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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 30 students in each branch and the scheme of Direct Admission of Students Abroad (DASA). Forty percent of the seats are reserved for the students of Goa, Ten percent 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 is 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
  - v) Mechanical Engineering
- Other department are of :
  - Applied Sciences
    - Mathematics (MA)
    - Physics (PY)
    - Chemistry (CY)
  - Humanities & Sciences (HS)
    - Economics (HS)
    - English (HS)



- The programme structure consists of the following:
  - i) A general (common) core programme comprising of basic sciences, engineering sciences, humanities and technical arts;
  - ii) An engineering core programme introducing the student to the foundations of engineering in the respective branch;
  - iii) An elective programme enabling the student to opt and undergo a set of courses of interest;
  - iv) Professional practice including project, seminar and industrial training/internship and,
  - v) 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;
  - i) If he/she has cleared all dues in the Institute, Hostel and Library upto the end of the previous semester and
  - ii) 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.
  - i) Master of Technology in “Computer Science and Engineering” (M.Tech. (CSE)) by the Department of Computer Science and Engineering (CSE)
  - ii) Master of Technology in “VLSI” (M.Tech. (VLSI)) by the Department of Electronics and Communication Engineering (ECE).
  - iii) Master of Technology in “Power Electronics and Power Systems”(M. Tech. (PEPS))by the Department of Electrical and Electronics Engineering (EEE)Other teaching 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” introducing the student to the state of the art in engineering in the respective branch.
  - ii) A “Programme Elective” enabling the student to opt and undergo a set of specialized courses;
  - iii) A “Professional practice” which 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 1): 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 in each of the categories are specified in Table 1, which has to be earned by students for the award of M.Tech. degree.

Every course of the M. Tech. programme will be placed in one of the 4 categories as listed in Table.1.

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.

### Campus Photograph

### 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 and M. 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	30	2019 -2020
Electrical and Electronics Engineering	30	2019 -2020
Electronics and Communication Engineering	30	2019 -2020
Mechanical Engineering	30	2019 -2020
Civil Engineering	30	2019 -2020

### Postgraduate Courses (M. Tech):

Branch	Current Year Intake	Year Started in
Computer Science and Engineering	18+2	2019 -2020



Power Electronics and Power Systems (PEPS)	18+2	2019 -2020
VLSI	18+2	2019 -2020

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

Branch	Current Year Intake	Year Started in
Computer Science and Engineering	06	2019 -2020
Electrical and Electronics Engineering.	04	2019 -2020
Electronics and Communication Engineering	08	2019 -2020
Humanities and Sciences	04	2019 -2020

## 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 2019-20**

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	27	05	32
2.	EEE	26	05	31
3.	ECE	27	04	28
4.	Mechanical	23	05	28
5.	Civil	24	05	29
	<b>Total</b>	<b>127</b>	<b>24</b>	<b>151</b>

- **Students admitted under DASA Scheme**

Five students were admitted into first year B. Tech Courses during 2019-20.

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

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	11	02	13
2.	EEE	08	05	13
3.	ECE	14	02	16
	<b>Total</b>	<b>33</b>	<b>09</b>	<b>42</b>



- Number of Candidates admitted into first year P.h.D during 2019-20

Sl. No.	Branch	Boys	Girls	Total
1.	CSE	03	03	06
2.	EEE	03	01	04
3.	ECE	06	02	07
4.	HS	03	01	04
	<b>Total</b>	<b>15</b>	<b>07</b>	<b>22</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 years' 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. Veena Thenkanidiyoor	Associate Professor
2	Dr. Keshavamurthy B. N	Associate Professor
3	Dr. Damodar Reddy Edla	Assistant Professor
4	Dr. Purushothama B.R.	Assistant 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	Helga V Lobo	Faculty on Contract

##### CSE Lab Photographs

##### Department of Electrical and Electronics Engineering

Sr No	Name	Designation
1	Dr. B. Venugopal Reddy	Associate Professor
2	Dr. Amol Deodas Rahulkar	Associate Professor
3	Dr. C. Vyjayanthi	Associate Professor
4	Dr. Suresh Mikkili	Assistant Professor
5	Dr. Sree Raj E.S	Assistant Professor
6	Dr. Soumitra Das	Assistant Professor
7	Ms. B. Santhi	Faculty on Contract
8	Anudevi Samuel	Faculty on Contract
9	Sarath Babu	Faculty on Contract
10	Rohit Sadashiv Yadavade	Faculty on Contract



## EEE Lab Photographs

**Department of Electronics and Communication Engineering**

Sl No	Name	Designation
1	Dr. Lalit Kumar Jiwani	Associate Professor
2	Dr. Vasantha M. H. Rao	Associate Professor
3	Dr. T. Veerakumar	Associate Professor
4	Dr. Prashanth G. R.	Associate Professor
5	Dr. Anirban Chatterjee	Assistant Professor
6	Dr. Nithin Kumar Y. B	Assistant Professor
7	Dr. Trilochan Panigrahi	Associate Professor
8	Dr. Shivnarayan Patidar	Assistant Professor
9	Dr. Lalat Indu Giri	Assistant Professor
10	Dr. Pragati Patel	Assistant Professor
11	Dr. E. Mallikarjun	Assistant Professor
12	Ramnath Kini	Faculty on Contract

## ECE Lab Photographs

**Department of Humanities and 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	Assistant Professor
5	Dr. Ravi Prasad K. J	Assistant Professor



6	Dr. Shangerganesh L.	Assistant Professor
7	Dr. Sunil Kumar A	Assistant Professor
8	Ritu Jangid	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. Manjunath S Koparde	Technical Asst.
10.	Mr. Vijeesh V P	Technical Asst.
11.	Ms. Suvida Bipeen Madkaiker	Technical Asst.
12.	Mr. Patitapaban Pradhan	Technical Asst.
13.	Mr. Pinaki Chatterjee	Technical Asst.
14.	Mr. Digambar Ramchandra Dhengole	Technician
15.	Mr. Srinath Revoori	Technician
16.	Mr. Nijin M.	Technician
17.	Mr. Carlton Ignatius Sequeira	Technician
18.	Mr. Rohit Madhu Gawas	Technician
19.	Mr. Shri Ram Kumawat	Technician
20.	Ms. Swara S. Lotliker	Stenographer
21.	Ms. Sweta S. Jadhav	Junior Asst
22.	Ms. Namrata Prajesh Sawant	Junior Asst
23.	Mr. Karthikeyan M.	Junior Asst
24.	Ms. Tallulah Rodrigues	Junior Asst
25.	Mr. Amit Ajit Naik	Junior Asst
26.	Mr. Anilkumar Shersinh Mistri	Junior Asst
27.	Mr. Kanneboina RajKumar	Multi- Tasking
28.	Mr. Arjun Singh	Multi- Tasking
29.	Mr. Pritam Nageshkar	Multi- Tasking
30.	Mr. Sandeep Jaishwar	Multi- Tasking
31.	Ms. Dipti Gaude	Multi- Tasking



32.	Ms. Asmita Ashok als.Prabhakar Naik	Multi- Tasking
33.	Dr. Mamata Borkar	Medical Officer on Contract
34.	Dr. Nabin Kumar Kole	OSD on Contract
35.	Mr. B. V Raghu	Security & Housekeeping In charge on Contract

Non-Teaching Photograph

#### 4.0 ACADEMIC PROGRAMMES

##### 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
2017-2018	124	24	151	22	02	24	10	01	11	37	09	46	54	11	65	04	01	05

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

##### 4.2 Total number of Students in 2019-20

Under Graduate Students: 383

##### 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
2016 - 2017	33	9	42	10	01	11	2	0	2	15	5	20	6	3	9	0	0	0

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

Total number of Students in 2019-20

Postgraduate Graduate Students: 83





### 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
2017-2018	15	07	22	01	00	01	00	00	00	05	00	05	09	07	16	0	0	0

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

Total number of Students in 2019-20 Ph.D. Students: 72

### 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
Shri Sukhbir Singh Sandhu Addnl Secretary (TE) & CVO, MHRD, Govt. of India	:	Member (Nominated by Central Govt.)
Smt. Darshana M Dabral Financial Advisor, Dept of Higher Education, MHRD, Govt of India	:	Member (Nominated by Central Govt.)
Prof. V.M Gadre Professor, IIT Bombay	:	Member (Nominated Director IIT Bombay)
Mr. Sundeep Vasant Bambolkar MD, Indoco Pvt Ltd Mumbai	:	Member (Nominated by State Chief Secretary)
Dr. Venkatesh Ganesh Prabhu Desai Chairman, Chandranath Education Society, Assolda, Quepm, Goa	:	Member (Nominated by State Chief Secretary)



Ms. Jyothi Vijay Executive Director & Chief Corporate Relations BSBS Business Academy A Unit of BSBS Knowledge Ventures Pvt. Ltd, Bangalore	:	Member (Nominated by NIT Council)
Dr. C. Vyjayanthi Associate Professor Department of Electrical & Electronics Engineering, NIT Goa	:	Member (Nominated by Senate NIT Goa)
Dr. P Saidi Reddy Associate Professor Department of Department of Applied Sciences, NIT Goa	:	Member (Nominated by Senate NIT Goa)
Dr. Vasantha M.H Registrar (I/C), NIT Goa	:	Secretary

## 5.2 Finance Committee

Prof. Gopal Mugeraya Director, National Institute of Technology Goa	:	Chairman & Ex-Officio Member
Shri Sukhbir Singh Sandhu Addnl Secretary (TE) & CVO, MHRD, Govt. of India	:	Member (Nominated by MHRD)
Smt. Darshana M Dabral Financial Advisor, Dept of Higher Education, MHRD, Govt of India	:	Member (Nominated by MHRD)
Dr. C. Vyjayanthi Associate Professor Department of Electrical & Electronics Engineering, NIT Goa	:	Member (Nominated by Board, NIT Goa)
Dr. Vasantha M.H Registrar i/c & Associate Professor Department of Electronics & Communication NIT Goa	:	Ex-Officio, Member Secretary



### 5.3 Senate

Prof. Gopal Mugeraya [Director, NIT Goa]	Chairman
Dr. Veena Thenkanidiyoor, Dean Academics Associate Professor, NIT Goa	Member
Dr. Nithin Kumar Y.B., Assistant Professor, NIT Goa [HoD, ECE]	Member
Dr. Amol D. Rahulkar Associate Professor, NIT Goa [HoD, EEE]	Member
Dr. Ragoju Ravi, Assistant Professor, NIT Goa [HoD, HSS]	Member
Dr. Keshavamurthy B.N., Associate Professor, NIT Goa [HoD, CSE]	Member
Prof. Rajat Gupta Professor, Dept. of Mechanical Engineering, National Institute of Technology Silchar, Silchar Dist.-Cachar, State- Assam, Pin - 788010	External Member
Mrs. Jyoti Vijay Executive Director & Chief Corporate Relations, BSBS Business Academy, A Unit of BSBS Knowledge Ventures Pvt. Ltd, Bangalore	External Member
Prof. Airody Vasudeva Adhikari Professor, Dept. of Chemistry, National Institute of Technology Karnataka	External Member
Dr. Vasantha M.H. Registrar (I/C)	Secretary
Dr. P. Saidi Reddy Dean (FW) & Associate Professor, Dept. of Applied Sciences	Member
Dr. B. Venugopal Reddy Dean (R&C) & Associate Professor, Dept. of EEE	Member
Dr. Velavan Kathirvelu Dean (SW) & Assistant Professor, Dept. of HS	Member



Dr. Sarani Ghosal Mondal  
Dean (IR&AA) & Associate Professor, Dept. of SS

Member

Dr. Purushothama B.R  
Dean (P&D) & Assistant Professor, Dept. of CSE

Member

#### 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.)

Shri Vinoy Bharne  
State PWD (Electrical)

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  
Registrar I/C NIT GOA

Ex-Officio, Member Secretary

## 6.0 CONCESSIONS FOR SCs, STs and HANDICAPPED 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 ½ % 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:

Sr No.	Publication details	Faculty Member	Department
1	<p>[1] Annushree B, Damodar Reddy Edla, Diwakar T and Ramalingaswamy C., Survey on Brain Computer Interface: An Emerging Computational Intelligence Paradigm, ACM Computing Surveys, 2018. (Accepted).</p> <p>[2] Simi VR and Damodar Reddy Edla, Adaptive Shrinkage on Dual-Tree Complex Wavelet Transform for Denoising Real-time MR Images, Biocybernetics and Biomedical Engineering, (Elsevier, SCI Indexed) 2018.Accepted.</p> <p>[3] Neha T, Damodar Reddy Edla, Shubham Dodia, Annushree B, Brain Computer Interface: A Comprehensive Survey, Biologically Inspired Cognitive Architectures, (Elsevier, SCI Indexed), 2018. (Accepted).</p> <p>[4] Simi VR and Damodar Reddy Edla, A Fuzzy Sharpness Metric for Magnetic Resonance Images, Journal of Computational Science, (Elsevier, SCI Indexed) 2018. Accepted.</p>	Dr. Damodar Reddy Edla	CSE



