secretary Registrar I/C NIT GOA	Ex-Officio, Member

#### 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)
- 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.

## 7.0 PUBLICATIONS, SEMINARS, WORKSHOPS AND STUDENT CHAPTERS

Several workshops had been conducted, student chapters were started and the faculty members engaged themselves actively in the research works.

### 7.1 Publications accepted /published or Book Chapters:

1	<u>Journals:</u> <ol style="list-style-type: none"> <li>1. Venkateswararao, Kuna, and Pravati Swain. "Binary-PSO-based energy-efficient small cell deployment in 5G ultra-dense network." The Journal of Supercomputing, Springer (2021): 1-22.</li> <li>2. Venkateswararao, Kuna, Pravati Swain, Christophoros Christophorou, and Andreas Pitsillides. "Using UE-VBS for dynamic virtual small cells deployment and backhauling in 5G Ultra-Dense networks." Computer Networks, Esevier (2021): 10792</li> </ol>	Dr. Pravati Swain	CSE
2	<u>Journals:</u> <ol style="list-style-type: none"> <li>1. Preeti Jagadev and Lalat Indu Giri, "Human respiration monitoring using infrared thermography and artificial intelligence", Biomed. Phys. Eng. Express 6, 035007, 2020.</li> <li>2. Preeti Jagadev and Lalat Indu Giri, "Non-contact monitoring of human respiration using infrared thermography and machine learning", Infrared Physics &amp; Technology 104, 103117, 2020</li> </ol>	Dr. Lalat Indu Giri	ECE

3	<p><u>Journals:</u></p> <ol style="list-style-type: none"> <li>1. Deven G. Patanvariya, Anirban Chatterjee, "High gain and low cross-polarized printed array of Baravelle's spiral antennas for ku-band application," AEU - International Journal of Electronics and Communications, vol 132, pp. xx-xx, 2021</li> <li>2. Patanvariya DG, Chatterjee A., "High-directive monopulse microstrip antenna array for DSRC-band application," Int J Commun Syst., Wiley, vol. 34, issue 9, pp. 1-22, 2021.</li> <li>3. D. G. Patanvariya, A. Chatterjee, "A Compact Bow-tie Shaped Wide-band Microstrip Patch Antenna for Future 5G Communication Networks," Radioengineering, vol. 30, no. 1, pp. 40-47, Apr. 2021.</li> <li>4. Kola, KS, Chatterjee, A, "A high-gain and low cross-polarized printed fractal antenna for X-band wireless application," Int J Commun Syst. vol. 34, issue 10, pp. 1-25, 2021.</li> </ol>	Dr. Anirban Chatterjee	ECE
4	<p><u>Journals:</u></p> <ol style="list-style-type: none"> <li>1. L. Shangerganesh and P.T. Sowndarrajan, An optimal control problem of nonlocal Pyragas feedback controllers for convective FitzHugh-Nagumo equations with time-delay, SIAM Journal on Control and Optimization, 58(2020), 3613-3631</li> <li>2. L Shangerganesh and J Manimaran, Mathematical and numerical analysis of acid mediated cancer invasion model with nonlinear diffusion, Electronic Transactions on Numerical Analysis, 52(2020) 576-598.</li> <li>3. L. Shangerganesh, V.N. Deiva Mani and S. Karthikeyan, Existence of solutions of cancer invasion parabolic system with integrable data, Afrika Matematika, 31(2020) 1359-1378</li> <li>4. P.T. Sowndarrajan, N. Nyamoradi, L Shangerganesh and J Manimaran, Mathematical analysis of an optimal control problem for the predator-prey model with disease in prey, Optimal Control Applications and Methods, 41(2020) 1495-1509.</li> <li>5. J Manimaran and L Shangerganesh, Existence and uniqueness of time-fractional nonlocal diffusion systems modelling an epidemic disease, Indian Society of Industrial and Applied Mathematics 11 (2020), 193-207.</li> <li>6. KN Krishnan, S Hemalatha, NB Balan and L Shangerganesh, Analyzing Lotka-Volterra Reaction-Diffusion Model using Optimization Technique, Indian Society of Industrial and Applied Mathematics 11 (2020), 174-192</li> </ol>	Dr. L Shangerganesh	H&S

5	<p><u>Journals:</u></p> <ol style="list-style-type: none"> <li>1. A Muzumdar, C. Modi, Madhu G.M., C. Vyjayanthi, "A trustworthy and incentivized smart grid energy trading framework using distributed ledger and smart contracts," Journal of Network and Computer Applications+D21+D22:D24+D22:D25+D22:D26+D21+D22:D24+D22:D25</li> <li>2. A Muzumdar, C. N. Modi, M. G. M and C. Vyjayanthi, "Designing a Robust and Accurate Model for Consumer Centric Short Term Load Forecasting in Microgrid Environment," in IEEE Systems Journal, IEEE, pp. 1-14, 2021.</li> <li>3. Madhu G M , C. Vyjayanthi, C. N. Modi, "Adaptive step size based drift-free P&amp;O algorithm with power optimiser and load protection for maximum power extraction from PV panels in stand-alone applications, IET Renewable Power Generation, vol. 15, Issue 6, pp. 1270-1285, 2021.</li> <li>4. Patil, R., Dudeja, H. &amp; Modi, C. Designing in-VM-assisted lightweight agent-based malware detection framework for securing virtual machines in cloud computing. Int. J. Inf. Secur, Springer, Vol. 19, 147–162, 2020.</li> </ol>	Dr. Chirag Modi	CSE
6	<p><u>Journals:</u></p> <ol style="list-style-type: none"> <li>1. Kannadasan, K., Edla, D.R., Kongara, M.C. and Kuppili, V., 2020. M-curves path planning model for mobile anchor node and localization of sensor nodes using dolphin swarm algorithm. Wireless Networks, 26(4), pp.2769-2783. (SCI indexed, I.F= 2.659 )</li> <li>2. Naik, A.K., Kuppili, V. and Edla, D.R., 2020. Efficient feature selection using one-pass generalized classifier neural network and binary bat algorithm with a novel fitness function. Soft Computing, 24(6), pp.4575-4587. (SCI indexed, I.F= 3.050 )</li> <li>3. Simi, V.R., Edla, D.R., Joseph, J. and Kuppili, V., 2019. Analysis of controversies in the formulation and evaluation of restoration algorithms for MR images. Expert Systems with Applications, 135, pp.39-59. (SCI indexed, I.F= 5.452)</li> <li>4. Lipare, A., Edla, D.R. and Kuppili, V., 2019. Energy efficient load balancing approach for avoiding energy hole problem in WSN using Grey Wolf Optimizer with novel fitness function. Applied Soft Computing, 84, p.105706. (SCI indexed, I.F= 5.472)</li> <li>5. Chatra, K., Kuppili, V., Edla, D.R. and Verma, A.K., 2019. Cancer data classification using binary bat optimization</li> </ol>	Dr. Venkatanar eshabu Kuppili	CSE

	<p>and extreme learning machine with a novel fitness function. <i>Medical &amp; biological engineering &amp; computing</i>, 57(12), pp.2673-2682. (SCI indexed, I.F=1.82)</p> <p>Naik, S.M., Jagannath, R.P.K. and Kuppili, V., 2020. Bat algorithm-based weighted Laplacian probabilistic neural network. <i>Neural Computing and Applications</i>, 32(4), pp.1157-1171. (SCI indexed, I.F=4.774)</p> <p>6. Verma, A.K., Kuppili, V., Srivastava, S.K. and Suri, J.S., 2020. A new backpropagation neural network classification model for prediction of incidence of malaria. <i>Frontiers in bioscience (Landmark edition)</i>, 25, pp.299-334. (SCI indexed, I.F=2.747)</p> <p>7. Verma, A.K., Kuppili, V., Srivastava, S.K. and Suri, J.S., 2020. "An AI-based approach in determining the effect of meteorological factors on incidence of malaria incidences" <i>Frontiers in Bioscience (Landmark Edition)</i>, 25, pp.1202-1229. (SCI indexed, I.F=2.747)</p> <p>8. Kuppili, V., Tripathi, D. and Reddy Edla, D., 2020. Credit score classification using spiking extreme learning machine. <i>Computational Intelligence</i>, 36(2), pp.402-426. (SCI indexed, I.F=0.704)</p> <p>9. Naik, S.M., Jagannath, R.P.K. and Kuppili, V., 2020. Estimation of the Smoothing Parameter in Probabilistic Neural Network Using Evolutionary Algorithms. <i>Arabian Journal for Science and Engineering</i>, 45(4), pp.2945-2955. (SCI indexed, I.F=1.711)</p> <p>10. Gaonkar, R., Singh, K., Prashanth, G.R. and Kuppili, V., 2020. Lesion analysis towards melanoma detection using soft computing techniques. <i>Clinical Epidemiology and Global Health</i>, 8(2), pp.501-508. (SCOPUS)</p> <p>11. Edla, D.R., Tripathi, D., Kuppili, V. and Dharavath, R., 2020. Multilevel Automated Security System for Prevention of Accidents at Unmanned Railway Level Crossings. <i>Wireless Personal Communications</i>, 111(3), pp.1707-1721. (SCI indexed, I.F=1.20)</p>		
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	<p>12. Naik, S.M., Jagannath, R.P.K. and Kuppili, V., 2020. An automatic estimation of the ridge parameter for extreme learning machine. <i>Chaos: An Interdisciplinary Journal of Nonlinear Science</i>, 30(1), p.013106. (SCI indexed, I.F= 2.832)</p> <p>13. Naik, S.M., Jagannath, R.P.K. and Kuppili, V., 2020. Fractional Tikhonov regularization to improve the performance of extreme learning machines. <i>Physica A: Statistical Mechanics and its Applications</i>, 551, p.124034. (SCI indexed, I.F= 2.924)</p> <p>14. Naik, A.K., Kuppili, V. and Edla, D.R., 2020. A new hybrid stability measure for feature selection. <i>Applied Intelligence</i>, 50(10), pp.3471-3486. (SCI indexed, I.F= 1.172)</p> <p>15. "Simi, V.R., Edla, D.R., Joseph, J. and Kuppili, V., 2020. Parameter-free fuzzy histogram equalisation with illumination preserving characteristics dedicated for contrast enhancement of magnetic resonance images. <i>Applied Soft Computing</i>, 93, p.106364. (SCI indexed, I.F= 5.472)</p> <p>16. Edla, D.R., Lone, T., Tapas, N. and Kuppili, V., 2020. Analysis of high dimensional brain data using prototype based fuzzy clustering. <i>Clinical Epidemiology and Global Health</i>, 8(4), pp.1110-1118. (SCOPUS Indexed)</p> <p>17. Tripathi, D., Edla, D.R., Kuppili, V. and Bablani, A., 2020. Evolutionary extreme learning machine with novel activation function for credit scoring. <i>Engineering Applications of Artificial Intelligence</i>, 96, p.103980. (SCI indexed, I.F= 6.212).</p> <p>18. Kurapa, A., Rathore, D., Edla, D.R., Bablani, A. and Kuppili, V., 2020. A Hybrid Approach for Extracting EMG signals by Filtering EEG Data for IoT Applications for Immobile Persons. <i>Wireless Personal Communications</i>, 114(4), pp.3081-3101. (SCI indexed, I.F= 1.20)</p>		
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16	<p><u>Journals:</u> VR Reddy, ES Sreeraj, "Grid Voltage Sensor-less Protection scheme for One Cycle-Controlled Single-Phase Photovoltaic Inverter Systems," Accepted for publication in CSEE Journal of Power and Energy Systems 2021</p>	Dr. Sreeraj ES	EEE
17	<p><u>Journals:</u></p> <ol style="list-style-type: none"> <li>1. Damodar Reddy Edla, Shubham Dodia, Annushree Bablani, and Venkatanareshbabu Kuppili, An Efficient Deep Learning Paradigm for Deceit Identification Test on EEG Signals, ACM Transactions on Management Information Systems, Vol. 12 No. 3, 1-20, June 2021, 10.1145/3458791</li> <li>2. Kannadasan K, Damodar Reddy Edla, Manisha H. Yadav, and Annushree Bablani,, Intelligent-ANFIS Model for Predicting Measurement of Surface Roughness and Geometric Tolerances in 3-axis CNC Milling,, IEEE Transactions on Instrumentation &amp; Measurement, IEEE, Vol. 69 No. 10 , 7683-7694, Oct. 2020, 10.1109/TIM.2020.2980599</li> <li>3. Amruta Lipare, Damodar Reddy Edla, and Ramesh Dharavath, Fuzzy Rule Generation using Modified PSO for Clustering in Wireless Sensor Networks, IEEE Transactions on Green Communications and Networking, Vol. 5 No. 2 , 846-857, June 2021, 10.1109/TGCN.2021.3060324.</li> <li>4. Ravi Kumar, Santanoo M, Prashant R, Damodar Reddy Edla, Firework Inspired Load Balancing Approach for Wireless Sensor Networks, Wireless Networks, Springer, , 2021, Accepted</li> <li>5. Amruta L, Damodarreddy Edla, Ramesh D, Energy Efficient Fuzzy Clustering and Routing using BAT algorithm, Wireless Networks, Springer, 2021</li> <li>6. Diwakar T, Damodar Reddy Edla, Annushree B, Alok Kumar, Ramachandra Reddy, Experimental Analysis of Machine Learning Methods for Credit Score Classification, Progress in Artificial Intelligence, -, -, 2021, Accepted.</li> <li>7. Amruta L, Damodarreddy Edla, Saidi Reddy P, Fuzzy Rule-based System for Energy Efficiency in Wireless Sensor Networks, The Journal of Supercomputing, Springer, 2021, Accepted.</li> </ol>	Dr. Damodar Reddy Edla	CSE



	<p>8. Simi V.R., Damodar Reddy Edla and Justin Joseph , A No-reference Metric to Assess Quality of Denoising for Magnetic Resonance Images, Biomedical Signal Processing and Control, 2021</p> <p>9. Amruta N, Damodarreddy Edla, Ramesh D, Prediction of malignancy in lung nodules using combination of Deep, Fractal and GLCM Features, Big Data Journal, 2021, Accepted</p> <p>10. Diwakar Thripathi, Damodar Reddy Edla, Venkatanareshbabu K, and Annushree Bablani, Evolutionary Extreme Learning Machine with novel activation function for credit scoring, Engineering Applications of Artificial Intelligence, Vol. 96 , 103980, Nov.2020, <a href="https://doi.org/10.1016/j.engappai.2020.103980">https://doi.org/10.1016/j.engappai.2020.103980</a>.</p> <p>11. Rahul M, Ramesh Dharavath, and Damodar Reddy Edla, Dynamic large branching hash tree based secure and efficient dynamic auditing protocol for cloud environment, , Cluster Computing, Springer, Vol. 24 , 1361-1379, Oct.2020, <a href="https://doi.org/10.1007/s10586-020-03193-0">https://doi.org/10.1007/s10586-020-03193-0</a>.</p> <p>12. Sridhar C, Jaisingh T, and Damodar Reddy Edla, Mixed step size normalized least mean fourth adaptive algorithm for artifact elimination from raw EEG signals, Biomedical Signal Processing and Control, Elsevier, Vol. 65 , 102392 , M a r . 2021 , <a href="https://doi.org/10.1016/j.bspc.2020.102392">https://doi.org/10.1016/j.bspc.2020.102392</a>.</p> <p>13. Mahesh K, Venkatanareshbabu K, and Damodar Reddy Edla, Energy-Efficient Load Balancing Strategy for Wireless Sensor Networks using Quasi-Oppositional based Jaya Optimization, Wireless Personal Communications, Springer, Vol. 118 , 2319-2343, Feb. 2021, <a href="https://doi.org/10.1007/s11277-021-08128-5">https://doi.org/10.1007/s11277-021-08128-5</a></p> <p>14. Diwakar Thripathi, Damodar Reddy Edla, Venkatanareshbabu K, and Ramesh Dharavath, Binary BAT algorithm and RBFN based hybrid credit scoring model, Multimedia Tools and Applications, Springer, Vol. 79 No. 43, 31889-31912, Aug. 2020., <a href="https://doi.org/10.1007/s11042-020-09538-6">https://doi.org/10.1007/s11042-020-09538-6</a></p> <p>15. Amrita Naik, and Damodar Reddy Edla, Lung Nodule Classification Using Combination of CNN, Second and Higher Order Texture Features, Journal of Intelligent and Fuzzy Systems, Pre-press, 1-9, March 2021, 10.3233/JIFS-189847</p> <p>16. Veerraghava Reddy S, Damodar Reddy Edla, Amruta Lipare, and Saidi Reddy P, An Efficient Localization Approach in Wireless Sensor Networks using Krill Herd Optimization Algorithm, IEEE Systems Journal, Vol. 15 No. 2 , 2432-2442, June 2021, 10.1109/JSYST.2020.3004527.</p>		
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18	<p><u>Journals:</u></p> <ol style="list-style-type: none"> <li>1. Y. S. Reddy, A. Dubey, A. Kumar, and T. Panigrahi, "A Probabilistic Approach to Model SIC based RACH mechanism for Machine Type Communications in Cellular Networks," in IEEE Transactions on Vehicular Technology, vol. 70, no. 2, pp. 1878 - 1893, Feb. 2021, doi: 10.1109/TVT.2021.3055286</li> <li>2. Y. S. Reddy, A. Dubey, A. Kumar, and T. Panigrahi, "A Successive Interference Cancellation based Random Access Channel Mechanism for Machine-to-Machine Communications in Cellular Internet-of-Things," in IEEE Access, vol. 9, pp. 8367 - 8380, 2021, doi: 10.1109/ACCESS.2021.3049439.10.1109/TVT.2021.3055286</li> </ol>	Dr. Trilochan Panigrahi	ECE
19	<p><u>Journals:</u></p> <ol style="list-style-type: none"> <li>1. Gandhi, Suman., Panda, S.S.S., Parne, S.R. et al. Amorphous SnO–Sb2O3–SiO2 glassy anode: high-performance electrode materials for Na-ion batteries. J Mater Sci: Mater Electron 32, 26709–26715 (2021). <a href="https://doi.org/10.1007/s10854-021-07048-1">https://doi.org/10.1007/s10854-021-07048-1</a>.</li> <li>2. Lakkimsetty NR, Lakavat M, Varghese MJ, Gandhi Suman. Solar photo catalytic treatment of oil produced water using zinc oxide. AIP Conference Proceedings 2021 Sep 28 (Vol. 2396, No. 1, p. 020010). <a href="https://doi.org/10.1063/5.0066309">https://doi.org/10.1063/5.0066309</a></li> <li>3. Guddla GT, Katta VK, Gandhi Suman, Ambadipudi S, Ravuri BR. The role of titanium content in (Ni75Cr15Si10)100– x Tix bulk metallic glass systems to elevate mechanical and corrosion properties. Phase Transitions. 2021; 29:1-2. <a href="https://doi.org/10.1080/01411594.2021.1957103">https://doi.org/10.1080/01411594.2021.1957103</a></li> <li>4. Sana Mohammed Ali Al kamzari, Lakkimsetty Nageswara Rao, Motilal Lakavat, Suman Gandhi, Saidi Reddy P, G. Kavitha Sri. Extraction and characterization of cellulose from agricultural waste materials. Materials Today: Proceedings. 2021. <a href="https://doi.org/10.1016/j.matpr.2021.07.030">https://doi.org/10.1016/j.matpr.2021.07.030</a></li> </ol> <p>Al-Balushi M, Lakkimsetty NR, Varghese MJ, Lakavat M, Reddy PS, Gandhi Suman. Evaluating the solar Photo-Fenton as photocatalyst process by Response surface methodology to treat the saline water. Materials Today: Proceedings. 2021. <a href="https://doi.org/10.1016/j.matpr.2021.07.030">https://doi.org/10.1016/j.matpr.2021.07.030</a></p>	Dr. Suman Gandhi & Faculty on Contract	Applied Sciences



## Workshops Conducted/Participated/attended

Sr. No.	Workshop Details	Faculty Member	Department
1.	One week online ISTE Faculty Development Programme (Self Financing) on “Recent trends in RF & Microelectronics”, organized jointly by Department of Electronics & Telecommunication Engineering, Don Bosco College of Engineering Goa, & Department of Electronics & Communication Engineering, National Institute of Technology Goa, Technically sponsored by IEEE Bombay Section & WIE Affinity Group, 31 August – 4 September, 2020.	Dr. Lalat Indu Giri	ECE
2.	2021-January International Conference on Artificial Intelligence and Sustainable Engineering (AISE-2020)	Dr. Purushothama B.R	CSE
3	8 days Indo-Canadian Workshop on Interactive Design in Geotechnical Engineering: Theory to Practice, NITK Suratkal, IIT Kanpur, University of Ottawa, Sep 2020  3 day online Faculty development program on Mathematical Modelling in Civil Engineering, SCMS School of Science and Technology, Kerala, Aug 2020  5 day online Faculty development program on Forensics in Civil Engineering, Sree Buddha College of Engineering, Kerala, July 2020  10 days International webinar on Recent Advances in Geotechnical Engineering Research and Practice (RAGeo-RP), IIT Patna, July 2020  Resource person and participant for a 3 day online Faculty development program on Research Methodology and Scientific Writing, Sree Buddha College of Engineering, Kerala, June 2020  iGrip Webinar series lecture on Geostructures on Development of Geosynthetics Reinforced-soil Structure for Japanese high-speed bullet train Shinkansen, IIT Gandhinagar, June 2020	Dr. Harikumar M	Civil

## Papers Presented/ Conferences Attended

Sr. No.	Papers Presented	Faculty Member	Department
1.	IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society, 2020	Dr. Chirag Modi	CSE
2.	Aswini K. Samantaray and Amol D. Rahulkar, "Lifting Scheme Based Image Retrieval in Medical CT and MRI Databases", 2020 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC), 2020, pp. 1-6, doi: 10.1109/iSSSC50941.2020.9358908. SEPT 2020	Dr. Amol Rahulkar	EEE
3	<ol style="list-style-type: none"> <li>"Synthesis of Isophthalamide ligand and its application in U and Th extraction, A. Pandey, G. Salunkhe, V. Kathirvelu, K.S. Singh, A. Sengupta, Royal Society of Chemistry's 2021 #RSCPoster Twitter Conference, 2-3 March 2021."</li> <li>CW power saturation studies on Ni(II) doped complexes at 300 K RSCPoster Twitter conference 2021, 2-3 March 2021, Online event</li> <li>Determination of electron spin relaxation and symmetry of ni(ii) in the diamagnetic lattice at ambient temperature. Amrutha. K, Velavan Kathirvelu, The 22nd International Society of Magnetic Resonance Conference ISMAR-APNMR-NMRSJ-SEST 2021 held from August 22 to 27, 2021 (Online Conference)</li> </ol>	Dr. Velavan Kathirvelu	Applied Sciences
4	IEEE 1st International Conference on Smart Technologies for Power, Energy and Control (STPEC), Nagpur (Online mode)	Dr. Sreeraj ES	EEE
5	<ol style="list-style-type: none"> <li>Amrita Naik, and Damodar Reddy Edla, Lung tumor classification using CNN and GLCM based features, International Conference on ICT For Sustainable Development (ICT4SD-2020), 23 - 24 July, 2020, Panaji, Goa, India, ICT Systems and Sustainability: Advances in Intelligent Systems and Computing, Springer, Vol 1270, pp.157-163, 2021, <a href="https://doi.org/10.1007/978-981-15-8289-9_15">https://doi.org/10.1007/978-981-15-8289-9_15</a></li> </ol>	Dr. Damodar Reddy Edla	CSE



	<p>3. Amrita Naik, and Damodar Reddy Edla, Lung Nodule Classification Using Combination of CNN, Second and Higher Order Texture Features, Sixth International Symposium on Intelligent Systems Technologies and Applications (ISTA'20) 14-17 October 2020, VIT, Chennai, India, IOS Press, , Vol. Pre-press, pp.1-9, 2021, 10.3233/JIFS-189847</p> <p>4. Amrita Naik, Damodar Reddy Edla, and Venkatanareashbabu K, A combination of FractalNet and CNN for Lung Nodule Classification, 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) 1-3 Jul 2020, IIT Kharagpur, India, IEEE , pp.1-7, 2020, 10.1109/ICCCNT49239.2020.9225365.</p>		
6	<p>Dipty Sarin Isaac, Vinish V Nair, Harikumar Mohanan, 2019, Coir Based Hybrid Geosynthetics- A Sustainable Approach, Proceedings of the International Seminar on Coir and Natural Fibre Products, Coir Kerala, pp 160-163 DEC 2019</p> <p>Fersana M, Jaseem MC, Megha M, Salahudeen MK, M Harikumar, 2020, Treatment of Greywater in College of Engineering Vatakara, Proceeding of National Conference on Advances in Sustainable Construction Materials, ASCM 2020, NIT Jamshedpur, August 2020</p>	Dr. Harikumar M	Civil

**7.4 Conferences:**

<b>Sr. No.</b>	<b>Conference Details</b>	<b>Faculty Member</b>	<b>Department</b>
1.	<p>Conferences:</p> <ol style="list-style-type: none"> <li>Jacob, P. Prakash, P. Karhana, P. Swain. "ChainAccess: Blockchain based Web-Access through Biometrics." In 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE, 2021.</li> <li>R. Kumar, S. Sahoo and P. Swain. "An Improved Flow Rule Verification Against the Priority-passing attack in SDN". In 2020 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC) (pp. 1-6). IEEE, 2020</li> <li>K. Venkateswararao, and P. Swain. "Traffic aware sleeping strategies for Small-Cell Base Station in the Ultra dense 5G Small Cell Networks." In 2020 IEEE REGION 10 CONFERENCE (TENCON), pp. 102-107. IEEE, 2020.</li> </ol>	Dr. Pravati Swain	CSE
2.	<p>Conferences:</p> <ol style="list-style-type: none"> <li>Preeti Jagadev and Lalat Indu Giri, "Infrared thermography and machine learning based patient health monitoring", SPIE, Optics and Photonics conference, San Diego, USA, August 2+D7+F6+F6:F9</li> <li>Gunjan Parihar, S Praveen, Rahul Padgaonkar, and Lalat Indu Giri, "Infrared Thermography Based Smart Irrigation Scheduling for Horticulture Plants", SPIE defense+Commercial Sensing (SI20), Anaheim, California, United States, 26-30 April 2020</li> <li>Preeti Jagadev and Lalat Indu Giri, "Infrared thermography based human respiration monitoring", SPIE defense + Commercial Sensing (SI20), Anaheim, California, United States, 26-30 April 2020</li> </ol> <p>Madhuraj Naik, Ganesh Hegde and Lalat Indu Giri "Parameter Identification to Detect Damage in Reinforced Concrete Structures using Infrared Thermography" National Conference on Civil Engineering "New and Effective Innovations, Technologies and Key Challenges 2020" (NCCE-NITK 2020), National Institute of Technology, Surathkal, Karnataka, India, 30-31 January, 2020.</p>	Dr. Lalat Indu Giri	ECE



3.	<p>Conferences:</p> <ol style="list-style-type: none"> <li>1. Preeti Jagadev and Lalat Indu Giri, "Non-contact monitoring of human respiration using infrared thermography and machine learning", <i>Infrared Physics &amp; Technology</i> 104, 103117, 2020+D7+F6+F6:F9</li> <li>2. Patanvariya, Deven G., and Anirban Chatterjee. "Modified-T Shaped Wideband Antenna for Ka-band Applications." <i>International Conference on Communication and Signal Processing (ICCSP)</i>, 2020, pp. 1654-1658.</li> <li>3. K. S. Kola and A. Chatterjee, "A Printed Array of High-gain Fractal Antennas for X-band Applications," <i>2020 International Conference on Communication, Computing and Industry 4.0 (C2I4)</i>, Bangalore, India, 2020, pp. 1-6</li> <li>4. S. B. Naik, R. K. Siddharth, A. Chatterjee, Y. B. Nithin Kumar, M. H. Vasantha and R. Kini, "A 1.8 V Quadrature Phase LC Oscillator for 5G Applications," <i>IEEE International Symposium on Smart Electronic Systems (iSES) (Formerly iNiS)</i>, 2020, pp. 277-280</li> </ol> <p>S. Bharat Naik, R. K. Siddharth, A. Chatterjee, N. Kumar Y.B., M. H. Vasantha and R. Kini, "A Wideband 12 Phase Ring Oscillator for 5G Applications," <i>IEEE 63rd International Midwest Symposium on Circuits and Systems (MWSCAS)</i>, 2020, pp. 885-888</p> <p>S. B. Naik, R. K. Siddharth, A. Chatterjee, K. Y. B. Nithin, M. H. Vasantha and R. Kini, "A 1 V Double-Balanced Mixer for 2.4-2.5 GHz ISM Band Applications," <i>34th International Conference on VLSI Design and 20th International Conference on Embedded Systems (VLSID)</i>, 2021, pp. 252-257,</p>	Dr. Anirban Chatterjee.	ECE
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4.	<p>Conferences:</p> <ol style="list-style-type: none"> <li>1. A Muzumdar, C. Modi and C. Vyjayanthi, "An Efficient Regional Short-Term Load Forecasting Model for Smart Grid Energy Management," IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society, 2020, pp. 2089-2094. IEEE, Singapore.</li> <li>2. N. Singh, C. Vyjayanthi and C. Modi, "Multi-step Short-term Electric Load Forecasting using 2D Convolutional Neural Networks," 2020 IEEE-HYDICON, 2020, pp. 1-5, doi: 10.1109/HYDICON48903.2020.9242917. IEEE, Hyderabad.</li> </ol>	Dr. Chirag Modi	CSE
5.	<p>Conferences:</p> <ol style="list-style-type: none"> <li>1. Ahoud AL Mukhaini, Motilal Lakavat, Nageswara Rao L, Saidi Reddy Parne, and Suman Gandhi, "Synthesis, Characterization of Biodiesel Production from Restaurant Waste Cooking Oil" International Virtual Conference Recent Innovations in Science &amp; Technology (RIST 2021), ERANAD Knowledge City Technical Campus, Kerala.</li> <li>2. Majan Al-Balushi, Varghese Manappallil Joy, Nageswara Rao Lakkim Setty, Motilal Lakavat, Saidi Reddy Parne and Suman Gandhi, "Experimental Investigation on Solar Photo-Fenton as Photocatalyst to Treat the Saline Water by Response Surface Methodology", International Virtual Conference Recent Innovations in Science &amp; Technology (RIST 2021), ERANAD Knowledge City Technical Campus, Kerala.</li> <li>3. Suman Gandhi, Saran Srihari Panda, Saidi Reddy Parne, Motilal Lakavat and Shyam Sundar Gandhi, "Green synthesis of carbon quantum dots embedded onto titanium dioxide nanorods for enhancing photocatalytic activity", International Virtual Conference Recent Innovations in Science &amp; Technology (RIST 2021), ERANAD Knowledge City Technical Campus, Kerala.</li> <li>4. Rohit K. Jain, Harish K. V. Gadiraju, B. V. Reddy and P. Saidi Reddy, "High-performance MPPT Controller Based on Adaptive Sliding Mode Control", 2020 21st National Power System Conference (NPSC), IIT Gandhinagar, India, 2020</li> </ol>	Dr. Saidi Reddy Parne	Applied Sciences



6.	<p>Conferences:</p> <p>1. Aswini K. Samantaray and Amol D. Rahulkar, "Lifting Scheme Based Image Retrieval in Medical CT and MRI Databases", 2020 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC), 2020, pp. 1-6, doi: 10.1109/iSSSC50941.2020.9358908. SEPT 2020</p>	Dr. Amol D. Rahulkar	EEE
7.	<p>Conferences:</p> <p>1. R. K. Jain, G. H. Kumar Varma and V. R. Barry, "A Current Controlled MPPT with Sliding Mode Control to Improve the Performance of Two Stage Water Pumping System," 2020 9th IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 2020, pp. 1-5.</p> <p>2. R. K. Jain, H. K. V. Gadiraju, V. R. Barry and S. R. Parne, "High Performance MPPT Controller based on Adaptive Sliding Mode Control," 2020 21st National Power Systems Conference (NPSC), 2020, pp. 1-6.</p> <p>3. D. Kumar, H. K. Varma Gadiraju and B. V. Reddy, "Improved ODD-EVEN Technique for Effective Shade Dispersion in TCT Configuration," 2020 9th IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 2020, pp. 1-6.</p> <p>4. D. Kumar, H. K. Varma Gadiraju and V. Reddy, "Self Adaptive Particle Swarm Optimization Based Global Maximum Point Tracking Algorithm for Photovoltaic Systems," 2020 IEEE 17th India Council International Conference (INDICON), 2020, pp. 1-6.</p>	Dr.B. Venugopal Reddy	EEE
8.	<p>Conferences:</p> <p>1. VG Bhat, HP Pranaav, S Mini, D Tosh: Blockchain-centric Resource Management System for Disaster Response and Relief, 11th International Conference on Cloud Computing, Data Science &amp; Engineering (Confluence), 540-545, 2021.</p> <p>2. V Dhaimodker, R Desai, S Mini, DK Tosh: Quality-driven Energy Optimization in Internet of Things, 29th International Conference on Computer Communications and Networks (ICCCN), 1-8, 2020.</p>	Dr. S Mini	CSE



9.	<p><u>Conferences:</u></p> <p>"1. Payal Sharma, Purushothama B R, "Analysis of Traditional Secure Group Key Management Schemes in Secure Multi-Group Communication", In: 2020 International Conference on Communication and Signal Processing (ICCSP), pp. 195-199, 28 to 30 July 2020, Melmaruvathur, Tamilnadu, India, IEEE. DOI: 10.1109/ICCSP48568.2020.9182102 [Scopus indexed</p>	Dr. Purushothama B R	CSE
10	<p><u>Conferences:</u></p> <p>1. D. K. Rout, B. N. Subudhi, T. Veerakumar, and S. Chaudhury, "Prominent Object Detection in Underwater Environment using a Dual-feature Framework", 31st IEEE OCEANS, accepted, Singapore, 2020.</p> <p>2. M. K. Panda, B. N. Subudhi, T. Veerakumar, and M. S. Gaur, "Edge Preserving Image Fusion using Intensity Variation Approach", 16th IEEE TENCON, accepted, Osaka, Japan, 2020.</p> <p>3. A. Mahindrakar, M. P. Chodankar, R. Kumar, T. Veerakumar, and B. N. Subudhi, "Gaussian Mixture Model and Color Separation Models for the Arc-Flashover Detection", IEEE International Symposium on Sustainable Energy, Signal Processing &amp; Cyber Security (IEEE-iSSSC 2020), Gunupur, India, 2020. (Best Paper Award)</p> <p>4. M. K. Panda, B. N. Subudhi, T. Veerakumar, and M. S. Gaur, "Pixel-level Visual and Thermal Images Fusion Using Maximum and Minimum Value Selection Strategy", IEEE International Symposium on Sustainable Energy, Signal Processing &amp; Cyber Security (IEEE-iSSSC 2020), Gunupur, India, 2020.</p>	Dr. T. Veerakumar	ECE



11	<p><u>Conferences:</u></p> <p>1. Jayesh Priolkar, E.S. Sreeraj, and Govind Kunkolienkar "Clustering based Consumer Baseline Estimation for Demand Response Implementation," Proc. of 21st National Power Systems Conference, Gandhinagar, Dec. 17-19, 2020. DEC 2020</p> <p>2. V. R. Reddy and Sreeraj E. S, "Unipolar Modulated Voltage Sensor-less One-Cycle Controlled Inverter for Grid Connected PV System," 2020 IEEE First International Conference on Smart Technologies for Power, Energy and Control (STPEC), Nagpur, 2020, pp. 1-6, doi: 10.1109/STPEC49749.2020.9297742. SEPT 2020</p>	Dr. Sreeraj ES	EEE
12	<p>"Amrita Naik, and Damodar Reddy Edla, Lung tumor classification using CNN and GLCM based features, International Conference on ICT For Sustainable Development (ICT4SD-2020), 23 - 24 July, 2020, Panaji, Goa, India, ICT Systems and Sustainability: Advances in Intelligent Systems and Computing, Springer, Vol 1270, pp.157-163, 2021, <a href="https://doi.org/10.1007/978-981-15-8289-9_15">https://doi.org/10.1007/978-981-15-8289-9_15</a>"</p> <p>Amrita Naik, and Damodar Reddy Edla, Lung Nodule Classification Using Combination of CNN, Second and Higher Order Texture Features, Sixth International Symposium on Intelligent Systems Technologies and Applications (ISTA'20) 14-17 October 2020, VIT, Chennai, India, IOS Press, , Vol. Pre-press, pp.1-9, 2021, 10.3233/JIFS-189847</p> <p>Amrita Naik, Damodar Reddy Edla, and Venkatanareshbabu K, A combination of FractalNet and CNN for Lung Nodule Classification, 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) 1-3 Jul 2020, IIT Kharagpur, India, IEEE , pp.1-7, 2020, 10.1109/ICCCNT49239.2020.9225365.</p>	Dr. Damodar Reddy Edla	CSE



13	<p>Yeduri Sreenivasa Reddy, Garima Chopra, Ankit Dubey, Abhinav Kumar, T. Panigrahi and Linga Reddy Cenkeramaddi, "Splitting Random Access Mechanism for Massive Machine Type Communications in 5G Cellular Internet-Of-Things," accepted in IEEE 32nd Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC): IEEE PIMRC 2021.</p> <p>Rashmi Rai, M. Gaglani, Soumitra Das and T. Panigrahi, "Multi-Level Constant Current Based Fast Li-Ion Battery Charging Scheme with LMS Based Online State of Charge Estimation," 2020 IEEE Kansas Power and Energy Conference (KPEC), Manhattan, KS, USA, 2020, pp. 1-6, doi: 10.1109/KPEC47870.2020.9167541.</p>	Dr. Trilochan Panigrahi	ECE
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## 7.5 Student Chapters

### *SPIE:*

SPIE, the International Society of Optics and Photonics opened its student chapter in NIT Goa in 2012 to promote research and disseminate knowledge in the field of Optical Engineering. Over the years, our chapter has been growing and conducting various activities to make the students aware of the latest advances in the field of light technology. The effort has been made by Dr. Saidi Reddy P to motivate the students to do active research in the area to contribute to the world of optics and also at the same time, conduct outreach activities for the benefit of the society. Events conducted in the year 2020-21:

#### Lecture series:

SPIE student chapter NIT Goa conducted a Lecture series: An initiative to give a platform and opportunity to the research scholars of NIT Goa to share their knowledge with the B.Tech and M.Tech students, thereby enabling exchange of ideas and build collaboration among the students.