	<p>[5] Mainak Biswas, Venkatanareshbabu K, Luca Saba, Damodar Reddy Edla, Harman S. Suri, Mira Loma, Roseville, Aditya Sharma, Elisa Cuadrado-Godia, John R. Laird, Andrew Nicolaides, Jasjit S. Suri, Deep Learning Fully Convolution Network for Lumen Characterization in Diabetic Patients using Carotid Ultrasound: A tool for Stroke Risk, Medical &amp; Biological Engineering &amp; Computing, (Springer, SCI Indexed) 2018. Accepted.</p> <p>[6] Venkatanareshbabu, Mainak Biswas, Damodar Reddy Edla, Ravi Prasad K.J and Jasjit S. Suri, A Mechanics-based Similarity Measure for Text Classification in Machine Learning Paradigm, IEEE Transactions on Emerging Topics in Computational Intelligence, 2018.</p> <p>[7] Shubham Dodia, Damodar Reddy Edla, Annushree B, D Ramesh, Venkatanareshbabu K, An efficient EEG based deceit identification test using wavelet packet transform and linear discriminant analysis, Journal of Neuroscience Methods, Elsevier, 314(2019), 31-40.</p> <p>[8] Luca Saba, Mainak Biswas, Venkatanareshbabu K, Elisa C. Godia, Harman S. Suri, Damodar Reddy Edla et al., The present and future of deep learning in radiology, European Journal of Radiology, Elsevier (SCI Indexed), 114 (2019), 14-24.</p> <p>[9] Md Fahim Ansari, Damodar Reddy Edla * , Shubham D, Venkatanareshbabu K, Brain-Computer Interface for wheelchair control operations: An approach based on Fast Fourier Transform and On-Line Sequential Extreme Learning Machine, Clinical Epidemiology and Global Health, Elsevier 2018.</p> <p>[10] Kannadasan K, Damodar Reddy Edla, Venkatanareshbabu K, Type 2 Diabetes Data Classification using Stacked Autoencoders in Deep Neural Networks, Clinical Epidemiology and Global Health, Elsevier 2018.</p>		
2	Mainak Biswas, Venkatanareshbabu K, Luca Saba, Damodar Reddy Edla, Harman S. Suri, Elisa Cuadrado-Godia, John R. Laird, Rui Tato Marinho, J. M. Sanches, Andrew Nicolaides, Jasjit S. Suri, State-of-the-Art		



	<p>Review on Deep Learning in Medical Imaging, Frontiers in Bioscience, SCI Indexed, 2018. Accepted. (Springer)</p> <p>[2] Ansari, M.F., Edla, D.R., Dodia, S. and Kuppili, V., 2018. Brain-Computer Interface for wheelchair control operations: An approach based on Fast Fourier Transform and On-Line Sequential Extreme Learning Machine. Clinical Epidemiology and Global Health.(Elsevier)</p> <p>[3] Kannadasan, K., Edla, D.R. and Kuppili, V., 2018. Type 2 diabetes data classification using stacked autoencoders in deep neural networks. Clinical Epidemiology and Global Health.</p> <p>[4] Dodia, S., Edla, D.R., Bablani, A., Ramesh, D. and Kuppili, V., 2019. An efficient EEG based deceit identification test using wavelet packet transform and linear discriminant analysis. Journal of neuroscience methods, 314, pp.31-40.</p> <p>[5] Shraddha M, Ravi Prasad K. Jagannath, Venkatanaresh Babu Kuppili, "Iterative Minimal Residual Method Provides Optimal Regularization Parameter for Extreme Learning Machines" Results in Physics.(2019)</p> <p>[6] Diwakar, Damodar, Ramalinga Swamy, Venkatanaresh babu K "A Novel Hybrid Credit Scoring Model based on Ensemble Feature Selection and Multi-layer Ensemble Classification" Computational Intelligence, Wiley(Accepted)</p> <p>[7] Mainak Biswas; Venkatanareshbabu Kuppili; Elisa Cuadrado-Godia; Harman S Suri; Damodar R Edla; Tomaž Omerzu; John R Laird; Narendra N Khanna; Sophie Mavrogeni; George D Kitas; Andrew Nicolaidis; Ajay Gupta; Jasjit S Suri" The Present and Future of Deep Learning in Radiology", 2019 European Journal of Radiology (Accepted)</p>	Dr. Venkatanareshbabu Kuppili	CSE
3	<p>1. R. Patil, and C. Modi, "An Exhaustive Survey on Security Concerns and Solutions at Different Components of Virtualization" at ACM Computing Surveys, Vol. 52, No. 1, pp. 1-38, 2019.</p> <p>2. R. Patil and C. Modi, "Designing an efficient framework for vulnerability assessment and patching (VAP) in virtual environment of cloud computing," The Journal of Supercomputing, Springer, US, 2018.</p>	Dr. Chirag Modi	CSE

	3. C. Modi and D. Patel, "A feasible approach to intrusion detection in virtual network layer of Cloud computing," Sadhana-Academy Proceedings in Engineering Sciences, Springer, 2018.		
4	Sapre, S., Mini, S.: Opposition based moth flame optimization with cauchy mutation and evolutionary boundary constraint handling for global optimization. Soft Computing (Springer). (2018)	Dr. S. Mini	CSE
5	<ol style="list-style-type: none"> <li>1. Manjunath Matam, Venugopal Reddy Barry, "Variable size Dynamic PV array for small and various DC loads", Solar Energy, Elsevier Journal, Vol.163, pp. 581-590, March 2018.</li> <li>2. Manjunath Matam, Venugopal Reddy Barry, "Improved performance of dynamic photovoltaic array under repeating shade conditions", Energy Conversion and Management, Elsevier Journal, Vol. 168, 15 July 2018, pp. 639-650, July 2018.</li> <li>3. M. Manjunath, Venugopal Reddy Barry, and Avinash Reddy G, "Optimized reconfigurable pv array based photovoltaic water-pumping system", Solar Energy, Elsevier Journal, Vol. 170, pp. 1063-1073, Aug. 2018.</li> <li>4. Manjunath Matam, Barry Venugopal Reddy, Brad Lehman, "Performance improvement of dynamic PV array under partial shade conditions using M2 algorithm" IET Renewable Power Generation, Online ISSN 1752-1424, Feb 2019.</li> </ol>	Dr. Venugopal Reddy	EEE
6	<ol style="list-style-type: none"> <li>1. Suneel Raju Pendem and Suresh Mikkili, "Modelling, Simulation and Performance Analysis of Solar PV Array Configurations (Series, Series-Parallel and Honey-Comb) to Extract Maximum Power under Partial Shading Conditions", Energy Reports - Elsevier, Volume 04, pp. 274-287, 2018</li> <li>2. Suneel Raju Pendem and Suresh Mikkili, "Modeling, simulation, and performance analysis of PV array configurations (Series, Series-Parallel, Bridge-Linked, and Honey-Comb) to harvest maximum power under various PSCs" International journal of green energy, Volume 15, No. 13, pp.795-812, 2018.</li> <li>3. SURESH MIKKILI and BESTA UMAMAHESWARAIAH, "A Zig-zag Transformer based Hybrid Power Filter with Cascaded Three level Multilevel Inverter to Enhance Power Quality in Three-Phase Four-wire Distribution Power System", Journal of Electrical Engineering, Vol. 18, pp. 264- 275, 2018.</li> </ol>	Dr. Suresh Mikkili	EEE



	4. Suneel Raju Pendem and Suresh Mikkili, "Modelling and performance assessment of PV array topologies under partial shading conditions to mitigate the mismatching power losses", Solar Energy - Elsevier, Volume 160, pp.303-321, 2018		
7	1. Soumitra Das, V S S Pavan Kumar Hari, Arun Kumar and G Narayanan, "Analysis of generalized continual-clamp and split-clamp PWM schemes for induction motor drive," Sadhana, Indian Academy of Sciences., vol. 44, no. 2, pp. 36, Feb. 2019	Dr. Soumitra Das	EEE
8	Santosh Randive, Amol Rahulkar and Ranjan Senapati, "LVP extraction and triplet-based segmentation for diabetic retinopathy recognition", Evolutionary intelligence, Special issue, Springer, Vol. 2, issue 11, pp.1-13, July 2018. Pranose J. Edavoor and Amol D. Rahulkar, "Design and Implementation of A Novel Low Complexity Symmetric Orthogonal Wavelet Filter-Bank", IET Image Processing, Vol.13, Issue 5, pp 785-793, April 2019 Amita Shinde, Amol D. Rahulkar and C. Y. Patil, "Biomedical Image Indexing and Retrieval based on New Efficient Hybrid Approach using Directional Decomposition and a Novel Local Directional Frequency Encoded Pattern: A Post Feature Descriptor", (Accepted for publication), Multimedia Tools and Applications, Springer, April 2019.	Dr. Amol Rahulkar	EEE
9	B. Naresh Kumar Reddy, Vasantha.M.H. and Nithin Kumar Y.B., "An Energy- Efficient Fault-Aware Core Mapping in Mesh-based Network on Chip Systems," Journal of Network and Computer Applications, Vol. 105, pp. 79-87, 2018.	Dr. Nithin Kumar Y.B	ECE
10	1. Shree Prasad M, and T. Panigrahi, "Distributed Maximum Likelihood DOA Estimation Algorithm for Correlated Signals in Wireless Sensor Network," in Wireless Personal Communications, Springer, 2019, in press, <a href="https://doi.org/10.1007/s11277-019-06158-8">https://doi.org/10.1007/s11277-019-06158-8</a> . 2. Meera Dash, T. Panigrahi, R. Sharma, "Robust Estimation of IIR System's Parameter using Modified Particle Swarm Optimization Algorithm," International Journal of Computational Intelligence Studies, Inderscience, Vol. 8, Nos. 1/2, 2019.	Dr. Trilochan Panigrahi	ECE



11	A. Chatterjee, T. Mondal, Deven G. Patanvariya, and Ravi Prasad K. Jagannath, "Fractal-based design and fabrication of low-sidelobe antenna array," AEU - International Journal of Electronics and Communications, vol. 83, pp. 549-557, 2018, ISSN 1434-8411 Modi,	Dr. Anirban Chatterjee	ECE
12	<ol style="list-style-type: none"> <li>1. T. Veerakumar, BN Subudhi, S. Esakkirajan, PK Pradhan, "Iterative Adaptive Unsymmetric Trimmed Shock Filter for High-Density Salt-and-Pepper Noise Removal", Circuits Systems and Signal Processing (Springer), 2018. (accepted)</li> <li>2. DK Rout, BN Subudhi, T. Veerakumar, S. Chaudhury, "Spatio-contextual Gaussian mixture model for local change detection in underwater video", Experts Systems With Applications, Vol. 97, PP. 117-136, 2018.</li> <li>3. C. Vimalraj, S. Esakkirajan, T. Veerakumar, P. Sreevidya, "Despeckling of ultrasound images using directionally decimated wavelet packets with adaptive clustering", IET Image Processing, Vol. 13, pp. 206-215, 2018.</li> <li>4. BN Subudhi, T. Veerakumar, S. Esakkirajan, A. Ghosh, "Context Dependent Fuzzy Associated Statistical Model for Intensity Inhomogeneity Correction from Magnetic Resonance Images", IEEE Journal Translational Engineering in Health and Medicine, 2019.(Accepted)</li> <li>5. T. Veerakumar, BN Subudhi, S. Esakkirajan, "Empirical mode decomposition and adaptive bilateral filter approach for impulse noise removal", Expert Systems with Applications, Vol. 121, pp. 18- 27, 2019.</li> </ol>	Dr. T. Veerakumar	ECE
13	S. M. Naik, R. P. K. Jagannath, and V. Kupilli, "Iterative Minimal Residual Method Provides Optimal Regularization Parameter for Extreme Learning Machines," Results in Physics, 2019.	Dr. Ravi Prasad KJ	H&S
14	Ragoju Ravi, C. Kanchana, G. Janardhana Reddy and Hussain Basha, "Study of Soret and Dufour effects and secondary instabilities on Rayleigh-Benard convection in a couple stress fluid" Eur. Phys. J. Plus (2018) 133: 513	Dr. Ragoju Ravi	H&S
15	PT Sowndarrajan, L. Shangerganesh, Optimal control problem for cancer invasion parabolic system with nonlinear diffusion, Optimization 67 (2018), 1819-1836.		



	<p>Dr. L. Shangerganesh, PT. Sowndarrajan, Optimal Control Problem for Cancer Invasion Reaction–Diffusion System, Numerical Functional Analysis and Optimization 39 (2018), 1574-1593.</p> <p>Y Zhou, J Manimaran, L Shangerganesh, A Debbouche, Weakness and Mittag–Leffler Stability of Solutions for Time-Fractional Keller–Segel Models, International Journal of Nonlinear Sciences and Numerical Simulation 19 (2018) 753-761.</p> <p>G. Sathishkumar, L. Shangerganesh, S. Karthikeyan, Lower bounds for the finite-time blow-up of solutions of a cancer invasion model, Electronic Journal of Qualitative Theory of Differential equations, 12 (2019) 1-13.</p>	Dr. L. Shangerganesh	H&S
16	<p>1. E. Mallikarjun, "Shape Reconstruction of Unknown Targets Using Multifrequency Linear Sampling Method," Progress In Electromagnetics Research Letters, Vol. 81, 77-83, 2019</p>	Dr. Mallikarjun E	H&S
17	<p>Title : THE ADVERSE HUMAN HEALTH EFFECTS DUE TO AMMONIA, HYDROGEN SULPHIDE AND CHLORINE IN PROCESS INDUSTRY ARE REVIEW</p> <p>Journal Name : International Journal of Mechanical and Production Engineering Research and Development</p> <p>Year of publication: Aug 2018</p>	Dr. B Santhi	Mechanical

## 7.2 Paper Presented in Seminars

Sr. No.	Papers Presented	Faculty Member	Department
1.	<p><b>Paper Presented</b></p> <p>1. 25th IEEE National Conference on Communication 2019 NCC - 2019, at IISc, Bangalore, India from 23-25 Feb 2019.</p> <p>2. 24th ACM MOBICOM 2018: The 24th Annual International Conference on Mobile Computing and Networking, October 29 to November 2nd 2018, New Delhi, India</p>	Dr. Trilochan Panigrahi	ECE
	E. Mallikarjun and A. Bhattacharya, "Shape reconstruction of dielectric and conducting objects using linear sampling method and limitations," Proceedings of URSI Asia pacific radio science conference, Mar 9- Mar 15, Delhi, India, March, 2019.	Dr. Mallikarjun E	H&S

## 7.3 Workshops Conducted/Participated/attended

Sr. No.	Workshop Details	Faculty Member	Department
1	Place: VJTI, Mumbai Date: 5/3/2019 Title: International Workshop on Blockchain for Global Good	Dr. Chirag Modi	CSE
2	Place: IIT Bombay Date: 28-30 Nov, 2018 Title: Energy Storage for Solar PV	Dr. Chirag Modi	CSE
3	"Shape Reconstruction of Conducting Objects Using Linear Sampling Method in a Limited Aperture Measurements", Proceedings of IEEE-INAE Workshop on Electromagnetics, 6- 8 December 2018, Kerala, India.	Dr. Pragati Patel	ECE

## 7.4 Conferences:

Sr. No.	Conference Details	Faculty Member	Department
1	<p>[1] Prudhvi, R.B., Sai, K.V., Abhishek, Y. and Venkatanareshbabu, K., 2018, July. Feature Selection Using Binary PSO GSA and Radial Basis Network with a Novel Fitness Function. In 2018 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT) (pp. 1-6). IEEE.</p> <p>[2] Tripathi, D., Edla, D.R., Kuppili, V., Bablani, A. and Dharavath, R., 2018. Credit Scoring Model based on Weighted Voting and Cluster based Feature Selection. Procedia computer science, 132, pp.22-31.</p> <p>[3] Naik, S.M., Jagannath, R.P.K. and Kuppili, V., 2018, July. Optimized Laplacian Generalized Classifier Neural Network. In 2018 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT) (pp. 1-5). IEEE</p> <p>[4] Bablani, A., Edla, D.R. and Kuppili, V., 2018, July. Deceit Identification Test on EEG Data Using Deep Belief Network. In 2018 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT) (pp. 1-6). IEEE.</p> <p>[5] D. R. Edla, D. Tripathi, V. Kuppili and R. Cheruku, "Survey on Clustering Techniques," 2018 Second International Conference on Inventive Communication and Computational Technologies (ICICCT), Coimbatore, 2018, pp. 696-703</p> <p>[6] Bablani, A., Edla, D.R., Tripathi, D. and Venkatanareshbabu, K., 2018. Subject based Deceit Identification using Empirical Mode Decomposition. Procedia computer science, 132, pp.32-39.</p>	<p style="text-align: center;">Dr. Venkatanareshbabu Kuppili</p>	<p style="text-align: center;">CSE</p>
2	<p>1. Amruta Lipare, Damodar Reddy Edla, Ramalingaswamy C, and Diwakar T, GWO-GA based Load Balanced and Energy Efficient Clustering Approach for WSN, Springer Series - Smart Innovation, Systems and Technologies (SIST), Third International Conference on Smart</p>		



Sr. No.	Conference Details	Faculty Member	Department
	<p>Trends for Computing and Communications (Smartcom-2019), January, 2019, Bangkok, Thailand.</p> <p>2. Diwakar T, Damodar Reddy Edla, Annushri B, and Venkatanareshbabu K, Two-stage Credit Scoring Model based on Evolutionary Feature Selection and Ensemble Neural Networks, IETE Springer series, 1st International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND-2019) March, 2019, NIT Kurukshetra, INDIA.</p> <p>3. Gaurav Chatterjee, Damodar Reddy Edla and Venkatanareshbabu K, Cryptocurrency: A Comprehensive Analysis, Springer Series -Smart Innovation, Systems and Technologies (SIST), Third International Conference on Smart Trends for Computing and Communications (Smartcom-2019), January, 2019, Bangkok, Thailand.</p> <p>4. Dharavath Ramesh, G Madhukar Rao, Himanshu K, Damodar Reddy Edla, t-SNE Manifold Learning Based Visualization: A Human Activity Recognition Approach, Springer Series, Advances in Data Science and Management - Proceedings of International Conference on Data Science and Management (ICDSM-2019), February 2019.</p> <p>5. Damodar Reddy Edla, Diwakar Tripathi, Venkatanareshbabu K, Ramalingaswamy C, 2nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018), IEEE Xplore, Coimbatore, 20-21 April 2018.</p> <p>6. Venkatanareshbabu Kuppili, Damodar Reddy Edla, and Annushree Bablani, Novel Fitness Function for 3D Image reconstruction using Bat Algorithm based Autoencoder, ACM Digital Library, 23rd International ACM Conference on 3D Web Technology, Poland, 20-22 June 2018.</p> <p>7. Amruta Lipare and Damodar Reddy Edla, Novel Fitness Function for SCE Algorithm based Energy Efficiency in WSN, 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IISC Bangalore, IEEE Xplore, 2018.</p>	Dr. Damodar Reddy Edla	CSE

Sr. No.	Conference Details	Faculty Member	Department
	<p>8. Annushree Bablani, Damodar Reddy Edla and Venkatanareshbabu Kuppili, Deceit Identification Test on EEG Data using Deep Belief Network, 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IISC Bangalore, IEEE Xplore, 2018.</p> <p>9. Simi V R and Damodar Reddy Edla, Performance Evaluation of Nonlinear Spatial Filters on MR Images, 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IISC Bangalore, IEEE Xplore, 2018.</p> <p>10. Annushree Bablani, Damodar Reddy Edla and Shubham Dodia, Classification of EEG Data using k-Nearest Neighbor approach for Concealed Information Test, 8th International Conference On Advances In Computing &amp; Communications, Procedia Computer Science, Elsevier, 2018.</p>		
3	<p>1. D. Kadam, R. Patil and Chirag Modi, "An Enhanced Approach for Intrusion Detection in Virtual Network of Cloud Computing," 10th International Conference on Advanced Computing (ICoAC-2018), IEEE, 2018.</p> <p>2. K. Singh, K Y Preethi, K V Sai and C Modi, "Designing an Efficient Framework for Violence Detection in Sensitive Areas using Computer Vision and Machine Learning Techniques," 10th International Conference on Advanced Computing (ICoAC-2018), IEEE, 2018.</p> <p>3. R. Patil, H. Dudeja, S. Gawade, C. Modi, "Protocol Specific Multi-Threaded Network Intrusion Detection System (PM-NIDS) for DoS/DDoS Attack Detection in Cloud," 2018 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE, pp. 1-7, 2018.</p>	Dr. Chirag Modi	CSE
4	<p>1. Aditi, Pai, R., Mini, S.: Optimization of transmission range for a fault tolerant wireless sensor network. International Conference on Distributed Computing and Internet Technology. (10-13 Jan 2019)</p>		



Sr. No.	Conference Details	Faculty Member	Department
	<p>2. Kumar, M., Sabale, K., Mini, S., Panigrahi, T.: A Scalable Approach to Monitoring Air Pollution using IoT. International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), Coimbatore, Tamil Nadu. (30-31 August, 2018)</p> <p>3. Sapre, S., Mini, S.: Moth Flame based Optimized Placement of Relay Nodes for Fault Tolerant Wireless Sensor Networks. 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Bangalore. (10-12 July, 2018)</p> <p>4. Sabale, K., Mini, S.: An Analysis of Path Planning Mechanisms in Wireless Sensor Networks. 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Bangalore. (10-12 July, 2018)</p>	Dr. S Mini	CSE
5	1. Manjunath Matam, Venugopal Reddy Barry, "Converter-less MPPT for rural area applications" PEDES, IIT-Madras, Dec-2018.	Dr. Venugopal Reddy	EEE
6	<p>1. G. K Reddy, S Mikkili, "Grid Integration of Solar Photovoltaic system with Storage under Partial Shading Conditions using Distributed MPPT Technique" in proc. of IEEE International Conference on Computing of Power, Energy, Information &amp; Communication, 2018</p> <p>2. N Prabhu, D Naik, GR Prashanth, S Mikkili "Smart Energy Auditing using GSM and Fuzzy Logic Controller based Power Quality Management" IEEE International Conference on Smart City and Emerging Technology (ICSCET), 2018.</p> <p>3. S R Pendem, S Mikkili and Praveen Kumar B, "PV Distributed-MPP Tracking: Total-Cross-Tied configuration of MICs to extract the Maximum Power under Partial Shading conditions", 8th biennial IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES-2018)</p> <p>4. S R Pendem, S Mikkili and Vikash Varma K, "Total-Cross-Tied Configuration of MICs for Enhancing the Performance of PV D-MPPT systems under various PSCs using P&amp;O Algorithm", 15th Annual IEEE India Council International Conference (INDICON-2018)</p>	Dr. Suresh Mikkili	EEE





Sr. No.	Conference Details	Faculty Member	Department
7	<p>1. Kandukuri Surendra and C. Vyjayanthi, "Fault Level Analysis in Modern Electrical Distribution System Considering Various Distributed Generations", IEEE sponsored International Conference on Power, Energy, Control and Transmission Systems, 22-23 February 2018, Chennai.</p> <p>2. Madhu G M and C. Vyjayanthi, "Implementation of Cost Effective Smart Home Controller with Android Application using Node MCU and Internet of Things (IOT)", IEEE sponsored 2nd International Conference on Energy, Power &amp; Environment (ICEPE 2018), Shillong, Meghalaya, India, June 1-2, 2018.</p> <p>3. Kandukuri Surendra and C. Vyjayanthi, " Short Circuit Studies on a Distribution System Integrated with Various Distributed Generations", IEEE sponsored 8th Power India International Conference PIICON-2018, December 10-12, 2018, NIT Kurukshetra.</p> <p>4. K. Vinay Kumar and C. Vyjayanthi, "Direct Energy Transfer Technique based DC-DC Converter with Distributed MPPT for PV Charging Applications", IEEE sponsored International Conference on Power, Energy, Control and Transmission Systems, 22-23 February 2018, Chennai.</p>	Dr. C. Vyjayanthi	EEE
8	Priyanka Yussuf, and Sreeraj E. S., "An ZVS DC-DC Synchronous Buck Regulator With Mode Changing Control Strategy For Low Voltage Applications," in Proc. of IEEE Int. Conf. Power Electronics, Drives, Energy Systems, Dec. 2018, Chennai, India.	Dr. E. S. Sreeraj	EEE
9	<p>1. Annet Mary Wilson, Bishnu Prasad Mishra, and T. Panigrahi, "Robust Distributed Geman-McClure Based Channel Estimation," in International Conference on Wireless Communications Signal Processing and Networking (WiSPNET2019), at Kalavakkam, Tamilnadu, India, March 21-23, 2019.</p> <p>2. Dharma Rane, Puskar Shirodkar, T. Panigrahi and S Mini, "Detection of Ambulance Siren in Traffic," has been accepted in International Conference on Wireless Communications Signal Processing and</p>		