#### Technical meme competition:

SPIE Student Chapter organized meme competition from 29th Apr 2020 to 3rd May 2020. The topic of the Technical Meme Competition: “How optics/photonics/SPIE is affecting our life!” We received a good response during the competition; only three memes got selected for the final round. The final round was based on maximum comments, likes and shares. The final round was closed on 10th May 2020 and winner was announced on the same day.

Photography contest on International Day of Light (IDL): SPIE student chapter NIT Goa has conducted photograph competition on the occasion of International Day of Light (IDL). It is an annual, global initiative that provides a focal point for the continued appreciation of light.

IDL aims to raise awareness of the critical role light-based technologies play in our lives, elevating science, technology, art, and culture to help achieve the goals of UNESCO – Education, equality, and peace.

### *Tech Saheli Initiative:*

SPIE NIT Goa has launched a yearlong social event Tech Saheli. Program that works towards Equity Diversity and Inclusion every human being deserves equal opportunities and respect regardless of any gender, race, and ethnicity. This event encourages equal participation of men and women in the field of STEM. All the activities that we plan will work in this direction. The chapter is grateful to the International Society of optics and photonics USA, for granting an Equity, Diversity and Inclusion grant, to support this cause. We got a great response and support for this event. The SPIE student chapter NIT Goa has conducted essay competition on topics on Gender equality in STEM 39: the need of the hour as part of the Social initiative, Tech Saheli.

The second event is “Women in STEM week” which is an attempt to appreciate all those lovely women in STEM, for their journey so far. As a part of this event, we got addressed by Ms Rukmini Singh, is an assistant professor in the Madan Mohan Malviya University of Technology Gorakhpur. Also, under Tech Saheli initiative we have started “Women Scientist Series” in which we post about women scientists and their contributions in STEM every week. Through this we try to create awareness and motivate girl students to become young scientists.



### ***Elocution Competition:***

We conducted an elocution competition for school students under two categories : 5th - 10th standard and 11th - 12th standard. The topics of the competition are :

1. My favourite woman scientist
2. My favourite invention in the field of optics and photonics

### ***SPIE Member`s Achievements:***

Preeti Jagadev, a research scholar of our college, National Institute of Technology (NIT), Goa, and Vice President of SPIE Student Chapter NIT Goa, has been listed among 25 renowned women scientists in optics across the globe by the International Society for Optics and Photonics (SPIE), USA. She is the only Indian to be featured in the list this year, and it has earned her praise from Honorable Education Minister of India, Ramesh Pokhriyal Ji. She is currently working in the area of human health monitoring using infrared thermography and artificial intelligence. Honorable Chief Minister of Goa Dr Pramod Sawant also congratulated and praised her for making Goa proud on an international platform. Our SPIE chapter wishes her success for her upcoming endeavours.

### ***IEEE STUDENTS CHAPTER***

The Institute of Electrical and Electronics Engineers (IEEE), formed in 1963, is today, the world's largest association of technical professionals with more than 400,000 members in chapters around the world. National Institute of Technology Goa is an institute member of IEEE since 2011. We started 'IEEE Student Chapter NIT GOA' in 2015 under the leadership of Dr. Ankit Prakash Dubey, Assistant Professor, Electronics and Communication Engineering. The student chapter has conducted many activities including tutorial presentations on Home Automation, Embedded Systems as well as Tesla Coil. A series of events in 2017 was also organised, which included quiz, mathematics, games and treasure hunt. These events saw a huge participation from students of all the B.Tech. as well as M.Tech. branches of NIT Goa.

### ***SPECTRA***

SPECTRA is the ECE student council of NIT Goa with the motto of providing a common platform in order to address the academic needs of students (of ECE department in particular). The activities of SPECTA for the year 2019-20 are follows. The Spectra has organised Milan 2019, a get-together party. This event was organised with the intention to break the ice and increase interaction between the students and faculty and to create a sense of togetherness in the department. In January, the Spectra has organized 3 day workshop programme for primary school students by visiting the schools at Ponda, Goa. The workshop aimed to teach the students about robotics, current state of art and practical applications. On 11th February 2019, Spectra conducted a quiz event called Quiz Time. It was open for participation of students from all the departments. A total of 24 students took part in the event. Prizes and certificates were given to the winners. In March, T-shirt design contest is organized. Students from all the Departments are participated and prize is given for the best poster design. Spectra had organised an industrial visit to Siemens Industrial Corporation, Verna Goa on 13th April 2019. This trip helped the students learnt not only about engineering processes, but also got exposure to the various industrial manufacturing processes and technologies used.



## ***TESLA***

The Electrical Students Luminous Association (TESLA) is a students' club run by students from the EEE Department. TESLA organised two field visits for students in November 2019. One visit was at Agrawal Renewable Energy Pvt. Ltd., Goa, and the other was to Colvale Power Grid, Mapusa, Goa. The club Conducted Aptitude and Programming Classes for 1st and 2nd year B. Tech students for an hour on a daily basis from 23rd September 2019 to 18th October 2019. Swachh Bharat Campaign was planned to be organized at the end of every month and has been conducted in the month of January-2020 and February-2020.

## ***VIVEKANANDA STUDY CIRCLE***

Vivekananda Study Circle at NIT Goa was formed on 21<sup>st</sup> January 2016. This study circle aims at Nation Building through Man Making. Members have made a Whatsapp and Facebook groups for discussion. The club members meet on every Thursday at 5:15 p.m. for philosophical discourse, guided meditation, lectures and activities related to mind games. The club celebrated the National youth day on 12th January and Vivekananda Janma tithi on 19th January 2019. Prof. V. M. Gadre, of IIT Bombay was invited for a talk on youth day. He explained the anecdote “Arise, Awake and Stop Not Till the Goal is Reached”. He inspired the students to have big dreams like Vivekananda.

## ***Saavyas-2020***

It was the third edition of the annual techno-cultural fest of National Institute of Technology Goa. It was a three-day event held from 7<sup>th</sup>-11<sup>th</sup> March 2020, involving technology, music, arts, dance, and drama enthusiasts from all over the country through competitions and performances. The name Saavyas is derived from a Sanskrit word meaning 'bringing people together.' Saavyas'19 was the perfect fest to bring both technology and culture onto one platform. The event was held within NIT Goa campus and at Rajiv Gandhi Kala Mandir and experienced a footfall of one thousand.

The 3rd edition of Saavyas started off on the 7th of March'20 in pompous colors with students swarming the NIT Goa campus in large numbers. It was a three-day event involving technology, music, art, literature and quiz enthusiasts across the country through competitions and performances. With infectious zeal and bright spirits notable in the air, the events witnessed wholehearted participation from 29 colleges.

The event commenced on a high note with an inspiring speech from a prominent personality – Mr. Rahul Bhatnagar, on how to achieve success in life. The inauguration night also witnessed band performance by “Shantanu” and his team. The energy was high in the Pavilion where the Preliminary round of Robo Wars and Robo Soccer competitions started in full swing.

To build up the hype, Saavyas Team organized various Pre-Events such as Natarang – Inter Branch cultural competition and various workshops.

The fest hosted more than 30 events such as Drone Prix, Futsal, FIFA, Arduino Challenge, Table Tennis and Chess which attracted a huge turnout from the crowd. The technical events were open to all whereas the cultural events were clubbed together under the 'Cultural College Trophy' where different colleges had to compete to win the cultural trophy which ended up in the hands of Goa Engineering





Along with the events, the *Saavyas* Team sought to include various tech – talks about new age studies such as Machine Learning. Also, this *Saavyas* held Women in Data Science initiative which aims to inspire and educate data scientists worldwide, regardless of gender, and to support women in the field.

One of the big highlights was the fashion show based on the theme of 'Ek Bharat Shreshtha Bharat'. Contestants dazzled the stage as each of them walked the ramp and wowed the judges with their fashionista skills. With the help from Director, NIT Goa, faculty and students and various sponsors, third edition of the fest was a remarkable event.

### ***Hackathons***

Hackathons facilitate the creation of innovative ideas and encourages the students to apply their knowledge to build a product in a very short amount of time. The Software Edition of Smart India Hackathon is a 36-hour non-stop digital product development competition, where problems are posed to technology students for innovative solutions. A team of students- Aditya Tirmanwar, Archit, Rajit Mistry, Soaib Khan, Akash Srivastava, and Sireejaa Uppal, B.Tech. batch 2017-2021, was shortlisted to the finals of SmartIndia Hackathon 2020. The Hackathon was held simultaneously at 40 virtual nodal centers across the country in August, 2020. Jovian D'Souza, Rohit Kartik and Piyush, B.Tech. batch 2018-2022, were selected to the finals of Smart Panaji Hackathon (under the India-EU Partnership Project on Collaboration for ICT Standardisation), which was held on 9-10 January, 2020. The themes of the hackathon included water, air quality and pollution monitoring; transportation and mobility; climate change and disaster management; and energy efficiency in smart buildings.

### ***NPTEL (MOOC Course)***

At NIT Goa, NPTEL study centre is functioning since 10th August 2015, which is a part of e-SWAYAM platform, MHRD, GOI. NIT Goa has included NPTEL courses in the UG and PG curriculum and offered as elective and blended courses since 6th January 2016. In addition, all the NPTEL video lectures and other materials are collected and made them available at NIT Goa library website. The NPTEL lectures are regularly updated on NIT Goa website. Such lectures help the NIT Goa students to learn the relevant courses in addition to their course work. Such a study is improving their critical thinking capabilities and exploring newer topics in the relevant fields. For this, NIT Goa is providing lab resources and course related additional material with faculty support to our students in order to make them comfortable for reading and attending NPTEL courses. NIT Goa faculty and students are using this platform to improve teaching learning process

### **Start-Up Centre**

National Institute of Technology Goa has been sanctioned a Startup Centre with joint funding from Ministry of Human Resource and Development (MHRD) and Department of Science and Technology (DST), Government of India. This is one among the thirteen new startups, established in Technical Institutes of National Importance. The primary objective of this centre is to develop an ecosystem of Startup culture for the betterment of the society at large, by producing job givers rather than job seekers. The centre would host up to 10 Startups with financial, technical and legal supports, every year.

## 7.6 STUDENTS' ACHIEVEMENTS:

Ms. Aravati Ganga Pratima secured the 3rd position in Knockout\_Vivad an International online debate competition organized by NITJ officials with 150+ Institutes across the globe held on Nov 7th 2020. She also won the first place for mock interview at PRATIKRIYA 2020 an inter college event conducted by Goa College of Engineering and has also participated in the inter NIT chess competition 2019. Mr Mayank Ashtikar was in one of the top 350 out of 6500 participants of YLS IIM Bangalore and he secured 37th position. He was among the top 10 performer of CA programme, Drona IIM Indore. He is also very active in cultural activities and he secured the first position for group dance held at IIT Goa cultural fest and first position in Natrang-Mini Saavyas 2020 at NIT-Goa. Ms Deepthi Krishna secured second place in blind art competition at Cultrang conducted by IIT Goa. She also won the best out of waste event at PRATIKRIYA 2019 an inter college event conducted by Goa College of Engineering. Under Quanta team she won the prize for quiz at NIT Goa. Ms Krishnapriya participated in Elocution 2019 held at BITS Pilani. In PRATIKRIYA 2019 she participated in Best out of waste and treasure hunt. For mini saavyas (Natrang) she won the first place in group dance and she has also won the first place in group dance at Cultrang conducted by IIT Goa.

Ms. Tayi Sree Nithya has attended the five day online short-term course on software applications in civil engineering organized by department of civil engineering, NIT Srinagar. She has also participated in Ideathon 2019 at BITS Pilani-Goa and has participated in group dance at Saavyas at NIT Goa. Mr Sachin M Sajeewan has attended the five day online short-term course on software applications in civil engineering organized by department of civil engineering, NIT Srinagar and has participated in Ideathon 2019 at BITS Pilani-Goa. Ms Bhargavi Pilankar has participated in Ideathon 2019 at BITS Pilani-Goa.

Mr. Rajkumar Meena participated in students parliament competition 2019. He has also participated in technical event such as Staad Pro at PRATIKRIYA 2019 an inter college event conducted by Goa College of Engineering. He has attended the seminar organized by Asian Civil Engineering Coordinating Council hosted by The Institute of Civil Engineers (India) on Sept 2019. Mr Sandeep Kumar secured first position in Pro cricket tournament in saavyas 2019. Mr Rahul Shouri won the first place in sports quiz conducted by IIT Goa in cultural fest. He has also secured the first place in surprise event and was the finalist in civil engineering quiz at PRATIKRIYA 2019. In 5km marathon he has secured the first position conducted by NIT Goa. Mr Sumesh Subhash Gaude won the 3rd place in chess for saavyas 2019. In PRATIKRIYA 2019 inter college event conducted by Goa College of Engineering. He participated in inter football match and intersection (first year batch 2019) cricket match and also participated in rangoli competition at PRATIKRIYA 2019.

Mr. Kunal Nagardhane won the first place for designers hunt at Cultrang conducted by IIT Goa. In saavyas he secured the first position for surprise event and also secured the first place in group dance at Cultrang conducted by IIT Goa. Ms Mahima Rawal won the first place in group dance at Cultrang conducted by IIT Goa. In Natrang the interdepartmental competition at NIT Goa she won the first place in group dance. Mr Shubham Agarwal is the member of the photography team for the Saavyas event and has organized gaming event for Saavyas. Mr Nayan Katke has participated in CGGO tournament and has coordinated the drone prix event for Saavyas. Ms Shefali Chandu Mhaldar has participated for rangoli competition at PRATIKRIYA 2019 an inter college event conducted by Goa College of Engineering.



## COMPUTER SCIENCE ENGINEERING

The Department of Computer Science and Engineering (CSE) of NIT Goa offers B. Tech., M. Tech. and Ph.D. programmes in Computer Science and Engineering. The department aims to provide a strong foundation in the discipline and prepares the students to make intellectual contributions to society. The department has ten faculty members, out of which two faculty members are on-contract and there are three technical assistants. The faculty members of the CSE department have expertise in the following areas: machine learning, data mining, wireless sensor networks, network security, cryptography, cloud computing, pattern recognition, computer vision, and computational intelligence. The faculty members have published their research works in reputed international journals and conferences. There are 9 funded projects worth Rs. 2.79 crores with the faculty members of the department. The department has 16 Ph.D. scholars; of which ten are full-time research scholars and six are part-time research scholars. The 7th International Conference on Mining Intelligence and Knowledge Engineering (MIKE 2019) was organized at NIT Goa in December 2019. The department faculty are also involved as editor in the reputed International conferences.

The department has dedicated labs for B. Tech., M. Tech., and Ph.D. students. There are 4 high-end rack servers for computational experiments. Six students have already been awarded the Ph.D. degree from the department. Our Alumni Ph.D. students are working in reputed government institutions and also pursuing their post-doctoral research at Internationally high ranked Institute such as National University Singapore. The alumni of B.Tech and M.Tech students are pursuing their higher studies at reputed Institutions such as IISc Bengaluru, IIT Madras, IIT Mandi, IIT Bombay and IIM Bengaluru and also in abroad universities. Our B.Tech, M.Tech and Ph.D. students are publishing their works in reputed International conferences and journals. Our students were shortlisted to the finals of SmartIndia Hackathon 2020 and were also selected to the finals of Smart Panaji Hackathon which was held in 2020.

Mandar Patade (B.Tech. CSE batch 2019-2023) was ranked 51 among 5000+ participants in Elite Techno Groups Skill India Internship Program 2021. He was globally ranked 1879 in Round B and 1865 in Round D of Google Kickstart 2021. The team comprising of Mandar Patade, Aniruddh Lawande (B.Tech. ECE batch 2019-2023) and Atharva Khade (B.Tech. CSE batch 2019-2023) qualified for ACM-ICPC 2020 Regionals Round. D Viveknath (B.Tech. CSE batch 2019-2023) won the first prize in the solo dance competition, Battle of Feet, organized by IIT Goa. Raghav Sharma (B.Tech. CSE batch 2019-2023) got shortlisted to the third round of Optum Stratethon Season 3, 2021. Aritra Chatterjee (B.Tech. CSE batch 2019-2023) won the fourth prize in the Vande Mataram Out loud Contest 2021, organized by Swami Dayanand Education Foundation. Atharv Desai (B.Tech. CSE batch 2019-2023) completed the Quarks Summer Technical Project 2021, organized by BITS Goa. He had interned with Cyanodoc in 2021. Zehbar Rayani (B.Tech. CSE batch 2019-2023) participated in the hackathon organized by IIT Goa. Sarah Baretto (B.Tech. CSE batch 2019-2023) completed the mentorship program at Persistent Systems Ltd. in 2021. Vadlamudi Divyasri (B.Tech. CSE batch 2020-2024) is awarded a scholarship from the central government under the merit cum means scholarship scheme. Ann Mariya Roy (B.Tech. CSE batch 2020-2024) secured first place in the essay writing competition organized by EBSB, NIT Goa on the occasion of India's 75 years of Independence—Azadi ka Amrut Mahotsav. Jayendra Pal (B.Tech. CSE batch 2020-2024) secured 2nd position in the Freedom Run 2.0 conducted by NIT Goa. Also, he has finished in the top 5 in 5 km category of Goa River Marathon 2021. The post graduate student, Shreya Hardaha was selected for ARTPARK student innovation grant by IISc Bangalore. Four post graduate students were offered Intel internship.



### ***ELECTRICAL AND ELECTRONICS ENGINEERING***

Mr. Mayank Arora, M. Tech student of Batch 2019-2021 secured 3rd Place in Best Paper Award in IEEE Bombay Section Signature Conference (IBSSC-2021) for his paper titled "Optimized Solar PV Grid Connection for EV Charging application". One of our alumnus Mr. Kranthi was awarded Prime Minister Research Fellowship in IIT Goa. Mr. Madhu G M, PhD Student received "Australian Innovation Patent" on "Smart Electrical Node and its Control Method". Mr. Shravan R V S E, PhD Student received "German Utility Patent" on "Three Phase Interlinking Converter and its Control Method for Standalone Hybrid AC-DC Microgrid Operation".

PhD scholars Ms. Chavan Vinaya Chandrakan, Mr. Praveen Kumar Bonthagorla, Ms. Aditi Atul Desai, Mr. Suneel Raju Pendem, Mr. Madhu G. M., Mr. Shravan R, M. Tech students Mr. Ratnakar Babu Bollipo, Ms. Dharani Kolantla published their research work in reputed journals such as IEEE CSEE Journal of Power and Energy Systems, Engineering Reports – Wiley, IET Renewable Power Generation and International Transactions on Electrical Energy Systems, WILEY. Mr. Pranose J. Edavoor published his research work in Journals of Circuits, Systems and Computers.

### ***ELECTRONICS AND COMMUNICATION ENGINEERING***

Department of ECE conducted online FDP jointly with Don Bosco College of Engineering, Fatorda, Goa on "Recent Trends in R.F. and Microelectronics" from 31st August 2020 – 4th September 2020. ECE Faculty members Dr. Vasnatha M H, Dr. Nithin Kumar Y B, Dr. Anirban Chatterjee, Dr. Pragati Patel, Dr. Mallikarjun E, Dr. Lalat Indu Giri, delivered expert lectures for the participants. Dr. Anirban Chatterjee has published nine (09) research papers in the year 2020, out of which five (5) papers have been published in various international journals (SCI indexed) and four (4) papers have been published in international conferences. Dr. Pragati Patel got elevated to IEEE Senior member grade in June 2020. Ph.D. Ms. Preeti Jagadev, Ph.D. student who has been enlisted as one of the 25 renowned women scientists in optics around the world, by SPIE USA under the guidance of Dr. Lalat Indu Giri. She is the only Indian to be featured in the list this year, which includes scientists from NASA USA etc. Ph.D student, Mr. Abhijit C. Goankar and Mr. Ayyappan guided by Dr. Pragati Patel were selected for Ph.D. Initiative program in IEEE MTT-S International Microwave and R.F. Conference (IMaRC) from 13-15 December 2019 at IIT Bombay. Under this program, he was provided with T.A. and DA by the conference to attend the conference. His team was at 3rd place in the student activity program in the same conference. M.Tech VLSI student Mr. Sanmitra Naik secured the first position for the M.Tech batch 2018-20 batch. M.Tech ECE student Mr. Suraj Singh Dohar was selected in Siegen University, Germany for the research position. Another M.Tech student Mr. Jaya Satya Narayana got selected in university of Pavia, Italy. B.Tech students, Ms. Swathi Sivadas M (Roll No. 16ECE1024) and Monika Yadav's (Roll No. 16ECE1015) guided by Dr. Pragati Patel presented a research paper on "Starfish-Shaped MIMO Dielectric Resonator Antenna" has been accepted for the 17th IEEE India Council International Conference (INDICON 2020) to be held on virtual mode during 11-13 December 2020 at Netaji Subhas University of Technology, New Delhi. B.Tech ECE student Mr. Vishal Rathod (2020 Batch) selected in IIM Bangalore for MBA Program. B.Tech ECE student Ms. R.Kousalya Final Year B.Tech Student (2020 Batch) selected in Masters programme at Purdue University, USA. B.Tech ECE student Mr. Mitra Prasant Chodankar Final Year B.Tech Student (2020 Batch) selected in Singapore Management University and Cranfield School of Management London. B.Tech ECE student Mr. Harsh Hegde Final Year B.Tech Student (2020 Batch) selected in M.S program at the Pennsylvania State University and the University of Colorado, Boulder.



## *CIVIL ENGINEERING*

The first batch of Civil Engineering students are actively involved in the placement activities at the institute. Some of them have already secured placements at reputed firms: Mr. Mayank Ashtikar (Capgemini), Mr. Niraj Shenvi Kerkar (Tredence Analytics), Mr. Sanat Shetye (Larsen & Toubro), Siddhant Naik (Cognizant Technologies), Rajkumar Meena (HCL), Tayi Sree Nithya (HCL).

Ms. Aravati Ganga Pratima, a third year B.Tech student, was the winner for an extempore Competition, SUNERGOS 2021, an Inter-University Fest conducted by Christ College, Delhi NCR. She was a finalist in ICon Entrepreneurship Competition, among 300 teams, organized by IIT Gandhinagar. She is a certified #IamRemarkable Facilitator and awarded as a Silver Tier facilitator. #IamRemarkable is a Google Initiative empowering women and underrepresented groups to celebrate their achievements in workplace and beyond. Ms Shefali Chandu Mhaldar, a third year B.Tech student, participated in Alfaaz (poetry), organized by EBSB club, NIT Goa. Mr. Nayan Katke, a third year B.Tech student, participated in poster design competition, organized by EBSB club, NIT Goa. Ms. Shaivi Chanekar, a second year B.Tech student, secured the second position in Alfaaz (poetry) and participated in the non-digital poster making competition (Kalaakriti), organized by EBSB club, NIT Goa. Ms. Fardeen Hasan Sheikh, a second year B.Tech student, secured first position in essay competition, third position in Poetry competition and third position in Muhavra (Idiom) competition, organized by the Raj Bhasha Samiti of NIT Goa. She also secured the third position in English essay competition by EBSB, NIT Goa. Mr. Aman Arya, a second year B.Tech student, participated in the non-digital poster making competition (Kalaakriti) and poetry (Alfaaz), organized by EBSB club, NIT Goa. He also participated in poster making competition organized by IIT Palakkad. Mr. Sameer Mahato, a second year B.Tech student, participated in singing competition (Sargam), organized by EBSB club, NIT Goa. Ms. Bharghavi Pilankar, Final year B.Tech student has participated in a Poster and Video Making Competition conducted by Unnat Bharat Abhiyan for creating awareness about COVID-19 pandemic. Her poster was selected from the Institute and was sent for Regional Level Competition held at IIT Bombay.



## ***MECHANICAL ENGINEERING***

The Department of Mechanical Engineering one of the youngest departments in NIT Goa, was established in 2018. It presently offers B.Tech. programme in Mechanical Engineering. Currently, there are 5 faculty member which includes 3 Ad-hoc Faculty members, one technical assistant and one office staff member in the department. The faculty members of the department have expertise in the following major areas: Design for Assembly, Ergonomics, Virtual Reality, Reverse Engineering, Product Design for Elderly and Kids, Additive Manufacturing, Experimental and Numerical Fluid Flow, CFD, Multi-Phase Flow, Micro and Nano Heat Transfer, Fracture mechanics, Cyclic plasticity, Fatigue failure, Cryogenic deformation, Finite element method, extended finite element method, Computational mechanics, etc., The faculty members expertise helps to nurture curiosity in research among student thereby impart quality teaching in the field of Mechanical Engineering. The department has fully equipped Workshop, Drawing Hall and CAD/CAM Lab. The CAD/CAM lab is equipped with the latest industry- oriented design, modeling and analysis softwares like ANSYS, Solidworks, CATIA, AutoCAD, etc. Along with this, it has hardware like CNC milling and 3D printer to link with the software. The facility of workshop and CAD/CAM is extended other department students in doing their project and research activities.

The faculty members have published their research works in reputed international journals and conferences. A total of 34 research papers in journals, 21 research papers in conference proceedings and 1 book chapter were published by the faculty members of the department. The faculty members have published their research work in various reputed journals like - International Journal of Concurrent Engineering with Research Application, Langmuir, Physics of Fluids, International Journal of Thermal Sciences, International Journal of Heat and Mass Transfer, Fatigue and Fracture of Engineering Materials and Structures, Journal of Materials Engineering and Performance, Mechanics of Advanced Materials and Structures, etc.

The Mechanical Engineering Technical Association (META) of Department of mechanical engineering, NIT Goa was inaugurated in the academic year 2019-2020. The activities of association aimed to bring about the technical progress of students by organizing seminars, workshops and other activities. As a part of this association, 3 industrial visit which include Goa shipyard, Vasco and workshop on Arduino were organized. Also, a National level symposium on Advances in Manufacturing Engineering AUREUS 2020 was organized and the chief guest of the event Dr. U Chandrasekhar, Program Director, AddWise Wipro3D, Bangalore inaugurated the event and delivered session on Workshop on Advanced Additive Manufacturing technology. The students of Department of Mechanical Engineering are actively involved in various academic and non -academic activities.

Ms. Priyancy Gautam, B.Tech 3rd year, titled as Miss Umang 2019 in Umang (Dandiya night), NIT Goa and has won second place in duet dance with Ms. Alisha Vijay Thorat, of B.Tech 3rd year in Natrang, NIT Goa and Mr. Shivam Mahesh Naik, B.Tech 3rd year has participated in face painting, t-shirt painting in Cultrang 2020, IIT Goa, participated in table painting in Tathastu 2020 at Parvathibai Chowgule College, Goa and Presented BioNEST IDEATHON 2019 at BITS Goa. Mr. Abhishek Prasad and Yashvendra Sengar of B.Tech 3rd year along with faculty member Mrs. B. Santhi presented a Conference paper at FTMMME2020 at NIT Raipur. Mr. Varun Gangodkar, B.Tech 2nd year, has won Table-Tennis title for the event Tathastu, 2020 in Parvathibai Chowgule College, Goa, 2nd place in Table tennis in Saavyas, NIT Goa and runner up team member of cricket match for Director's cup in NIT Goa. Mr. Abhinav Upadhyay, B.Tech 2nd year, secured 1st position in Goan games at Tathastu in Parvathibai Chowgule College, Goa and runner up team member of cricket match for Director's cup in



NIT Goa. Also, he Participated in Elocution competition at BITs Goa, organised by Goa Shipyard, Creative photography competition at St. Stephen's College which won one of the best creative photography and Participated in Drona'2020 at IIM Indore. The team member from B.Tech 2nd and 3rd year student consists of Mr. Pranay Kumar Dumolia, Mr. Sanjeevnaidu Addala, Mr. Abhinav Upadhyay, Ms. Priyancy Gautam, Ms. Alisha Vijay Thorat, Ms. Betapelli Hema Sri, Ms. Aachal Laxmikant Naik has won 1st prize in group dance at Natrang, NIT Goa and Cultrang, IIT Goa.

### ***HUMANITIES AND SCIENCES***

The Department of Humanities and Sciences has seven regular faculty members and three ad-hoc faculty member from five different disciplines namely Mathematics, Physics, Chemistry, English and Economics. Apart from them, the department has two lab assistants and a technical staff. The major areas of faculty expertise include- Applied Mathematics, Linear and nonlinear stability problems, Bio-medical Imaging and Inverse problems, Numerical Optimization, Mathematical Biology and Partial Differential Equations; Fiber Bragg Grating Sensors, Fiber Optic Sensors, Magnetic Motor; Electron Paramagnetic Resonance of Transition Metal Ions and Organic Free Radicals; Comparative Literature, Applied Linguistics, Gender Studies, Industrial Economics, Intellectual Property Rights and Economic Development. The department has currently eleven regular and one part-time Ph. D. scholars, one junior research fellow, pursuing research in different areas.

### ***FACULTY ACHIEVEMENTS:***

Dr. Harish N has published his papers in reputed conference publications for the paper titled "Application of artificial neural network (ANN) in the prediction of displacement of RC frame subjected to the earthquake" published in Recent Trends in Civil Engineering, Springer as Lecture Notes in Civil Engineering. 2020, 77, pp. 43-54. and "Experimental Investigation on Flexural Behavior of Voided RCC Beams with Voids in Both Compression and Tension Zone" published in the 2020 World Congress on the 2020 Structures Congress (Structures 20) 25-28, August 2020, GECE, Seoul, Korea.

He has delivered lectures as resource person on "Application of Soft Computing Techniques in Civil Engineering" a five day faculty development programme on "Emerging trends in Civil engineering" organized by Atria Institute of Technology, Bengaluru, India, 23rd to 28th September 2020 and on "Optimization Techniques and their Application in Civil Engineering" a five days faculty development programme on "Application of Artificial Intelligence in Civil Engineering-AAICE2020" organized by J.N.N College of Engineering, Shivamogga, India, 20th to 24th July 2020.

For the International Conference on Recent Trends in Science & Technology (ICRTST-222020) organized by AAATME College of Engineering, Mysuru, India on 17th and 18th June 2020 he was a session chair. In the M.Tech Project evaluation he has been the External Examiner. He has also been the external examiner for the two M.Tech Project evaluation in MSRIT, Bengaluru and one Mtech project evaluation in NIE, Mysuru. In two reputed journals such as Material today proceedings and IEI Series (A) he is the reviewer.

Dr Harikumar M has delivered two lectures on Research Methodology and Scientific Writing, organized by Sree Buddha College of Engineering, Kerala, during June 2020 and Mathematical Modelling in Civil Engineering, organized by SCMS School of Science and Technology, Kerala, during August 2020. He has published two book chapters, one titled, Treatment of Well Water

Contaminated with Septic Tank Effluent using a Modified Compacted Sand Filter, in Lecture Notes in Civil Engineering (Springer), Volume 104, pp. 1-9, and the other titled, Treatment of Grey water in College of Engineering Vadakara, in Lecture Notes in Civil Engineering (Springer) (accepted for publication)

He has co-authored a paper titled Coir Based Hybrid Geosynthetics - A Sustainable Approach, published in the Proceedings of the International Seminar on Coir and Natural Fibre Products, Coir Kerala 2019. He has attended 6 online short term training programs and faculty development programs, during 2020, including the Indo-Canadian Workshop on Interactive Design in Geotechnical Engineering: Theory to Practice, jointly organized by NITK Surathkal, IIT Kanpur, The University of Ottawa and the International webinar on "Alternative of retrofitting for ground soft story formation using concrete web stiffeners", International Journal of Advance Research Ideas and Innovation in Technology, vol. 4, no 3.

Dr. Harikumar M serves as the reviewer of the Journal of Geotextiles and Geomembranes (Elsevier), Journal of Soil Mechanics and Foundation Engineering (Springer) and Journal of Geotechnical and Geological Engineering (Springer).

Mr. Tanvesh U Dabholkar attended a seminar on coastal zone water management organized by water resource department, Bureau of Indian Standards, New Delhi in association with CSIR-National Institute of Oceanography at Donapaula, Goa on 13th March 2020 and a seminar on improvements to engineering governance through common ethic standards and application of geosynthetics for various civil engineering disciplines organized by Asian Civil Engineering Coordinating Council hosted by The Institute of Civil Engineers(India) on Sept 27 2019.

He has attended various workshops such as Earthquake Resistant Design of High Rise RCC Structures - Modelling, Analysis & Design by Prof (Dr.) Yogendra Singh, 2020, Deliberations post revisions in code – 1893: 2017 & 13920:2016, Epicons Consultants, 2017 and Performance Based Design, Epicons Consultants 2017.

He has also published his research in reputed conferences and journals. He has co authored a paper titled "Review on seismic performance based design of framed structure", International Conference on Advances in Science, Technology and Engineering, Mumbai. and "Alternative of retrofitting for ground soft story formation using concrete web stiffeners", International Journal of Advance Research Ideas and Innovation in Technology, vol. 4, no 3.

Ms. Vanessa Fernandes has attended online training programs such as Indo-Canadian Workshop on Interactive Design in Geotechnical Engineering: Theory to Practice, jointly organized by NITK Surathkal, IIT Kanpur, The University of Ottawa held on 24th Sept to 2nd Oct 2020. She has participated in various webinars such as Webinar on hydration and microstructure properties of nanosilica admixed cementations mortar organized by Goa Engineering College held on June 1st 2020, Webinar on compaction and consolidation- theory and practical applications organized by Goa College of Engineering on 3rd June 2020 and webinar on structural health monitoring using piezosensors organized by Goa Engineering College on 5th June 2020. She has participated in two days National Webinar on pollution control and waste management organized by department of environmental engineering Kolhapur Institute of technology on 19th and 20th June 2020 and in one day national workshop on advances in waterproofing technologies organized by Indian Concrete Institute, Goa on 16th Jan 2020. Ms. Vanessa Fernandes has also attended seminars such as a seminar on Coastal Zone Water Management organized by Water resource department, Bureau of Indian





Standards, New Delhi in association with CSIR-National Institute of Oceanography at Donapaula, Goa on 13th March 2020 and a seminar on improvements to engineering governance through common ethic standards and application of geosynthetics for various civil engineering disciplines organized by Asian Civil Engineering Coordinating Council hosted by The Institute of Civil Engineers(India) on Sept 27 2019.

She has presented her papers in various symposiums for the paper titled "Sustainability and its impacts in Geo technical Engineering" on Symposium on recent advances in Sustainable Geotechnics at IIT Kanpur Oct 2019. In various international conferences she has presented her papers such "Soil nailing for slope strengthening & design ",2nd International conference on Advances in concrete, structural & Geotechnical Engineering at BITS Pilani-Rajasthan ,"Measurement & Estimation of saturated hydraulic conductivity of soil ",Conference on Numerical modeling in Geomechanics held at IIT Roorkee ,"Advances in soil nailing & Practice",International conference on Geotechniques for infrastructure projects held at LBSITW,Thiruvananthapuram in association with IGS,Thiruvanthapuram Chapter and "Flyash based Geopolymer", International conference on Advances in concrete technology,materials &construction practices.

#### **7.7 SPORTS AND CULTURAL ACTIVITIES**

Sports fest at NIT Goa is started with the Independence football cup 2018. The event was seven side football event and it's an Inter Year Competition. Then B.Tech 2nd year was the winners. Inter Year sports fest was organised during the month of September. The main intention of the event is to find out the ability and skills of students in various games. Mini Marathon (Freedom run 6km) was organised on 31-10-2018 during the Rashtriya Ekta Divas. Majority of Faculties, Staffs and students were actively participated in the event. NIT Goa took part in All India Inter NIT football tournament held at NIT Rourkela, Athletics organised by NIT Warangal. INVICTUS - Annual sports fest of NIT Goa was organised in last week of February 2018. The events are extended for fifteen days to complete all the games and the event organised in department wise. The previous year CSE was the champions with massive points. Football, Volleyball, Cricket, Mini cricket for girls, Throw ball for girls, Carom, Table Tennis, Chess, Kabadi games were organised during the Annual Sports. Director's Cup Volleyball was organised in the month of April 2019. B.Tech 3rd year were the champions and event was conducted in the year wise. Faculty and Staff teams also actively participated. All India Sports Officers meeting was held in NIT Goa on 8th June 2018. Apart from that NIT Goa organised All India Inter NIT Faculty and Staff tournament from 7 to 9 December 2018. The competition was conducted in Badminton, Table Tennis and Chess. NIT Kurukshetra was overall champions in the event.

## 8.0 OUTREACH CELL ACTIVITIES

### *Rashtriya Avishkar Abhiyam (RAA)*

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.

The Objectives set forth are:

- To enable children become motivated and engaged in Science, Mathematics and Technology (SMT)
- To create curiosity, excitement and exploration among school children in SMT
- To create a culture of thinking, inventing, tinkering and doing towards enquiry based learning
- To achieve learning levels appropriate to the class of study in Science and Mathematics
- To encourage and nurture schools to be incubators of Innovation

In order to realize these objectives, the MHRD sought the involvement of Higher Education Institutes (HEIs) such as IITs, NITs, IISERs, etc as Mentoring Institutions to mentor the neighborhood higher secondary, secondary and primary schools for 5 years. The specific intervention is sought in the following:

- Mentoring of Teachers
- Mentoring of School Science Facility
- Mentoring of Schoolchildren by graduate students of the HEIs
- Internship of school children at HEIs

Organization of Workshops:

One week Summer Faculty Development programme for high school teachers:

A Faculty Development Programme (FDP) will be designed to

- (i) Develop an appreciation for the teachers' training in view of changing roles and responsibilities
- (ii) introduce latest inventions in science and technology, advanced topics in SMT
- (iii) Hands on problem solving techniques in SMT and Field trials.



Highlights of the programme of 2019:

- Teachers training Schedule: 23rd -27th July 2019
- Total Number of participants: 60 High school Science and Mathematics teachers across Goa

Hon'ble Governor of Goa, Smt. Mridula Sinha Ji inaugurated the workshop on 23rd July 2019 at 11.00 a.m. in the seminar hall of NIT Goa in the presence of Shri. Avaneesh Tripathi, national Programme Advisor of RAA-MHRD, Shri. Javed Ali Khan, Programme Director, pan India mentoring of RAA by UNISED, (Unit of Science and Educational Development) - IIT Kanpur, and Smt. Nila Mahanan, IAS, Secretary Education, Govt.

The institute has conducted the following four major programmes under Rastriya Avishkar Abhiyaan (RAA) Programme with help of SCERT, Govt. of Goa.

1. Understanding Science through Experiments: An Initiative of RAA
2. Make a change
3. All Goa Science Fair
4. Teacher Training Programme

### ***Unnat Bharat Abhiyan (UBA)***

The Ministry of Human Resource Development (MHRD), in the year 2014 has launched a programme called Unnat Bharat Abhiyan with an aim to connect the institutions of higher education, including Indian Institutes of Technology, National Institutes of Technology and Indian Institutes of Science Education & Research with local communities to address the developmental challenges through appropriate technologies. The mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying developmental challenges and evolving appropriate solutions for accelerating sustainable growth. The Unnat Bharat Cell of the institute has been officially constituted on October 2015 and the Institute has adopted five villages (a) Keri (Priol) in Ponda taluka (b) Kalay village in Sanquem taluka of South Goa (c) Macazana and Guirdolim village in Salcette taluka of South Goa, and (d) Keri in Sattari Taluka of North Goa, under this program. Various programs including field visits to the adopted villages, conduction of house hold and village level surveys, and conduction of workshop on photovoltaic systems for students of Govt Industrial Training Institute (ITI), Farmagudi, Goa have been under taken under UBA. A team of 80



members comprising of 10 staff members and students participated in the field visit to Kalay village panchayat on 19th August 2017 and did a detailed house hold and village level survey. The village level survey is uploaded in the UBA portal, and the house hold survey of around 800 households is in the process of uploading.

### ***Swachh Bharat Abhiyan (SBA)***

Honorable Prime Minister, in his Independence Day speech on 15th August 2014, espoused the need for a clean India. He called for Swachh Bharat Abhiyaan (SBA), a massive mass movement that seeks to engage everyone in the task of cleaning homes, work places, villages, cities and surroundings, in a collective quest.

NIT Goa is actively participating in Swachha Bharat Abhiyaan (SBA) activities since its inception. The Institute has organized many cleanliness drives and awareness programs during this academic year in the surroundings of NIT Goa including the premises of the hostels. Under SBA, NIT Goa has implemented clean and green campus.

### ***Rajbhasha Samiti of NIT Goa:***

The Rajbhasha Samiti of NIT Goa is quite active since 2015. Every year, it organizes a week-long cultural programme, which includes Debate, Essay and Recitation competitions. The students participate in them with a lot of enthusiasm. The Hindi Literature Department of Goa University also collaborates with NIT Goa in this regard. Dr. Shivnarayan Patidar, Dr. Pragati Patel, Mr. Munesh, and Mr. Amit Kabiraj look after the activities of this cell.



## 9.0 PLACEMENT DETAILS OF STUDENTS FOR ACADEMIC YEAR 2020-21


**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
TRAINING AND PLACEMENT CELL**
**CAMPUS RECRUITMENT DETAILS OF STUDENTS  
ACADEMIC YEAR 2020-21**
**LIST OF COMPANIES RECRUITED STUDENTS OF THE ACADEMIC YEAR 2020-21**

Sl. No	Name of the Company
1	Lentra AI
2	Sagezza
3	Mphasis
4	Infovity
5	L&T Infotech
6	Persistent Systems
7	Reliance Jio
8	Eurofins
9	Tredence Analytics
10	Billdesk
11	Commvault
12	ZS Associates
13	Tata Power
14	Vehant Technologies
15	314e corp

Sl. No	Name of the Company
16	Sciative Solution
17	Capegemini
18	ZS Associates
19	Capegemini
20	Infosys
21	LnT Construction
22	MindTree
23	Samsung
24	Nokia
25	TCS (Off campus)
26	Goldman Sachs (Off campus)
27	knowlarity communication (Off campus)
28	Wipro (Off campus)
29	Publicis Sapiient (Off campus)

**PLACEMENT RECORD FOR THE ACADEMIC YEAR 2020-21 (Branch wise)**

Department	Total No. of Students (EL)	Total No. of Students placed	Percentage of Placements
CSE	22	22	100
ECE	19	16	84.21
EEE	11	9	81.81

EL : Eligible.

**PLACEMENT RECORD FOR THE ACADEMIC YEAR 2020-21 (Overall)**

Total No. of Students (EL)	52
Total No. of Students Placed	47
Percentage of Placements	90.38

Maximum pay package: 20 Lakhs.  
Average pay package : 7.61 Lakhs (Approx.)  
Minimum pay package: 3.5 Lakhs



## 10.0 CONVOCATION

NIT Goa celebrated its 7<sup>th</sup> convocation on 23<sup>rd</sup> December 2021, via online mode at NIT Campus. The convocation experienced a spectacular gathering of students, their parents, renowned academicians, scientists, industrialists and heads of various government departments Shri. Dharmendra Pradhan, Minister of Skill Development & Entrepreneurship, was invited as the Chief Guest of the convocation.

This year our Institute awarded B. Tech., M.Tech, and Ph.D. degrees to a total number of 143 students.

### 10.1 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 143 students. Total **76** students awarded with **B.Tech.** degree. Branch wise results are given below:

- Computer Science and Engineering : 28 students passed
- Electrical and Electronics Engineering : 24 students passed
- Electronics and Communication Engineering : 30 students passed

A total number of **45** students are awarded the **M.Tech Degree**. Branch wise results are as follows:

- Computer Science and Engineering : 15 students passed
- Power Electronics and Power Systems : 13 students passed
- VLSI : 17 students passed
- PhD : 16 students passed

**Ph.D.** degree is conferred to **16** students: 8 from ECE Dept, 2 from APS Dept, 1 from HSS Dept 3 from EEE Dept and 2 from the CSE Dept.

The DIRECTOR'S GOLD MEDAL for the outstanding all-round performance in all disciplines of undergraduate programmes of study was awarded Mr. CAJAY KUMAR of the ECE Dept for batch the 2017-2021. GOLD MEDAL for the best academic performance in the undergraduate programmes of study was awarded to awarded Mr. ARCHIT GARG of the CSE dept, Mr. AKASH SRIVASTAVA of the EEE dept, and CAJAY KUMAR of the ECE dept.

The DIRECTOR'S GOLD MEDAL for the outstanding all-round performance in all disciplines of postgraduate programmes of study was awarded to SUBARNA DHAR of the CSE dept for batch the 2019-2021. GOLD MEDAL for the best academic performance in the postgraduate programmes of study was awarded to SUBARNA DHAR of the CSE dept, ABIN ROBINSON of the EEE dept & Mr. RATHOD BALAJI SAHEBRAO of the ECE dept.

#### **Degree awarded for the Ph.D Batch**

**Ph.D.** degree is conferred to 16 students: 8 from ECE Dept, 2 from APS Dept, 1 from HSS Dept 3 from EEE Dept and 2 from the CSE Dept.





*Annual Accounts*  
*2020-2021*





**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
BALANCESHEET AS AT 31ST, MARCH, 2021**

SOURCES OF FUND		Amount in Rupees	
		Current Year	Previous Year
CORPUS/CAPITAL FUND	Sch. 1	67,92,51,955.63	43,09,12,130.08
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	2	1,07,52,269.00	94,56,720.00
CURRENT LIABILITIES & PROVISIONS	3	83,85,33,377.33	1,01,47,13,589.96
<b>TOTAL</b>		<b>1,52,85,37,601.96</b>	<b>1,45,50,82,440.04</b>
APPLICATION OF FUNDS		Current Year	Previous Year
<b>FIXED ASSETS</b>	<b>Schedule 4</b>		
Tangible Assets	4	7,82,93,625.47	8,12,32,618.47
Intangible Assets		45,29,007.00	64,87,120.00
Capital Works-In-Progress	5	18,26,08,893.00	30,74,622.00
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS			
Long Term		-	-
Short Term		-	-
INVESTMENTS - OTHERS	6	-	-
CURRENT ASSETS	7	83,86,28,016.69	97,14,91,278.37
LOANS, ADVANCES & DEPOSITS	8	42,44,78,059.80	39,27,96,801.20
<b>TOTAL</b>		<b>1,52,85,37,601.96</b>	<b>1,45,50,82,440.04</b>
<b>SIGNIFICANT ACCOUNTING POLICIES</b>			
<b>CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS</b>			
23			
24			

FOR AND ON BEHALF OF THE BOARD

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

FRN: 127641W

**DIRECTOR**  
Director

PLACE: PONDICHERRY, Pondicherry of Technology Goa  
DATE: 10/03/2021, Ponda-Goa 403 401



**CA ARCHANA KENKARE**  
PARTNER

MEM NO. 047463

**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31ST, MARCH, 2021**

PARTICULARS	Sch.	Amount in Rupees	
		Current Year	Previous Year
<b>INCOME</b>			
Academic Receipts	9	4,08,38,515.00	4,17,01,873.00
Grants / Subsidies	10	20,13,48,294.20	20,66,94,036.52
Income from investments	11	3,20,32,940.00	2,36,32,191.00
Interest earned	12	2,78,383.00	9,51,565.00
Other Income	13	7,63,874.35	17,56,527.00
Prior Period Income	14	-	-
<b>TOTAL (A)</b>		<b>27,52,62,006.55</b>	<b>27,47,36,192.52</b>
<b>EXPENDITURE</b>			
Staff Payments & Benefits (Establishment expenses)	15	11,99,87,409.00	11,45,94,451.00
Academic Expenses	16	3,75,49,122.00	4,00,43,310.00
Administrative and General Expenses	17	1,54,70,981.07	2,21,27,272.77
Transportation Expenses	18	23,46,134.00	18,39,312.00
Repairs & Maintenance	19	2,59,71,075.00	2,80,50,954.00
Finance costs	20	23,761.93	39,491.95
Depreciation	4	1,91,55,906.00	1,76,30,648.00
Other Expenses	21	-	-
Prior Period Expenses	22	-	-
<b>TOTAL (B)</b>		<b>22,05,04,389.00</b>	<b>22,43,25,439.72</b>
<b>Balance being excess of Income over Expenditure (A-B)</b>		<b>5,47,57,617.55</b>	<b>5,04,10,752.80</b>
<b>- Transfer to/from Designated Fund</b>			
Building Fund		-	-
Others(Specify)		-	-
<b>Balance Being Surplus / (Deficit) Carried to Capital Fund</b>		<b>5,47,57,617.55</b>	<b>5,04,10,752.80</b>
<b>Significant Accounting Policies</b>			
<b>Contingent Liabilities And Notes To Accounts</b>			
	23		
	24		

FOR AND ON BEHALF OF THE BOARD


  
**DIRECTOR**  
National Institute of Technology Goa  
Farmagudi, Ponda-Goa 403 401

PLACE: PONDA, GOA  
DATE: 01-10-2021

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

FRN: 127641W



  
**CA ARCHANA KENKARE**  
PARTNER  
MEM NO. 047463



**GFR 12 - A**  
 [(See Rule 238 (1))]  
**FORM OF UTILIZATION CERTIFICATE FOR AUTONOMOUS BODIES OF THE GRANTEE ORGANIZATION**  
**FINAL UTILIZATION CERTIFICATE FOR THE YEAR 2020-21 in respect of recurring/non-recurring GRANTS-IN-AID/SALARIES/CREATION OF CAPITAL ASSETS**

1. Name of the Scheme : Plan Grant
2. Whether recurring or non-recurring grants : Recurring
3. Grants position at the beginning of the Financial year
  - (i) Cash in Hand/Bank : 53,88,72,274.99
  - (ii) Unadjusted advances : 35,76,43,194.50
  - (iii) Total : 89,65,15,469.49
4. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balances of Grants received years figure as at Sl. No.3 (iii)***	Interest Earned thereon *	Interest deposited back to the Government	Grant received during the year				Total Available funds (1+2-3+4)	Expenditure incurred**	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)				
112-31	11,93,05,964.26	52,96,554.00	-	1st Instalment F.No.36 - 4/2020 - TS.III 3rd Instalment F.No.36 - 4/2020 - TS.III 5th Instalment F.No.36 - 4/2020 - TS.III 15th Instalment F.No.36 - 4/2020 - TS.III 16th Instalment F.No.36 - 4/2020 - TS.III 18th Instalment F.No.36 - 4/2020 - TS.III	dttd.23.04.2020 dttd.05.05.2020 dttd.22.06.2020 dttd.23.12.2020 dttd.09.02.2021 dttd.05.03.2021	93,00,000.00 93,00,000.00 93,00,000.00 3,07,00,000.00 1,79,00,000.00 59,00,000.00	20,70,03,518.26	6,18,08,154.50	14,51,95,363.76
112-35	40,58,57,988.86	1,28,28,554.00	-	N/A	N/A	-	41,86,86,542.86	18,39,04,873.06	23,47,81,669.80
112-36	3,36,82,488.43	14,40,325.00	-	1st Instalment F.No.36 - 4/2020 - TS.III 3rd Instalment F.No.36 - 4/2020 - TS.III 5th Instalment F.No.36 - 4/2020 - TS.III 11th Instalment F.No.36 - 4/2020 - TS.III 12th Instalment F.No.36 - 4/2020 - TS.III 14th Instalment F.No.36 - 4/2020 - TS.III 15th Instalment F.No.36 - 4/2020 - TS.III 16th Instalment F.No.36 - 4/2020 - TS.III 18th Instalment F.No.36 - 4/2020 - TS.III	dttd.23.04.2020 dttd.05.05.2020 dttd.22.06.2020 dttd.23.10.2020 dttd.04.11.2020 dttd.08.12.2020 dttd.23.12.2020 dttd.09.02.2021 dttd.05.03.2021	70,00,000.00 70,00,000.00 69,00,000.00 86,00,000.00 86,00,000.00 87,00,000.00 1,29,00,000.00 2,81,00,000.00 94,00,000.00	13,23,22,813.43	9,40,77,531.48	3,82,45,281.95
789-31	(1,90,04,199.27)	-	-	1st Instalment F.No.36 - 4/2020 - TS.III 3rd Instalment F.No.36 - 4/2020 - TS.III 5th Instalment F.No.36 - 4/2020 - TS.III 15th Instalment F.No.36 - 4/2020 - TS.III 16th Instalment F.No.36 - 4/2020 - TS.III 18th Instalment F.No.36 - 4/2020 - TS.III	dttd.23.04.2020 dttd.05.05.2020 dttd.22.06.2020 dttd.23.12.2020 dttd.09.02.2021 dttd.05.03.2021	7,00,000.00 7,00,000.00 7,00,000.00 21,00,000.00 10,00,000.00 3,00,000.00	(1,35,04,199.27)	1,12,47,057.62	(2,47,51,256.89)
789-35	31,21,834.79	-	-	N/A	N/A	-	31,21,834.79	3,34,64,657.23	(3,03,42,822.44)
789-36	(63,81,355.67)	-	-	1st Instalment F.No.36 - 4/2020 - TS.III 3rd Instalment F.No.36 - 4/2020 - TS.III 5th Instalment F.No.36 - 4/2020 - TS.III 11th Instalment F.No.36 - 4/2020 - TS.III 12th Instalment F.No.36 - 4/2020 - TS.III 14th Instalment F.No.36 - 4/2020 - TS.III 15th Instalment F.No.36 - 4/2020 - TS.III 16th Instalment F.No.36 - 4/2020 - TS.III 18th Instalment F.No.36 - 4/2020 - TS.III	dttd.23.04.2020 dttd.05.05.2020 dttd.22.06.2020 dttd.23.10.2020 dttd.04.11.2020 dttd.08.12.2020 dttd.23.12.2020 dttd.09.02.2021 dttd.05.03.2021	5,00,000.00 5,00,000.00 5,00,000.00 6,00,000.00 6,00,000.00 5,00,000.00 26,00,000.00 23,00,000.00 8,00,000.00	25,18,644.33	1,71,19,026.22	(1,46,00,381.89)
796-31	(84,51,888.33)	-	-	1st Instalment F.No.36 - 4/2020 - TS.III	dttd.23.04.2020	4,00,000.00	(57,51,888.33)	57,75,516.08	(1,15,27,404.41)



796-35	51,37,021.12	-	-	3rd Instalment F.No.36 - 4/2020 - TS.III 5th Instalment F.No.36 - 4/2020 - TS.III 15th Instalment F.No.36 - 4/2020 - TS.III 16th Instalment F.No.36 - 4/2020 - TS.III 18th Instalment F.No.36 - 4/2020 - TS.III	4,00,000.00 4,00,000.00 9,00,000.00 5,00,000.00 1,00,000.00				
796-36	56,03,420.80	1,45,406.00	-	1st Instalment F.No.36 - 4/2020 - TS.III 3rd Instalment F.No.36 - 4/2020 - TS.III 5th Instalment F.No.36 - 4/2020 - TS.III 11th Instalment F.No.36 - 4/2020 - TS.III 12th Instalment F.No.36 - 4/2020 - TS.III 14th Instalment F.No.36 - 4/2020 - TS.III 15th Instalment F.No.36 - 4/2020 - TS.III 16th Instalment F.No.36 - 4/2020 - TS.III 18th Instalment F.No.36 - 4/2020 - TS.III	2,00,000.00 2,00,000.00 2,00,000.00 3,00,000.00 3,00,000.00 3,00,000.00 13,00,000.00 14,00,000.00 5,00,000.00				
	<b>53,88,72,274.99</b>	<b>1,87,10,839.00</b>	<b>-</b>		<b>20,14,00,000.00</b>				

Component wise utilization of grants:

Grant-in-aid-General - 31		Grant-in-aid-Salary - 36		Grant-in-aid-creation of capital assets -35		Total
112-31	6,18,08,154.50	112-36	9,40,77,531.48	112-35	18,39,04,873.06	33,97,90,559.04
789-31	1,12,47,057.62	789-36	1,71,19,026.22	789-35	3,34,64,657.23	6,18,30,741.07
796-31	57,75,518.08	796-36	87,90,851.30	796-35	1,71,84,553.71	3,17,60,921.09
<b>TOTAL</b>	<b>7,88,30,726.20</b>		<b>11,99,87,409.00</b>		<b>23,45,54,084.00</b>	<b>43,33,72,221.20</b>

Details of grants position at the end of the year

- (i) Cash in Hand/Bank : 32,66,10,892.79
- (ii) Unadjusted Advances : 39,87,00,330.50
- (iii) Total: **72,53,11,223.29**

Certified that I have satisfied myself that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.

Date: 02.10.2021

Place: Faramagudi, Ponda, Goa - 403 401


Signature :   
Name : Dr. Shashidhar K. Kudari  
Registrar

National Institute of Technology Goa

\*Note: The amount of interest accrued on the account will be refunded once the accounts are finalized as per GFR Rule 230(8). Interest is allocated between different heads having positive balance as per the basis of average of opening and closing balance of respective heads before adding of interest. The interest will be refunded to MHRD, Govt. of India once instructions are received from the MHRD, Govt. of India.

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

\*\*\* Expenditure in PFMS does not include provisions such as Leave Encashment, Gratuity and other accrued expenses.

Signature :   
Name : Dr. Gopal Mugeraya  
Director

National Institute of Technology Goa

Faramagudi, Ponda-Goa 403 401



**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2021**

**SCHEDULE - 1 CORPUS/CAPITAL FUND**

Particulars	Amount in Rupees	
	Current Year	Previous Year
Balance at the beginning of the year	43,09,12,130.08	33,92,69,967.28
Add: Contributions towards Corpus/Capital Fund	-	-
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure	19,09,66,791.00	3,78,11,130.00
Add: Assets Purchased out of Earmarked Funds	-	-
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution	28,26,280.00	34,20,280.00
Add: Assets Donated/Gifts Received	-	-
Add: Professional Development Fund Share of Overheads of F. Y.-2017-18 transferred to Corpus	-	-
Add: Excess of Income over expenditure transferred from the Income & Expenditure Account	5,47,57,617.55	5,04,10,752.80
<b>TOTAL</b>	<b>67,94,62,818.63</b>	<b>43,09,12,130.08</b>
Less: Transfer to Earmarked Funds	-	-
Less: Other Deductions ( Transfer/Refund of MIKE Conference expenditure)	2,10,863.00	-
Less: Assets Purchased out of Sponsored Projects wrongly added earlier in respect of ownership not of institute	-	-
Less: Deficit transferred from the Income & Expenditure Account	-	-
<b>Balance at the year end</b>	<b>67,92,51,955.63</b>	<b>43,09,12,130.08</b>





**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2021**

**SCHEDULE 2 - DESIGNATED/ EARMARKED / ENDOWMENT FUNDS**

Particulars	FUND-WISE BREAK UP			Amount in Rupees	
	Institute Devt Fund	Hostel Devt Fund		Current Year	Previous Year
					TOTAL
<b>A.</b>					
a) Opening balance	93,13,188.00	1,43,532.00		94,56,720.00	83,08,000.00
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	4,07,808.00	5,741.00		4,13,549.00	3,63,720.00
f) Other additions (Specify nature) (Collected from students)					
i. Collected from Students	8,82,000.00	-		8,82,000.00	7,85,000.00
ii. Transfer from Corpus Fund	-	-		-	-
<b>Total (A)</b>	<b>1,06,02,996.00</b>	<b>1,49,273.00</b>		<b>1,07,52,269.00</b>	<b>94,56,720.00</b>
<b>B.</b>					
Utilization /Expenditure towards objectives:					
i) Capital Expenditure	-	-		-	-
ii) Fixed Assets written off	-	-		-	-
ii) Revenue Expenditure	-	-		-	-
<b>Total (B)</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>
<b>Closing Balance at the year End (A-B)</b>	<b>1,06,02,996.00</b>	<b>1,49,273.00</b>		<b>1,07,52,269.00</b>	<b>94,56,720.00</b>
<b>Represented by</b>					
Cash and Bank Balances	1,06,02,996.00	1,49,273.00		1,07,52,269.00	94,56,720.00
Investments in Fixed Deposits	-	-		-	-
Interest Accrued but not due	-	-		-	-
<b>Total</b>	<b>1,06,02,996.00</b>	<b>1,49,273.00</b>		<b>1,07,52,269.00</b>	<b>94,56,720.00</b>



**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2021**

**SCHEDULE 2A  
ENDOWMENT FUNDS**

1. Sr. No.	2. Name of the Endowment	Amount in Rupees														
		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. Endowment (3+5)	8. Accumulated Interest (4+6)	9		10. Endowment	11. Accumulated Interest					
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2021**

**SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS**

	Amount in Rupees	
	Current Year	Previous Year
<b>A. CURRENT LIABILITIES</b>		
1. Deposits from staff	-	-
2. Deposits from students (Sub Schedule 1)	3,05,85,533.33	2,61,61,505.81
3. Sundry Creditors		
a) For Goods & Services (Sub Schedule 2)	6,57,788.00	56,69,394.00
b) Others	-	-
4. Deposit-Others (including EMD, Security Deposit) (Sub Schedule 3)	25,97,010.00	27,18,004.00
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS):		
a) Overdue	-	-
b) Others (Sub Schedule 4)	5,07,008.00	4,96,992.00
6. Other Current Liabilities (Sub Schedule 5)		
a) Salaries	84,00,175.00	77,45,795.00
b) Receipts against sponsored projects(Net) (as per Schedule 3a)	1,40,18,497.71	2,40,76,303.66
c) Receipts against sponsored fellowships & scholarships (Net) (as per Schedule 3b)	5,83,029.00	3,74,270.00
d) Unutilised Grants (as per Schedule 3c)	72,53,11,223.29	89,65,15,469.49
e) Grants in advance	-	-
f) Other funds (Sub Schedule 5)	7,25,925.00	10,31,301.00
g) Other liabilities (Sub Schedule 5)	82,38,256.00	1,38,57,614.00
<b>Total (A)</b>	<b>79,16,24,445.33</b>	<b>97,86,46,648.96</b>
<b>B. PROVISIONS</b>		
1. For Taxation	-	-
2. Gratuity	1,31,17,882.00	1,15,10,065.00
3. Superannuation Pension	-	-
4. Accumulated Leave Encashment	3,35,04,850.00	2,44,59,676.00
5. Trade Warranties/Claims	-	-
6. Others (Specify) (Sub Schedule 6)	2,86,200.00	97,200.00
<b>Total (B)</b>	<b>4,69,08,932.00</b>	<b>3,60,66,941.00</b>
<b>Total (A+B)</b>	<b>83,85,33,377.33</b>	<b>1,01,47,13,589.96</b>