<p>Networking (WiSPNET2019), at Kalavakkam, Tamilnadu, India, March 21-23, 2019.</p> <p>3. Shree Prasad M, T. Panigrahi, M Hassan, and Ming Ding, "Sampling Free TDOA Localization in Millimeter Wave Networks," has been accepted in the to the Track 1 – Phy &amp; Fundamentals of the IEEE Wireless Communications and Networking Conference (WCNC 2019) conference to be held in Marrakech, Morocco, from 15-18 April 2019</p> <p>4. Sumesh KP, Ankit Dubey, and T. Panigrahi, "Hardware Implementation of Filtered OFDM for BB-PLC Using Software Defined Radio," in the 25th IEEE National Conference on Communication 2019 NCC-2019, at IISc. Bangalore, India from 23-25 Feb 2019.</p> <p>5. Bishnu Prasad Mishra, T. Panigrahi and Ankit Dubey, "Robust Distributed Estimation of Wireless Channel," in the IEEE 2018 International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC), held at KIIT, Bhubaneswar, Odisha, India from 22-24 Oct 2018.</p> <p>6. Sampada Barve, Sithara Raveendran, Charudatta Korde, T. Panigrahi, Nithin Kumar Y. B. and Vasantha M. H., "FPGA Implementation of Optimized Algorithm for Square and Cube Architecture using Vedic Mathematics", in the IEEE International Symposium on Smart Electronic Systems (iSES), December 17-19, Hyderabad, India.</p> <p>7. Asha Anil, Manjunath M, T. Panigrahi, and Ankit Dubey, "Determining ``OFF" Time Duration of FPGA based GPS Tracking System", in the IEEE technically co-sponsored Conference on Information and Communication Technology 2018 (CICT 2018), held from October 26-28, 2018 at PDPM-Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, Madhya Pradesh, India.</p> <p>8. Shree Prasad M., T. Panigrahi, and M. Hassan, "Classifying the Order of Higher Derivative Gaussian Pulses in Terahertz Wireless Communications" in the IEEE GLOBECOM 2018 Workshops: Emerging Technologies for 5G and Beyond Wireless and Mobile Networks, December 5–7, 2018, at Abu Dhabi, UAE.</p>	<p>Dr. Trilochan Panigrahi</p>	<p>ECE</p>
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	<p>9. Shree Prasad M., T. Panigrahi and M. Hassan, "Direction of Arrival and Center Frequency Estimation for Impulse Radio Millimeter Wave Communications," In 2nd ACM Workshop on Millimeter Wave Networks and Sensing Systems (mmNets '18), October 29, 2018, New Delhi, India. ACM, New York, NY, USA. [cited -5]</p> <p>10. Shree Prasad M., T. Panigrahi, and M. Hassan, "Energy Efficient Event Localization and Classification for Nano IoT" in the IEEE Globecom2018 SAC IoT and for publication in its proceedings, December 5–7, 2018, at Abu Dhabi, UAE. [cited -4]</p> <p>11. Shree Prasad M., T. Panigrahi, and M. Hassan, "Direction of Arrival Estimation for Nanoscale Sensor Networks," in Proceedings of the 5th ACM International Conference on Nanoscale Computing and Communication, NANOCOM '18, September 5–7, 2018, Reykjavik, Iceland. [cited -5]</p> <p>12. Mandeep Kumar, S. Mini, and T. Panigrahi, "A scalable approach to monitoring air pollution using IoT", 2nd International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), 2018, held on August 30-31, 2018, at SCAD Institute of Technology, Palladam, Tamilnadu, India.</p>		
10	<p>1. Siddharth R. K, Nithin Kumar Y.B, Vasantha.M.H., and Edoardo Bonizzoni, "A Low-Power Auxiliary Circuit for Level-Crossing ADCs in IoT-Sensor Applications" presented at IEEE International Symposium on Circuits and Systems, Florence, Italy from May 27-30, 2018.</p> <p>2. Siddharth R. K, Sunil R., Nithin Kumar Y.B, Vasantha.M.H., and Edoardo Bonizzoni,, "A Novel Asynchronous Analog to Digital Converter for Surveillance Camera Applications" IEEE Computer Society Annual Symposium on VLSI (ISVLSI), Hong Kong from July 9-11, 2018.</p> <p>3. Donel Anto, Abhijeet D Taralkar, Nithin Kumar Y B and Vasantha M H, "Performance Enhancement of Split Length Compensated Operational Amplifiers" IEEE Computer Society Annual Symposium on VLSI (ISVLSI), Hong Kong from July 9-11, 2018.</p> <p>4. Manikantta Reddy Karri, Vasantha M.H, Nithin Kumar Y.B, Devesh Dwivedi, "Design of Approximate Dividers for Error Tolerant Applications" presented at 61st IEEE International</p>	Dr. Nithin Kumar Y B	ECE



	<p>Midwest Symposium on Circuits and Systems, Windsor, ON, Canada August 5th-8th, 2018.</p> <p>5. Praveen Yadav, Anirudh Pandey, Ravi Prasad K.J., Vasantha M.H., Nithin Kumar Y.B., “MSBs Carry Consideration Approximate Multiplier” presented at 61st IEEE International Midwest Symposium on Circuits and Systems, Windsor, ON, Canada August 5th-8th, 2018.</p> <p>6. Chetan Kamble, Siddharth R. K., Shivnarayan Patidar, Vasantha M. H., Nithin Kumar Y. B.,” Design of Area-Power-Delay Efficient Square Root Carry Select Adder” 2018 IEEE International Symposium on Smart Electronic Systems, December 17-19, Hyderabad, India.</p> <p>7. Sampada Barve, Sithara Raveendran, Charudatta Korde, Trilochan Panigrahi, Nithin Kumar Y. B. and Vasantha M. H.,” FPGA Implementation of Optimized Algorithm for Square and Cube Architecture using Vedic Mathematics” 2018 IEEE International Symposium on Smart Electronic Systems, December 17-19, Hyderabad, India.</p> <p>8. Anirudh Pandey, Manikantta Reddy, Nithin Kumar Y. B. and Vasantha M. H.,” Design and Analysis of Approximate Multipliers for Error Tolerant Applications” 2018 IEEE International Symposium on Smart Electronic Systems, December 17-19, Hyderabad, India.</p> <p>9. Sithara Raveendran, Pranose J Edavoor, Nithin Kumar Y.B, Vasantha M.H., “Design and Implementation of Reversible Logic Based RGB to Gray Scale Color Space Converter” 30th IEEE Region 10 Conference, October 28-31, Jeju Island, South Korea 2018.</p> <p>10. Davala Shashidhar, Vivek Sharma, Prashanth G.R., Nithin Kumar Y.B, Vasantha M.H., “Characterization of a Novel Low Leakage Power-Efficient Asymmetric 7T SRAM Cell” 30th IEEE Region 10 Conference, October 28-31, Jeju Island, South Korea 2018.</p> <p>11. Purnima Kalekar, Prasad Vernekar, Nithin Kumar Y.B, Vasantha M.H. and E.Bonizzoni, “A 0.5 V Low Power DT MOS OTA-C Filter for ECG Sensing Applications” 17th IEEE Sensors Conference, October 28-31, New Delhi, India.</p>		
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11	<p>1. Deven G. Patanvariya, Kalyan Sundar Kola, Anirban Chatterjee, "Left-Handed Circularly polarized two element antenna array for Vehicular Communication," In 2019 IEEE 8th International Conference on Communication and Signal Processing (ICCSP) [Presented]</p> <p>2. Deven G. Patanvariya, Kalyan Sundar Kola, Anirban Chatterjee, "Circularly polarized two-element array for DSRC Application," In 2019 IEEE International Conference on Computer, Electrical &amp; Communication Engineering (ICCECE) [Presented]</p> <p>3. Kalyan Sundar Kola, Deven G. Patanvariya, Anirban Chatterjee, "A Linear array of Mushroom shaped Antenna for Satellite Application," In 2019 IEEE International Conference on Computer, Electrical &amp; Communication Engineering (ICCECE) [Presented]</p> <p>4. K. S. Kola, D. G. Patanvariya, S. B. Naik, M. V. Reddy, and A. Chatterjee, "A Novel Two-Element Linear Array for DSRC Band," In 2018 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), pp. 1-5. IEEE, 2018</p>	Dr. Anirban Chatterjee	ECE
12	<p>Erramshetty, "Perforated Rectangular Dielectric Resonator Antenna for Wideband, Dual Band and Single Band Application," 2018 48th European Microwave Conference (EuMC), Madrid, 2018, pp. 384-387.</p> <p>E. Mallikarjun and Pragati Patel, "Shape Reconstruction of Conducting Objects Using Linear Sampling Method in a Limited Aperture Measurements", Proceedings of IEEE-INAE Workshop on Electromagnetics, 6- 8 December 2018, Kerala, India.</p>	Dr. Pragati Patel	ECE
13	<p>Erramshetty, "Perforated Rectangular Dielectric Resonator Antenna for Wideband, Dual Band and Single Band Application," 2018 48th European Microwave Conference (EuMC), Madrid, 2018, pp. 384-387.</p> <p>E. Mallikarjun and Pragati Patel, "Shape Reconstruction of Conducting Objects Using Linear Sampling Method in a Limited Aperture Measurements", Proceedings of IEEE-INAE Workshop on Electromagnetics, 6- 8 December</p>	Dr. Velavan Kathirvelu	H&S

14	<p>S. M. Naik and R. P. K. Jagannath, "GCV-Based Regularized Extreme Learning Machine for Facial Expression Recognition," in Advances in Machine Learning and Data Science, Springer, 2018. pp.129-138.</p> <p>S. M. Naik, R. P. K. Jagannath, and V. Kupilli, "Optimized Laplacian Generalized Classifier Neural Network," in 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE, 2018. pp.1-5.</p>	Dr. Ravi Prasad KJ	H&S
15	<p>E. Mallikarjun and A. Bhattacharya, "Shape reconstruction of dielectric and conducting objects using linear sampling method and limitations," Proceedings of URSI Asia pacific radio science conference, Mar 9- Mar 15, Delhi, India, March, 2019.</p> <p>E. Mallikarjun and Pragati Patel, "Shape Reconstruction of Conducting Objects Using Linear Sampling Method in a Limited Aperture Measurements", Proceedings of IEEE-INAE Workshop on Electromagnetics, Dec 6- Dec 8, Kerala, India, 2018</p> <p>Eeshan, Pragati and Mallikarjun, " Perforated Rectangular Dielectric Resonator Antenna for Wideband, Dual band and Single band application," European Microwave week , Spain, 2018</p>	Dr. Mallikarjun E.	H&S
16	<p>Title : The Adverse Human Health Effects Due to Ammonia, Hydrogen Sulphide and Chlorine in Process Industries A Survey Journal/Conf. Name : International Conference on Automobile, Marine and Mechanical Engineering Year of publication: May 2018</p>	Dr. B Santhi	Mechanical

## 7.5 Student Chapters

### 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 SPECTRA for the year 2019-20 are follows. The Spectra has organised Milan 2018, a get-together party, on 29th October 2018. 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***

TESLA is run by the students of Department of EEE. The club organized atechanical talk on &quot;Privacy & Security in Online Social Media&quot; in January 2019 for the students. This talk was delivered by Dr. Ponnurangam K, Associate Professor IIIT Delhi, TEDx speaker, ACM India speaker, Founding head CERC IIIT Delhi. In the last academic year TESLA also organised industrial visits to SLDC, Margao and 33/11kV Substation, Aquem, Margao, Goa for the B. Tech and M. Tech students.



### *VIVEKANANDASTUDYCIRCLE*

Vivekananda Study Circle at NIT Goa was formed on 21st 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 2018. 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'19*

It was the second edition of the annual techno-cultural fest of National Institute of Technology Goa. It was a three-day event held from 29th-31st March 2019, 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.