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, 2021

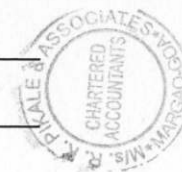
SCHEDULE - 3(a) SPONSORED PROJECTS

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	Analysis of Cardiovascular Disorders Using Heart Sound Signals- SERB-Dr. Shivanarayan Patilkar	4,67,243.70	-	-	17,906.00	4,85,149.70	4,85,149.70	-	-
2	Convective Instabilities in Double Diffusive Systems-SERB-Dr. Ravi Ragoju	3,37,888.00	-	1,00,000.00	11,862.00	4,49,750.00	2,69,196.00	1,80,554.00	-
3	Deep-Learning Assisted Tomographic Ground Penetrating Radar for the Detection of Electrical and Morphological Features of Buried Objects-SERB- Dr. Mallikarjun E.	-	-	1,90,000.00	-	1,90,000.00	-	1,90,000.00	-
4	Design and Development of Acoustic Methods for early detection of Stem and Root Borer Plocaederus spp infestation in cashew-SERB - Dr. Veerakumar T.	3,03,260.00	-	6,00,000.00	12,253.00	9,15,513.00	4,14,383.00	5,01,130.00	-
5	Design and Development of an Efficient Grid-Integrated Distributed Maximum Power Point Tracking to Photovoltaic System for Enhancing Power Quality Under Partial Shading Conditions- SERB Project-Dr. Suresh Mikhilli	4,28,132.24	-	-	8,527.00	4,36,659.24	4,36,659.24	-	-
6	Design and Development of Compact and Wideband Dielectric Resonator Antennas-SERB-Dr. Pragati Patel	31,44,002.00	-	3,61,060.00	1,31,514.00	36,36,576.00	28,80,379.00	7,56,197.00	-
7	Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)-SERB- Dr. Anmol Deodas Rahulkar	1,57,719.57	-	-	3,328.00	1,61,047.57	1,61,047.57	-	-
8	Design and implementation of an inverter for a grid connected Photovoltaic System which is a part of Virtual Power Plant sponsored by SERB - Dr. Sreeraj E. S.	4,61,059.73	-	-	8,529.00	4,69,588.73	4,69,588.73	-	-
9	Design & Development of a Dynamic Photovoltaic Array Fed Single Stage PV System Using an Open WIM-Dr.Venugopal Reddy	4,71,422.00	-	6,00,000.00	19,437.00	10,90,859.00	5,55,008.00	5,35,851.00	-
10	Design & Development of a Photovoltaic -Thermoelectric Hybrid Energy System sponsored by SERB - Dr. Lalat Indu Giri	7,95,274.88	-	-	-	7,95,274.88	7,95,274.88	-	-
11	Design & Development of Roast Distributed Nonlinear Channel Equalization & Identification sponsored by SERB - Dr. Trilochan P.	88,366.17	-	-	3,624.00	91,990.17	91,990.17	-	-
12	Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Electroencephalography (Eeg) Data -SERB- Dr. Damodar Reddy Edla	2,20,000.00	-	-	8,041.00	2,28,041.00	2,20,000.00	8,041.00	-





13	Designing Out-of-VM Monitoring Based Virtual Machine Inspection Framework for SVECC-Dr. Chirag Modi	2,97,116.27	-	-	6,384.00	3,03,500.27	3,03,500.27	-
14	Design of Compact Shaped Beam Antenna Array for Dedicated Short Range Communication Service sponsored by SERB - Dr. Anirban Chatterjee	3,15,182.57	-	-	6,261.00	3,21,443.57	3,21,443.57	-
15	Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	3,47,648.97	-	-	14,917.00	3,62,565.97	2,04,372.00	1,58,193.97
16	Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment - SERB - Dr. Chirag Modi	57,75,195.00	-	-	2,35,203.00	60,10,398.00	3,68,577.00	56,41,821.00
17	Development of a Multipurpose Intelligent Controller for a Nano Grid Operation sponsored by MNRE - Dr. C. Vijayanthi	1,65,283.00	-	-	6,201.00	1,71,484.00	27,665.00	1,43,819.00
18	Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C. Vijayanthi	15,70,614.24	-	-	62,975.00	16,33,589.24	1,28,461.00	15,05,128.24
19	Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron Models"-Dr. Venkatanarashbabu Kupplli	6,26,695.97	-	-	12,295.00	6,38,990.97	6,38,990.97	-
20	Energy Efficient Lighting with Visible Light based Communication & Power Line Communication sponsored by DST - Dr. Ankit Dubey.	3,68,145.00	-	-	14,633.00	3,82,778.00	47,530.00	3,35,248.00
21	Improved PHY and MAC Strategies for M2M Communications in Smart Grid Over Wireless and PLC Heterogenous Network sponsored by SERB - Dr. Ankit	26,07,382.33	-	-	-	26,07,382.33	26,07,382.33	-
22	Interference Rejection Using Built-in Filter Based Band-Pass Sigma Delta Modulators -SERB- Dr. Nithin Kumar Y.B.	25,90,345.00	-	-	92,085.00	26,82,430.00	3,75,836.00	23,06,594.00
23	Harnessing Technological Innovations for Sustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) - Dr. Sunil Kumar A.	1,98,124.00	-	-	8,139.00	2,06,263.00	1,25,323.00	80,940.00
24	Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology- TERI -Dr.Lalat Indu Giri	4,60,205.00	-	10,00,000.00	26,701.00	14,86,906.00	10,31,242.00	4,55,664.00
25	Secure and efficient communications inside partitioned social over lay networks sponsored by SERB - Dr. Keshavamurthy B. N.	2,61,974.97	-	-	-	2,61,974.97	2,61,974.97	-
26	Special Manpower Development Program for Chips to System Design sponsored by Central Electronics Engineering Research Institute - Dr. Nithin Kumar	8,58,940.02	-	14,43,411.00	30,475.00	23,32,826.02	14,95,982.00	8,36,844.02
27	Suspended functional magnetic nanoparticle array based point-of-care diagnostic system for multiplexed bio-molecular sensing and diagnostic sponsored by SERB - Dr. Prasanth G.R.	83,359.17	-	-	2,075.00	85,434.17	85,434.17	-



28	Visvesvaraya Phd Scheme for Electronics and IT -(Batch 2014-15) sponsored by Media Lab Asia -Dr. Nithin Kumar Y.B.	24,589.23	-	-	1,011.00	25,600.23	-	25,600.23	-
29	Visvesvaraya Phd Scheme for Electronics and IT - (Batch 2015-16) sponsored by Media Lab Asia -Dr. Nithin Kumar Y.B.	3,42,508.25	-	-	14,364.00	3,56,872.25	-	3,56,872.25	-
30	All India Council for Technical Education(AICTE)	-	-	93,000.00	-	93,000.00	93,000.00	-	-
31	Funds for Workshop - Central Electronics Engineering Research Institute(CEERI)	1,30,294.00	-	-	5,351.00	1,35,645.00	1,35,645.00	-	-
32	Grant for Conducting Workshop & Seminar Under PMMNMTT Scheme sponsored by MHRD - Dr. Venkatanarashbabu K.	1,78,332.38	-	-	7,313.00	1,85,645.38	1,85,645.38	-	-
<b>Total</b>		<b>2,40,76,303.66</b>	<b>-</b>	<b>43,87,471.00</b>	<b>7,71,404.00</b>	<b>2,92,35,178.66</b>	<b>1,52,16,680.95</b>	<b>1,40,18,497.71</b>	<b>-</b>

1. The Projects may be listed agency-wise, with sub-totals for each agency.

2. The total of Col. 9 (Credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).

3. 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, 2021**

**SCHEDULE - 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS**

1. Sr. No.	2. Name of the Sponsor	Amount in Rupees					
		Opening Balance as on 01.04.2020		Transactions during the year		Closing Balance as on 31.03.2021	
		3. Credit	4. Debit	5. Credit	6. Debit	7. Credit	8. Debit
1	Scholarship EDCIL (India) Ltd.	-	-	-	-	-	-
2	Scholarship from Ministry of Tribal Affairs	-	-	-	-	-	-
3	Scholarship from Ministry of Social Justice	1,34,880.00	-	-	-	1,34,880.00	-
4	Scholarship Govt. of Madhya Pradesh	64,866.00	-	-	64,866.00	-	-
5	Inspire Fellowship-Dept. of Science & Technology	4,420.00	-	12,209.00	-	16,629.00	-
	Bank Interest	20,000.00	-	-	20,000.00	-	-
	Contingency	1,30,264.00	-	3,65,736.00	1,24,000.00	3,72,000.00	-
	Fellowship	19,840.00	-	59,520.00	19,840.00	59,520.00	-
	H.R.A.	-	-	-	-	-	-
	Other Scholarships	-	-	-	-	-	-
	<b>Total</b>	<b>3,74,270.00</b>	<b>-</b>	<b>4,37,465.00</b>	<b>2,28,706.00</b>	<b>5,83,029.00</b>	<b>-</b>

**Note:**

- The total of Col. 7 (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
- The total of Col. 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2021**

**SCHEDULE 3(c) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS**

Particulars	Amount in Rupees	
	Current Year	Previous Year
<b>A. Plan Grants : Government of India</b>		
Balance B/F	89,65,15,469.49	97,51,43,316.01
Add: Receipts during the year	20,14,00,000.00	12,78,67,000.00
Add: Interest earned during the year	1,97,10,839.00	3,80,10,320.00
<b>Total (a)</b>	<b>1,11,76,26,308.49</b>	<b>1,14,10,20,636.01</b>
Less: Refunds	-	-
Less: Utilized for General Revenue Expenditure -31	8,13,60,885.20	9,20,99,585.52
Less: Utilized for Capital Expenditure - 35	19,09,66,791.00	3,78,11,130.00
Less: Utilized for Salaraies Expenditure - 36	11,99,87,409.00	11,45,94,451.00
<b>Total (b)</b>	<b>39,23,15,085.20</b>	<b>24,45,05,166.52</b>
<b>Unutilized Carried Forward (a-b)</b>	<b>72,53,11,223.29</b>	<b>89,65,15,469.49</b>
<b>B. UGC grants: Plan</b>		
Balance B/F	-	-
Add: Receipts during the year	-	-
<b>Total (c)</b>	<b>-</b>	<b>-</b>
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
<b>Total (d)</b>	<b>-</b>	<b>-</b>
<b>Unutilized Carried Forward (c-d)</b>	<b>-</b>	<b>-</b>
<b>C. UGC grants: Non Plan</b>		
Balance B/F	-	-
Add: Receipts during the year	-	-
<b>Total (e)</b>	<b>-</b>	<b>-</b>
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
<b>Total (f)</b>	<b>-</b>	<b>-</b>
<b>Unutilized Carried Forward (e-f)</b>	<b>-</b>	<b>-</b>
<b>D. Grants from State Govt.</b>		
Balance B/F	-	-
Add: Receipts during the year	-	-
<b>Total (g)</b>	<b>-</b>	<b>-</b>
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
<b>Total (h)</b>	<b>-</b>	<b>-</b>
<b>Unutilized Carried Forward (g-h)</b>	<b>-</b>	<b>-</b>
<b>Grand Total (A+B+C+D)</b>	<b>72,53,11,223.29</b>	<b>89,65,15,469.49</b>

**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





NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST MARCH, 2021

SCHEDULES 4 FIXED ASSETS

S.No.	Assets Heads	GROSS BLOCK			DEPRECIATION			Amount in Rupees NET BLOCK			
		Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Depreciation for the year	Deductions/Adjustment	Total Depreciation as on 31.03.2021	31.03.2021	31.03.2020
1	Land	-	-	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-	-	-
4	Roads & Bridges	-	-	-	-	-	-	-	-	-	-
5	Tubewells & Water Supply	-	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-	-
7	Electrical Installation and equipment	8,39,657.50	-	-	8,39,657.50	3,01,034.00	41,985.00	-	3,43,019.00	4,96,638.50	5,38,623.50
8	Plant & Machinery	1,17,74,459.99	3,03,615.00	-	1,20,78,074.99	21,18,708.00	6,03,909.00	-	27,22,617.00	93,55,457.99	96,55,751.99
9	Scientific & Laboratory Equipment	4,90,66,452.35	66,80,646.00	-	5,57,47,098.35	1,30,72,141.00	44,59,764.00	-	1,75,31,905.00	3,82,15,193.35	3,59,94,311.35
10	Office Equipment	10,05,764.00	-	-	10,05,764.00	2,40,525.00	75,434.00	-	3,15,959.00	6,89,805.00	7,65,239.00
11	Audio Visual Equipment	47,55,350.25	63,170.00	-	48,18,520.25	16,12,729.00	3,61,392.00	-	19,74,121.00	28,44,399.25	31,42,621.25
12	Computers & Peripherals	4,39,54,766.73	28,32,964.00	-	4,67,87,730.73	3,13,55,947.73	52,00,153.00	-	3,65,56,100.73	1,02,31,630.00	1,25,98,819.00
13	Furniture, Fixtures & Fittings	2,49,61,906.87	25,000.00	-	2,49,86,906.87	1,02,10,716.00	18,74,035.00	-	1,20,84,751.00	1,29,02,155.87	1,47,51,190.87
14	Vehicles	32,14,129.00	-	-	32,14,129.00	14,33,129.00	3,21,414.00	-	17,54,543.00	14,59,586.00	17,81,000.00
15	Library Books & Scientific Journals	51,18,690.51	6,34,540.00	-	57,53,230.51	31,13,715.00	5,40,842.00	-	36,54,557.00	20,96,673.51	20,04,975.51
16	Small Value Assets	12,44,583.58	-	-	12,44,583.58	12,44,497.58	-	-	12,44,497.58	86.00	86.00
	<b>Total (A)</b>	<b>14,59,35,760.78</b>	<b>1,05,39,935.00</b>	-	<b>15,64,75,695.78</b>	<b>6,47,03,142.31</b>	<b>1,34,78,928.00</b>	-	<b>7,81,82,070.31</b>	<b>7,82,93,625.47</b>	<b>8,12,32,618.47</b>
17	Capital Work in Progress (B)	30,74,622.00	17,95,34,271.00	-	18,26,08,893.00	-	-	-	-	18,26,08,893.00	30,74,622.00
	<b>Total (A+B)</b>	<b>17,75,20,428.78</b>	<b>19,37,93,071.00</b>	-	<b>37,13,13,499.78</b>	<b>8,67,26,068.31</b>	<b>1,91,55,906.00</b>	-	<b>10,58,81,974.31</b>	<b>28,54,31,525.47</b>	<b>9,07,94,360.47</b>
	<b>Grand Total (A+B+C)</b>	<b>17,75,20,428.78</b>	<b>19,37,93,071.00</b>	-	<b>37,13,13,499.78</b>	<b>8,67,26,068.31</b>	<b>1,91,55,906.00</b>	-	<b>10,58,81,974.31</b>	<b>28,54,31,525.47</b>	<b>9,07,94,360.47</b>
19	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	2,73,65,172.00	36,28,365.00	-	3,09,93,537.00	2,11,18,937.00	56,31,396.00	-	2,67,50,333.00	42,43,204.00	62,46,235.00
20	Patents & Copyrights	3,19,720.00	90,500.00	-	4,10,220.00	78,836.00	45,582.00	-	1,24,418.00	2,85,802.00	2,40,884.00
	<b>Total (C)</b>	<b>2,85,10,046.00</b>	<b>37,18,865.00</b>	-	<b>3,22,28,911.00</b>	<b>2,20,22,926.00</b>	<b>56,76,978.00</b>	-	<b>2,76,99,904.00</b>	<b>45,29,007.00</b>	<b>64,87,120.00</b>

Note: The figure in Column "Deductions" under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.  
The figure in Column "Additions during the year under Gross Block against 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.







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SCHEDULES 4 (a) FIXED ASSETS PLAN

S.No.	Assets Heads	GROSS BLOCK			DEPRECIATION			Amount in Rupees NET BLOCK			
		Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Depreciation for the Year	Deductions/Adjustment	Total Depreciation as on 31.03.2021	31.03.2021	31.03.2020
1	Land	-	-	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-	-	-
4	Roads & Bridges	-	-	-	-	-	-	-	-	-	-
5	Tube wells & Water Supply	-	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-	-
7	Electrical Installations and equipments	8,39,657.50	-	-	8,39,657.50	3,01,034.00	41,985.00	-	3,43,019.00	4,96,638.50	5,38,623.50
8	Plant and Machinery	1,17,74,459.99	3,03,615.00	-	1,20,78,074.99	21,18,708.00	6,03,909.00	-	27,22,617.00	93,55,457.99	96,55,751.99
9	Scientific & Lab. Equipments	3,29,23,581.60	41,02,462.00	-	3,70,26,043.60	99,82,285.00	29,62,084.00	-	1,29,44,369.00	2,40,81,674.60	2,29,41,296.60
10	Office Equipments	10,05,764.00	-	-	10,05,764.00	2,40,525.00	75,434.00	-	3,15,959.00	6,89,805.00	7,95,239.00
11	Audio Visual Equipment	47,55,350.25	63,170.00	-	48,18,520.25	16,12,729.00	3,61,392.00	-	19,74,121.00	28,44,399.25	31,42,621.25
12	Computer and Peripherals	3,96,52,248.73	25,84,868.00	-	4,22,37,116.73	2,87,55,680.73	42,99,377.00	-	3,30,55,057.73	91,82,059.00	1,08,96,568.00
13	Furniture, Fixtures & Fittings	2,49,61,906.87	25,000.00	-	2,49,86,906.87	1,02,10,716.00	18,74,035.00	-	1,20,84,751.00	1,29,02,155.87	1,47,51,190.87
14	Vehicles	32,14,129.00	-	-	32,14,129.00	14,33,129.00	3,21,414.00	-	17,54,543.00	14,59,586.00	17,81,000.00
15	Library Books & Scientific Journals	50,39,302.51	6,34,540.00	-	56,73,842.51	30,89,895.00	5,32,902.00	-	36,22,797.00	20,51,045.51	19,49,407.51
16	Small Value Assets	12,44,583.58	-	-	12,44,583.58	12,44,583.58	-	-	12,44,497.58	86.00	86.00
	<b>Total (A)</b>	<b>12,54,10,984.03</b>	<b>77,13,655.00</b>	<b>-</b>	<b>13,31,24,639.03</b>	<b>5,89,89,199.31</b>	<b>1,10,72,532.00</b>	<b>-</b>	<b>7,00,61,731.31</b>	<b>6,30,62,907.72</b>	<b>6,64,21,784.72</b>
17	Capital Work in Progress (B)	30,74,622.00	17,95,34,271.00	-	18,26,08,893.00	-	-	-	-	18,26,08,893.00	30,74,622.00
	<b>Total (A+B)</b>	<b>15,62,75,940.03</b>	<b>19,09,66,791.00</b>	<b>-</b>	<b>34,72,42,731.03</b>	<b>8,03,59,727.31</b>	<b>1,66,98,999.00</b>	<b>-</b>	<b>9,70,58,726.31</b>	<b>25,01,84,004.72</b>	<b>7,59,16,212.72</b>
Sr.No	Intangible Assets	Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Amortization for the year	Deductions/Adjustment	Total Amortization/Adjustments as on 31.03.2021	31.03.2021	31.03.2020
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	2,66,70,860.00	36,28,365.00	-	3,02,99,025.00	2,04,72,139.00	55,83,685.00	-	2,60,55,824.00	42,43,201.00	61,98,521.00
20	Patents & Copyrights	2,94,520.00	90,500.00	-	3,85,020.00	73,236.00	42,782.00	-	1,16,018.00	2,69,002.00	2,21,284.00
	<b>Total (C)</b>	<b>2,77,90,334.00</b>	<b>37,18,865.00</b>	<b>-</b>	<b>3,15,09,199.00</b>	<b>2,13,70,528.00</b>	<b>56,26,467.00</b>	<b>-</b>	<b>2,69,96,995.00</b>	<b>45,12,204.00</b>	<b>64,19,806.00</b>
	<b>Grand Total (A+B+C)</b>	<b>15,62,75,940.03</b>	<b>19,09,66,791.00</b>	<b>-</b>	<b>34,72,42,731.03</b>	<b>8,03,59,727.31</b>	<b>1,66,98,999.00</b>	<b>-</b>	<b>9,70,58,726.31</b>	<b>25,01,84,004.72</b>	<b>7,59,16,212.72</b>





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SCHEDULES 4 (b) FIXED ASSETS NON - PLAN

S.No.	Assets Heads	GROSS BLOCK				DEPRECIATION				Amount in Rupees	
		Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2021	31.03.2021	31.03.2020
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										
10	Office Equipment										
11	Audio Visual Equipment										
12	Computers & Pheripherals										
13	Furniture, Fictures & Fittings										
14	Vehicles										
15	Library Books & Scientific Journals										
16	Small Value Assets										
	Total (A)										
17	Capital Work in Progress (B)										
	Total (A+B)										
Sr.No	Intangible Assets	Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Amortization for the year	Deductions/ Adjustment	Total Amortizations/Adjustments as on 31.03.2021	31.03.2021	31.03.2020
18	E-journals (perpetual)										
19	Computer software										
20	Patents & Copyrights										
	Total (C)										
	Grand Total (A+B+C)										







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**SCHEDULE 4C - INTANGIBLE ASSETS**

Sr.No	Assets Heads	Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Amortization for the year	Deductions / Adjustment	Total Amortization/Adj ustments as on 31.03.2021	Amount in Rupees	
										31.03.2021	31.03.2020
1	E-journals (perpetual)	8,25,154.00	-	-	8,25,154.00	8,25,153.00	-	-	8,25,153.00	1.00	1.00
2	Computer software	2,66,70,660.00	36,28,365.00	-	3,02,99,025.00	2,04,72,139.00	55,83,685.00	-	2,60,55,824.00	42,43,201.00	61,98,521.00
3	Patents & Copyrights	2,94,520.00	90,500.00	-	3,85,020.00	73,236.00	42,782.00	-	1,16,018.00	2,69,002.00	2,21,284.00





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SCHEDULE 4 (C) (i) - PATENTS AND COPYRIGHTS

Particulars	Amount in Rupees									
	Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Amortization for the year	Deductions/Adjustment	Total Amortization/Adjustments as on 31.03.2021	31.03.2021	31.03.2020
<b>A. Patents Granted</b>										
1 Balance as on 31.03.2021 of Patents obtained in 2008-09 (Original Value Rs. .... /-)	-	-	-	-	-	-	-	-	-	-
2 Balance as on 31.03.2021 of Patents obtained in 2010-11 (Original Value Rs. .... /-)	-	-	-	-	-	-	-	-	-	-
3 Balance as on 31.03.2021 of Patents obtained in 2012-13 (Original Value Rs. .... /-)	-	-	-	-	-	-	-	-	-	-
4 Patents granted during the Current Year	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-
<b>B. Patents Pending in respect of Patents applied for</b>										
1 Expenditure incurred during 2016-17	23,520.00	-	-	23,520.00	13,069.00	2,614.00	-	15,683.00	7,837.00	10,451.00
2 Expenditure incurred during 2017-18	90,000.00	-	-	90,000.00	29,999.00	10,000.00	-	39,999.00	50,001.00	60,001.00
3 Expenditure incurred during 2018-19	90,500.00	-	-	90,500.00	20,112.00	10,056.00	-	30,168.00	60,332.00	70,388.00
4 Expenditure incurred during 2019-20	90,500.00	-	-	90,500.00	10,056.00	10,056.00	-	20,112.00	70,388.00	80,444.00
5 Expenditure incurred during 2020-21	-	90,500.00	-	90,500.00	-	10,056.00	-	10,056.00	80,444.00	-
<b>Total</b>	<b>2,94,520.00</b>	<b>90,500.00</b>	<b>-</b>	<b>3,85,020.00</b>	<b>73,236.00</b>	<b>42,782.00</b>	<b>-</b>	<b>1,16,018.00</b>	<b>2,69,002.00</b>	<b>2,21,284.00</b>
<b>C. Grand Total (A+B)</b>	<b>2,94,520.00</b>	<b>90,500.00</b>	<b>-</b>	<b>3,85,020.00</b>	<b>73,236.00</b>	<b>42,782.00</b>	<b>-</b>	<b>1,16,018.00</b>	<b>2,69,002.00</b>	<b>2,21,284.00</b>

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 4D. FIXED ASSETS - OTHERS, SPONSORED PROJECTS ASSETS

S.No.	Assets Heads	GROSS BLOCK				DEPRECIATION				Amount in Rupees NET BLOCK	
		Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance as on 01.04.2020	Depreciation for the Year	Deductions/ Adjustment	Total Depreciation as on 31.03.2021	31.03.2021	31.03.2020
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	1,61,42,870.75	25,78,184.00	-	1,87,21,054.75	30,89,856.00	14,97,680.00	-	45,87,536.00	1,41,33,518.75	1,30,53,014.75
10	Office Equipment	-	-	-	-	-	-	-	-	-	-
11	Audio Visual Equipment	-	-	-	-	-	-	-	-	-	-
12	Computers & Peripherals	43,02,518.00	2,48,096.00	-	45,50,614.00	26,00,267.00	9,00,776.00	-	35,01,043.00	10,49,571.00	17,02,251.00
13	Furniture, Pictures & Fittings	-	-	-	-	-	-	-	-	-	-
14	Vehicles	-	-	-	-	-	-	-	-	-	-
15	Library Books & Scientific Journals	79,388.00	-	-	79,388.00	23,820.00	7,940.00	-	31,760.00	47,628.00	55,568.00
16	Small Value Assets	-	-	-	-	-	-	-	-	-	-
	<b>Total (A)</b>	<b>2,05,24,776.75</b>	<b>28,26,280.00</b>	-	<b>2,33,51,056.75</b>	<b>57,13,943.00</b>	<b>24,06,396.00</b>	-	<b>81,20,339.00</b>	<b>1,52,30,717.75</b>	<b>1,48,10,833.75</b>
17	Capital Work in Progress (B)	-	-	-	-	-	-	-	-	-	-
	<b>Total (A+B)</b>	<b>2,05,24,776.75</b>	<b>28,26,280.00</b>	-	<b>2,33,51,056.75</b>	<b>57,13,943.00</b>	<b>24,06,396.00</b>	-	<b>81,20,339.00</b>	<b>1,52,30,717.75</b>	<b>1,48,10,833.75</b>
Sr.No	Intangible Assets	Opening Balance as on 01.04.2020	Additions	Deductions	Closing Balance as on 31.03.2021	Depreciation Opening Balance	Amortization for the year	Deductions/ Adjustment	Total Amortization/ Adjustments	31.03.2021	31.03.2020
18	E-journals (perpetual)	-	-	-	-	-	-	-	-	-	-
19	Computer software	6,94,512.00	-	-	6,94,512.00	6,46,798.00	47,711.00	-	6,94,509.00	3.00	47,714.00
20	Patents & Copyrights	25,200.00	-	-	25,200.00	5,600.00	2,800.00	-	8,400.00	16,800.00	19,600.00
	<b>Total (C)</b>	<b>7,19,712.00</b>	-	-	<b>7,19,712.00</b>	<b>6,52,398.00</b>	<b>50,511.00</b>	-	<b>7,02,909.00</b>	<b>16,803.00</b>	<b>67,314.00</b>
	<b>Grand Total (A+B+C)</b>	<b>2,12,44,488.75</b>	<b>28,26,280.00</b>	-	<b>2,40,70,768.75</b>	<b>63,66,341.00</b>	<b>24,56,907.00</b>	-	<b>88,23,248.00</b>	<b>1,52,47,520.75</b>	<b>1,48,78,147.75</b>

Note: The Additions during the year include additions from

Gifted	-
Earmarked Funds	-
Sponsored Projects	28,26,280.00
Own Funds	19,09,66,791.00
<b>Total</b>	<b>19,37,93,071.00</b>





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**SCHEDULES 5: INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS**

	Amount in Rupees	
	Current Year	Previous Year
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)	-	-
<b>TOTAL</b>	-	-

**SCHEDULES 5(A): INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUNDS WISE)**

Funds	Amount in Rupees	
	Current Year	Previous Year
1	-	-
2	-	-
3	-	-
4	-	-
5 Endowment Fund Investments	-	-
<b>TOTAL</b>	-	-

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

**SCHEDULES 6: INVESTMENTS - OTHERS**

	Amount in Rupees	
	Current Year	Previous Year
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)	-	-
<b>TOTAL</b>	-	-





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	Amount in Rupees	
	Current Year	Previous Year
<b>SCHEDULE 7 - CURRENT ASSETS</b>		
<b>1. Stock</b>		
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	-	-
<b>2. Sundry Debtors</b>		
a) Debts Outstanding for a period exceeding six months	-	-
b) Others	-	-
<b>3. Cash and Bank Balances</b>		
<b>a) Cash in Hand</b>		
Cash	-	190.00
<b>b) With Scheduled Banks:</b>		
-In Current Accounts	-	-
-In Term Deposits Accounts	78,98,44,428.00	92,76,43,298.00
-In Savings Accounts	4,87,83,588.69	4,38,47,790.37
<b>c) With Non - Scheduled Banks:</b>		
-In Term Deposits Accounts	-	-
-In Savings Accounts	-	-
<b>4. Post Office Savings Accounts</b>		
<b>TOTAL</b>	<b>83,86,28,016.69</b>	<b>97,14,91,278.37</b>

Note: Annexure A shows the details of Bank Accounts

**ANNEXURE A**

	Amount in Rupees	
	Current Year	Previous Year
<b>I. Saving Bank Accounts</b>		
Corp. Bank Growth Fund A/c No.SB/1935-520101026774646	69,69,350.26	6,12,079.08
Corp. Bank CSAB/CCMT A/c No.SB/01/2538-520101026778293	1,50,020.30	35,684.00
Corp. Bank -NITGOARC-SB/01/4333-520101026782665	17,286.30	16,822.00
Corp. Bank Mis. A/c No.SB/01/1915-520101026774476	1,08,150.58	7,111.28
Corp. Bank NIT Plan A/c No.SB/01/4363-520101026782843	50,802.30	27,245.00
Corp. Bank NIT Plan A/c No.SB/01/4284-520101026782460	2,39,207.30	1,25,542.00
Corp. Bank Hostel A/c No.SB/01/1250-520101026768530	7,63,058.41	45,75,638.01
Corp. Bank NIT Plan A/c No.SB/000653-520101026763067	81,93,213.86	24,83,551.64
Corp Bank SB - Director NIT GOA Fees A/c No. 520101253886322	1,33,20,279.21	63,53,675.44
Corporation Bank - NIT Goa Projects Overhead PDA SB A/c. No. - 520101252614922	5,303.00	5,154.00
Corporation Bank SB/01/003573-520101026780557	1,89,66,917.17	2,96,05,287.92
<b>II. Current Account</b>	-	-
<b>III. Term Deposits with Schedule Banks</b>		
Investment A/c. No. 160058 (CB)-530401087495997	-	6,72,405.00
Investment A/c. No. KCC/01/170012-530401087497108	53,59,295.00	53,59,295.00
Investment A/c. No. KCC/01/170013-530401087497159	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/01/170016- 530401087497140	42,87,436.00	42,87,436.00
Investment A/c. No. KCC/01/170017-530401087497116	53,59,295.00	53,59,295.00
Investment A/c No.530401024338896	99,00,000.00	99,00,000.00
Investment A/c No.530401024338964	99,00,000.00	99,00,000.00
Investment A/c No.530401024339022	99,00,000.00	99,00,000.00
Investment A/c No.530401024339107	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339169	99,00,000.00	99,00,000.00
Investment A/c No.530401024339282	99,00,000.00	99,00,000.00
Investment A/c No.530401024339404	99,00,000.00	99,00,000.00
Investment A/c No.530401024339459	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339596	99,00,000.00	99,00,000.00
Investment A/c No.530401024339695	99,00,000.00	99,00,000.00





Investment A/c No.530401024339770	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339824	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339879	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339886	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339961	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339992	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340073	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340097	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340172	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340202	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340271	99,00,000.00	99,00,000.00
Investment A/c No.530401024340288	99,00,000.00	99,00,000.00
Investment A/c No.530401024340318	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340325	99,00,000.00	99,00,000.00
Investment A/c No.530401024340394	99,00,000.00	99,00,000.00
Investment A/c No.530401024340462	99,00,000.00	99,00,000.00
Investment A/c No.530401024340516	99,00,000.00	99,00,000.00
Investment A/c No.530401024340561	99,00,000.00	99,00,000.00
Investment A/c No.530401024340646	99,00,000.00	99,00,000.00
Investment A/c No.530401024340653	99,00,000.00	99,00,000.00
Investment A/c No.530401024340738	99,00,000.00	99,00,000.00
Investment A/c No.530401024340745	99,00,000.00	99,00,000.00
Investment A/c No.530401024340752	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340783	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340790	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340806	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340851	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340875	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340905	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340943	99,00,000.00	99,00,000.00
Investment A/c No.530401024340967	99,00,000.00	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	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.-530401024341469	-	99,00,000.00
Investment A/c No.-530401024341490	-	99,00,000.00
Investment A/c No.-530401024341513	-	99,00,000.00
Investment A/c No.-530401024341537	-	99,00,000.00
Investment A/c No.-530401024341599	-	99,00,000.00
Investment A/c No.-530401024341643	-	99,00,000.00
Investment A/c No.530401024342312-DASA A/c	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. 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.-530401024342800-Institute Dev. Fund	-	62,81,652.00
Investment A/c No.-530401024753149	-	99,00,000.00
Investment A/c No.-530401024753965	-	99,00,000.00
Investment A/c No.-530401024754153	-	99,00,000.00