Under the guidance of our Chief Patron, Prof. (Dr.) Gopal Mugeraya, Director - NIT Goa and Dean Students welfare, Dr. Suresh Mikkili, Saavyas'19 was organised under the glorious leadership of Mr. Arvind Ramadurai, Ms. Sruthy Rajan, Mr. Harshvardhan Paithane and Mr. Raheel Shaikh who were the student Conveners of the event, all being 3rd year B-tech students. The executive committee also included Ms. Monika Yadav, Mr. Prince Mathew, Mr. Milind Patil, Mr. Samarth Surlekar, Mr. Penjo Rebello, Mr. K. Nag Charan, Mr. Sparsh Lotlikar, Ms. Sukkhada Joshii, Mr. Pranav Gaikwad, Mr. Aakash Kumar, Mr. Karthik Reddy, Mr. Siddharth Deshmukh, Ms. Harshada Halarnkar, Ms. Vishakha Ghadi also being 3rd year, B-tech students of NIT Goa.

The opening ceremony of Saavyas'19 was held on 27th March 2019 from 6PM onwards. A number of distinguished personalities were present amidst that evening. The Chief Guest of the function was Shri. Jose Manuel Noronha, Chairman, Goa Public Service Commission. The Guest of Honor was Prof.(Dr.), Balaveera Reddy, Chairman, Board of Governors, NITK- Surathkal. The guests were felicitated by the Director, NIT Goa.





A Tech Talk show was organized on 29th March 2019 from 10AM to 1PM at the seminar hall. It witnessed five eminent successful people sharing their success stories about innovation with the audience. The topic for the session was “Innovation and Entrepreneurship”. The Speakers who graced the occasion by their presence were:

- Shri. P. Niranjana, Vice-President, Nuclear and Special Bridges Business unit Heavy Civil Infrastructure IC, L&T constructions
- Shri Maruti S. Jambagi, CEO, Gammon India Ltd
- Shri G. Shankar Ram, Co-founder, Peps Industries Pvt. Ltd.
- Shri Mangurish Pai Raikar, CMD, Brown Packaging Systems Pvt. Ltd.
- Shri. Manjunath Ramkrishnan, Founder and CEO, TongueStun

As part of Saavyas, five technical events were conducted namely: RoboSoccer, RoboWars, RoboRace, Line Follower and Programmatics and Cultural events were clubbed under Saavyas Cultural trophy: Footloose - Solo Dance Competition, Step Up - Group Dance Competition, Battle of Bands, The Voice - Solo Singing Competition, Face Paint, Street Play, Rangoli & T-shirt SAAVYAS Painting. The entertainment and literature events were as follows: Picasso, Feel the Heat - Debate, Binge Challenge, IPL Auction Just a Minute, Trivium - General Knowledge Quiz, Extravaganza - T.V Show quiz, Treasure Hunt, PC Gaming, Futsal, Third Degree, Tug of War, Pro-cricket.

Saavyas also saw two pre-events namely 'Ethnic Day' celebrated on 13th November 2018 and Project Expo held on 16th February 2019. Being a non-profitable youth organisation, Saavyas worked on social causes and organised a Cleanliness Drive on 26th January 2019.

As part of the Professional Nights, Saavyas'19 hosted the famous comedian Mr. Pratyush Chaubey as part of the Comedy Night and The Metronomes, an upcoming band, on 30th March 2019 and DJ Myrice and DJ Candice Redding as part of the DJ night on 31st March 2019. Both the nights received an overwhelming response from students all across Goa as well as the other parts of the country. The sponsors of the event were Mastersoft, Crompton, Corporation Bank, Goa Shipyard, Gamma Impact, Byju's to name a few.

### **QUANTA**

The past year has been a glorious one for QUANTA, the Quiz Club of NIT Goa. Many enthusiastic first year students joined QUANTA and regularly attend the monthly quizzes. Here is a list of all the



achievements of QUANTA over the past academic year of 2017-18:

- Tejan Karmali, student of third year B. Tech., won the 3rd position in Sweden India Nobel Memorial Quiz, Pune Round 2017. He was selected for Google Summer of Code, 2018, and was also part of the runners up team of Tata Crucible Campus Quiz, Goa regional round, 2018.

- Sahil Ramchandani, student of third year B. Tech., won the Tata Crucible Campus Quiz, Goa regional round, 2018, and was the runner up in Tata Crucible Campus Quiz, Mumbai Zonal round, 2018. He was a national Finalist in Tata Crucible Campus Quiz, 2018, Runner up in T.A. Pai Management Institute's Quiz on the Beach 2018 Pune regional round, International Finalist in T.A. Pai Management Institute's Quiz on the Beach, 2018, and winner of Dempo's BizQuest 2018. He won the 3rd position in the Sweden India Nobel Memorial Quiz, Pune round, 2017, and the Discover Holland Quiz held in Bengaluru, 2018.

Apart from the above quizzes, QUANTA also hosted the General Quiz for “Tathastu”, the college festival of Chowgule College, Margao. The proceeds are being used to provide refreshments at the monthly quizzes for all the attendees.

### **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. Besides, all the NPTEL video lectures and other material 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 corresponding fields. For this, NIT Goa is providing lab resources and course-related additional material with faculty support to our students 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.

## 1.6 STUDENTS' ACHIEVEMENTS:

### *Department of Electrical and Electronics Engineering*

Mr. Nikhil Patil, B. Tech (batch 2014-18) received prestigious Prime Minister Research Fellowship scheme for PhD at IIT Bombay. Mr. Krishna Kadam, B. Tech (batch 2014-18) made us proud by securing ALL INDIA RANK 53 in GATE 2019. Mr. Pratyay Shete (batch 2017-21), third year B. Tech students secured 2<sup>nd</sup> place in the 3<sup>rd</sup> edition of Ideas Unleashed Essay Competition 2018 on “Achieving the sustainable development goals: Challenges for Goa”. Ms. Daksha Naik, B. Tech (batch 2014-18) is pursuing M.S. at University of Massachusetts, Amherst, USA. Mr. Kranti Panuganti, B. Tech (batch 2015-19) has joined IIT Goa for Ph.D. and Mr. Koustubh Choukekar (2015-19) is pursuing MBA from IIM Indore. Presently, two of our 2<sup>nd</sup> year M. Tech students Mr. Rahamadullah A. and Ms. Arunima S. has been selected for full-time one year paid Internship at Siemens Goa and Ametek Instrument Pvt. Ltd., Bangalore respectively. Mr. Pranose J. Edavoor, research scholar is doing Internship at Intel Technology India Pvt. Ltd. Bangalore. Sixteen research papers of various research scholars; Suneel Raju Pendem, Madhu G. M., R.V.S.E Shraavan, Venkat Rami Reddy, Praveen K. Bonthagorla, Kavita Nanshikar, Aswini Kumar Samantaray, G. Harish Kumar Varma were presented at various reputed international conferences. Also, six research papers of research scholars; Mr. Suneel Raju Pendem, Mr. Praveen K. Bonthagorla, Mr. Pranose J. Edavoor were published in reputed journals like IEEE Systems Journal, Energy Reports (Elsevier), International Journal of Green Energy (Taylor and Francis), IET Image Processing etc. Six research papers of M. Tech students; Mr. K. Vikas Varma, Mr. Bharath Mukka, Mr. Rupesh Thombres were presented at conferences.

### *Department of Electronics and Communication Engineering*

Mr. Sagar alumni of NIT Goa has been awarded with Goa Scholar Award in the year 2019. Mr. Pranav Gaikwad B. Tech Student has been awarded as the Best innovation in 'T SUMMIT' - A NATIONAL LEVEL TECHNICAL SUMMIT. Mr. Nithin Lakshmisha (B. Tech 2019 pass out) has been selected in PMRF to pursue PhD in Biomedical Engineering at IIT Bombay. Mr. Manu Bhat final year ECE student has been selected for the Mentor Graphics System Verilog Training Program. Ms. Neelanjana

Paul of B.Tech 4th Year ECE awarded as the best outgoing student of NIT Goa. Twelve MTech students of 2019-20 batch were selected for pursuing internship at Intel India.

Ph.D. Students Mr. Vivek Sharma and Mr. Siddharth Kala awarded with VLSID 2019 fellowship to attend the Conference held at New Delhi between Jan 05-09, 2019. PhD Students Mr. Deven P and Mr. Kalyan S Kola have been selected for prestigious Gandhian Young Technological Innovation Awards 2019. Mr. Yeduri Sreenivasa Reddy PhD scholar working in Power Line Communication a joint research work between NIT Goa and IIT Hyderabad.

Ms. Sithara Raveendran, PhD Scholar has represented NIT Goa at NIT Jamshedpur as a part of Ek Bharat Shreshtha Bharat cultural exchange program. PhD Scholar Ms. Preeti Mahaveer Jagadev has been selected for participation in "São Paulo School of Advanced Science on Modern Topics in Biophotonics" University of São Paulo, São Carlos, SP, Brazil with full financial assistance from the organizers. Mr. Karri Manikanta Reddy and Mr. Pale Sundar Veerendranath PhD scholars successfully completed internship at Intel India as part of Ph.D. investigation.

#### **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.

## 7.0 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.

### ***Rajbhasa Samiti of NIT Goa:***

Rajbhasa Samiti of NIT Goa was formed on May 8, 2017. After its inception, the Samiti has organized several events to promote the use of Hindi language in the institute. On the occasion of Teachers' Day on 5th September, 2017, the Samiti organized a Hindi Essay Competition on the theme of "Teachers role in this era". Later in the month of September, the Samiti organized a week long Hindi Saptah from 12th to 18th September, 2017. During this Hindi Saptah program, competitions like Hindi Essay Writing, Hindi Debate, Hindi Typing, Hindi Slogan Writing and Hindi Poetry were organized for students, staff and faculty members of the institute. The Hindi Saptah was well received by the NIT Goa fraternity and was fully supported by the institute fund. On the occasion of Republic day celebration, the winners of various events were awarded with Hindi Books. Further, following the directives from MHRD, the Samiti has procured Hindi short films to promote the use of Hindi language in the institute. Moreover, the Samiti has requested the central library to procure Hindi Books and the same is being under process. As a part of its practice, the Samiti sends its report to the Raj Bhasa Vibhag of the Govt. of India on regular basis.



## 9.0 PLACEMENT DETAILS OF STUDENTS FOR ACADEMIC YEAR 2018-19

### List of Companies Recruited Students in the Academic Year 2018-19

#### LIST OF COMPANIES RECRUITED STUDENTS OF THE ACADEMIC YEAR 2018-19

Sr. No.	Name of the Company	Sr. No.	Name of the Company
1	Mahindra Comviva	13	Samsung R&D
2	L&T Construction	14	Tejas Network
3	Cause Code	15	Bill Desk
4	Quant Insti	16	Persistent
5	Suzuki Motors	17	Saggezza
6	Cognizant	18	Winjit
7	Unisys Global	19	Allstate
8	Vehant Technolgoies	20	People Strong
9	Reliance Hydrocarbons	21	HFCL
10	Wipro	22	Rupeek
11	Virtusa Communication	23	Dakshana Foundation (Off Campus)
12	Infosys		

#### PLACEMENT RECORD FOR THE ACADEMIC YEAR 2017-18 (Branch wise)

Department	Total No. of Students (EL)	Total No. of Students placed	Percentage of Placements
CSE	23	23	100
ECE	18	17	94.44
EEE	15	13	86.67

\*EL: Eligible.





### PLACEMENT RECORD FOR THE ACADEMIC YEAR 2017-18 (Overall)

Total No. of Students (EL)	56
Total No. of Students Placed	53
<b>Percentage of Placements</b>	<b>94.64</b>

**Maximum pay package: 12 Lakhs**

**Average pay package: 6.42 Lakhs (Approx.)**

### 10.0 CONVOCATION

NIT Goa celebrated its 5th convocation on 28th September 2019, at Ravindra Bhavan, Margao Goa. The convocation experienced a spectacular gathering of students, their parents, renowned academicians, scientists, industrialists and heads of various government departments. Dr. Pramod Sawant, Hon'ble Chief Minister of Goa 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 112 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 112 students. Total 69 students awarded with B.Tech. degree. Branch wise results are given below:

- Computer Science and Engineering : 26 students passed
- Electrical and Electronics Engineering : 18 students passed
- Electronics and Communication Engineering : 25 students passed

A total number of 40 students are awarded the M.Tech Degree. Branch wise results are as follows:

- Computer Science and Engineering : 9 students passed
- Power Electronics and Power Systems : 15 students passed
- VLSI : 16 students passed



**Ph.D.** degree is conferred to 3 students: All from the Dept. of **Computer Science and Engineering**.

The DIRECTOR'S GOLD MEDAL for the outstanding all-round performance in all disciplines of undergraduate programmes of study was awarded to Mr. CHOUKEKAR KAUSTUBH KIRAN of the EEE Dept for batch the 2014-2018. GOLD MEDAL for the best academic performance in the undergraduate programmes of study was awarded to Mr. SUCHITH C PRABHU of the CSE dept, CHOUKEKAR KAUSTUBH KIRAN of the EEE dept, and SHIRODKAR PUSHKAR BIPIN 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 Mr. PATIL SHRAVANI MAHESH of the CSE dept for batch the 2016-2018. GOLD MEDAL for the best academic performance in the postgraduate programmes of study was awarded to PATIL SHRAVANI MAHESH of the CSE dept, Ms. LAKSHMI SREEKUMAR of the EEE dept & Mr. N PURUSHOTHAM REDDY of the ECE dept.