Investment A/c No.-530401024754375	-	99,00,000.00
Investment A/c No.-530401024754528	-	99,00,000.00
Investment Ac. no. -530401087496624	-	3,11,50,150.00
Investment Ac. no. -530401087496632	-	3,17,94,663.00
Investment A/c. No.530101343585581	99,00,000.00	99,00,000.00
Investment A/c No.-530401034273484	99,00,000.00	99,00,000.00
Investment A/c No.-530401036091840	90,00,000.00	90,00,000.00
Investment A/c No.-530401036092069	70,00,000.00	70,00,000.00
Investment A/c No.-530401036092236	70,00,000.00	70,00,000.00
Investment A/c No.-530401036092502	40,00,000.00	40,00,000.00
Investment A/c No.530401041263577	-	1,50,00,000.00
Investment A/c. No. - 530401041263874	1,50,00,000.00	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.530401041288792	-	1,50,00,000.00
Investment A/c. No. - 530401041288907	1,50,00,000.00	1,50,00,000.00
Investment A/c. No. - 530401041308322	1,00,00,000.00	1,00,00,000.00
Investment A/c. No.-KCC 530401721030914	8,00,000.00	8,00,000.00
Investment A/c No.-132823030000037	50,00,000.00	-
Investment A/c No.-132823030000038	90,00,000.00	-
Investment A/c No.-132823030000039	90,00,000.00	-
Investment A/c. No.-132823030000040	90,00,000.00	-
Investment A/c. No.-132823030000041	90,00,000.00	-
Investment A/c No.-132823030000042	90,00,000.00	-
Investment A/c. No.-132823030000043	90,00,000.00	-
Investment A/c. No.-132823030000044	90,00,000.00	-
Investment A/c No.530401042096051	30,00,000.00	-
<b>Total</b>	<b>83,86,28,016.69</b>	<b>97,14,91,088.37</b>







**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2021**

**SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS**

	Current Year		Previous Year	
1. Advances to employees: (Non - Interest bearing)				
a) Salary	-		-	
b) Festival	-		-	
c) Medical Advance	-		-	
d) Others (to be Specified)	-	-	35,000.00	35,000.00
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	39,35,03,644.00		34,99,16,351.00	
b) to Suppliers	99,857.50		99,857.50	
c) Others (Sub Schedule 7)	-	39,36,03,501.50	-	35,00,16,208.50
4. Prepaid Expenses				
a) Insurance	-		-	
b) Other Expenses (Sub Schedule 7)	50,96,829.00	50,96,829.00	75,91,986.00	75,91,986.00
5. Deposits				
a) Telephone (Sub Schedule 8)	-		-	
b) Lease Rent (Sub Schedule 8)	-		75,000.00	
c) Electricity	-		-	
d) AICTE, if applicable	-		-	
e) Others (to be Specified)	-	-	-	75,000.00
6. Income Accrued:				
a) On Investments from earmarked/endow. Funds	-		-	
b) On Investments - others (Sub Schedule 7)	2,56,42,986.70		3,50,69,191.70	
c) On Loans and Advances	-		-	
d) Others (Includes Income due unrealised Rs...)	-	2,56,42,986.70	-	3,50,69,191.70
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		1,34,742.60		9,415.00
<b>TOTAL</b>		<b>42,44,78,059.80</b>		<b>39,27,96,801.20</b>

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, 2021**

**SCHEDULE 9 - ACADEMIC RECEIPTS**

	Amount in Rupees	
	Current Year	Previous Year
<b><u>FEES FROM STUDENTS</u></b>		
<b>Academic</b>		
1. Tuition fee	3,83,58,056.00	3,76,11,836.00
2. Admission fee	-	20,000.00
3. Enrolment fee	-	-
4. Library Admission fee	-	-
5. Laboratory fee	-	-
6. Art & Craft fee	-	-
7. Registration fee	-	-
8. Syllabus fee	-	-
9. Other Fee	22,46,000.00	19,98,000.00
10. Application Fee	-	47,900.00
<b>Total (A)</b>	<b>4,06,04,056.00</b>	<b>3,96,77,736.00</b>
<b>Examinations</b>		
1. Admission test fee	-	-
2. Annual Examination fee	-	-
3. Mark sheet, certificate fee	-	-
4. Entrance examination fee	-	-
<b>Total (B)</b>	<b>-</b>	<b>-</b>
<b>Other Fees</b>		
1. Identity card fee	-	-
2. Fine/ Miscellaneous fee	43,459.00	1,34,026.00
3. Medical fee	-	-
4. Transportation fee	-	-
5. Hostel fee	81,000.00	17,65,611.00
<b>Total(C)</b>	<b>1,24,459.00</b>	<b>18,99,637.00</b>
<b>Sale of Publications</b>		
1. Sale of Admission forms	-	-
2. Sale of syllabus and Question Paper, etc.	-	-
3. Sale of prospectus including admission forms	-	-
<b>Total (D)</b>	<b>-</b>	<b>-</b>
<b>Other Academic Receipts</b>		
1. Registration fee for workshops, programmes	1,10,000.00	1,24,500.00
2. Registration fees (Academic Staff College)	-	-
<b>Total (E)</b>	<b>1,10,000.00</b>	<b>1,24,500.00</b>
<b>GRAND TOTAL (A+B+C+D+E)</b>	<b>4,08,38,515.00</b>	<b>4,17,01,873.00</b>

**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, 2021**  
**SCHEDULE 10- GRANTS /SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)**

Particulars	Amount in Rupees					
	Govt. of India	Plan		Non Plan UGC	Current Year	Previous Year
		Plan	UGC Specific Schemes			
Balance B/F	89,65,15,469.49	-	-	-	89,65,15,469.49	97,51,43,316.01
Add: Receipts during the year	20,14,00,000.00	-	-	-	20,14,00,000.00	12,78,67,000.00
Add: Interest earned during the year	1,97,10,839.00	-	-	-	1,97,10,839.00	3,80,10,320.00
<b>Total</b>	<b>1,11,76,26,308.49</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,11,76,26,308.49</b>	<b>1,14,10,20,636.01</b>
Less: Refund to UGC	-	-	-	-	-	-
Balance	1,11,76,26,308.49	-	-	-	1,11,76,26,308.49	1,14,10,20,636.01
Less: Utilised for Capital expenditure (A)	19,09,66,791.00	-	-	-	19,09,66,791.00	3,78,11,130.00
<b>Balance</b>	<b>92,66,59,517.49</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>92,66,59,517.49</b>	<b>1,10,32,09,506.01</b>
Less: Utilized for General Revenue Expenditure -31 (B)	8,13,60,885.20	-	-	-	8,13,60,885.20	9,20,99,585.52
Less: Utilized for Salaries Expenditure -36 (C)	11,99,87,409.00	-	-	-	11,99,87,409.00	11,45,94,451.00
<b>Balance C/F (D)</b>	<b>72,53,11,223.29</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>72,53,11,223.29</b>	<b>89,65,15,469.49</b>

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

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

C- (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.





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST,**  
**MARCH, 2021**

**SCHEDULE 11: INCOME FROM INVESTMENTS**

	Amount in Rupees			
	Investment from Earmarked Fund		Investment -Others	
	Current Year	Previous Year	Current Year	Previous Year
1. Interest				
a. On Govt. Securities	-	-	-	-
b. Other Bonds/Debentures	-	-	-	-
2. Interest on Term Deposits	-	-	3,20,32,940.00	2,36,32,191.00
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees	-	-	-	-
4. Interest on Savings Bank Accounts	4,13,549.00	3,63,720.00	-	-
5. Others (Specify)	-	-	-	-
<b>TOTAL</b>	<b>4,13,549.00</b>	<b>3,63,720.00</b>	<b>3,20,32,940.00</b>	<b>2,36,32,191.00</b>
Transferred to Earmarked / Endowment Funds	4,13,549.00	3,63,720.00	-	-
<b>Balance</b>	<b>-</b>	<b>-</b>	<b>3,20,32,940.00</b>	<b>2,36,32,191.00</b>

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 -12: INTEREST EARNED**

	Amount in Rupees	
	Current Year	Previous Year
1. On Savings Account with Scheduled Banks	2,78,383.00	9,51,565.00
2. On Loans		
a. Employee/Staff	-	-
b. Others	-	-
3. Interest on Debtors and Other Recoverables	-	-
<b>TOTAL</b>	<b>2,78,383.00</b>	<b>9,51,565.00</b>

**Note:**

- The amount against item 1, in respect of Bank Accounts of Earmarked/Endowment Funds is dealt with in Schedule 11 (First Part) and Schedule 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, 2021**

**SCHEDULE 13- OTHER INCOME**

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

	Amount in Rupees	
	Current Year	Previous Year
<b>A. Income from Land &amp; Buildings</b>		
1. Hostel Room Rent	-	-
2. License fee	-	-
3. Hire Charges of Canteen/Auditorium/Play ground/Convention Centre, etc	-	36,000.00
4. Electricity charges recovered	-	-
5. Water charges recovered	-	-
<b>B. Sale of Institute's publications</b>		36,000.00
<b>C. Income from holding events</b>		-
1. Gross Receipts from annual function/ sports carnival	-	-
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	-	8,57,768.00
Less: Direct expenditure incurred on Workshops, Short Term courses, etc	-	6,46,905.00
<b>D. Others</b>		2,10,863.00
1. Income from consultancy	-	-
2. Income from Overheads of Sponsored Projects	5,43,074.00	8,64,827.00
2. RTI fees	130.00	-
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	-	8,000.00
a. Owned assets	-	-
b. Assets received free of cost	-	-





7. Grants/Donations from Institutions, Welfare Bodies and International Organizations	-	-	-	-
8. Foreign Exchange Gain	2,645.10	7,356.00	7,356.00	-
9. Recruitment Application Fees	-	3,50,509.00	3,50,509.00	-
10. Salary in Lieu of Notice	-	-	-	-
9. Others (specify) (Credit Balances w/off / Liquidated Damages)	2,18,025.25	7,63,874.35	2,78,972.00	15,09,664.00
<b>Total</b>		<b>7,63,874.35</b>		<b>17,56,527.00</b>

**SCHEDULE 14- PRIOR PERIOD INCOME**

Particulars	Amount in Rupees	
	Current Year	Previous Year
1. Academic Receipts	-	-
2. Income from Investments	-	-
3. Interest earned	-	-
4. Other Income	-	-
<b>Total</b>	<b>-</b>	<b>-</b>





**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2021**

**SCHEDULE 15- 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	Amount in Rupees			
	Current Year		Previous Year	
	Plan	Non Plan	Plan	Non Plan
a) Salaries and Wages	9,35,25,863.00	-	8,93,75,728.00	-
b) Allowances and Bonus	20,967.00	-	6,67,171.00	-
c) Contribution to Provident Fund	-	-	-	-
d) Contribution to Other Fund	-	-	-	-
e) Staff Welfare Expenses	88,126.00	-	1,29,333.00	-
d) Retirement and Terminal Benefits	2,18,03,442.00	-	1,99,31,382.00	-
g) LTC facility	22,70,686.00	-	19,53,060.00	-
h) Medical facility	5,27,625.00	-	10,06,889.00	-
i) Children Education Allowance	9,39,500.00	-	6,70,500.00	-
j) Honorarium	-	-	-	-
l) Others (Lien contribution)	8,11,200.00	-	8,60,388.00	-
<b>TOTAL</b>	<b>11,99,87,409.00</b>	<b>-</b>	<b>11,45,94,451.00</b>	<b>-</b>
				<b>8,60,388.00</b>
				<b>11,45,94,451.00</b>

**SCHEDULE 15 A- EMPLOYEES RETIREMENT AND TERMINAL BENEFITS**

Particulars	Amount in Rupees		
	Pension	Gratuity	Leave Encashment
Opening Balance as on 01.04.2020	-	1,15,10,065.00	2,44,59,676.00
Addition : Capitalized value of Contributions Received from other Organizations	-	-	-
<b>Total (a)</b>	-	1,15,10,065.00	2,44,59,676.00
Less: Actual Payment during the Year (b)	-	-	11,36,660.00
<b>Balance Available on 31.03.2021 c (a-b)</b>	-	1,15,10,065.00	2,33,23,016.00
Provision required on 31.03.2021 as per Actuarial Valuation (d)	-	1,31,17,882.00	3,35,04,850.00
A. Provision to be made in the Current year (d - c)	-	16,07,817.00	1,01,81,834.00
B. Contribution to New Pension Scheme	-	-	1,00,13,791.00
C. Medical Reimbursement to Retired Employees	-	-	-
D. Travel to Hometown on Retirement	-	-	-
E. Deposit Linked Insurance Payment	-	-	-
<b>Total (A+B+C+D+E)</b>	-	-	<b>2,18,03,442.00</b>

Note:

- The total (A+B+G+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.
- Items B,C,D&E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31.3.2020.





**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2021**

**SCHEDULE 16- ACADEMIC EXPENSES**

Particulars	Amount in Rupees					
	Current Year		Total	Previous Year		Total
	Plan	Non Plan		Plan	Non Plan	
a) Laboratory expenses	3,47,905.00	-	3,47,905.00	2,63,905.00	-	2,63,905.00
b) Field work/Participation in Conferences	-	-	-	-	-	-
c) Expenses on Seminars/Workshops	-	-	-	-	-	-
d) Payment to visiting faculty	2,44,000.00	-	2,44,000.00	5,80,000.00	-	5,80,000.00
e) Examination	-	-	-	61,203.00	-	61,203.00
f) Student Welfare expenses	1,37,411.00	-	1,37,411.00	12,73,661.00	-	12,73,661.00
g) Admission expenses	-	-	-	-	-	-
h) Convocation expenses	2,41,115.00	-	2,41,115.00	15,11,006.00	-	15,11,006.00
i) Publications	-	-	-	-	-	-
j) Stipend/means-cum-merit scholarship	3,59,41,882.00	-	3,59,41,882.00	3,46,49,160.00	-	3,46,49,160.00
k) Subscription Expenses	6,36,809.00	-	6,36,809.00	17,04,375.00	-	17,04,375.00
l) Others (specify)	-	-	-	-	-	-
<b>TOTAL</b>	<b>3,75,49,122.00</b>	<b>-</b>	<b>3,75,49,122.00</b>	<b>4,00,43,310.00</b>	<b>-</b>	<b>4,00,43,310.00</b>

**SCHEDULE 17- ADMINISTRATIVE AND GENERAL EXPENSES**

Particulars	Amount in Rupees					
	Current Year		Total	Previous Year		Total
	Plan	Non Plan		Plan	Non Plan	
<b>A. Infrastructure</b>						
a) Electricity and power	14,96,071.00	-	14,96,071.00	24,05,302.00	-	24,05,302.00
b) Water charges	1,13,348.00	-	1,13,348.00	2,29,257.00	-	2,29,257.00
c) Insurance	-	-	-	-	-	-
d) Rent, Rates and Taxes (including property tax)	7,66,025.00	-	7,66,025.00	10,33,245.00	-	10,33,245.00
<b>B. Communication</b>						
e) Postage and Stationery	13,042.00	-	13,042.00	25,179.00	-	25,179.00
f) Telephone, Fax and Internet Charges	9,72,863.00	-	9,72,863.00	17,56,535.00	-	17,56,535.00







C. Others	Current Year		Previous Year		Total
	Plan	Non Plan	Plan	Non Plan	
g) Printing and Stationery (consumption)	2,03,475.00	-	18,43,379.00	-	18,43,379.00
h) Travelling and Conveyance Expenses	21,950.00	-	21,59,317.00	-	21,59,317.00
i) Hospitality	3,34,998.00	-	5,89,407.00	-	5,89,407.00
j) Auditors Remuneration	3,61,950.00	-	3,54,990.00	-	3,54,990.00
k) Professional Charges	11,800.00	-	11,800.00	-	11,800.00
l) Advertisement and Publicity	-	-	4,20,840.00	-	4,20,840.00
m) Magazines & Journals	17,851.00	-	22,672.00	-	22,672.00
n) Staff Recruitment/Training Expenses	-	-	23,519.00	-	23,519.00
o) Medical Expenses	4,55,484.00	-	2,38,672.00	-	2,38,672.00
p) Seed Money / PDA Expenses	18,65,898.00	-	15,84,834.00	-	15,84,834.00
q) Security Expenses	87,94,692.00	-	91,92,912.00	-	91,92,912.00
r) Membership	-	-	-	-	-
s) Foreign Exchange Loss	5,509.07	-	34,868.77	-	34,868.77
t) Labour & Processing Charges	-	-	-	-	-
u) Miscellaneous Expenses	36,025.00	-	2,00,544.00	-	2,00,544.00
<b>TOTAL</b>	<b>1,54,70,981.07</b>	<b>-</b>	<b>2,21,27,272.77</b>	<b>-</b>	<b>2,21,27,272.77</b>

**SCHEDULE 18-TRANSPORTATION EXPENSES**

Particulars	Current Year		Previous Year		Total
	Plan	Non Plan	Plan	Non Plan	
1 Vehicles (owned by institution)					
a) Running expenses	1,93,187.00	-	2,72,187.00	-	2,72,187.00
b) Repairs & maintenance	1,45,183.00	-	78,542.00	-	78,542.00
c) Insurance expenses	63,164.00	-	33,727.00	-	33,727.00
2 Vehicles taken on rent/lease					
a) Rent/lease expenses	19,44,600.00	-	13,45,166.00	-	13,45,166.00
3 Vehicle (Taxi) hiring expenses	-	-	1,09,690.00	-	1,09,690.00
<b>TOTAL</b>	<b>23,46,134.00</b>	<b>-</b>	<b>18,39,312.00</b>	<b>-</b>	<b>18,39,312.00</b>







**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD YEAR ENDED 31ST. MARCH, 2021  
SCHEDULE 19- REPAIRS & MAINTENANCE**

Particulars	Amount in Rupees			
	Current Year		Previous Year	
	Plan	Non Plan	Plan	Total
a) Buildings	1,19,42,766.00	-	1,12,83,951.00	1,12,83,951.00
b) Furniture & Fixtures	82,600.00	-	2,19,594.00	2,19,594.00
c) Plant & Machinery	-	-	-	-
d) Office Equipment	1,00,844.00	-	14,16,288.00	14,16,288.00
e) Computers (including Software)	24,91,179.00	-	40,45,589.00	40,45,589.00
f) Laboratory & Scientific equipment	-	-	-	-
g) Audio Visual equipment	-	-	-	-
h) Cleaning Material & Services	1,11,57,618.00	-	1,06,14,691.00	1,06,14,691.00
i) Book binding charges	-	-	-	-
j) Gardening	-	-	-	-
k) Estate Maintenance	-	-	-	-
l) Others (Specify)	1,96,068.00	-	4,70,841.00	4,70,841.00
<b>Total</b>	<b>2,59,71,075.00</b>	<b>-</b>	<b>2,80,50,954.00</b>	<b>2,80,50,954.00</b>

**SCHEDULE 20- FINANCE COSTS**

Particulars	Amount in Rupees			
	Current Year		Previous Year	
	Plan	Non Plan	Plan	Total
a) Bank charges	23,761.93	-	39,491.95	39,491.95
b) Others (specify)	-	-	-	-
<b>Total</b>	<b>23,761.93</b>	<b>-</b>	<b>39,491.95</b>	<b>39,491.95</b>

**Note:**

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 21- OTHER EXPENSES**

Particulars	Amount in Rupees					
	Current Year		Total	Previous Year		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)	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-

**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 22: PRIOR PERIOD EXPENSES**

Particulars	Amount in Rupees					
	Current Year		Total	Previous Year		Total
	Plan	Non Plan		Plan	Non Plan	
1 Establishment expenses	-	-	-	-	-	-
2 Academic expenses	-	-	-	-	-	-
3 Administrative expenses	-	-	-	-	-	-
4 Transportation expenses	-	-	-	-	-	-
5 Repairs & Maintenance	-	-	-	-	-	-
6 Other expenses (Consumables W/off)	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF ACCOUNTS FOR PERIOD/YEAR ENDED 31ST. MARCH, 2021**

**SCHEDULE -23 - SIGNIFICANT ACCOUNTING POLICIES**

**1) BASIS FOR PREPARATION OF ACCOUNTS**

The Institute is governed by "The National Institute of Technology Act 2007". As per MHRD, 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 MHRD 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:



**Tangible Assets:**

1. Land	0%
2. Site Development	0%
3. Buildings	2%
4. Roads & Bridges	2%
5. Tubewells & Water Supply	2%
6. Sewerage & Drainage	2%
7. Electrical Installation and equipment	5%
8. Plant & Machinery	5%
9. Scientific & Laboratory Equipment	8%
10. Office Equipment	7.5%
11. Audio Visual Equipment	7.5%
12. Computers & Pheripherals	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**

NIT GOA is located in transit campus till date and since there is space constraint, stores and spares are purchased to the extent required. Stores and spares purchase for use in laboratories and office are considered as expenses. Though stock verification is carried out periodically to ascertain the utilization of the same no valuation of the closing stock is done since the value of such stock is only nominal and is not worth the efforts.

#### **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 terms 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 Government Securities, Debentures and Bonds and 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 MHRD, Recognition/Affiliation fee received from Colleges and other academic institutions and contributions from Research Projects are treated as additions to Corpus/Capital fund.

The Corpus/Capital Fund is utilized for both Revenue and Capital expenditure based on the guidelines by the MHRD and the Executive council of the Institution from time to time. The assets created out of the Plan Grants of MHRD are merged with the assets of the Institution by crediting an equal amount to the Corpus/Capital 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.







#### **5) 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.

#### **6) 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.

#### **7) FOREIGN CURRENCY TRANSACTIONS**

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

#### **8) LEASE**

Lease rentals are expended with reference to lease terms.

#### **9) GOVERNMENT GRANTS**

9.1 Government of India, Ministry of Human Resources Development 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 Utilisation of Grants is as below:

Particulars	General Head -31	Capital Head -35	Salaries Head -36	Total
Opening Balance as on 01.04.2020	9,18,50,876.66	41,41,16,844.77	3,29,04,553.56	53,88,72,274.99
Add: Grant Received during the year	9,06,00,000.00	-	11,08,00,000.00	20,14,00,000.00
Add: Interest earned during the year	52,96,554.00	1,28,28,554.00	15,85,731.00	1,97,10,839.00
Less: Expenditure during the year	8,13,60,885.20	19,09,66,791.00	11,99,87,409.00	39,23,15,085.20
Less: Advances paid/adjusted during the year	(25,30,157.00)	4,35,87,293.00	-	4,10,57,136.00
<b>Closing Balance as on 31.03.2021</b>	<b>10,89,16,702.46</b>	<b>19,23,91,314.77</b>	<b>2,53,02,875.56</b>	<b>32,66,10,892.79</b>

Note 1 : The expenses incurred over and above the any Grant Head (General -31/Capital-35/Salaries-36) are incurred from the Internally generated revenue of the Institute. However the excess expenditure is disclosed as negative under any Grant head (General Head -31/Capital Head-35/Salaries-36) so as to be considered by MHRD while sanctioning of future grants.

Note 2: Reconciliation of Balance of Grants as per Accounts and Utilization Certificates.

Grants as per Accounts as on 31.03.2021	72,53,11,223.29
Less: Advances to Suppliers as per Rule 238(4) of GFR 2017	39,87,00,330.50
Grants as per Utilization Certificates as on 31.03.2021	<u>32,66,10,892.79</u>

Note 3: The Balance of Grants of Rs. 326610892.79/- as on 31.03.2021 is parked/represented in Fixed Deposits/Saving A/c. as below :

SB / Fixed Deposit No.	Principal	Interest Received	Interest Accrued	Closing Balance as on 31.03.2021
Corp. Bank NIT A/c No. SB/000653-520101026763067	81,93,213.86	8,91,749.00	-	81,93,213.86
530401024338896	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024338964	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339022	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339107	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339169	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339282	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339404	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339459	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339596	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00







530401024339695	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339770	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339824	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339879	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339886	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339961	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024339992	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340073	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340097	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340172	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340202	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340271	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340288	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340318	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340325	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340394	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340462	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340516	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340561	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340646	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340653	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401024340738	99,00,000.00	3,06,179.00	2,95,999.00	1,01,95,999.00
530401042096051	30,00,000.00	-	1,51,572.00	31,51,572.00
<b>Balance as on 31.03.2021</b>	<b>31,80,93,213.86</b>	<b>1,03,83,298.00</b>	<b>93,27,541.00</b>	<b>32,74,20,754.86</b>

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 MHRD, Govt. of India once the accounts are finalized as per GFR Rule 230(8) of GFR 2017 and the instructions are received from the MHRD, Govt. of India.

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 HRD 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 MHRD and accordingly appropriate disclosure as to utilization is given in the accounts. However, the format in Schedule 10 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. As such, since there are no non plan grants, provision of retirement and terminal benefits included in establishment expenses is considered as utilization out of Plan grants.

#### **10) SPONSORED PROJECTS**

10.1 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.

10.2 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.

10.3 The Institution itself also awards Fellowships and Scholarships, which are accounted as Academic expenses.

10.4 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	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	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. Lalat 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 Heterogenous 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) MonitNoise: 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	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 Models	Dr. Venkatanarashbabu Kuppilli	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 Singlae 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 Ragoju	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 Features of Buried Objects	Dr. Mallikarjun E.	SERB

The grants received for above projects are disclosed under separate fund under Current Liabilities & Provisions under schedule 3 A 6(b) .

10.5 The Overheads Charges from the Projects are distributed as per policy approved as per letter No. NITG/F&A/2019/Ow/35 sent to

a) Institute Income 50%

b) Faculty & Staff Welfare 50%

**Total**

**100%**

Note: The Share of Institute Income will be shown as Income in Income & Expenditure for the year under Schedule 13 - Other Income and Faculty & Staff Welfare Share will be disclosed as other Funds under Schedule 3 - Current Liabilities & Provisions.





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF ACCOUNTS FOR PERIOD/YEAR ENDED 31ST, MARCH, 2021**

**SCHEDULE -24 - CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS**

**1) CONTINGENT LIABILITIES**

1.1 Claims against the Institute not acknowledged as debts - Rs. NIL (Previous Year - Rs. NIL)

1.2 In respect of :

- Bank Guarantees given by / on behalf of the Institute - Rs. NIL (Previous year - Rs. NIL)
- Letters of Credit opened - Rs. NIL (Previous Year - Rs. NIL)
- Bills discounted with banks - Rs. NIL (Previous Year - NIL)

1.3 Disputed demands in respect of :

- Income Tax - Rs. NIL (Previous year - Rs. NIL)
- Sales - tax - Rs. NIL (Previous year - Rs. NIL)
- Municipal Taxes - Rs. NIL (Previous year - Rs. NIL)

1.4 In respect of claims from parties for non-execution of orders, but contested by the Institute - Rs. NIL (Previous year - 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 (Previous year - 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 will be shifted once the permanent campus construction thereon is completed. The MHRD, 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 2021-2022 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. The project should be completed by 2021-22 and there will be no other phases of the project till 2021-22. HEFA has sanctioned term Loan of Rs.282.39 crores vide their letter Ref. SAN/NITG/250/2019-20 dtd 12.09.2019 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 31.03.2021 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	CPWD, Goa	Providing service connection, compound Lighting, water supply pumps and DLP bus bar trunking and split AC units in computer lab and water cooler for hostel building of ITI	11,44,500.00
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 Farmagudi, Goa	1,85,81,083.00
7	CPWD, Goa	Providing & Fixing Sun Control Firm 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	Aluminum Partition Work in room No.N9 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. Fikit 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 Farmagudi	1,65,930.00
24	Goa State PWD	Providing & Fixing Alluminium 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 Alluminium partition in the lecture hall 2A,2C and providing Alluminium 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	Goa State PWD	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	Shri. M. A. Doddamani	Repair & Fixing work done of compound wall beside the library block.	13,440.00
31	Goa State PWD	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	25,14,661.00
34	Shri. Prashant R. Naik	Various repairs such as painting and repairs to roof of civil draftsmen 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. M. A. Doddamani	Laying out of 2 Volleyball Courts near to Hostel D3 & D4 of NIT Goa	2,02,742.00
37	Shri. A. G. Savaiker	Supply and Installation of Tiles at New Faculty block	1,03,125.00
38	Goa State PWD	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 galvalium sheet roofing for D1,D2 and existing roofing of D3,D6 repairing	15,44,366.00
49	Goa State PWD	Bill for works of providing and fixing concrete pavers around faculty cabins	15,20,948.00
50	Goa State PWD	Bill for works of providing galvalium sheet roofing & other repairs works for library building of NIT Goa	9,16,890.00
51	S.P. Construction	Repairing, painting and aluminium partition work in administrative block-cabin for Deans	4,89,871.00
52	N. M. Enterprises	Repairing, painting work in Director cabin administrative building NIT Goa	4,70,413.00
		<b>Total</b>	<b>10,19,33,481.00</b>





3.1 Additions in the year to Fixed Assets in Schedule 4 include Assets purchased out of Plan Funds (Rs. 190966791/-), Non-Plan Funds ( Rs. NIL ), Sponsored Projects (Rs.2826280/- ) 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 4 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 01.04.2020	Additions during the year	Total (Rs.)	Notional Depreciation Opening Bal.	Notional Depreciation for the year	Total Notional Depreciation	Total Book Value as on 31.03.2021
Laboratory Equipment	21,48,900.00	2,17,350.00	23,66,250.00	4,99,336.00	1,89,300.00	6,88,636.00	16,77,614.00
Computers & Peripherals	6,75,600.00	-	6,75,600.00	3,81,279.00	1,19,740.00	5,01,019.00	1,74,581.00
Office equipment	-	-	-	-	-	-	-
Furniture, Fixtures & Fittings	-	-	-	-	-	-	-
<b>Total</b>	<b>28,24,500.00</b>	<b>2,17,350.00</b>	<b>30,41,850.00</b>	<b>8,80,615.00</b>	<b>3,09,040.00</b>	<b>11,89,655.00</b>	<b>18,52,195.00</b>

#### 4) LEASE OBLIGATIONS

Future obligations for rentals under finance lease agreements for plant and machinery amounts to Rs. NIL (Previous year - 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

5.2 Expenditure in foreign currency:

- a) Travel
- b) Remittances and Interest payment to financial Institutions/Banks in Foreign Currency
- c) Other expenditure:
  - Online Subscription
  - License Fee for Software/Web Edition
  - Miscellaneous Expenses

5.3 Earnings:

- Value of Exports on FOB basis

	(Amount)	
	Current Year	Previous Year
NIL	NIL	NIL
NIL	NIL	NIL
27,09,785.00	27,09,785.00	67,95,915.00
NIL	NIL	NIL
NIL	NIL	NIL
NIL	NIL	NIL
5,00,965.00	NIL	5,00,965.00
NIL	NIL	NIL
NIL	NIL	NIL
NIL	NIL	NIL







## 5.4 Remunerations to auditors:

As Auditors:

- Taxation matters
- For Management Services
- For Certification

NIL	NIL
NIL	NIL
NIL	NIL

Others (Internal Audit/C&amp;AG Audit)

3,61,950.00	3,54,990.00
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**6) 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.

7) 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.

8) As the New Pension Scheme Account are owned by the members of those funds and not by the Institution, these accounts were separated from the Institution's Accounts from 31.03.2015. A Receipts & Payments Account, an Income & Expenditure Account (on Accrual basis) and a Balance Sheet of the New Pension Scheme for the year 2020-21 have been attached, to the Institution's Accounts. A large portion of the New Pension Scheme funds (Rs. 1,55,55,542.00/-) in respect of 63 employees who have been allotted PRA numbers has been transferred up to 31.03.2021 to National Securities Depository Limited (NSDL) - Central Record keeping Agency (CRA). The balance held in New Pension Scheme in the Institution in respect of about 1 member will be transferred in F.Y-2021-22 once the PRA numbers are allotted by the agency.

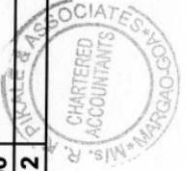
9) The Institute had collected in earlier years Hostel Development fund from students towards the development of hostels. However the institute is currently utilising the hostels infrastructure of Goa Engineering College as such it has not utilised the said fund. The balance in the fund will be utilised once the institute setup its own premises.

10) The Institute has collected Institute Development fund from students towards the development of Institute Premises. However the institute is currently running in the temporary premises of ITI as such it has not utilised the said fund. The balance in the fund will be utilised once the institute setup its own premises.

11) Additional Information for Stakeholders :

**i) Details of No. of Students**

Sr. no.	Stream	I year	IIInd Year	IIIrd Year	IVth Year	Vth Year	2020-21	2019-20
1	B.Tech	177	160	135	76	-	548	435
2	B.Tech DASA	6	9	5	5	-	25	26
3	M.Tech	66	55	-	-	-	121	92
4	Ph. D	20	21	20	18	1	80	85
5	Ph. D (Visvesvaraya)	-	-	-	1	1	2	3





Total	269	245	160	100	2	776	641
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## ii) No. of Professors (including Contract Faculty)

Sr. no.	Stream	2020-21	2019-20
1	CSE	9	10
2	H&S	11	8
3	ECE	10	10
4	EEE	8	8
5	CIVIL	5	4
6	ME	7	4
	Total	50	44

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

## iv) Collection for Sports activities and expenditure thereof

Sr. no.	Particulars	Amount (Rs.)
1	Collection for Sports Activities	
a	Sponsorship	
	Total Collection towards Sports Activities	-
2	Expenditure for Sport Activities	
a	Expenses for participating	
	Total Expenditure towards Sports Activities	-

## v) Collection for co-curricular activities and expenditure thereof

Sr. no.	Particulars	Amount (Rs.)
1	Collection for Co-curricular activities	
a	Sponsorship Received	
	Total Collection towards Co-curricular activities	-
2	Expenditure for Co-curricular activities	
a	Expenses towards Tathasthu Cultural Fest 2020	13,764.00
b	Expenses towards Ring Ceremony	66,120.00
c	Expenses towards Independence Day Celebration	6,159.00
	Total Expenditure towards Co-curricular activities	86,043.00

## vi) 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. Gopal Mugeraya	Director	1170001	210000 [Fixed]	210000
2	Dr. Saidi Reddy Parne	Associate Professor	1130009	13A2- Cell4	152500
3	Dr. Damodar Reddy Edla	Associate Professor	1130011	12 Cell-4	110800
4	Dr. Suresh Mikkili	Associate Professor	1130012	12 Cell-4	110800
5	Dr. Velavan Kathirvelu	Associate Professor	1130013	13A2- Cell4	152500
6	Dr. B. Venugopal Reddy	Associate Professor	1130014	13A2- Cell4	152500
7	Dr. Sarani Ghosal Mondal	Associate Professor	1130015	13A2- Cell4	152500
8	Dr. Veena Thenkaniyoor	Associate Professor	1130016	13A2- Cell4	152500
9	Dr. Purushothama B.R.	Associate Professor	1130022	12 Cell-4	110800
10	Dr. Ragoju Ravi	Associate Professor	1130024	12 Cell-4	110800
11	Dr. Vasantha M.H. Rao	Associate Professor	1130032	13A2- Cell4	152500
12	Dr. Veerakumar T	Associate Professor	1130033	13A2- Cell4	152500
13	Dr. Raviprasad K J	Assistant Professor	1130034	12 Cell-4	110800
14	Dr. Anirban Chatterjee	Associate Professor	1130035	12 Cell-4	110800
15	Dr. Nithin Kumar Y.B.	Associate Professor	1130036	12 Cell-4	110800
16	Dr. Sree Raj E.S	Associate Professor	1140041	12 Cell-4	110800
17	Dr. Keshavamurthy B.N.	Associate Professor	1140043	13A2- Cell4	152500
18	Dr. S. Mini	Associate Professor	1140045	12 Cell-4	110800
19	Dr. Pravati Swain	Assistant Professor	1140064	12 Cell-4	110800
20	Dr. Venkatanaresbabu Kupplii	Assistant Professor	1140065	12 Cell-4	110800
21	Dr. Trilochan Panigrahi	Associate Professor	1140066	13A2- Cell4	152500
22	Dr. Rahulkar Amol Deodas	Associate Professor	1140067	13A2- Cell4	152500
23	Dr. Modi Chirag Navinchandra	Associate Professor	1140068	12 Cell-4	110800
24	Dr. C. Vyjayanthi	Associate Professor	1140069	13A2- Cell4	152500
25	Dr. Shivnarayan Patidar	Assistant Professor	1150071	12 Cell-4	110800
26	Dr. Prashanth G. R.	Associate Professor	1150072	13A2- Cell4	152500
27	Dr. Lalat Indu Giri	Assistant Professor	1150073	12 Cell-2	104500
28	Dr. Soumitra Das	Associate Professor	1150074	12 Cell-4	110800
29	Dr. L. Shangeranesh	Assistant Professor	1160083	12 Cell-4	110800
30	Dr. Pragati Patel	Assistant Professor	1160085	12 Cell-2	104500
31	Dr. E. Mallikarjun	Assistant Professor	1160086	11 Cell-8	84800
32	Dr. Sunil Kumar A.	Assistant Professor	1160087	12 Cell-2	104500
33	Dr. B. Santhi	Assistant Professor	1200088	11 Cell-1	71000



34	Dr. Harish N	Assistant Professor	1200089	11 Cell-2	71000
35	Dr. Harikumar Mohanan	Assistant Professor	1200090	11 Cell-2	71000
36	Dr. Prasenjit Dey	Assistant Professor	1200091	11 Cell-2	71000

12) The Student Security Deposits include Rs.544000/- 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	55	2,20,000.00
2	B.Tech	81	3,24,000.00
	<b>Total</b>	<b>136</b>	<b>5,44,000.00</b>

13) Corresponding figure for the previous year have been regrouped / re-arranged, wherever necessary.

14) Schedules 1 to 24 are annexed to and form an integral part of the Balance Sheet as at 31st, MARCH, 2021 and the Income and Expenditure for the year ended on that date.

**FOR AND ON BEHALF OF THE BOARD**



**DIRECTOR**

Director  
National Institute of Technology Goa  
Farmagudi, Ponda-Goa 403 401

PLACE: PONDA,GOA  
DATE: 01-10-2021

**IN TERMS OF OUR INTERNAL AUDIT REPORT  
FOR R.K PIKALE AND ASSOCIATES  
FRN: 127641W**




**CA ARCHANA KENKARE  
PARTNER  
MEM NO. 047463**



## SUB SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST, MARCH, 2021

	(Amount - Rs.)	
Sub Schedule 1: Deposit from Students	Current Year	Previous Year
<b>Deposits from Students</b>		
Students Fee Refundable (B-Tech)	35,81,541.00	21,32,136.00
DASA Tuition Fees Refundable	-	68,467.48
Students Hostel Fee Refundable(B.Tech)	53,400.00	29,700.00
Student Fees Refundable (M-Tech)	40,000.00	-
B Tech Tutition Advance Fees	-	1,000.00
<b>Security Deposit of Students</b>		
B Tech Security Deposit Refundable	27,38,000.00	19,38,000.00
M-Tech Security Deposit Refundable	3,53,000.00	4,49,000.00
PHD Security Deposit Refundable	3,40,000.00	3,64,000.00
<b>Mess Deposit</b>		
Mess Adv.	51,48,854.00	51,48,854.00
<b>Alumini Association Contribution</b>		
Alumni Association Fees	13,57,167.00	11,07,167.00
<b>SAC(Student Activity Centre)Fee</b>	22,40,948.99	14,59,712.99
<b>Hall Establishment Charges</b>	1,47,32,622.34	1,34,63,468.34
<b>TOTAL</b>	<b>3,05,85,533.33</b>	<b>2,61,61,505.81</b>

Sub Schedule 2: Sundry Creditors for Goods & Services	Current Year	Previous Year
<b>For Goods &amp; Services</b>		
O/s CPWD, Goa	-	-
O/s Goa Intelligence Security Service	6,57,788.00	7,90,352.00
O/s. Ideal Catering Services	-	7,64,211.00
Chandan Electricals	-	1,94,124.00
Hitachi Hi Rel Power Electronics Pvt. Ltd	-	1,03,737.00
Industrial Trading Company	-	3,27,804.00
M.A. Doddamani	-	55,368.00
Nirakar Engineering Pvt Ltd	-	6,11,923.00
N. M. Enterprises	-	22,550.00
O/s Vibhav Vinayak Chari	-	49,000.00
Paras Trading Company	-	14,360.00
Power One Micro Systems Pvt Ltd	-	3,88,983.00
Power Research & Development Consultants Pvt. Ltd.	-	4,22,472.00
Raamaya Technologies	-	2,56,540.00
Saavi and Company	-	35,400.00
Shanta Sound	-	4,12,627.00
Sheela Equipments Pvt. Ltd.	-	12,036.00
Shreeji Enterprises	-	37,900.00
Techno Art Builder	-	21,952.00
Warsi Medico Systems & Services	-	39,000.00
Yuratech Global Pvt. Ltd	-	62,664.00
C. Shrikanth	-	-
Regalia Interiors	-	-
S.S. Traders	-	-
O/s. Computer Clinic	-	-
O/s MGM International Travels	-	64,301.00
O/s.Sai Ram Medical Stores	-	24,509.00
O/s. Sree Vinayaka Enterprises	-	9,11,638.00
O/s Thunder Force Pvt. Ltd.	-	-
<b>Project Creditors</b>		
Sadhale Enterprises	-	45,943.00
<b>TOTAL</b>	<b>6,57,788.00</b>	<b>56,69,394.00</b>







Sub Schedule 3: Deposits Others	Current Year	Previous Year
<b>Security Deposits</b>		
SD Swastik Prints	15,000.00	15,000.00
SD Advanced Electronic Systems	2,105.00	2,105.00
SD - Amonkar Enterprises	8,000.00	8,000.00
SD Best Engineering Aids and Consultancies	25,000.00	25,000.00
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 Electrovision	1,000.00	1,000.00
SD Empower Technology	30,000.00	30,000.00
SD Entuple Technologies Pvt. Ltd.	28,000.00	1,30,000.00
SD Goa Intelligence Security Services	4,80,000.00	4,80,000.00
SD Hotel Sanman	-	11,000.00
SD Ideal Catering Services	1,30,000.00	1,30,000.00
SD - Industrial Trading Company	6,000.00	6,000.00
SD - International Book Centre	-	21,000.00
Sd Labindia	14,560.00	14,560.00
SD - Nirakar Engineering Pvt. Ltd.	6,400.00	6,400.00
SD Olympus Refrigeration Inc.	50,000.00	50,000.00
SD - Power Research & Development Consultants Pvt. Ltd.	15,000.00	15,000.00
SD - Raamaya Technologies	13,049.00	-
SD - Shah Book House Pvt. Ltd.	22,000.00	-
SD Prashant R. Naik	-	11,000.00
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 N. M. Enterprises	10,000.00	-
SD - Techniz Books International	22,000.00	21,000.00
SD - Direct Electric Pvt. Ltd.	12,000.00	-
SD Deepak R. Naik	12,000.00	-
SD Thunder Force Pvt. Ltd.	10,000.00	10,000.00
<b>Performance Gurantee of Supplier/Contractor</b>		
PG - Adroit Information System Pvt. Ltd.	15,761.00	15,761.00
PG Ahuja Books Co. Pvt. Ltd.	4,632.00	4,632.00
PG - Apex Books Pvt. Ltd.	25,116.00	25,116.00
PG - Best Engineering Aids & Consultancies Pvt. Ltd.	-	51,625.00
PG BKSP Enterprises	5,310.00	5,310.00
PG - Chandan Electricals	-	10,437.00
PG Digital Network Associates	7,223.00	7,223.00
PG Eagle Photonics Pvt. Ltd.	-	66,066.00
PG Entuple Technologies Pvt. Ltd.	4,12,698.00	3,65,800.00
PG - Industrial Trading Company	17,552.00	17,552.00
PG - JSK Lab Instruments	10,500.00	10,500.00
PG Kalika Enterprises	9,784.00	9,784.00
PG M.A. Doddamani	-	10,137.00
PG Mastersoft ERP Solutions Pvt. Ltd.	1,62,191.00	1,62,191.00
PG Mathworks India Private Limited	-	68,407.00
PG - Nirakar Engineering Pvt. Ltd.	34,375.00	34,375.00
PG Olumpus Refrigeration Inc	2,26,710.00	2,26,710.00
PG - Power One Micro Systems Pvt Ltd	20,845.00	20,845.00
PG Power Research & Development Consultants Pvt. Ltd.	35,727.00	35,727.00
PG Prashant R Naik	-	16,288.00
PG Rehan Computers	14,221.00	14,221.00





PG - Schematix	-	6,757.00
PG -S H Enterprises	10,060.00	10,060.00
PG - Shree Chemicals	19,535.00	9,920.00
PG Shubhalakshmi Motors	2,00,000.00	2,00,000.00
PG S. P. Construction	19,286.00	4,590.00
PG Specialise Instruments Marketing Company	-	39,671.00
PG S. S. Traders	8,376.00	8,376.00
PG BMG Informatics Pvt. Ltd.	7,411.00	-
PG - Deepak R. Naik	23,480.00	-
PG - International Book Center	15,869.00	-
PG - N. M. Enterprises	23,521.00	-
PG -Shah Book House Pvt Ltd	9,916.00	-
PG - Techcentra Infosystems Pvt. Ltd.	43,943.00	-
PG - Techniz Books International	10,700.00	-
PG-Steelraj Steel Furniture - West Bengal.	-	10,324.00
PG Swastik Prints	5,628.00	5,628.00
PG Technology Excellence Group	9,351.00	9,351.00
PG - Techser Power Solutions Pvt. Ltd.	8,448.00	8,448.00
<b>Project Performance Gurantee of Supplier/Contractor</b>		
PG- Amonkar Enterprises	-	18,050.00
PG - D.B. Solutions	-	25,842.00
PG - Applied Realtech Systems Pvt. Ltd.	1,24,105.00	-
PG - Computer Clinic	5,217.00	-
PG - Sense Techno Solution	6,521.00	-
PG- Jyoti Electronics	-	22,781.00
PG - National Infotech	23,552.00	16,065.00
PG - Pragna Microdesigns	8,138.00	8,138.00
PG Prajakt D. Amonkar	-	30,000.00
PG Sadhale Enterprises	-	19,037.00
PG - San Instruments	30,026.00	30,026.00
<b>TOTAL</b>	<b>25,97,010.00</b>	<b>27,18,004.00</b>

<b>Sub Schedule 4: Statutory Liabilities</b>	<b>Current Year</b>	<b>Previous Year</b>
CGST TDS @ 1%	6,852.00	49,890.00
IGST TDS	46,376.00	98,133.00
SGST TDS @ 1%	6,852.00	49,890.00
PF Subscription	2,79,323.00	86,126.00
Tax(IT/SC/EC) Professional U/s.194J	56,640.00	75,230.00
Tax (IT/SC/EC)Contractor	80,302.00	1,32,591.00
Tax (IT/SC/EC)Rent	27,563.00	3,520.00
TDS(IT)Staff	-	1,475.00
<b>Project Statutory Liabilities</b>		
Tax Deducted at Source -194C	-	137.00
Tax Deducted at Source -194J	3,100.00	-
<b>TOTAL</b>	<b>5,07,008.00</b>	<b>4,96,992.00</b>

<b>SUB SCHEDULE 5: Other Current Liabilities</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>Salaries</b>		
O/s Salary & Wages	84,00,175.00	77,45,795.00
<b>Other funds</b>		
CCMT Expenses Advance Received	63,090.00	46,713.00
CSAB Expenses Advance Received	1,19,762.00	1,19,762.00
IIT Delhi - Unnat Bharat Abhiyaan Scheme	-	-
<b>Projects Funds</b>		
Overhead-Faculty & Staff Development Fund	5,43,073.00	8,64,826.00
<b>Other liabilities</b>		





O/s Contingency Expenses	-	27,693.00
O/s Electricity Charges	-	1,72,739.00
O/s. Honorarium	-	28,000.00
O/s Hospitality Expenses	-	5,379.00
O/s Lab Consumable	-	4,877.00
O/s Lien Contribution of Director	8,11,200.00	8,60,388.00
O/s Medical Care	-	38,013.00
O/s Mis. Expenses	-	3,361.00
O/s News Paper & Periodicals	-	729.00
O/s NPS Matching Share	8,49,606.00	8,24,497.00
O/s Patent Charges	-	85,500.00
O/s. PDA Expenses	-	5,10,286.00
O/s Printing & Stationary	-	67,958.00
O/s Repair & Maint.	-	1,09,378.00
O/s. Staff Telephone Charges	-	-
O/s Stipend (M Tech & Phd)	-	36,01,157.00
O/s. Subscription	65,00,000.00	65,00,000.00
O/s TA to Outsiders	-	-
O/s Telephone Charges	9,930.00	9,735.00
O/s. Training & Placement Cell Expenses	-	13,859.00
O/s. Transportation Expenses	-	81,340.00
O/s Vehicle Running & Maint.	-	12,472.00
O/s Postage	1,520.00	-
O/s Water Charges	66,000.00	21,600.00
<u>Project O/s. Liabilities</u>		
O/s Consumables	-	2,80,178.00
O/s. Stipend Payable	-	3,62,419.00
O/s. Travelling Expenses Payable	-	2,36,056.00
<b>TOTAL</b>	<b>1,73,64,356.00</b>	<b>2,26,34,710.00</b>

<b>SUB SCHEDULE 6: PROVISIONS</b>	<b>Current Year</b>	<b>Previous Year</b>
O/s Audit Fee	2,86,200.00	97,200.00
<b>TOTAL</b>	<b>2,86,200.00</b>	<b>97,200.00</b>

<b>SUB SCHEDULE 7: LOANS &amp; ADVANCES</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>1. Advances to employees: (Non - Interest bearing)</b>		
<b>a) Others</b>		
<u>Imprest Advance</u>		
Velavan Kathirvelu Asst. Prof (1130013)	-	35,000.00
<b>2. Advances and other amounts receivable</b>		
<b>a) On Capital Account</b>		
CPWD, Goa - New Campus	32,16,74,509.00	30,05,26,040.00
The Executive Engineer PWD DIV VIII Margao	6,74,38,824.00	4,50,00,000.00
Goa State PWD	43,90,311.00	43,90,311.00
<b>b) to Suppliers</b>		
CPWD, Goa	-	-
CPWD, Goa (Electrical)	99,857.50	99,857.50
<b>c) Others</b>		
<u>Imprest Advance/Other Advance</u>		
Saavyas NIT Goa	-	-
<b>Income Accrued</b>		
Accrued Interest on Investment	2,56,42,986.70	3,50,69,191.70
Prepaid Expenses	50,96,829.00	75,91,986.00
<b>Grants Receivable</b>		







MHRD (Plan Grant Receivable)	-	-
<b>Claims Receivable</b>		
DASA Tution Fees Receivable	71,954.40	-
Payu Money-Tution Fees	873.20	-
Students Fee Receivable	60,040.00	7,540.00
Students Hostel Fee Receivable	1,875.00	1,875.00
<b>TOTAL</b>	<b>42,44,78,059.80</b>	<b>39,27,21,801.20</b>

<b>Sub Schedule 8: Deposits (Assets)</b>	<b>Current Year</b>	<b>Previous Year</b>
Security Deposit of Guest Cum Camp House -Mr. Madan Sadhale	-	75,000.00
<b>TOTAL</b>	<b>-</b>	<b>75,000.00</b>





RECEIPTS		PAYMENTS		CURRENT YEAR	PREVIOUS YEAR	CURRENT YEAR	PREVIOUS YEAR
I. Opening Balances (As per RP Schedule 1)		I. Expenses (As per RP Schedule 12)					
a) Cash in Hand	190.00	a) Establishment Expenses	-	9,92,65,037.00	9,49,00,653.00		
b) Bank Balances	-	b) Academic Expenses	-	3,73,44,305.00	3,58,95,085.00		
i) in current accounts	-	c) Administrative Expenses	1,21,83,43,298.00	1,44,20,228.56	2,88,71,398.73		
ii) in deposit accounts	-	d) Transportation Expenses	7,22,87,772.21	23,25,338.00	16,93,840.00		
iii) in savings accounts	-	e) Repairs & Maintenance	-	2,07,69,675.00	2,37,96,015.00		
II. Grant Received (As per RP Schedule 2)	-	f) Prior Period Expenses	-	-	-		
a) From Govt. of India	-	II. Payments made against Earmarked/Endowment Funds (As per RP Schedule 13)	-	-	12,000.00		
Plan Grant -Capital	-	III. Payments against Sponsored Projects/Schemes (As per RP Schedule 14)	-	1,18,99,624.61	1,38,11,889.60		
Plan Grant -Revenue	-	IV. Payments against Sponsored Fellowships/Scholarships (As per RP Schedule 15)	12,78,67,000.00	5,49,292.00	16,11,893.00		
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)	-	VI. Term Deposits with Scheduled Banks	7,20,57,868.49	-	-		
IV. Receipts against Earmarked/Endowment Funds (As per RP Schedule 4)	5,86,41,046.37	VII. Expenditure on Fixed Assets and Capital Works - In-Progress (As per RP Schedule 16)	-	1,17,66,365.00	2,98,56,830.00		
V. Receipts against Sponsored Projects/Schemes (As per RP Schedule 5)	43,60,151.66	a) Fixed assets	-	-	-		
VI. Receipts against sponsored Fellowships and Scholarships (As per RP Schedule 6)	7,45,842.00	b) Capital Works-in-progress	22,79,624.00	6,82,740.00	23,17,242.00		
VII. Income on Investments from	-	VIII. Other Payments including statutory Payments (As per RP Schedule 17)	-	29,17,91,349.00	41,92,69,787.00		
a) Earmarked/Endowment Funds	-	IX. Refunds of Grants	-	-	-		
b) Other investments	-	X. Deposits and Advances (As per RP Schedule 18)	-	58,64,560.00	46,78,187.00		
VIII. Interest Received (As per RP Schedule 7)	-	XI. Other Payments	-	-	-		
a) Bank Deposits	6,11,69,984.00	XII. Closing balances (As per RP Schedule 19)	6,63,56,261.00	-	-		
b) Loans and Advances	-	a) Cash in hand	-	-	190.00		
c) Saving Bank Accounts	14,66,592.00	b) Bank Balances	23,89,199.00	-	-		
IX. Investments Encashed	-	i) in current accounts	-	-	-		
X. Term Deposits with Scheduled Banks Encashed	2,14,000.46	ii) in deposit accounts	2,02,100.00	-	-		
XI. Other Income (Including Prior Period Income) (As per RP Schedule 8)	31,30,282.00	iii) in savings accounts	1,95,95,141.00	-	-		
XII. Deposits and Advances (As per RP Schedule 9)	-	XIII. Miscellaneous Receipts including Statutory Receipts (As per RP Schedule 10)	3,02,90,018.00	3,26,87,374.00	92,76,43,298.00		
XIII. Miscellaneous Receipts including Statutory Receipts (As per RP Schedule 10)	-	XIV. Any other receipts - Misc (As per RP Schedule 11)	52,766.00	-	4,38,47,790.37		
XIV. Any other receipts - Misc (As per RP Schedule 11)	-	TOTAL	1,33,53,06,530.86	1,33,53,06,530.86	1,62,81,06,198.70		

FOR AND ON BEHALF OF THE BOARD

IN TERMS OF OUR INTERNAL AUDIT REPORT

FOR R.K PIKALE AND ASSOCIATES

FRN: 127641W

DIRECTOR

Director

National Institute of Technology Goa

PLACE: Ponda, Ponda, Ponda, Ponda, Ponda

DATE: 01-10-2021



CA ARCHANA KENKARE

PARTNER

MEM NO. 047463



SCHEDULES FORMING PART OF RECEIPTS AND PAYMENT FOR THE YEAR ENDED 31ST, MARCH, 2021

OPENING CASH AND BANK BALANCES

RP Schedule -1

	Current Year		Previous Year
<b>a) Cash in Hand</b>			
Cash		190.00	-
<b>b) Bank Balances</b>			
<b>In deposit accounts</b>			
Investment A/c. No. 160058 (CB)- 530401087495997	6,72,405.00		6,72,405.00
Investment A/c No.530401024338681	-		99,00,000.00
Investment A/c No.530401024338896	99,00,000.00		99,00,000.00
Investment A/c No.530401024338964	99,00,000.00		99,00,000.00
Investment A/c No.530401024339022	99,00,000.00		99,00,000.00
Investment A/c No.530401024339107	99,00,000.00		99,00,000.00
Investment A/c No.-530401024339169	99,00,000.00		99,00,000.00
Investment A/c No.530401024339282	99,00,000.00		99,00,000.00
Investment A/c No.530401024339404	99,00,000.00		99,00,000.00
Investment A/c No.530401024339459	99,00,000.00		99,00,000.00
Investment A/c No.-530401024339596	99,00,000.00		99,00,000.00
Investment A/c No.530401024339695	99,00,000.00		99,00,000.00
Investment A/c No.530401024339770	99,00,000.00		99,00,000.00
Investment A/c No.-530401024339824	99,00,000.00		99,00,000.00
Investment A/c No.-530401024339879	99,00,000.00		99,00,000.00
Investment A/c No.-530401024339886	99,00,000.00		99,00,000.00
Investment A/c No.-530401024339961	99,00,000.00		99,00,000.00
Investment A/c No.-530401024339992	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340073	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340097	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340172	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340202	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340271	99,00,000.00		99,00,000.00
Investment A/c No.530401024340288	99,00,000.00		99,00,000.00
Investment A/c No.530401024340318	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340325	99,00,000.00		99,00,000.00
Investment A/c No.530401024340394	99,00,000.00		99,00,000.00
Investment A/c No.530401024340462	99,00,000.00		99,00,000.00
Investment A/c No.530401024340516	99,00,000.00		99,00,000.00
Investment A/c No.530401024340561	99,00,000.00		99,00,000.00
Investment A/c No.530401024340646	99,00,000.00		99,00,000.00
Investment A/c No.530401024340653	99,00,000.00		99,00,000.00
Investment A/c No.530401024340738	99,00,000.00		99,00,000.00
Investment A/c No.530401024340745	99,00,000.00		99,00,000.00
Investment A/c No.530401024340752	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340783	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340790	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340806	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340851	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340875	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340905	99,00,000.00		99,00,000.00
Investment A/c No.-530401024340943	99,00,000.00		99,00,000.00
Investment A/c No.530401024340967	99,00,000.00		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.-530401024341087	-		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		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.-530401024341469	99,00,000.00		99,00,000.00





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Investment A/c No.-530401024341490	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341513	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341537	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341599	99,00,000.00	99,00,000.00
Investment A/c No.-530401024341643	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.530401041264567-DASA	66,00,000.00	-
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
	7,00,000.00	7,00,000.00
Investment A/c No.-530401024342749		
Investment A/c No.-530401024342800-Institute Dev. Fund	62,81,652.00	62,81,652.00
Investment A/c No.-530401024747353	-	99,00,000.00
Investment A/c No.-530401024748299	-	99,00,000.00
Investment A/c No.-530401024749760	-	99,00,000.00
Investment A/c No.-530401024750537	-	99,00,000.00
Investment A/c No.-530401024751923	-	99,00,000.00
Investment A/c No.-530401024752067	-	99,00,000.00
Investment A/c No.-530401024752180	-	99,00,000.00
Investment A/c No.-530401024752333	-	99,00,000.00
Investment A/c No.-530401024752579	-	99,00,000.00
Investment A/c No.-530401024752678	-	99,00,000.00
Investment A/c No.-530401024752999	-	99,00,000.00
Investment A/c No.-530401024753149	99,00,000.00	99,00,000.00
Investment A/c No.-530401024753965	99,00,000.00	99,00,000.00
Investment A/c No.-530401024754153	99,00,000.00	99,00,000.00
Investment A/c No.-530401024754375	99,00,000.00	99,00,000.00
Investment A/c No.-530401024754528	99,00,000.00	99,00,000.00
Investment A/c No.-530401024754672	-	99,00,000.00
Investment A/c No.-530401024754825	-	99,00,000.00
Investment A/c No.530401028802232	-	99,00,000.00
Investment A/c No.530401028802249	-	99,00,000.00
Investment A/c No.530401028839597	-	99,00,000.00
Investment A/c No.530401028839771	-	99,00,000.00
Investment A/c No.530401028839894	-	99,00,000.00
Investment A/c No.530401028840173	-	99,00,000.00
Investment Ac. no.-530401087496624	3,11,50,150.00	3,11,50,150.00
Investment Ac. no.-530401087496632	3,17,94,663.00	3,17,94,663.00
Investment A/c. No. KCC/01/170012-530401087497108	53,59,295.00	53,59,295.00
Investment A/c. No. KCC/01/170013-530401087497159	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/01/170016-530401087497140	42,87,436.00	42,87,436.00
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 A/c. No.530101343585110	-	99,00,000.00
Investment A/c. No.530101343585527	-	99,00,000.00
Investment A/c. No.530101343585554	-	99,00,000.00
Investment A/c. No.530101343585581	99,00,000.00	99,00,000.00
Investment A/c. No.-530101343585615	-	99,00,000.00
Investment A/c No.-530401034272234	-	99,00,000.00
Investment A/c No.-530401034272401	-	99,00,000.00
Investment A/c No.-530401034272470	-	99,00,000.00
Investment A/c No.-530401034272579	-	99,00,000.00
Investment A/c No.-530401034273484	99,00,000.00	99,00,000.00
Investment A/c No-530401034721428	-	99,00,000.00
Investment A/c No-530401034721558	-	99,00,000.00
Investment A/c No.-530401034721671	-	99,00,000.00
Investment A/c No.530401034721756	-	99,00,000.00
Investment A/c No.-530401035984839	-	99,00,000.00
Investment A/c No.-530401035985140	-	99,00,000.00
Investment A/c No.-530401035985393	-	99,00,000.00
Investment A/c No.-530401035985645	-	99,00,000.00
Investment A/c No.-530401035985904	-	99,00,000.00
Investment A/c No.-530401036091840	90,00,000.00	
Investment A/c No.-530401036092069	70,00,000.00	





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Investment A/c No.-530401036092236	70,00,000.00			
Investment A/c No.-530401036092502	40,00,000.00			
Investment A/c No.530401041263577	1,50,00,000.00			
Investment A/c. No. - 530401041263874	1,50,00,000.00			
Investment A/c No.-530401041264000 - Misc. Fines				
	10,00,000.00			
Investment A/c No.530401041264291-Alumni	4,00,000.00			
Investment A/c No.530401041264369-CSAB	15,00,000.00			
Investment A/c. No.530401041264482 - Hostel	60,00,000.00		90,00,000.00	
Investment A/c No.530401041288792	1,50,00,000.00		70,00,000.00	
Investment A/c. No. - 530401041288907	1,50,00,000.00		70,00,000.00	
Investment A/c. No. - 530401041308322	1,00,00,000.00	92,76,43,298.00	40,00,000.00	1,21,83,43,298.00
<b>In Saving Accounts</b>				
Corp. Bank Growth Fund A/c No.SB/1935-520101026774646	6,12,079.08		1,94,221.37	
Corp. Bank Hostel A/c No.SB/01/1250-520101026768530	45,75,638.01		48,31,400.01	
Corp. Bank Mis. A/c No.SB/01/1915-520101026774476	7,111.28		5,04,471.28	
Corp. Bank -NITGOARC-SB/01/4333-520101026782665	16,822.00		1,67,023.00	
Corp. Bank NIT Plan A/c No.SB/000653-520101026763067	24,83,551.64		3,13,95,748.05	
Corp. Bank NIT Plan A/c No.SB/01/4363-520101026782843	27,245.00		3,67,414.00	
Corp. Bank CSAB/CCMT A/c No.SB/01/2538-520101026778293	35,684.00		14,54,780.00	
Corp Bank SB - Director NIT GOA Fees A/c No. 520101253886322	63,53,675.44		53,22,243.78	
Corp. Bank NIT Plan A/c No.SB/01/4284-520101026782460	1,25,542.00		-	
Corporation Bank - NIT Goa Projects Overhead PDA SB A/c. No. -520101252614922	5,154.00		-	
Corporation Bank SB/01/003573-520101026780557	2,96,05,287.92	4,38,47,790.37	2,80,50,470.72	7,22,87,772.21
<b>TOTAL</b>		<b>97,14,91,278.37</b>		<b>1,29,06,31,070.21</b>

**Grant Received**

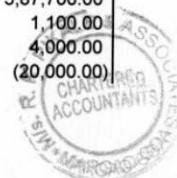
**RP Schedule -2**

	Current Year		Previous Year	
a) From Govt. of India				
Plan Grant -Capital				
Plan Grant (CCA-35)	-		-	
Plan Grant -Revenue				
Plan Grant (GA-31)	9,06,00,000.00		4,66,00,000.00	
Plan Grant (Sal.-36)	11,08,00,000.00	20,14,00,000.00	8,12,67,000.00	12,78,67,000.00
b) From State Govt.		-		-
c) From other sources		-		-
<b>TOTAL</b>		<b>20,14,00,000.00</b>		<b>12,78,67,000.00</b>

**Academic Receipts**

**RP Schedule -3**

	Current Year		Previous Year	
Attestation Fees		-		2,600.00
Bonafide Certificate Fees		760.00		2,520.00
Institute Fines		-		42,600.00
Library Fines		4,114.00		22,630.00
Other Fee (Exam.,Lib. Etc.)		27,985.00		18,246.00
Transcript Fees		10,600.00		39,270.00
Breakage Charges		-		6,160.00
<b>Fees/subsription</b>				
Admission Fee (B Tech)		-		75,000.00
Admission Fee (M Tech)		-		-
B-Tech Other Fees		3,35,000.00		8,65,000.00
B Tech Tuition Fees		1,03,78,902.00		84,20,966.00
DASA Tuition Fees		12,48,944.57		28,25,429.93
Forfeited of Students Fee		-		96,800.00
Hostel Rent (B Tech)		-		5,87,700.00
Hostel Rent (Others)		-		1,100.00
M -Tech Other Fees		4,000.00		4,000.00
M-Tech Tuition Fees		70,000.00		(20,000.00)





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M.Tech Tution Processing Fees		-	5,000.00
PHD Admission Fees		-	-
Ph.D. App. Fees		-	47,900.00
PHD Other Fees		-	2,000.00
PHD Tution Fees		-	7,500.00
Tution Fees Adjusted From Scholarship (B TECH)		-	8,40,000.00
<b>Advance Receivable</b>			
CCMT	28,35,200.00		20,20,250.00
CSAB	1,16,90,000.00		66,64,000.00
DASA	8,44,400.00		11,64,500.00
DASA Tution Fees Receivable	-		66,200.00
Students Fee Receivable	-		98,000.00
<b>Sundry Debtors</b>			
Payu Money	1,10,000.00		12,80,011.00
Payu Moneybiz-DASA	16,98,433.00		22,54,579.56
Payu Money-Hostel	15,86,702.00		1,54,78,200.00
Payu Money-Tution Fees	2,77,90,805.80		2,90,76,206.00
Bihar State Education Finance Corporation	5,200.00		63,500.00
Student Hostel Fees Receivable (Migrated From Other NITs)	-		-
<b>TOTAL</b>	<b>5,86,41,046.37</b>		<b>7,20,57,868.49</b>

Receipts against Earmarked/Endowment Funds

RP Schedule -4

	Current Year	Previous Year
Institute Development Fund (B Tech)	-	3,54,000.00
Institute Development Fund (M Tech)	-	4,000.00
Institute Development Fund (Phd)	-	-
<b>TOTAL</b>	<b>-</b>	<b>3,58,000.00</b>