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

Ph.D. degree was conferred to 3 students: All from the Dept. of Computer Science & Engineering.



*Annual Accounts*  
*2019-2020*



**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
BALANCESHEET AS AT 31ST, MARCH, 2020**

	Amount in Rupees	
	Current Year	Previous Year
<b>SOURCES OF FUND</b>		
CORPUS/CAPITAL FUND	430,912,130.08	339,269,967.28
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	9,456,720.00	8,308,000.00
CURRENT LIABILITIES & PROVISIONS	1,014,713,589.96	1,067,759,091.10
<b>TOTAL</b>	<b>1,455,082,440.04</b>	<b>1,415,337,058.38</b>
<b>APPLICATION OF FUNDS</b>		
<b>FIXED ASSETS</b>		
Tangible Assets	81,232,618.47	65,516,828.47
Intangible Assets	6,487,120.00	919,390.00
Capital Works-In-Progress	3,074,622.00	757,380.00
<b>INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS</b>		
Long Term	-	-
Short Term	-	-
<b>INVESTMENTS - OTHERS</b>		
CURRENT ASSETS	971,491,278.37	1,290,631,070.21
LOANS, ADVANCES & DEPOSITS	392,796,801.20	57,512,389.70
<b>TOTAL</b>	<b>1,455,082,440.04</b>	<b>1,415,337,058.38</b>
<b>SIGNIFICANT ACCOUNTING POLICIES CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS</b>		
	23	
	24	

FOR AND ON BEHALF OF THE BOARD

DIRECTOR

PLACE: PONDA, GOA  
DATE: 16-12-2020

Director

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

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

FRN: 127641W



CA ARCHANA KENKARE  
PARTNER

MEM NO. 047463

UDIN: 20047463AAAAGG88578



**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31ST, MARCH, 2020**

PARTICULARS	Sch.	Amount in Rupees	
		Current Year	Previous Year
<b>INCOME</b>			
Academic Receipts	9	41,701,873.00	34,269,532.98
Grants / Subsidies	10	206,694,036.52	191,625,606.78
Income from investments	11	23,632,191.00	18,803,026.00
Interest earned	12	951,565.00	456,773.11
Other Income	13	1,756,527.00	2,211,369.07
Prior Period Income	14	-	-
<b>TOTAL (A)</b>		<b>274,736,192.52</b>	<b>247,366,307.94</b>
<b>EXPENDITURE</b>			
Staff Payments & Benefits (Establishment expenses)	15	114,594,451.00	105,743,126.00
Academic Expenses	16	40,043,310.00	38,057,771.00
Administrative and General Expenses	17	22,127,272.77	18,596,936.00
Transportation Expenses	18	1,839,312.00	1,772,290.00
Repairs & Maintenance	19	28,050,954.00	27,368,125.00
Finance costs	20	39,491.95	13,181.63
Depreciation	4	17,630,648.00	12,853,381.66
Other Expenses	21	-	-
Prior Period Expenses	22	-	75,049.00
<b>TOTAL (B)</b>		<b>224,325,439.72</b>	<b>204,479,860.29</b>
<b>Balance being excess of Income over Expenditure (A-B)</b>		<b>50,410,752.80</b>	<b>42,886,447.65</b>
- Transfer to/from Designated Fund		-	-
Building Fund		-	-
Others(Specify)		-	-
<b>Balance Being Surplus / (Deficit) Carried to Capital Fund</b>		<b>50,410,752.80</b>	<b>42,886,447.65</b>
Significant Accounting Policies	23		
Contingent Liabilities And Notes To Accounts	24		

FOR AND ON BEHALF OF THE BOARD

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

FRN: 127641W



DIRECTOR

CA ARCHANA KENKARE  
PARTNER

MEM NO. 047463

UDIN: 20047463AAAAAG88578

PLACE: PONDA, GOA

DATE: 16-12-2020

Director

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



GFR 12 - A  
[(See Rule 238 (1)]

FORM OF UTILIZATION CERTIFICATE FOR AUTONOMOUS BODIES OF THE GRANTEE ORGANIZATION

REVISED PROVISIONAL UTILIZATION CERTIFICATE FOR THE YEAR 2019-20 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 : 957,587,963.01  
(ii) Unadjusted advances : 17,555,353.00  
(iii) Total : 975,143,316.01
4. Details of grants received, expenditure incurred and closing balances: (Actuals)

1 Unspent Balances of Grants received years [figure as at Sl. No.3 (iii)]***	2 Interest Earned thereon *	3 Interest deposited back to the Government	4 Grant received during the year			5 Total Available funds (1+2-3+4)	6 Expenditure incurred**	7 Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
112-31	138,931,770.11	-	6th Instalment F.No.36 - 3/2019 - TS.III(Pl.2)	dttd.25.09.2019	42,400,000.00	187,716,733.11	66,409,768.85	119,306,964.26
112-35	681,574,313.50	-	N.A	N.A	-	708,461,121.50	302,603,132.84	405,857,988.66
112-36	47,631,881.67	-	4th Instalment F.No.36 - 3/2019 - TS.III	dttd.06.08.2019	6,100,000.00	124,142,382.67	90,459,894.24	33,682,488.43
			5th Instalment F.No.36 - 3/2019 - TS.III	dttd.04.09.2019	3,100,000.00			
			6th Instalment F.No.36 - 3/2019 - TS.III(Pl.2)	dttd.25.09.2019	31,600,000.00			
			11th Instalment F.No.36 - 3/2019 - TS.III(Pl.2)	dttd.06.02.2020	33,700,000.00			
789-31	(9,366,069.48)	-	6th Instalment F.No.36 - 3/2019 - TS.III(Pl.2)	dttd.25.09.2019	2,800,000.00	(6,566,069.48)	12,438,139.79	(19,004,199.27)
789-35	56,662,418.18	-	N.A	N.A	-	58,140,586.18	55,018,751.39	3,121,834.79
789-36	7,537,316.83	-	4th Instalment F.No.36 - 3/2019 - TS.III	dttd.06.08.2019	400,000.00	10,065,897.83	16,447,253.50	(6,381,355.67)
			5th Instalment F.No.36 - 3/2019 - TS.III	dttd.04.09.2019	200,000.00			
			6th Instalment F.No.36 - 3/2019 - TS.III(Pl.2)	dttd.25.09.2019	1,900,000.00			
795-31	(4,038,409.95)	-	5th Instalment F.No.36 - 3/2019 - TS.III(Pl.2)	dttd.25.09.2019	1,400,000.00	(2,638,409.95)	5,813,478.38	(8,451,888.33)
795-35	29,983,940.10	-	N.A	N.A	-	30,852,307.10	25,715,285.98	5,137,021.12
795-36	8,670,792.06	-	4th Instalment F.No.36 - 3/2019 - TS.III	dttd.06.08.2019	300,000.00	13,290,724.06	7,667,303.27	5,603,420.80
			5th Instalment F.No.36 - 3/2019 - TS.III	dttd.04.09.2019	100,000.00			



	957,587,963.01	38,010,320.00	-	-	127,857,000.00
6th Instalment F. No.36 - 3/2019 - TS.III(Pl.2)					900,000.00
11th Instalment F. No.36 - 3/2019 - TS.III(Pl.2)					2,967,000.00
					584,593,008.02
					538,872,274.99

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	68,409,768.85	112-35	461,472,795.72
	90,459,894.24	302,603,132.64	
789-31	12,438,139.79	789-35	83,904,144.68
	16,447,253.50	55,018,751.39	
796-31	5,813,478.36	796-35	39,216,067.62
	7,667,303.27	25,715,285.98	
<b>TOTAL</b>	<b>86,661,387.02</b>	<b>383,337,170.00</b>	<b>584,593,008.02</b>

Details of grants position at the end of the year

(i) Cash in Hand/Bank :	538,872,274.99
(ii) Unadjusted Advances :	357,643,194.50
(iii) Total:	<b>896,515,469.49</b>

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: 16.12.2020  
Place: Farmagudi, Ponda, Goa - 403 401

Signature :  
Name : Dr. Vasantha M.H.  
Registrar (i/c)



National Institute of Technology Goa

\*Note: The interest Farmagudi and Ponda Goa, APR 96 1801 arrived on 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.

\*\*\* 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  
Farmagudi, Ponda-Goa 403 401



NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2020

**SCHEDULE - 1 CORPUS/CAPITAL FUND**

Particulars	Amount in Rupees	
	Current Year	Previous Year
Balance at the beginning of the year	339,269,967.28	283,839,574.91
Add: Contributions towards Corpus/Capital Fund	-	-
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure	37,811,130.00	5,758,049.00
Add: Assets Purchased out of Earmarked Funds	-	-
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution	3,420,280.00	5,925,088.06
Add: Assets Donated/Gifts Received	-	-
Add: Professional Development Fund Share of Overheads of F.Y-2017-18 transferred to Corpus	-	860,807.66
Add: Excess of Income over expenditure transferred from the Income & Expenditure Account	50,410,752.80	42,886,447.65
<b>TOTAL</b>	<b>430,912,130.08</b>	<b>339,269,967.28</b>
Less: Transfer to Earmarked Funds	-	-
Less: Other Deductions (Short Depreciation w/off)	-	-
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>430,912,130.08</b>	<b>339,269,967.28</b>







NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2020

SCHEDULE 2 - DESIGNATED/ EARMARKED / ENDOWMENT FUNDS

Particulars	Amount in Rupees		
	FUND-WISE BREAK UP	Current Year	Previous Year
	Institute Devt Fund	Hostel Devt Fund	TOTAL
<b>A.</b>			
a) Opening balance	8,169,988.00	138,012.00	8,308,000.00
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	358,200.00	5,520.00	363,720.00
f) Other additions (Specify nature) (Collected from students)	785,000.00	-	785,000.00
i. Collected from Students			
ii. Transfer from Corpus Fund			
<b>Total (A)</b>	<b>9,313,188.00</b>	<b>143,532.00</b>	<b>9,456,720.00</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>Closing Balance at the year End (A-B)</b>	<b>9,313,188.00</b>	<b>143,532.00</b>	<b>9,456,720.00</b>
<b>Represented by</b>			
Cash and Bank Balances	9,313,188.00	143,532.00	9,456,720.00
Investments in Fixed Deposits	-	-	-
Interest Accrued but not due	-	-	-
<b>Total</b>	<b>9,313,188.00</b>	<b>143,532.00</b>	<b>9,456,720.00</b>





NATIONAL INSTITUTE OF TECHNOLOGY GOA  
 SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST. MARCH, 2020

SCHEDULE 2A  
 ENDOWMENT FUNDS

1. Sr. No.	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		9 Expenditure on the object during the year	Closing Balance		Total (10+11)
		3. Endowment	4. Accumulated Interest	5. Endowment	6. Interest	7. Endowmen t (3+5)	8. Accumulated Interest (4+6)		10. Endowment	11. Accumulated Interest	
		-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-	-





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2020**

**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)	26,161,505.81	19,308,639.33
3. Sundry Creditors		
a) For Goods & Services (Sub Schedule 2)	5,669,394.00	3,667,816.50
b) Others	-	-
4. Deposit-Others (including EMD, Security Deposit) (Sub Schedule 3)	2,718,004.00	957,223.00
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS):		
a) Overdue	-	-
b) Others (Sub Schedule 4)	496,992.00	609,481.00
6. Other Current Liabilities (Sub Schedule 5)		
a) Salaries	7,745,795.00	7,276,329.00
b) Receipts against sponsored projects(Net) (as per Schedule 3a)	24,076,303.66	24,187,173.26
c) Receipts against sponsored fellowships & scholarships (Net) (as per Schedule 3b)	374,270.00	1,360,389.00
d) Unutilised Grants (as per Schedule 3c)	896,515,469.49	975,143,316.01
e) Grants in advance	-	-
f) Other funds (Sub Schedule 5)	1,031,301.00	1,397,514.00
g) Other liabilities (Sub Schedule 5)	13,857,614.00	8,148,374.00
<b>Total (A)</b>	<b>978,646,648.96</b>	<b>1,042,056,255.10</b>
<b>B. PROVISIONS</b>		
1. For Taxation	-	-
2. Gratuity	11,510,065.00	9,903,179.00
3. Superannuation Pension	-	-
4. Accumulated Leave Encashment	24,459,676.00	15,745,657.00
5. Trade Warranties/Claims	-	-
6. Others (Specify) (Sub Schedule 6)	97,200.00	54,000.00
<b>Total (B)</b>	<b>36,066,941.00</b>	<b>25,702,836.00</b>
<b>Total (A+B)</b>	<b>1,014,713,589.96</b>	<b>1,067,759,091.10</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, 2020