Receipts against Sponsored Projects/Schemes

RP Schedule -5

	Current Year	Previous Year
Analysis of Cardiovascular Disorders Using Heart		
Sound Signals- SERB-Dr. Shivnarayan Patidar	-	1,00,000.00
Design and Development of an Efficient Grid-Integrated Distributed Maximum Power Point Tracking to Photovoltaic System for Enhancing Power Quality Under Partial Shading Conditions-SERB Project-Dr. Suresh Mikkilil	-	3,66,530.00
Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)-SERB-Dr. Amol Deodas Rahulkar	683.00	1,07,930.00
Design and Implementation of an Inverter for A Grid Connected Photovoltaic System Which Is A Part of VPP-Dr. Sree Raj	-	2,00,000.00
Design & Development of Roast Distributed Nonlinear Channel Eqaulization & Identification- SERB-Dr. Trilochan P	50,259.83	-
Designing Out-of-VM Monitoring Based Virtual Machine Introspection Framework for SVECC-Dr. Chirag Modi	-	3,34,810.00
Design of Compact Shaped Beam Antenna Array for Dedicated Short Range Communication Service-Dr. Anirban Chatterjee	43,978.00	6,00,000.00
Design & Development of A Photovoltaic - Thermoelectric Hybrid Energy System-Dr. Lalat Indu Giri	-	7,74,866.00
Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C.Vijayanthi	-	5,90,200.00
Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron Models"-Dr.Venkatanareshbabu Kuppilli	-	3,53,200.00







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Development of Secure Key Management Protocols for Group Communication Under Active Outsider Attack Model-SERB-Dr.Purushothama B.R.	-	-
Energy Efficient Lighting with Visible Based Communication & Power Line Communication- Dr. Ankit Dubey	-	-
EPR Studies of Some Ni(II) Complexes in Crystalline Environment: Probing the Structure, Bonding and Electron Spin Relaxation Rates - SERB -Dr.Velavan Kathirvelu	-	-
Design & Development of a Dynamic Photovoltaic Array Fed Single Stage PV System Using an Open WIM-Dr.Venugopal Reddy	6,00,000.00	10,26,461.00
Monit Air: An IoT Based Air Pollution Monitoring System- Dr. S. Mini & Dr. Trilochan Panigrahi	-	-
MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr.S. Mini	-	-
Secure and Efficient Communications Inside Partitioned Socialoverlaynetworks-Dr. Keshavamurthy B.N	-	2,00,000.00
Design and Development of Acoustic Methods for early detection of Stem and Root Borer Placaederus spp infestation in cashew-SERB - Dr. Veerakumar T.	6,00,000.00	5,78,550.00
Special Manpower Development Program for Chips to System Design - Central Electronics Engineering Research-Dr.Nithin Kumar Y.B	13,07,766.00	13,07,864.00
Suspended Functional Magnetic Microparticle Array based Point-of-Care Diagnostic System for MBMS-SERB-Dr.Prasanth G.R.	8,404.83	-
Funds for Workshop - Central Electronics Engineering Research Institute(CEERI)	-	-
Convective Instabilities in Double Diffusive Systems-SERB- Dr. Ravi Ragoju	1,00,000.00	70,000.00
Design and Development of Compact and Wideband Dielectric Resonator Antennas -SERB - Dr. Pragati Patel	3,61,060.00	-
Deep-Learning Assisted Tomographic Ground Penetrating Radar for the Detection of Electrical and Morphological Features of Buried Objects-SERB- Dr. Mallikarjun E.	1,90,000.00	-
Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Electroencephalography (Eeg) Data -SERB- Dr. Damodar Reddy Edla	-	2,20,000.00
Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment - SERB - Dr. Chirag Modi	-	57,44,970.00
Enhanced Automation of 3-Axis CNC Milling Machine Using Computer Vision and Artificial Intelligence-SERB-Dr.Pravati Swain	-	4,11,770.00
Harnessing Technological Innovations for Sustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) - Dr. Sunil Kumar A.	5,000.00	2,00,000.00
Interference Rejection Using Built-In Filter Based Band-Pass Sigma Delta Modulators -SERB- Dr. Nithin Kumar Y.B.	-	28,40,000.00
Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology" TERI -Dr.Lalat Indu Giri	10,00,000.00	-
All India Council for Technical Education(AICTE)	93,000.00	-
<b>TOTAL</b>	<b>43,60,151.66</b>	<b>1,60,27,151.00</b>

**Receipts against sponsored Fellowships and Scholarships**

	Current Year	Previous Year
Scholarship EDCIL (India) Ltd.	3,20,586.00	

RP Schedule -6





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Scholarship Govt. of Madhya Pradesh	-	97,699.00
Scholarship-Fellowship-Inspire Fellowship-DST-Trilochan P.	4,25,256.00	4,80,848.00
Scholarship of Tribal, Gol	-	-
Scholarship Social Justice	-	81,600.00
<b>Sponsored Projects</b>		
Visvesvaraya Phd Scheme - Media Lab Asia (Batch 2014-15) -Dr.Nithin Kumar Y.B	-	5,38,868.00
Visvesvaraya Phd Scheme - Media Lab Asia - (Batch 2015-16)-Dr.Nithin Kumar Y.B	-	10,80,609.00
<b>TOTAL</b>	<b>7,45,842.00</b>	<b>22,79,624.00</b>

	RP Schedule -7	
	Current Year	Previous Year
<b>a) Bank Deposits</b>		
Interest on Plan Grant	2,91,37,044.00	4,27,24,070.00
Interest on Term Deposits	3,20,32,940.00	2,36,32,191.00
<u>On Saving Accounts</u>		
Bank Interest	6,62,387.00	12,87,642.00
<u>On Sponsored Projects Saving Accounts</u>		
Bank Interest	8,04,205.00	11,01,557.00
<b>TOTAL</b>	<b>6,26,36,576.00</b>	<b>6,87,45,460.00</b>

	RP Schedule -8	
	Current Year	Previous Year
<b>Other income (including Prior Period Income)</b>		
Canteen Rent Received	-	36,000.00
RTI Application Fee	130.00	-
Misc. Income	1,26,077.46	15.00
Salary in Lieu of Notice	-	-
Foreign Exchange Gain	1,862.00	3,656.00
LD(Liquidated Damage)Suppl./Contractor	35,220.00	1,31,711.00
<u>Income From Sales/services</u>		
Sale of Tender Paper	-	8,000.00
<u>Projects Other Income</u>		
LD(Liquidated Damage)Suppl./Contractor	50,711.00	22,718.00
<b>TOTAL</b>	<b>2,14,000.46</b>	<b>2,02,100.00</b>

	RP Schedule -9	
	Current Year	Previous Year
<b>Deposits and Advances</b>		
<b>Advance Received</b>		
Alumni Association(NITGAA) (B Tech)	-	1,02,000.00
Alumni Association(NITGAA) (M Tech)	-	2,000.00
CCMT Expenses Advance Received	1,45,000.00	4,77,350.00
CSAB Expenses Advance Received	2,34,400.00	4,39,300.00
B Tech Tutition Advance Fees	-	1,000.00
DASA Admission Expenses Reimbursement	18,000.00	24,000.00
NIT Rourkela	-	-
Unit of Science and Educational Development-MHRD	-	1,45,000.00
Group Insurance Scheme (B Tech)	6,000.00	3,25,200.00
Group Insurance Scheme (M Tech)	-	2,400.00
Group Insurance Scheme (Phd)	-	1,200.00
Hall Establishment Charges	-	-
Hall Establishment Charges (B Tech)	2,88,000.00	11,16,000.00
Mess Adv.(B Tech)	-	38,50,200.00
SAC (Student Activity Centre) Fee (B Tech)	-	4,75,000.00
SAC(Student Activity Centre) Fee (M Tech)	-	6,000.00
Students Fee Refundable (B-Tech)	11,52,634.00	8,95,701.00
Students Hostel Fee Refundable(B.Tech)	-	29,700.00
<u>Performance Gurantee of Supplier/Contractor</u>		
PG - Adroitec Information System Pvt. Ltd.	-	15,761.00
PG Ahuja Books Co. Pvt. Ltd.	-	4,632.00
PG - Apex Books Pvt. Ltd.	-	25,116.00
PG - Best Engineering Aids & Consultancies Pvt. Ltd	-	51,625.00





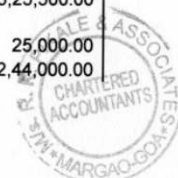


PG BKSP Enterprises	-	5,310.00
PG BMG Informatics Pvt. Ltd.	7,411.00	-
PG - Deepak R. Naik	23,480.00	-
PG Digital Network Associates	-	7,223.00
PG Eagle Photonics Pvt. Ltd.	-	66,066.00
PG Entuple Technologies Pvt. Ltd.	1,76,698.00	3,65,800.00
PG - International Book Center	15,869.00	-
PG - JSK Lab Instruments	-	10,500.00
PG Kalika Enterprises	-	9,784.00
PG M.A. Doddamani	-	10,137.00
PG Mastersoft ERP Solutions Pvt. Ltd.	-	1,62,191.00
PG Mathworks India Private Limited	-	68,407.00
PG - N. M. Enterprises	23,521.00	-
PG Prashant R Naik	-	16,288.00
PG Rehan Computers	-	14,221.00
PG - Schematix	-	6,757.00
PG -Shah Book House Pvt Ltd	9,916.00	-
PG -S H Enterprises	-	10,060.00
PG - Shree Chemicals	9,615.00	9,920.00
PG S. P. Construction	14,696.00	4,590.00
PG Specialise Instruments Marketing Company	-	39,671.00
PG Swastik Prints	-	5,628.00
PG - Techcentra Infosystems Pvt. Ltd.	43,943.00	-
PG - Techniz Books International	10,700.00	-
PG Technology Excellence Group	-	9,351.00
PG - Techser Power Solutions Pvt. Ltd.	-	8,448.00
<u>Performance Gurantee of Supplier/Contractor - Projects</u>		
PG - Applied Realtech Systems Pvt. Ltd.	1,24,105.00	-
PG - Computer Clinic	5,217.00	-
PG - D.B. Solutions	-	25,842.00
PG- Jyoti Electronics	-	22,781.00
PG - National Infotech	7,487.00	-
PG - Pragna Microdesigns	-	8,138.00
PG Prajakt D. Amonkar	-	30,000.00
PG Sadhale Enterprises	-	19,037.00
PG - San Instruments	-	30,026.00
PG - Sense Techno Solution	6,521.00	-
<u>Security Deposit(Contractor)</u>		
SD Aditya Books Pvt. Ltd.	-	42,000.00
SD Ahuja Book Co. Pvt. Ltd.	-	42,000.00
SD Apex Book Services	-	42,000.00
SD Best Engineering Aids and Consultancies	-	25,000.00
SD Creative Books	-	42,000.00
SD D. B. Solutions	-	15,000.00
SD Deepak R. Naik	12,000.00	-
SD - Direct Electric Pvt. Ltd.	12,000.00	-
SD Eagle Photonics	-	30,000.00
SD Entuple Technologies Pvt. Ltd.	28,000.00	1,30,000.00
SD Forevision Instruments India Pvt. Ltd.	-	1,30,000.00
SD Goa Intelligence Security Services	-	4,80,000.00
SD - Industrial Trading Company	-	6,000.00
SD - International Book Centre	-	21,000.00
SD Narendra Publishing House	-	42,000.00
SD - Nirakar Engineering Pvt. Ltd.	-	6,400.00
SD N. M. Enterprises	10,000.00	-
SD - Power Research & Development Consultants Pvt. Ltd.	-	15,000.00
SD Prashant R. Naik	-	11,000.00
SD - Raamaya Technologies	13,049.00	-
SD Schematix	-	6,000.00
SD Sean Adevent	-	15,000.00
SD - Shah Book House Pvt. Ltd.	22,000.00	-
SD - Shanta Sound	-	10,000.00
SD S.P. Construction	-	4,000.00
SD Swastik Prints	-	15,000.00
SD Technical Bureau India Pvt. Ltd.	-	42,000.00
SD - Techniz Books International	22,000.00	21,000.00
SD VSP Books International	-	42,000.00
<u>Security Deposit(Student)</u>		





B Tech Security Deposit Refundable	44,000.00	4,40,000.00
M-Tech Security Deposit Refundable	-	8,000.00
PHD Security Deposit Refundable	4,000.00	-
<u>Deposits to Contractor/Supplier</u>		
Security Deposit of Guest Cum Camp House -Mr. Madan Sadhale	75,000.00	-
<u>Permanent Advance Refunded</u>		
Permanent Adv. Chairman, T&P	-	15,000.00
Permanent Adv. Chief Warden	25,000.00	45,000.00
Permanent Adv.Registrar	50,000.00	15,000.00
Permanent Advance (Dean Academics)	-	15,000.00
Permanent Adv. Dean, Planning & Development	25,000.00	15,000.00
Permanent Adv. HOD, Mechanical & Civil Engg.	25,000.00	15,000.00
<u>Advance to Staff Settled</u>		
Amit Kabiraj, AR	-	-
B. Venugopal Reddy	20,000.00	2,36,000.00
B. Santhi, Asst. Prof.	-	40,000.00
Digambar R. Dhengole	-	10,000.00
Mrs. Swara S. Lotlikar, Steno,Emp. Code -4160079	-	4,000.00
Prof. Gopal Mugeraya, Director	-	3,37,900.00
Dr. Ragoju Ravi, Asst. Prof. (Emp. No.-1130024)	15,000.00	70,000.00
Dr. Amol D. Rahulkar, Asst. Prof. (Emp. No.-1140067)	25,000.00	57,000.00
Dr. Anirban Chatterjee, Asst. Prof. (Emp. No.-1130035)	-	1,67,000.00
Dr.C. Vyjayanthi, Asst. Prof. (Emp. Code.-1140069)	45,000.00	38,500.00
Dr. E. Mallikarjun, Asst. Prof. (Emp Code-1160086)	-	52,000.00
Dr. Keshavamurthy B. N., Asst. Prof (1140043)	-	32,500.00
Dr. Lalat Indu Giri, Asst. Prof. (Emp. Code -1150073)	-	30,000.00
Dr. L. Shangerganesh, Asst. Prof. (Emp. No.-1160083)	-	-
Dr. Pragati Patel, Asst. Prof.- Emp. No.-1160085	-	36,000.00
Dr. Prasanth G. R., Asst. Prof.(Emp. Code-1150072)	-	-
Dr. Pravati Swain, Asst. Prof. (Emp. Code-1140064)	-	10,000.00
Dr.Sarani Ghosal Mondal, Asst. Prof.-Emp -1130015	-	-
Dr. Shivnarayan Patidar, Asst. Prof. (Emp. No.-1150071)	-	2,84,000.00
Dr. S. Mini, Asst. Prof. (Emp. Code -1140045)	-	-
Dr. Soumitra Das, Asst. Prof., Emp. No.-1150074	-	-
Dr. Sunil Kumar A, Asst. Prof.-Emp. No.-1160087	-	7,700.00
Dr. Trilochan Panigrahi, Asst. Prof. (Emp. No.-1140066)	-	1,44,000.00
Dr. Veena Thenkanidiyoor, Asst. Prof. (1130016)	-	20,000.00
Dr. Veerakumar T., Asst. Prof. - Emp. No.-1130033	-	-
Modi Chirag Navinchandra, Asst Prof. (Emp. No. 1140068)	-	2,16,000.00
Mrs. Suvidha Naik, Technical Assistant	-	-
Munesh Kumar, AL	-	1,66,000.00
Nijin M., Technician (3140056)	-	-
Nithin Kumar Y. B (1130036)	25,000.00	95,000.00
Pinaki Chaterjee-Technical Asst. (Emp. No.-3160082)	-	-
Prasanth P., SO	-	2,55,000.00
P Saidi Reddy(1130009)	-	5,25,500.00
Sreeraj E. S., Asst. Prof (Emp. Code -1140041)	-	25,000.00
Suresh Mikkil Asst. Prof.	50,000.00	2,44,000.00





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Vasantha M. H Asst Prof. (1130032)	-	1,50,000.00
Velavan Kathirvelu Asst. Prof (1130013)	2,60,000.00	1,89,000.00
Purushothama B.R.(1130022)	-	2,42,000.00
Saavyas NIT Goa	-	-
Vijeesh VP, Technician (Emp Code-3140049)	-	66,000.00
Anil Mistri, Jr. Asst. (Emp. Code -4140061)	-	40,000.00
<u>Advance to Staff Settled - Projects</u>		
Dr. Keshavamurthy B.N., Assoc. Prof.	-	40,000.00
Dr. Prashanth G.R., Asso. Prof.	-	30,000.00
<u>Advance to Supplier/Contractor</u>		
Kala Academy Goa	-	-
Ravindra Bhavan Margao	-	72,400.00
The Executive Engineer, WD-XVI (BC) PWD, Ponda	-	7,92,000.00
CPWD, Goa	-	40,35,660.00
CPWD, Goa (Civil)	-	-
Rajiv Gandhi Kala Mandir	-	77,220.00
<b>TOTAL</b>	<b>31,30,262.00</b>	<b>1,95,95,141.00</b>

Miscellaneous Receipts including Statutory Receipts

RP Schedule -10

	Current Year		Previous Year	
<b>Statutory Liability</b>				
CGST TDS @ 1%		1,00,625.00		1,70,016.00
IGST TDS		3,58,564.00		6,54,928.00
SGST TDS @ 1%		1,00,625.00		1,70,016.00
Director's Other Deductions(Water Charges,LIC,HR,GIS)		63,816.00		58,498.00
PF Contribution of Director		81,600.00		74,800.00
PF Subscription		1,71,23,466.00		1,54,24,957.00
Tax Deducted at Source (Non-Resident Sec 195)		-		-
Tax (IT/SC/EC)Contractor		4,59,677.00		5,08,958.00
Tax(IT/SC/EC) Professional U/s.194J		68,842.00		4,92,193.00
Tax (IT/SC/EC)Rent		76,603.00		97,780.00
TDS(IT)Staff		1,41,22,488.00		1,24,28,121.00
<b>Projects Statutory Liability</b>				
CGST TDS @1%		-		6,000.00
IGST TDS @ 2%		47,278.00		42,562.00
SGST TDS @1%		-		6,000.00
Tax Deducted at Source -194C		-		12,000.00
Tax Deducted at Source -194J		83,790.00		1,43,189.00
<b>TOTAL</b>		<b>3,26,87,374.00</b>		<b>3,02,90,018.00</b>

Any other receipts - Misc

RP Schedule -11

	Current Year		Previous Year	
Convocation Registration Fees		-		1,500.00
<u>Workshop,Summer Course, Other Programmes</u>				
Conference Regn. Fees - MIKE 2019		-		51,266.00
Summer Course Regn.		-		-
<b>TOTAL</b>		<b>-</b>		<b>52,766.00</b>

Expenses

RP Schedule -12

	Current Year		Previous Year	
<b>Establishment Expenses</b>				
NPS Matching Share	91,64,185.00		83,64,416.00	
<b>Salary and Wages</b>				
Salary and Wages(Contractual)	15,91,086.00		36,54,670.00	
Salary and Wages(Faculty)	6,42,57,482.00		5,81,80,191.00	
Salary and Wages(Contractual Teaching)	39,65,804.00		47,01,763.00	
Salary and Wages(Staff)	1,53,10,616.00		1,50,92,609.00	
<b>Staff Travelling Allowance</b>				
TA to Staff	13,267.00		5,03,139.00	
Director TA/DA	-		1,60,532.00	
<b>Staff Welfare Expenses</b>				
Children Education Allowance	9,39,500.00		6,70,500.00	
LTC(EL)	11,36,660.00		4,21,564.00	





LTC(Leave Travel Concession)	22,70,686.00		19,53,060.00	
Medical Care(Staff)	5,27,625.00		9,68,876.00	
Staff Telephone Charges	88,126.00	9,92,65,037.00	1,29,333.00	9,48,00,653.00
<b>Academic Expenses</b>				
Curricular Activities Expenses	1,13,611.00		6,51,456.00	
Examination Expenses	-		37,557.00	
Honorarium	2,44,000.00		5,52,000.00	
Lab Consumable	3,47,905.00		2,59,028.00	
M.Tech.(Gate) Stipend	1,32,39,703.00		91,90,231.00	
Online Subscription	70,192.00		5,00,965.00	
Ph.D. Stipend	2,22,84,117.00		2,18,93,732.00	
Phd Contingency Expenses	4,18,062.00		-	
Sports Expenses	23,800.00		2,22,205.00	
Subscription	3,61,800.00		4,30,000.00	
Expenses for Summer Course Org.	-		2,52,500.00	
Conference Expenses- MIKE 2019	-		3,94,405.00	
<b>Convocation Expenses</b>				
Convocation Event Management Expenses	-		4,02,790.00	
Convocation Expenses - Contingency/Hospitality	36,750.00		3,36,566.00	
Convocation Miscellaneous Expenses	-		70,147.00	
Convocation Printing & Stationery	2,04,365.00		6,26,132.00	
Convocation Travelling & Conveyance Expenses	-	3,73,44,305.00	75,371.00	3,58,95,085.00
<b>Other Administrative Expenses</b>				
Accommodation	-		12,487.00	
Advertisement & Publicity Expenses	-		4,20,840.00	
Audit Fee	96,450.00		2,48,790.00	
Contingency Expenses	3,31,078.00		3,29,603.00	
Electricity & Power	14,96,071.00		22,32,563.00	
Foreign Exchange Loss	2,576.63		20,668.78	
Hospitality Expenses	3,920.00		2,29,915.00	
House Rent	6,95,625.00		5,65,000.00	
Internet Charges(Payment)	8,51,028.00		15,39,900.00	
Training & Placement Cell Expenses	-		48,542.00	
Medicines	4,55,484.00		2,14,163.00	
Meeting Expenses	-		1,22,746.00	
Miscellaneous Expenses	34,345.00		-	
News Paper & Subscription	17,851.00		21,943.00	
Postage	11,522.00		23,787.00	
Printing & Stationery	2,03,475.00		17,71,696.00	
Professional Charges	11,800.00		11,800.00	
Rent, Rate & Tax	-		7,500.00	
SAC Expenses	13,764.00		2,41,122.00	
Service Charges	1,680.00		11,921.00	
Telephone Charges	1,11,905.00		1,07,392.00	
Staff Recruitments Expenses	-		23,519.00	
Travelling & Conveyance Expenses	-		14,047.00	
Water Charges Expenses	52,148.00		2,07,657.00	
<b>Outsourced Expenses 1</b>				
Thunder Force Pvt. Ltd.	-		17,86,941.00	
Goa Intelligence Security Service -Canacona Goa	81,09,496.00		65,82,687.00	
<b>PDA Administrative Expenses</b>				
PDA Consumables	15,22,429.00		2,80,363.00	
PDA Registration Fees	1,81,359.00		2,16,948.00	
PDA TA	-		3,58,815.00	
<b>Seed Money Administrative Expenses</b>				
Seed Money - Lab Consumable	1,60,480.00		2,18,422.00	
Seed Money - Other Expenses	1,630.00		-	
<b>Travelling Allowance</b>				
MGM International Travels	16,462.00		17,95,263.00	
TA to Outsiders	13,888.00	1,43,96,466.63	2,87,855.00	1,99,54,895.78
<b>Finance Cost</b>				
Bank Commission/Charges	23,761.93	23,761.93	39,491.95	39,491.95
<b>Hostel Mess Charges</b>				
Ideal Catering Services	-	-	-	88,77,011.00
<b>Transportation Expenses</b>				
Vibhav Vinayak Chari	6,00,000.00		2,86,666.00	
Vehicle Insurance Expenses	42,368.00		33,727.00	





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Shubhalakshmi Motors	13,44,600.00		9,25,500.00	
Vehicle Repairs & Maintenance Expenses	1,45,183.00		78,542.00	
Vehicle (Taxi) Hiring Expenses	-		1,09,690.00	
Vehicle Running & Maintenance	1,93,187.00	23,25,338.00	2,59,715.00	16,93,840.00
<b>Repair &amp; Maintenance</b>				
Repair & Maintenance -Others	1,96,068.00		2,73,098.00	
Repairs & Maintenance - Buildings	92,07,656.00		1,12,57,059.00	
Repairs & Maintenance - Furniture.	82,600.00		2,19,594.00	
Repairs & Maintenance - Electrical	71,850.00		11,90,392.00	
Housekeeping/Cleaning & Maintenance Expenses	1,11,57,618.00		96,65,069.00	
AMC Charges of Software	-		8,06,524.00	
Repairs & Maintenance of Computers	53,883.00	2,07,69,675.00	3,84,279.00	2,37,96,015.00
<b>Prior Period Expenses</b>				
<b>TOTAL</b>		<b>17,41,24,583.56</b>		<b>18,50,56,991.73</b>

Payments made against Earmarked/Endowment Funds

RP Schedule -13

	Current Year	Previous Year
Institute Development Fund (M Tech)	-	12,000.00
<b>TOTAL</b>	<b>-</b>	<b>12,000.00</b>

Payments against Sponsored Projects/Schemes

RP Schedule -14

	Current Year	Previous Year
Overhead-Faculty & Staff Development Fund	8,64,826.00	11,12,831.00
Analysis of Cardiovascular Disorders Using Heart		
Sound Signals- SERB-Dr. Shivnarayan Patidar	4,76,196.70	2,90,250.00
Computational and Theoretical Studies on		
Parabolic Partial Differential Equations in CM-SERB		
Dr. Shangerganesh	-	2,12,072.76
Convective Instabilities in Double Diffusive Systems-		
SERB- Dr. Ravi Ragoju	2,50,000.00	1,79,838.00
Design and Development of Acoustic Methods for		
early detection of Stem and Root Borer		
Plocaederus spp infestation in cashew-SERB - Dr.	3,65,883.00	1,80,955.00
Design and Development of an Efficient Grid-		
Integrated Distributed Maximum Power Point		
Tracking to Photovoltaic System for Enhancing		
Power Quality Under Partial Shading Conditions-		
SERB Project-Dr. Suresh Mikkili	4,20,826.24	5,46,174.00
Design and Development of Compact and		
Wideband Dielectric Resonator Antennas -SERB -		
Dr. Pragati Patel	2,54,000.00	1,55,493.00
Design and Development of Fingerprint and Face		
Recognition Systems for Infants and Toddlers		
(IATs)-SERB-Dr. Amol Deodas Rahulkar	1,61,730.57	3,25,355.00
Design and Implementation of an Inverter for A Grid		
Connected Photovoltaic System Which Is A Part of		
VPP-Dr. Sree Raj	4,69,588.73	6,88,599.00
Design & Development of a Dynamic Photovoltaic		
Array Fed Singlae Stage PV System Using an Open		
WIM-Dr.Venugopal Reddy	4,40,958.00	2,82,652.00
Design & Development of A Photovoltaic -		
Thermoelectric Hybrid Energy System-Dr. Lalat		
Indu Giri	7,95,274.88	1,65,315.00
Design & Development of Roast Distributed		
Nonlinear Channel Equalization & Identification- -		
SERB-Dr. Trilochan P	1,42,250.00	3,34,529.00
Designing Out-of-VM Monitoring Based Virtual		
Machine Introspection Framework for SVECC-Dr.		
Chirag Modi	3,03,500.27	3,61,621.00
Design of Compact Shaped Beam Antenna Array		
for Dedicated Short Range Communication		
Service-Dr. Anirban Chatterjee	3,65,421.57	3,66,299.00





Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	1,72,347.00	3,29,816.00
Design, Simulation and Implementation of Bandpass Sigma Delta - SERB-Dr.Nithin Kumar Y.B	-	4,18,186.78
Development of A Multipurpose Intelligent Controller for A Nano Grid Operation--MNRE- Dr. C. Vyjayanthi	27,665.00	74,651.00
Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C.Vyjayanthi	1,28,461.00	2,25,509.00
Development Of Efficient Algorithms For Photoacoustic Tomography (Pat) - SERB-Dr. Raviprasad K.J	-	6,03,826.62
Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron Models"-Dr.Venkatareshbabu Kuppilli	6,38,990.97	2,67,783.00
Development of Secure Key Management Protocols for Group Communication Under Active Outsider Attack Model-SERB-Dr.Purushothama B.R.	-	2,57,232.19
Energy Efficient Lighting with Visible Based Communication & Power Line Communication- Dr. Ankit Dubey	47,530.00	1,11,109.00
Enhanced Automation of 3-Axis CNC Milling Machine Using Computer Vision and Artificial Intelligence-SERB-Dr.Pravati Swain	-	3,85,677.26
Improved PHY and MAC Strategies for M2M Communications in Smart Grid Over Wireless and PLC Heterogenous Network -Dr. Ankit Dubey	26,07,382.33	-
Monit Air: An IoT Based Air Pollution Monitoring System- Dr. S. Mini & Dr. Trilochan Panigrahi	-	4,80,646.07
MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr.S. Mini	-	3,38,404.92
Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology" TERI -Dr.Lalat Indu Giri	6,20,092.00	11,32,581.00
Secure and Efficient Communications Inside Partitioned Socialoverlaynetworks-Dr. Keshavamurthy B.N	2,61,974.97	6,70,132.00
Special Manpower Development Program for Chips to System Design - Central Electronics Engineering Research-Dr.Nithin Kumar Y.B	12,34,982.00	11,33,984.00
Suspended Functional Magnetic Microparticle Array based Point-of-Care Diagnostic System for MBMSS-SERB-Dr.Prasanth G.R.	93,839.00	5,03,529.00
Harnessing Technological Innovations for Sustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) - Dr. Sunil Kumar A.	75,323.00	3,000.00
Visvesvaraya Phd Scheme - Media Lab Asia (Batch 2014-15) -Dr.Nithin Kumar Y.B	-	5,22,323.00
Visvesvaraya Phd Scheme - Media Lab Asia - (Batch 2015-16)-Dr.Nithin Kumar Y.B	-	11,51,515.00
Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Electroencephalography (Eeg) Data -SERB- Dr. Damodar Reddy Edla	26,100.00	-
Interference Rejection Using Built-In Filter Based Band-Pass Sigma Delta Modulators -SERB- Dr. Nithin Kumar Y.B.	3,75,836.00	-
Plan Grant for Conducting Workshop & Seminar Under PMMMNMTT Scheme -MHRD	1,85,645.38	
All India Council for Technical Education(AICTE)	93,000.00	
<b>TOTAL</b>	<b>1,18,99,624.61</b>	<b>1,38,11,889.60</b>





**Payments against Sponsored Fellowships / Scholarships**

RP Schedule -15

	Current Year		Previous Year	
Other Scholarships		-		-
Scholarship of Tribal, Gol		-		-
Scholarship EDCIL (India) Ltd.		3,20,586.00		-
Scholarship Govt. of Madhya Pradesh		64,866.00		32,833.00
Scholarship-Fellowship-Inspire Fellowship-DST-Trilochan P.		1,63,840.00		4,16,440.00
Scholarship Social Justice		-		11,62,620.00
<b>TOTAL</b>		<b>5,49,292.00</b>		<b>16,11,893.00</b>

**Expenditure on Fixed Assets and Capital Works - in- Progress**

RP Schedule -16

	Current Year		Previous Year	
<b>a) Purchase of Fixed Assets</b>				
Audio Visual Equipments	63,170.00		4,99,801.00	
Computer/peripherals	25,87,706.00		89,25,388.00	
Computer/peripherals (50% Ownership)	-		-	
Visvesvaray Phd Scheme	-		-	
Furniture & Fixture	25,000.00		11,10,170.00	
Office Equipment	2,41,290.00		4,38,500.00	
Hostel Equipment	-		80,900.00	
Hostel Furniture	-		-	
Lab Equipments - P & M	13,70,339.00		40,16,942.00	
Library Books	6,34,540.00		7,20,878.00	
Plant, Machinery & Equipment	44,325.00		7,02,013.00	
Sports Equipments	37,500.00		-	
Small Value Assets	-		68,412.00	
Software & Program	36,28,365.00	86,32,235.00	98,17,546.00	2,63,80,550.00
<b>Intangible Assets</b>				
Patent - Robust Low Power Auxillary Circuit for Single Event Upset Environment		90,500.00		-
<b>Capital Work in Progress</b>				
New Campus at Cuncolim - CWIP(Civil)		6,82,740.00		23,17,242.00
<b>Sponsored Projects Fixed Assets</b>				
Computers & Peripherals	-		2,06,720.00	
Lab Equipments - Design and Development of compact and Wideband Dielectric Resonator Antennas -SERB- Dr. Pragati Patel	24,82,109.00		4,55,616.00	
Lab Equipments-Design & Development of a Dynamic Photovoltaic Array Fed Singlae Stage PV System Using an Open WIM-Dr.Venugopal Reddy	64,050.00		1,62,750.00	
Computer & Peripherals - Convective Instabilities in Double Diffusive Systems-SERB- Dr. Ravi Ragoju	19,196.00		-	
Lab Equipments - Design and Development of an Efficient Grid-Integrated Distributed Maximum Power Point Tracking to Photovoltaic System for Enhancing Power Quality Under Partial Shading Conditions- SERB Project-Dr.Suresh Mikkili	-		3,70,850.00	
Computer & Peripherals - Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Eletroencephalography (Eeg)				
Data -SERB- Dr. Damodar Reddy Edla	1,73,900.00		-	
Computer & Peripherals - Harnessing Technological Innovations for Stustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) - Dr. Sunil Kumar A.	55,000.00		-	
Lab Equipments -Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C.Vjayanthi	-		4,74,265.00	
Computer & Peripherals - Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	-		1,25,989.00	





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Lab Equipments - Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	32,025.00		15,30,870.00	
Software - Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	-		93,220.00	
Lab Equipments - Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology-TERI-Dr.Lalat Indu Giri	2,17,350.00	30,43,630.00	56,100.00	34,76,380.00
<b>TOTAL</b>		<b>1,24,49,105.00</b>		<b>3,21,74,172.00</b>