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 (as per Sub Schedule 9)	Closing Balance	
		3. Credit	4. Debit					9. Credit	10. Debit
1	Analysis of Cardiovascular Disorders Using Heart Sound Signals- SERB-Dr. Shivnarayan Patidar	725,399.70	-	100,000.00	32,634.00	858,033.70	390,790.00	467,243.70	-
2	Computational and Theoretical Studies on Parabolic Partial Differential Equations in Cancer Modelling sponsored by SERB - Dr. L. Sharganesh	212,072.76	-	-	-	212,072.76	212,072.76	-	-
3	Convective Instabilities in Double Diffusive Systems- SERB- Dr. Ravi Ragoju	493,658.00	-	70,000.00	23,213.00	587,071.00	249,183.00	337,888.00	-
4	Design and Development of Acoustic Methods for early detection of Stem and Root Borer Plocaedatus spp infestation in cashew- SERB - Dr. Veerakumar T.	-	-	578,550.00	15,484.00	594,034.00	290,774.00	303,260.00	-
5	Design and Development of an Efficient Grid-Integrated Distributed Maximum Power Point Tracking to Photovoltaic	1,189,137.24	-	366,530.00	52,880.00	1,818,347.24	1,190,215.00	428,132.24	-
6	Design and Development of Compact and Wideband Dielectric Resonator Antennas- SERB- Dr. Pragati Patel	3,818,847.00	-	-	159,919.00	3,378,766.00	834,764.00	3,144,002.00	-
7	Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)-SERB- Dr. Amol Deodas Rahuikar	430,603.57	-	107,930.00	18,952.00	557,485.57	389,766.00	157,719.57	-
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. Steeraj E. S.	984,752.73	-	200,000.00	31,339.00	1,216,091.73	755,032.00	461,059.73	-
9	Design & Development of a Dynamic Photovoltaic Array Fed Single Stage PV System Using an Open WIM- Dr. Venugopal Reddy	-	-	1,026,461.00	26,323.00	1,052,784.00	581,362.00	471,422.00	-
10	Design & Development of a Photovoltaic-Thermoelectric Hybrid Energy System sponsored by SERB - Dr. Lalit Indu Giri	407,779.88	-	774,866.00	30,319.00	1,212,964.88	417,690.00	795,274.88	-
11	Design & Development of Roast Distributed Nonlinear Channel Equalization & Identification sponsored by SERB - Dr. Trilochan P.	411,255.17	-	-	11,640.00	422,895.17	334,529.00	88,366.17	-
12	Designing Efficient Algebraic Activation Functions in Deep Learning For Classification Of Electroencephalography	-	-	220,000.00	-	220,000.00	-	220,000.00	-
13	Designing Out-of-VM Monitoring Based Virtual Machine Introspection Framework for SVECC-Dr. Chirag Modi	439,883.27	-	334,810.00	26,459.00	801,152.27	504,036.00	297,116.27	-
14	Design of Compact Shaped Beam Antenna Array for Dedicated Short Range Communication Service sponsored by SERB - Dr. Anirban Chatterjee	267,086.57	-	600,000.00	23,117.60	890,203.57	575,021.00	315,182.57	-





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 (as per Sub Schedule 9)	Closing Balance	
		3. Credit	4. Debit					9. Credit	10. Debit
15	Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	2,335,705.97	-	-	95,485.00	2,431,190.97	2,083,542.00	347,648.97	-
16	Design, Simulation and Implementation of Bandpass Sigma Delta sponsored by SERB - Dr. Nithin Kumar Y.B.	418,186.78	-	-	-	418,186.78	418,186.78	-	-
17	Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment -SERB - Dr. Chirag Modi	-	-	5,744,970.00	30,225.00	5,775,195.00	-	5,775,195.00	-
18	Development of a Multipurpose Intelligent Controller for a Nano Grid Operation sponsored by MNRE - Dr. C. Vyjayanthi	229,934.00	-	-	10,000.00	239,934.00	74,651.00	165,283.00	-
19	Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C.Vyjayanthi	1,903,431.24	-	590,200.00	83,121.00	2,576,752.24	1,006,138.00	1,570,614.24	-
20	Development Of Efficient Algorithms For Photoacoustic Tomography (Pat) sponsored by SERB - Dr. Raviprasad K. J.	603,826.62	-	-	-	603,826.62	603,826.62	-	-
21	Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron Models"-Dr.Venkatanarashbabu Kuppilli	631,020.97	-	353,200.00	31,342.00	1,015,562.97	388,867.00	626,695.97	-
22	Development of Secure Key Management Protocols for Group Communication Under Active Outsider Attack Model sponsored by SERB - Dr. Purushothama B. R.	257,232.19	-	-	-	257,232.19	257,232.19	-	-
23	Energy Efficient Lighting with Visible Light based Communication & Power Line Communication sponsored by DST - Dr. Ankit Dubey.	459,884.00	-	-	20,763.00	480,647.00	112,502.00	368,145.00	-
24	Enhanced Automation of 3-Axis CNC Milling Machine using Computer Vision and Artificial Intelligence sponsored by SERB - Dr. Pravati Swain	95,158.26	-	411,770.00	5,809.00	512,737.26	512,737.26	-	-
25	Harnessing Technological Innovations for Sustainable Development: The Role of Intellectual Property Rights - ICSRR (MHRD) - Dr. Sunil Kumar A.	-	-	200,000.00	1,124.00	201,124.00	3,000.00	198,124.00	-
26	Improved PHY and MAC Strategies for M2M Communications in Smart Grid Over Wireless and PLC Heterogenous Network sponsored by SERB - Dr. Ankit Dubey.	2,490,927.33	-	-	116,455.00	2,607,382.33	-	2,607,382.33	-
27	Interference Rejection Using Built-In Filter Based Band-Pass Sigma Delta Modulators -SERB- Dr. Nithin Kumar Y.B.	-	-	2,840,000.00	-	2,840,000.00	249,655.00	2,590,345.00	-





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 (as per Sub Schedule 9)	Closing Balance	
		3. Credit	4. Debit					9. Credit	10. Debit
28	Monit Air: An IoT Based Air Pollution Monitoring System sponsored by SERB - Dr. S. Mini & Dr. Trilochan Panigrahi.	480,646.07	-	-	-	480,646.07	480,646.07	-	-
29	MonitNoise: An IoT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr.S. Mini	374,039.92	-	-	14,365.00	388,404.92	388,404.92	-	-
30	Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology- TERI -Dr.Lalit Indu Giri	1,651,255.00	-	-	53,383.00	1,704,638.00	1,244,433.00	460,205.00	-
31	Secure and efficient communications inside partitioned social over lay networks sponsored by SERB - Dr. Keshavamurthy B.N.	796,019.97	-	200,000.00	22,840.00	1,018,859.97	756,885.00	261,974.97	-
32	Special Manpower Development Program for Chips to System Design sponsored by Central Electronics Engineering Research Institute - Dr. Nithin Kumar	722,612.02	-	1,307,864.00	56,448.00	2,086,924.02	1,227,984.00	858,940.02	-
33	Suspended functional magnetic microparticle array based point-of-care diagnostic system for multiplexed bio-molecular sensing and diagnostic sponsored by SERB - Dr. Prasanth G.R.	622,800.17	-	-	22,620.00	645,420.17	562,061.00	83,359.17	-
34	Visvesvaraya Phd Scheme for Electronics and IT -(Batch 2014-15) sponsored by Media Lab Asia -Dr. Nithin Kumar Y.B.	24,004.23	-	538,868.00	9,040.00	571,912.23	547,323.00	24,589.23	-
35	Visvesvaraya Phd Scheme for Electronics and IT - (Batch 2015-16) sponsored by Media Lab Asia -Dr. Nithin Kumar Y.B.	404,962.25	-	1,080,609.00	33,422.00	1,519,023.25	1,176,515.00	342,508.25	-
36	Funds for Workshop - Central Electronics Engineering Research Institute(CEERI)	124,429.00	-	-	5,865.00	130,294.00	-	130,294.00	-
37	Grant for Conducting Workshop & Seminar Under PMMMNMTT Scheme sponsored by MHRD - Dr. Venkatanarashibabu K.	170,391.38	-	-	7,941.00	178,332.38	-	178,332.38	-
	<b>Total</b>	<b>24,187,173.26</b>	<b>-</b>	<b>17,646,628.00</b>	<b>1,072,327.00</b>	<b>42,906,128.26</b>	<b>18,829,824.60</b>	<b>24,076,303.66</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, 2020**

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

1. Sr. No.	2. Name of the Sponsor	Amount in Rupees					
		Opening Balance as on 01.04.2019		Transactions during the year		Closing Balance as on 31.03.2020	
		3. Credit	4. Debit	5. Credit	6. Debit	7. Credit	8. Debit
1	Scholarship EDCIL (India) Ltd.	-	-	-	-	-	-
2	Scholarship from Ministry of Tribal Affairs	-	-	4,200.00	4,200.00	-	-
3	Scholarship from Ministry of Social Justice	1,215,900.00	-	81,600.00	1,162,620.00	134,880.00	-
4	Scholarship Govt. of Madhya Pradesh	-	-	97,699.00	32,833.00	64,866.00	-
5	Inspire Fellowship-Dept. of Science & Technology	2,833.00	-	1,587.00	-	4,420.00	-
	Bank Interest	3.00	-	19,997.00	-	20,000.00	-
	Contingency	122,115.00	-	398,149.00	390,000.00	130,264.00	-
	Fellowship	19,538.00	-	62,702.00	62,400.00	19,840.00	-
	H.R.A.	-	-	-	-	-	-
6	Other Scholarships	-	-	-	-	-	-
	<b>Total</b>	<b>1,360,389.00</b>	<b>-</b>	<b>665,934.00</b>	<b>1,652,053.00</b>	<b>374,270.00</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, 2020**

**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		909,476,187.79
Add: Receipts during the year	975,143,316.01	206,900,000.00
Add: Interest earned during the year	127,867,000.00	56,150,784.00
	38,010,320.00	
<b>Total (a)</b>	<b>1,141,020,636.01</b>	<b>1,172,526,971.79</b>
Less: Refunds	-	-
Less: Utilized for General Revenue Expenditure - 3	92,099,585.52	85,882,480.78
Less: Utilized for Capital Expenditure - 35	37,811,130.00	5,758,049.00
Less: Utilized for Salaries Expenditure - 36	114,594,451.00	105,743,126.00
<b>Total (b)</b>	<b>244,505,166.52</b>	<b>197,383,655.78</b>
<b>Unutilized Carried Forward (a-b)</b>	<b>896,515,469.49</b>	<b>975,143,316.01</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>896,515,469.49</b>	<b>975,143,316.01</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, 2020