Other Payments including statutory Payments

RP Schedule -17

	Current Year		Previous Year	
<b>Sundry Creditors</b>				
Anatek Services Pvt. Ltd.	21,133.00		-	
Chandan Electricals	1,94,124.00		-	
C. Shrikanth	-		45,000.00	
Hitachi Hi Rel Power Electronics Pvt. Ltd	1,03,737.00		-	
Industrial Trading Company	3,27,804.00		-	
Jasco International Co. Ltd.	26,88,652.00		-	
M.A. Doddamani	55,368.00		-	
Nirakar Engineering Pvt Ltd	6,11,923.00		-	
N. M. Enterprises	22,550.00		-	
O/s CPWD, Goa	-		8,97,330.00	
O/s Vibhav Vinayak Chari	49,000.00		-	
CPWD, Goa - New Campus	20,00,00,000.00		30,05,26,040.00	
Executive Engineer, Div XVI (BC) PWD, Ponda, Goa	27,35,110.00		-	
Forevision Instruments (India) Pvt. Ltd.	-		3,99,516.00	
Paras Trading Company	14,360.00		-	
Power One Micro Systems Pvt Ltd	3,88,983.00		-	
Power Research & Development Consultants Pvt. Ltd.	4,22,472.00		-	
Raamaya Technologies	2,56,540.00		-	
Regalia Interiors	-		64,000.00	
Saavi and Company	35,400.00		-	
Shanta Sound	4,12,627.00		-	
Sheela Equipments Pvt. Ltd.	12,036.00		-	
Shreeji Enterprises	37,900.00		-	
S.S. Traders	-		1,49,085.00	
Techno Art Builder	21,952.00		-	
Warsi Medico Systems & Services	39,000.00		-	
Yuratech Global Pvt. Ltd	62,664.00	20,85,13,335.00	-	30,20,80,971.00
<b>Project Sundry Creditors</b>				
Sadhale Enterprises		45,943.00		-
<b>Liability for Expenses</b>				
O/s Audit Fee	54,000.00		54,000.00	
O/s Electricity Charges	1,72,739.00		7,818.00	
O/s Goa Intelligence Security Service	7,90,352.00		-	
O/s. Honorarium	28,000.00		-	
O/s Lab Consumable	4,877.00		-	
O/s Medical Care	38,013.00		-	
O/s Patent Charges	85,500.00		-	
O/s. PDA Expenses	5,10,286.00		-	
O/s.Sai Ram Medical Stores	24,509.00		-	
O/s. Training & Placement Cell Expenses	13,859.00		-	
O/s MGM International Travels	64,301.00		1,89,148.00	
O/s. Ideal Catering Services	7,64,211.00		8,89,829.00	
O/s Lien Contribution of Director	8,60,388.00		8,60,388.00	
O/s News Paper & Periodicals	729.00		-	
O/s Printing & Stationary	67,958.00		2,000.00	
O/s. Staff Telephone Charges	-		11,150.00	
O/s Hospitality Expenses	5,379.00		74,519.00	
O/s TA to Outsiders	-		1,700.00	
O/s Mis. Expenses	3,361.00		3,950.00	
O/s. Vehicle (Taxi) Hiring Expenses	-		26,028.00	
O/s NPS Matching Share	8,24,497.00		5,42,440.00	
O/s Repair & Maint.	1,09,378.00		-	







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O/s Salary & Wages	77,45,795.00		72,76,329.00	
O/s. Sree Vinayaka Enterprises	9,11,638.00		7,78,630.00	
O/s Stipend (M Tech & Phd)	36,01,157.00		-	
O/s. Subscription	-		-	
O/s Telephone Charges	9,735.00		19,641.00	
O/s Thunder Force Pvt. Ltd.	-		6,54,597.00	
O/s. Transportation Expenses	81,340.00		81,340.00	
O/s Vehicle Running & Maint.	12,472.00		-	
O/s Water Charges	21,600.00		-	
O/s Contingency Expenses	27,693.00		17,400.00	
O/s Conference & Seminar	-	1,68,33,767.00	-	1,14,90,907.00
<b>Sponsored Projects Liabilities</b>				
O/s Consumables	2,80,178.00		-	
O/s. Stipend /Fellowship	15,833.00		-	
O/s. Stipend Payable	3,62,419.00		-	
O/s. Travelling Expenses Payable	2,36,056.00	8,94,486.00	-	-
<b>Statutory Liability</b>				
PF Subscription	1,69,30,269.00		1,53,38,831.00	
Director's Other Deductions(Water Charges,LIC,HR,GIS)	63,816.00		58,498.00	
PF Contribution of Director	81,600.00		74,800.00	
CGST TDS @ 1%	1,50,515.00		1,75,551.00	
IGST TDS	4,10,321.00		6,91,997.00	
SGST TDS @ 1%	1,50,515.00		1,75,551.00	
Tax (IT/SC/EC)Contractor	5,25,670.00		5,06,816.00	
Tax(IT/SC/EC) Professional U/s.194J	1,09,932.00		8,34,751.00	
Tax (IT/SC/EC)Rent	52,560.00		1,02,460.00	
TDS(IT)Staff	1,41,23,963.00		1,24,26,646.00	
<b>Projects Statutory Liability</b>				
CGST TDS @1%	-		6,000.00	
IGST TDS @ 2%	47,278.00		42,562.00	
SGST TDS @1%	-		6,000.00	
Tax Deducted at Source -194C	137.00		12,000.00	
Tax Deducted at Source -194J	80,690.00	3,27,27,266.00	1,71,045.00	3,06,23,508.00
<b>Advance Receivable</b>				
Prepaid Expenses		1,96,746.00		24,87,086.00
<b>Permanent Imprest Advance</b>				
Permanent Adv. Chairman, T&P	-		15,000.00	
Permanent Advance (Dean Academics)	-		15,000.00	
Permanent Adv. Chief Warden	25,000.00		45,000.00	
Permanent Adv. Dean, Planning & Development	25,000.00		15,000.00	
Permanent Adv.Registrar	50,000.00		15,000.00	
Permanent Adv. HOD, Mechanical & Civil Engg.	25,000.00	1,25,000.00	15,000.00	1,20,000.00
<b>Advance to Staff towards expenses</b>				
Anil Mistri, Jr. Asst. (Emp. Code -4140061)	-		40,000.00	
B. Santhi, Asst. Prof.	-		40,000.00	
B. Venugopal Reddy	20,000.00		2,36,000.00	
Digambar R. Dhengole	-		10,000.00	
Dr. Amol D. Rahulkar, Asst. Prof. (Emp. No.-1140067)	25,000.00		57,000.00	
Dr. Anirban Chatterjee, Asst. Prof. (Emp. No.-1130035)	-		1,67,000.00	
Dr.C. Vyjayanthi, Asst. Prof. (Emp. Code.-1140069)	45,000.00		38,500.00	
Dr. E. Mallikarjun, Asst. Prof. (Emp Code-1160086)	-		52,000.00	
Dr. Keshavamurthy B. N., Asst. Prof (1140043)	-		32,500.00	
Dr. Lalat Indu Giri, Asst. Prof. (Emp. Code -1150073)	-		30,000.00	
Dr. Pragati Patel, Asst. Prof.- Emp. No.-1160085	-		36,000.00	
Dr. Pravati Swain, Asst. Prof. (Emp. Code-1140064)	-		10,000.00	
Dr. Ragoju Ravi, Asst. Prof. (Emp. No.-1130024)	15,000.00		70,000.00	
Dr. Shivnarayan Patidar, Asst. Prof. (Emp. No.-1150071)	-		2,84,000.00	
Dr. Sunil Kumar A, Asst. Prof.-Emp. No.-1160087	-		7,700.00	





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Dr. Trilochan Panigrahi, Asst. Prof. (Emp. No.-1140066)	-	-	1,44,000.00	
Dr. Veena Thenkanidiyoor, Asst. Prof. (1130016)	-	-	20,000.00	
Modi Chirag Navinchandra, Asst Prof. (Emp. No. 1140068)	-	-	2,16,000.00	
Mrs. Swara S. Lotlikar, Steno,Emp. Code -4160079	-	-	4,000.00	
Munesh Kumar, AL	-	-	1,66,000.00	
Nithin Kumar Y. B (1130036)	25,000.00	-	95,000.00	
Prasanth P., SO	-	-	2,55,000.00	
Prof. Gopal Mugeraya, Director	-	-	3,37,900.00	
P Saidi Reddy(1130009)	-	-	5,25,500.00	
Purushothama B.R.(1130022)	-	-	2,42,000.00	
Sreeraj E. S., Asst. Prof (Emp. Code -1140041)	-	-	25,000.00	
Suresh Mikkil Asst. Prof.	50,000.00	-	2,44,000.00	
Vasantha M. H Asst Prof. (1130032)	-	-	1,50,000.00	
Velavan Kathirvelu Asst. Prof (1130013)	2,25,000.00	-	2,24,000.00	
Vijeesh VP, Technician (Emp Code-3140049)	-	4,05,000.00	66,000.00	38,25,100.00
<b>Sponsored Project Staff Imprest Advances</b>				
Dr. Keshavamurthy B.N., Assoc. Prof.	-	-	40,000.00	
Dr. Prashanth G.R., Asso. Prof.	-	-	10,000.00	50,000.00
<b>Advance to Supplier/Contractor</b>				
Bruker Singapore Pte. Ltd.	-	-	63,96,399.00	
Ravindra Bhavan Margao	-	-	72,400.00	
The Executive Engineer PWD DIV VIII Margao	2,24,38,824.00	-	4,50,00,000.00	
The Executive Engineer, WD-XVI (BC) PWD, Ponda	-	-	7,92,000.00	
Payu Money-Hostel	2,58,000.00	-	49,59,000.00	
Payu Money-Tution Fees	90,71,719.00	-	1,08,29,627.00	
Madan Sadhale	70,400.00	3,18,38,943.00	4,12,800.00	6,84,62,226.00
<b>Fees/subscription Refunded</b>				
Admission Fee (M Tech)	-	-	3,000.00	
Hostel Rent (B Tech)	-	-	5,033.00	
Hostel Rent (M Tech)	-	-	10,956.00	
M -Tech Other Fees	-	-	6,000.00	
M-Tech Tution Fees	-	-	1,05,000.00	1,29,989.00
Capital Fund	-	2,10,863.00	-	-
<b>TOTAL</b>		<b>29,17,91,349.00</b>		<b>41,92,69,787.00</b>

**Deposits and Advances**

**RP Schedule -18**

	Current Year		Previous Year	
<b>Deposits and Advances Utilised /Refunded</b>				
Alumni Association(NITGAA) (M Tech)	-	-	3,000.00	
CCMT Expenses Advance Received	1,28,623.00	-	4,59,048.00	
CSAB Expenses Advance Received	2,34,400.00	-	4,23,428.00	
DASA Admission Expenses Reimbursement	18,000.00	-	24,000.00	
Group Insurance Scheme	9,00,000.00	-	6,37,884.00	
Group Insurance Scheme (Phd)	1,200.00	-	-	
Group Insurance Scheme (M Tech)	-	-	3,600.00	
Hall Establishment Charges	2,38,046.00	-	8,08,144.00	
Hall Establishment Charges (B Tech)	-	-	10,065.00	
Hall Establishment Charges (M Tech)	-	-	21,914.00	
IIT Delhi - Unnat Bharat Abhiyaan Scheme	-	-	1,52,382.00	
Mess Adv.	-	-	17,254.00	
Mess Adv.(B Tech)	-	-	34,725.00	
Mess Adv. (M Tech)	-	-	75,600.00	
Unit of Science and Educational Development-MHRD	-	-	1,45,000.00	
SAC(Student Activity Centre) Fee (M Tech)	-	-	9,000.00	
Students Fee Receivable	-	-	1,05,540.00	
Student Fees Refundable (M-Tech)	-	-	5,77,800.00	
Students Fee Refundable (B-Tech)	32,57,069.00	47,77,338.00	-	35,08,384.00
<b>Security Deposit Refunded</b>				
<b>Performance Gurantee of Supplier/Contractor</b>				
PG - Best Engineering Aids & Consultancies Pvt. Ltd	51,625.00	-	-	
PG - Chandan Electricals	10,437.00	-	-	
PG Eagle Photonics Pvt. Ltd.	66,066.00	-	-	





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PG Entuple Technologies Pvt. Ltd.	1,29,800.00		-	
PG M.A. Doddamani	10,137.00		21,273.00	
PG Mathworks India Private Limited	68,407.00		-	
PG Prashant R Naik	16,288.00		-	
PG - Schematix	6,757.00		-	
PG Specialise Instruments Marketing Company	39,671.00		-	
PG Star Furniture	-		25,163.00	
PG-Steelraj Steel Furniture - West Bengal.	10,324.00	4,09,512.00	-	46,436.00
<b>Performance Gurantee of Supplier/Contractor of Sponsored Projects</b>				
PG- Amonkar Enterprises	18,050.00		-	
PG - D.B. Solutions	25,842.00		-	
PG - Ecosense Sustainable Solutions Pvt. Ltd.	-		49,875.00	
PG- Jyoti Electronics	22,781.00		-	
PG Prajakt D. Amonkar	30,000.00		-	
PG Sadhale Enterprises	19,037.00	1,15,710.00	-	49,875.00
<b>Security Deposit(Contractor)</b>				
SD Aditya Books Pvt. Ltd.	-		42,000.00	
SD Ahuja Book Co. Pvt. Ltd.	-		42,000.00	
SD Apex Book Services	-		42,000.00	
SD Creative Books	-		42,000.00	
SD Eagle Photonics	-		30,000.00	
SD Entuple Technologies Pvt. Ltd.	1,30,000.00		-	
SD Forevision Instruments India Pvt. Ltd.	-		1,30,000.00	
SD Hotel Sanman	11,000.00		-	
SD - International Book Centre	21,000.00		-	
SD Narendra Publishing House	-		42,000.00	
SD Pragna Microdesign	-		29,492.00	
SD Prajakt Amonkar	-		25,000.00	
SD Prashant R. Naik	11,000.00		-	
SD Schematix	-		6,000.00	
SD Sean Adevent	-		15,000.00	
SD- S.S.Traders	-		20,000.00	
SD Technical Bureau India Pvt. Ltd.	-		42,000.00	
SD - Techniz Books International	21,000.00		-	
SD VSP Books International	-	1,94,000.00	42,000.00	5,49,492.00
<b>Security Deposit(Student)</b>				
B Tech Security Deposit Refundable	2,44,000.00		3,20,000.00	
M-Tech Security Deposit Refundable	96,000.00		1,88,000.00	
PHD Security Deposit Refundable	28,000.00	3,68,000.00	16,000.00	5,24,000.00
<b>TOTAL</b>		<b>58,64,560.00</b>		<b>46,78,187.00</b>

Closing Cash and Bank Balances

RP Schedule -19

	Current Year		Previous Year	
<b>a) Cash in Hand</b>				
Cash		-		190.00
<b>b) Bank Balances</b>				
<b>In Current Accounts</b>				
Corp. Bank Current A/c No.01/000001		-		-
<b>In deposit accounts</b>				
Investment A/c. No. 160058 (CB)-530401087495997		-		6,72,405.00
Investment A/c. No. KCC/01/170012-530401087497108	53,59,295.00		53,59,295.00	
Investment A/c. No. KCC/01/170013-530401087497159	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/01/170016-530401087497140	42,87,436.00		42,87,436.00	
Investment A/c. No. KCC/01/170017-530401087497116	53,59,295.00		53,59,295.00	
Investment A/c No.530401024338896	99,00,000.00		99,00,000.00	
Investment A/c No.530401024338964	99,00,000.00		99,00,000.00	
Investment A/c No.530401024339022	99,00,000.00		99,00,000.00	
Investment A/c No.530401024339107	99,00,000.00		99,00,000.00	
Investment A/c No.-530401024339169	99,00,000.00		99,00,000.00	
Investment A/c No.530401024339282	99,00,000.00		99,00,000.00	
Investment A/c No.530401024339404	99,00,000.00		99,00,000.00	
Investment A/c No.530401024339459	99,00,000.00		99,00,000.00	





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Investment A/c No.-530401024339596	99,00,000.00	99,00,000.00
Investment A/c No.530401024339695	99,00,000.00	99,00,000.00
Investment A/c No.530401024339770	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339824	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339879	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339886	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339961	99,00,000.00	99,00,000.00
Investment A/c No.-530401024339992	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340073	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340097	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340172	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340202	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340271	99,00,000.00	99,00,000.00
Investment A/c No.530401024340288	99,00,000.00	99,00,000.00
Investment A/c No.530401024340318	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340325	99,00,000.00	99,00,000.00
Investment A/c No.530401024340394	99,00,000.00	99,00,000.00
Investment A/c No.530401024340462	99,00,000.00	99,00,000.00
Investment A/c No.530401024340516	99,00,000.00	99,00,000.00
Investment A/c No.530401024340561	99,00,000.00	99,00,000.00
Investment A/c No.530401024340646	99,00,000.00	99,00,000.00
Investment A/c No.530401024340653	99,00,000.00	99,00,000.00
Investment A/c No.530401024340738	99,00,000.00	99,00,000.00
Investment A/c No.530401024340745	99,00,000.00	99,00,000.00
Investment A/c No.530401024340752	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340783	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340790	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340806	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340851	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340875	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340905	99,00,000.00	99,00,000.00
Investment A/c No.-530401024340943	99,00,000.00	99,00,000.00
Investment A/c No.530401024340967	99,00,000.00	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	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.-530401024341469	-	99,00,000.00
Investment A/c No.-530401024341490	-	99,00,000.00
Investment A/c No.-530401024341513	-	99,00,000.00
Investment A/c No.-530401024341537	-	99,00,000.00
Investment A/c No.-530401024341599	-	99,00,000.00
Investment A/c No.-530401024341643	-	99,00,000.00
Investment A/c No.530401024342312-DASA A/c	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. 530401024342527-Hostel Dev. Fund	1,27,600.00	1,27,600.00
Investment A/c No.-530401024342695-Misc. Fines	-	-
Investment A/c No.-530401024342749	7,00,000.00	7,00,000.00
Investment A/c No.-530401024342800-Institute Dev. Fund	7,00,000.00	7,00,000.00
Investment A/c No.-530401024753149	-	62,81,652.00
Investment A/c No.-530401024753965	-	99,00,000.00
Investment A/c No.-530401024754153	-	99,00,000.00
Investment A/c No.-530401024754375	-	99,00,000.00
Investment A/c No.-530401024754528	-	99,00,000.00
Investment Ac. no.-530401087496624	-	3,11,50,150.00
Investment Ac. no.-530401087496632	-	3,17,94,663.00





Investment A/c. No.530101343585581	99,00,000.00		99,00,000.00	
Investment A/c No.-530401034273484	99,00,000.00		99,00,000.00	
Investment A/c No.-530401036091840	90,00,000.00		90,00,000.00	
Investment A/c No.-530401036092069	70,00,000.00		70,00,000.00	
Investment A/c No.-530401036092236	70,00,000.00		70,00,000.00	
Investment A/c No.-530401036092502	40,00,000.00		40,00,000.00	
Investment A/c No.530401041263577	-		1,50,00,000.00	
Investment A/c. No. - 530401041263874	1,50,00,000.00		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.530401041288792	-		1,50,00,000.00	
Investment A/c. No. - 530401041288907	1,50,00,000.00		1,50,00,000.00	
Investment A/c. No. - 530401041308322	1,00,00,000.00		1,00,00,000.00	
Investment A/c. No.-KCC 530401721030914	8,00,000.00		8,00,000.00	
Investment A/c No.-132823030000037	50,00,000.00		-	
Investment A/c No.-132823030000038	90,00,000.00		-	
Investment A/c No.-132823030000039	90,00,000.00		-	
Investment A/c. No.-132823030000040	90,00,000.00		-	
Investment A/c. No.-132823030000041	90,00,000.00		-	
Investment A/c No.-132823030000042	90,00,000.00		-	
Investment A/c. No.-132823030000043	90,00,000.00		-	
Investment A/c. No.-132823030000044	90,00,000.00		-	
Investment A/c No.530401042096051	30,00,000.00		-	
		78,98,44,428.00		92,76,43,298.00
<b>In Saving Accounts</b>				
Corp. Bank CSAB/CCMT A/c No.SB/01/2538-520101026778293	1,50,020.30		35,684.00	
Corp. Bank Growth Fund A/c No.SB/1935-520101026774646	69,69,350.26		6,12,079.08	
Corp. Bank Hostel A/c No.SB/01/1250-520101026768530	7,63,058.41		45,75,638.01	
Corp. Bank Mis. A/c No.SB/01/1915-520101026774476	1,08,150.58		7,111.28	
Corp. Bank -NITGOARC-SB/01/4333-520101026782665	17,286.30		16,822.00	
Corp. Bank NIT Plan A/c No.SB/000653-520101026763067	81,93,213.86		24,83,551.64	
Corp. Bank NIT Plan A/c No.SB/01/4363-520101026782843	50,802.30		27,245.00	
Corp Bank SB - Director NIT GOA Fees A/c No.520101253886322	1,33,20,279.21		63,53,675.44	
Corp. Bank NIT Plan A/c No.SB/01/4284-520101026782460	2,39,207.30		1,25,542.00	
Corporation Bank - NIT Goa Projects Overhead PDA SB A/c. No. -520101252614922	5,303.00		5,154.00	
Corporation Bank SB/01/003573-520101026780557	1,89,66,917.17	4,87,83,588.69	2,96,05,287.92	4,38,47,790.37
<b>TOTAL</b>		<b>83,86,28,016.69</b>		<b>97,14,91,278.37</b>





## NATIONAL INSTITUTE OF TECHNOLOGY GOA

## NPS TIER- I ACCOUNT

## BALANCE SHEET AS AT MARCH 31ST, MARCH, 2021

Previous Year	Liabilities		Current Year		Previous Year	Assets	Amount in Rupees
	NPS Tier -I Account						
10,84,880.00	Opening Balance		14,99,547.00		14,99,547.00	Subscription and Contribution due for Mar 2020	17,35,801.00
10,84,880.00	Less: Subscription for March 2020		13,74,727.00		-	Investment	-
-			1,24,820.00		-	Interest Accrued but not due	-
1,43,40,077.00	Add: Subscriptions in the year		1,57,10,045.00		-	Balance at Bank	-
-	Add: Interest Credited		-		-		
1,42,53,951.00	Less: Transfer to NSDL		1,55,55,542.00		-		
14,13,421.00	Add: Subscription for March 2021		14,56,478.00	17,35,801.00	-		
14,99,547.00					-		
-	Excess of Income over Expenditure				-		
-	Balance as on 01.04.2020				-		
-	Add: During the year				-		
<b>14,99,547.00</b>	<b>TOTAL</b>		<b>17,35,801.00</b>	<b>17,35,801.00</b>	<b>14,99,547.00</b>	<b>TOTAL</b>	<b>17,35,801.00</b>

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

FRN: 127641W



CA ARCHANA KENKARE  
PARTNER  
MEM NO. 047463

DIRECTOR

Director

National Institute of Technology Goa  
Farmagudi, Ponda-Goa 403 401

PLACE: PONDA, GOA

DATE: 01-10-2021





NATIONAL INSTITUTE OF TECHNOLOGY GOA

NPS TIER-I ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST, MARCH, 2021

Previous Year	Expenditure	Current Year	Previous Year	Amount in Rupees	
				Income	Current Year
-	Interest Credited to Subscriber's Accounts	-	-	Interest earned on Investment	-
-	Bank Charges	-	-	Less: Interest accrued on 31/03/2020	-
-	Excess of Income over Expenditure	-	-	Interest Accrued but not due	-
-	<b>Total</b>	-	-	<b>Total</b>	-

FOR AND ON BEHALF OF THE BOARD

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

FRN: 127641W

**DIRECTOR**

Director  
National Institute of Technology Goa  
Farmagudi, Ponda-Goa 403 401



CA ARCHANA KENKARE  
PARTNER

MEM NO. 047463

PLACE: PONDA, GOA  
DATE: 01-10-2021



**NATIONAL INSTITUTE OF TECHNOLOGY GOA**

**NPS TIER- I ACCOUNT**

**RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2020-21**

<b>Receipts</b>	<b>Amount</b>	<b>Payments</b>	<b>Amount</b>
Opening Balance as on 01/04/2020	14,99,547.00	Investment	-
<b><u>NPS Tier-1 Account</u></b>		Withdrawal/Refund to NSDL	1,69,30,269.00
Own Subscription	71,52,732.00		
Institute Contribution (14% from 01/04/2020)	1,00,13,791.00	Closing Balance as on 31/03/2021	17,35,801.00
Interest Received on Investment	-		
Interest on saving bank a/c	-		
Investment Encashed	-		
<b>Total</b>	<b>1,86,66,070.00</b>	<b>Total</b>	<b>1,86,66,070.00</b>

**FOR AND ON BEHALF OF THE BOARD**

**IN TERMS OF OUR INTERNAL AUDIT REPORT**

**FOR R.K PIKALE AND ASSOCIATES**

**FRN: 127641W**

**DIRECTOR**

Director  
National Institute of Technology Goa  
Farmagudi, Ponda-Goa 403 401



*(Signature)*

**CA ARCHANA KENKARE**  
**PARTNER**

**MEM NO. 047463**

**PLACE: PONDA, GOA**

**DATE: 01-10-2021**





***Separate Audit Report  
2020-2021***

**K. P. YADAW**

Director General of Audit (Central)

INDIAN AUDIT & ACCOUNTS DEPARTMENT  
 महानिदेशक लेखापरीक्षा, (केन्द्रीय), मुंबई - 400 051.  
 C-25, Audit Bhavan, Bandra-Kurla Complex,  
 Bandra (East), Mumbai - 400 051.  
 Tel. : (O) 2567 2578 • Fax No.: 2657 2451  
 E-mail : pdacentralmumbai@cag.gov.in

D.O. No. DGA(C)/C & AB/SAR/NIT Goa/2020-  
 21 / 2022-23 / 287 / 286  
 Date : 24 June 2022

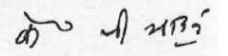
Dear Sir,

I have audited the annual accounts of the National Institute of Technology, Goa for the year 2020-21 and have issued the Audit Report on 24.06.2022.

2. During the course of audit, the following deficiency which has not been included in the Audit Report is brought to your notice for corrective and remedial action:

“The Internal Control System needs to be strengthened in view of the final utilization certificate sent to the Ministry prior to audit and attaching the provisional Utilization Certificate to the annual accounts.”

Yours sincerely,

  
 (K.P.Yadaw)

Shri Gopal Mugeraya,  
 Director,  
 National Institute of Technology, Goa  
 At Goa College of Engineering Campus,  
 Farmagudi, Ponda-Goa, 403401.



भारतीय लेखा परीक्षा और लेखा विभाग  
महानिदेशक लेखा परीक्षा (केंद्रीय) का कार्यालय  
सी-25, लेखा परीक्षा भवन, आयकर भवन के पीछे,  
बांद्रा कुर्ला कॉम्प्लेक्स, बांद्रा (पूर्व), मुंबई - 400051.  
टेली/ (EPBX) (022)-26572907 फैक्स/ 26572451

क्र. म.नि.ले.प.(के.)/ना.एवं.स्वा.नि./एस. ए.आर. /2020-21/NIT Goa/2022-23/

दिनांक:-23.06.2022

सेवा में,  
सचिव, भारत सरकार  
मानव संसाधन विकास मंत्रालय,  
उच्च शिक्षा विभाग, शास्त्री भवन,  
नई दिल्ली - 110001.

विषय- वर्ष 2020-21 के लिए राष्ट्रीय प्रौद्योगिकी संस्थान, गोवा के लेखों पर प्रथक लेखापरीक्षा प्रतिवेदन।

महोदय,

31 मार्च 2021 को समाप्त वर्ष के लिए राष्ट्रीय प्रौद्योगिकी संस्थान, गोवा के लेखों पर प्रथक लेखापरीक्षा प्रतिवेदन निम्नलिखित दस्तावेजों के साथ संसद के दोनों सदनों की पटल पर प्रस्तुत करने हेतु अग्रेषित किया जा रहा है।

- वर्ष 2020-21 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 अग्रेषित की जाए।

कृपया पत्र की प्राप्ति की सूचना दे।

यह पत्र महानिदेशक ऑडिट (केंद्रीय) मुंबई के अनुमोदन के साथ जारी किया जा रहा है।

संलग्नक: यथोपरि

भवदीय,

-Sd-

उपनिदेशक/ना.एवं.स्वा.नि.

क्र. म.नि.ले.प.(के.)/ना.एवं.स्वा.नि./एस. ए.आर. /2020-21/NIT Goa/2022-23/ 286

दिनांक:-23.06.2022

सेवा में,  
निदेशक,  
राष्ट्रीय प्रौद्योगिकी संस्थान गोवा ( NIT Goa)  
गोवा कॉलेज ऑफ इंजीनियरिंग कैम्पस,  
फार्मगुडी, पांडा, गोवा - 403401.

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

यह पत्र महानिदेशक ऑडिट मुंबई के अनुमोदन के साथ जारी किया जा रहा है। (केंद्रीय)

भवदीय,



उपनिदेशक/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 2021.**

We have audited the attached Balance Sheet of the National Institute of Technology Goa, ('the institute') as at 31<sup>st</sup> March 2021 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, evidences 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 Human Resource Development, 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 of the NIT statutes in so far it appears from our examination of such books.
- iv. We further report that:



3. There was a difference between accounts and audit figures of unspent grants in the previous year of ₹ 2.12 crore, which was not reconciled in the current year. Similarly, there was a difference of ₹ 1.18 crore in the current year also. Therefore, the difference of ₹ 3.30 crore needs to be reconciled.

#### **C. Grants-in-aid**

The Institute received revenue grants of ₹20.14 crore. The audited figure of opening balance of unspent grant of previous year was ₹91.77 crore. The Institute utilized ₹38.05 crore (Capital:19.10 crore+ Revenue:₹ 18.95 crore) leaving an unspent grant of ₹75.83 crore as on 31.03.2021 including ₹39.87 crore towards advances and interest on grants of ₹ 1.97 crore. The Institute generated an internal revenue of ₹ 7.40 crore.

The difference in unspent grants in opening as well as closing balances was, owing to the provision for retirement benefits not considered as grant **utilisation** by audit.

#### **D. Management Letter**

Deficiencies which have not been included in the Audit Report have been brought to the notice of the Institute through a management letter issued separately for remedial/ corrective action.



v. 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 National Institute of Technology, Goa as at 31<sup>st</sup> March 2021; and
- (b) In so far as it relates to the Income & Expenditure Account, of the surplus for the year ended on that date.

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

**Director General of Audit (Central), Mumbai**

**Mumbai  
23.06.2022.**



Annexure

1	<p><b>Adequacy of Internal Audit System</b> The Institute has neither constituted its internal audit wing nor prepared internal audit manual.</p> <p>The Institute, however, got its accounts audited by a Chartered Accountant firm during the year.</p>
2	<p><b>Adequacy of Internal Control System</b> The Internal Control System needs to be strengthened in view of the following:</p> <ul style="list-style-type: none"> <li>• Final utilization certificate sent to the ministry prior to audit instead of <b>provisional</b></li> <li>• Non-adherence to the prescribed format in treating the Provision for retirement benefits as part of grant utilization.</li> <li>• Non-reconciliation of advances given to CPWD/PWD with effect from 2017-18</li> <li>• Non-reconciliation of the grants figures as per account and audit.</li> <li>• As per the statutes under the NIT Act 2007, the meetings of BOG, Finance Committee, Senate and Building Works Committee have to be conducted at least 4 times during every financial year. During 2020-21 the BOG and SFC has met only twice, whereas the Building and works committee has not met even once. Further, Chairman of the BOG has not been appointed since the year 2016.</li> </ul>
3	<p><b>System of Physical verification of fixed assets.</b> Physical verification of fixed assets was conducted during the year 2020-21.</p>
4	<p><b>System of Physical verification of Inventory</b> The Institute does not have any Inventory.</p>
5	<p><b>Regularity in payment of statutory dues.</b> The Institute is regular in payment of statutory dues.</p>

*(Handwritten signature)*

Director General of Audit (Central), Mumbai





## Proforma on Progress of Audit

Name of the Autonomous Body		National Institute of Technology, Goa (FY 2020-21)
1	Date of submission of the accounts to the Audit by the Autonomous Body	01.02.2022 (Approved)*
2	Where applicable, reasons for returning the accounts for revision indicating why Draft Audit Report the accounts could not be certified with	-----
3	Date of submission of revised accounts essential	-----
4	Date on which audit was taken up and completed	07.03.2022 to 23.03.2022
5	Date of issue of draft SAR to Autonomous Body for replies / comments	22.04.2022
6	Date of receipt of replies/ comments from Autonomous Body (if received)	05.05.2022
7	Date of issue of draft SAR including replies/ comments of Autonomous Body along with an Aide-memoire to CAG's office for approval	10.06.2022
8	(a) Date of CAG's office letter Communicating clarification in SAR. (b) Date of receipt of letter at 8(a). (c) Date of re-submission to C&AG for approval of SAR	17.06.2022
9	Date of issue of final Audit Report to Govt. of India/State Govt./CAG's office English version- Hindi version (if required) –	23.06.2022
10	Reasons for delay, if any, at various stages	Due to shortage of man-power, immediate deployment of party to field audit was not possible
11	Dates of presentation of the previous Audit Reports before Parliament/Legislature.  (Where the Audit Report for previous year have not been placed, years to which these pertain, may also be indicated.)	2019-20 L.S : 13.12.2021 R.S: 15.12.2021

\*Ratified in the 35<sup>th</sup> BoG meeting held on 02.05.2022 vide item no.35.7

Place : Mumbai,  
Date : 23.06.2022

Director General of Audit (C)