S.No.	Assets Heads	GROSS BLOCK			DEPRECIATION			Amount in Rupees		
		Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Depreciation for the Year	Deductions/Adjustment	Total Depreciation as on 31.03.2020	NET BLOCK
1	Land	-	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-	-
4	Roads & Bridges	-	-	-	-	-	-	-	-	-
5	Tubewells & Water Supply	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-
7	Electrical Installation and equipment	839,657.50	-	-	839,657.50	259,049.00	41,985.00	-	301,034.00	538,623.50
8	Plant & Machinery	10,042,352.99	1,732,127.00	-	11,774,459.99	1,529,980.00	588,728.00	-	2,118,708.00	9,655,751.99
9	Scientific & Laboratory Equipment	35,166,024.35	13,900,428.00	-	49,066,452.35	9,146,829.00	3,925,312.00	-	13,072,141.00	35,994,311.35
10	Office Equipment	567,264.00	438,500.00	-	1,005,764.00	165,091.00	75,434.00	-	240,525.00	765,239.00
11	Audio Visual Equipment	4,255,548.25	499,801.00	-	4,755,350.25	1,256,074.00	356,855.00	-	1,612,729.00	3,142,621.25
12	Computers & Peripherals	34,896,669.73	9,259,097.00	-	43,854,766.73	28,340,879.73	5,015,068.00	-	31,355,947.73	12,598,819.00
13	Furniture, Fixtures & Fittings	23,087,327.87	1,874,579.00	-	24,961,906.87	8,338,556.00	1,872,160.00	-	10,210,716.00	14,748,771.87
14	Vehicles	3,214,129.00	-	-	3,214,129.00	1,111,715.00	321,414.00	-	1,433,129.00	1,781,000.00
15	Library Books & Scientific Journals	4,397,812.51	720,878.00	-	5,118,690.51	2,601,848.00	511,867.00	-	3,113,715.00	2,004,975.51
16	Small Value Assets	1,176,171.58	68,412.00	-	1,244,583.58	1,176,088.58	68,409.00	-	1,244,497.58	86.00
	<b>Total (A)</b>	<b>117,442,938.78</b>	<b>28,492,822.00</b>	<b>-</b>	<b>145,935,760.78</b>	<b>51,926,110.31</b>	<b>12,777,032.00</b>	<b>-</b>	<b>64,703,142.31</b>	<b>81,232,618.47</b>
17	Capital Work in Progress (B)	757,360.00	2,317,242.00	-	3,074,602.00	-	-	-	-	3,074,602.00
	<b>Total (A+B)</b>	<b>118,200,298.78</b>	<b>30,810,064.00</b>	<b>-</b>	<b>149,010,362.78</b>	<b>51,926,110.31</b>	<b>12,777,032.00</b>	<b>-</b>	<b>64,703,142.31</b>	<b>84,307,220.47</b>
Sr.No	Intangible Assets	Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Amortization for the year	Deductions/Adjustment	Total Amortizations/Adjustments as on 31.03.2020	NET BLOCK
19	E-journals (perpetual)	825,154.00	-	-	825,154.00	825,153.00	-	-	825,153.00	1.00
19	Computer software	17,034,326.00	10,330,846.00	-	27,365,172.00	16,300,847.00	4,818,090.00	-	21,118,937.00	6,246,235.00
20	Patents & Copyrights	229,220.00	90,500.00	-	319,720.00	43,310.00	35,526.00	-	78,836.00	240,884.00
	<b>Total (C)</b>	<b>18,088,700.00</b>	<b>10,421,346.00</b>	<b>-</b>	<b>28,510,046.00</b>	<b>17,169,310.00</b>	<b>4,853,616.00</b>	<b>-</b>	<b>22,022,925.00</b>	<b>6,487,120.00</b>
	<b>Grand Total (A+B+C)</b>	<b>136,289,018.78</b>	<b>41,231,410.00</b>	<b>-</b>	<b>177,520,428.78</b>	<b>69,095,420.31</b>	<b>17,630,648.00</b>	<b>-</b>	<b>86,726,068.31</b>	<b>90,794,360.47</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 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Depreciation for the Year	Deductions/Adjustment	Total Depreciation as on 31.03.2020	31.03.2020	31.03.2019
1	Land	-	-	-	-	-	-	-	-	-	-
2	Site Development	-	-	-	-	-	-	-	-	-	-
3	Buildings	-	-	-	-	-	-	-	-	-	-
4	Roads & Bridges	-	-	-	-	-	-	-	-	-	-
5	Tube wells & Water Supply	-	-	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	-	-	-	-	-	-	-	-	-	-
7	Electrical installations and equipments	839,657.50	1,732,127.00	-	839,657.50	259,049.00	41,985.00	-	301,034.00	538,623.50	580,608.50
8	Plant and Machinery	10,042,332.98	11,774,459.99	-	11,774,459.99	1,529,980.00	588,728.00	-	2,118,708.00	9,655,751.99	8,512,352.99
9	Scientific & Lab. Equipments	22,110,724.60	10,812,857.00	-	32,923,581.60	7,348,386.00	2,633,887.00	-	9,982,285.00	22,941,296.60	14,762,326.60
10	Office Equipments	567,264.00	438,500.00	-	1,005,764.00	165,091.00	75,434.00	-	240,525.00	765,239.00	402,173.00
11	Audio Visual Equipment	4,265,549.25	499,801.00	-	4,765,350.25	1,296,074.00	366,655.00	-	1,612,729.00	3,142,621.25	2,999,475.25
12	Computer and Peripherals	30,726,860.73	8,925,388.00	-	39,652,248.73	24,601,115.73	4,154,565.00	-	28,755,680.73	10,896,568.00	6,125,745.00
13	Furniture, Fixtures & Fittings	23,087,327.87	1,874,579.00	-	24,961,906.87	8,338,556.00	1,872,160.00	-	10,210,716.00	14,751,190.87	14,748,771.87
14	Vehicles	3,214,129.00	-	-	3,214,129.00	1,111,715.00	321,414.00	-	1,433,129.00	1,781,000.00	2,102,414.00
15	Library Books & Scientific Journals	4,318,424.51	720,878.00	-	5,039,302.51	2,585,968.00	503,927.00	-	3,089,895.00	1,949,407.51	1,732,466.51
16	Small Value Assets	1,176,171.58	68,412.00	-	1,244,583.58	1,176,088.58	68,409.00	-	1,244,497.58	86.00	83.00
	<b>Total (A)</b>	<b>100,338,442.03</b>	<b>25,072,542.00</b>	-	<b>125,410,984.03</b>	<b>48,372,035.31</b>	<b>10,617,164.00</b>	-	<b>58,989,199.31</b>	<b>66,421,784.72</b>	<b>51,966,406.72</b>
17	Capital Work in Progress (B)	757,380.00	2,317,242.00	-	3,074,622.00	-	-	-	-	3,074,622.00	757,380.00
	<b>Total</b>	<b>101,095,822.03</b>	<b>27,389,784.00</b>	-	<b>128,485,606.03</b>	<b>48,372,035.31</b>	<b>10,617,164.00</b>	-	<b>58,989,199.31</b>	<b>69,496,406.72</b>	<b>52,722,787.72</b>
Sr.No	Intangible Assets	Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Amortization for the year	Deductions/Adjustment	Total Amortizations/Adj ustments as on 31.03.2020	31.03.2020	31.03.2019
18	E-journals (perpetual)	825,154.00	-	-	825,154.00	825,153.00	-	-	825,153.00	1.00	1.00
19	Computer software	16,339,814.00	10,330,846.00	-	26,670,660.00	15,840,662.00	4,931,477.00	-	20,472,139.00	6,198,521.00	499,152.00
20	Patents & Copyrights	204,020.00	90,500.00	-	294,520.00	40,510.00	32,726.00	-	73,236.00	221,284.00	163,510.00
	<b>Total (C)</b>	<b>17,368,988.00</b>	<b>10,421,346.00</b>	-	<b>27,790,334.00</b>	<b>16,706,325.00</b>	<b>4,664,203.00</b>	-	<b>21,370,528.00</b>	<b>6,419,806.00</b>	<b>662,663.00</b>
	<b>Grand Total (A+B+C)</b>	<b>118,464,810.03</b>	<b>37,811,130.00</b>	-	<b>156,275,940.03</b>	<b>65,078,360.31</b>	<b>15,281,367.00</b>	-	<b>80,359,727.31</b>	<b>75,916,212.72</b>	<b>53,386,449.72</b>





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SCHEDULES 4 (b) FIXED ASSETS NON - PLAN

S.No.	Assets Heads	GROSS BLOCK			DEPRECIATION				Amount in Rupees NET BLOCK		
		Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Depreciation for the Year	Deductions/Adjustment	Total Depreciation as on 31.03.2020	31.03.2020	31.03.2019
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, Pictures & 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 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Amortization for the year	Deductions/Adjustment	Total Amortizations/Adjustments as on 31.03.2020	31.03.2020	31.03.2019
18	E-journals (perpetual)										
19	Computer software										
20	Patents & Copyrights										
	Total (C)										
	Grand Total (A+B+C)										





NATIONAL INSTITUTE OF TECHNOLOGY GOA  
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SCHEDULE 4C - INTANGIBLE ASSETS

Sr.No	Assets Heads	Amount in Rupees									
		Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Amortization for the year	Deductions / Adjustment	Total Amortizations/Adjustments as on 31.03.2020	31.03.2020	31.03.2019
1	E-journals (perpetual)	825,154.00	-	-	825,154.00	825,153.00	-	825,153.00	1.00	1.00	1.00
2	Computer software	16,339,814.00	10,330,846.00	-	26,670,660.00	15,840,662.00	-	20,472,139.00	6,198,521.00	499,152.00	499,152.00
3	Patents & Copyrights	204,020.00	90,500.00	-	294,520.00	40,510.00	-	32,725.00	221,284.00	163,510.00	163,510.00



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

Particulars	Amount in Rupees									
	Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Amortization for the year	Deductions/Adjustment	Total Amortization/ Adjustments as on 31.03.2020	31.03.2020	31.03.2019
A. Patents Granted										
1 Balance as on 31.03.2020 of Patents obtained in 2008-09 (Original Value Rs. .... /-)	-	-	-	-	-	-	-	-	-	-
2 Balance as on 31.03.2020 of Patents obtained in 2010-11 (Original Value Rs. .... /-)	-	-	-	-	-	-	-	-	-	-
3 Balance as on 31.03.2020 of Patents obtained in 2012-13 (Original Value Rs. .... /-)	-	-	-	-	-	-	-	-	-	-
4 Patents granted during the Current Year	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-
B. Patents Pending in respect of Patents applied for										
1 Expenditure incurred during 2016-17	23,520.00	-	-	23,520.00	10,455.00	2,614.00	-	13,069.00	10,451.00	13,065.00
2 Expenditure incurred during 2017-18	90,000.00	-	-	90,000.00	19,999.00	10,000.00	-	29,999.00	60,001.00	70,001.00
3 Expenditure incurred during 2018-19	90,500.00	-	-	90,500.00	10,056.00	10,056.00	-	20,112.00	70,388.00	80,444.00
4 Expenditure incurred during 2019-20	-	90,500.00	-	90,500.00	-	10,056.00	-	10,056.00	80,444.00	-
<b>Total</b>	<b>204,020.00</b>	<b>90,500.00</b>	<b>-</b>	<b>294,520.00</b>	<b>40,510.00</b>	<b>32,726.00</b>	<b>-</b>	<b>73,236.00</b>	<b>221,284.00</b>	<b>163,510.00</b>
<b>C. Grand Total (A+B)</b>	<b>204,020.00</b>	<b>90,500.00</b>	<b>-</b>	<b>294,520.00</b>	<b>40,510.00</b>	<b>32,726.00</b>	<b>-</b>	<b>73,236.00</b>	<b>221,284.00</b>	<b>163,510.00</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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S.No.	Assets Heads	GROSS BLOCK				DEPRECIATION				Amount in Rupees NET BLOCK	
		Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance as on 01.04.2019	Depreciation for the Year	Deductions / Adjustment	Total Depreciation as on 31.03.2020	31.03.2020	31.03.2019
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	13,055,299.75	3,087,571.00	-	16,142,870.75	1,798,431.00	1,291,425.00	-	3,089,856.00	13,053,014.75	11,256,866.75
9	Scientific & Laboratory Equipment	-	-	-	-	-	-	-	-	-	-
10	Office Equipment	-	-	-	-	-	-	-	-	-	-
11	Audio Visual Equipment	3,969,809.00	332,709.00	-	4,302,518.00	1,739,764.00	860,503.00	-	2,600,267.00	1,702,251.00	2,230,045.00
12	Computers & Peripherals	-	-	-	-	-	-	-	-	-	-
13	Furniture, Fixtures & Fittings	-	-	-	-	-	-	-	-	-	-
14	Vehicles	-	-	-	-	-	-	-	-	-	-
15	Library Books & Scientific Journals	79,388.00	-	-	79,388.00	15,880.00	7,940.00	-	23,820.00	55,568.00	63,508.00
16	Small Value Assets	-	-	-	-	-	-	-	-	-	-
	Total (A)	17,104,496.75	3,420,280.00	-	20,524,776.75	3,554,075.00	2,159,868.00	-	5,713,943.00	14,810,833.75	13,550,421.75
17	Capital Work in Progress (B)	-	-	-	-	-	-	-	-	-	-
	Total (A+B)	17,104,496.75	3,420,280.00	-	20,524,776.75	3,554,075.00	2,159,868.00	-	5,713,943.00	14,810,833.75	13,550,421.75
Sr.No	Intangible Assets	Opening Balance as on 01.04.2019	Additions	Deductions	Closing Balance as on 31.03.2020	Depreciation Opening Balance	Amortization for the year	Deductions / Adjustment	Total Amortization/ Adjustments	31.03.2020	31.03.2019
18	E-journals (perpetual)	-	-	-	-	-	-	-	-	-	-
19	Computer software	694,512.00	-	-	694,512.00	460,185.00	186,613.00	-	646,798.00	47,714.00	234,327.00
20	Patents & Copyrights	25,200.00	-	-	25,200.00	2,800.00	2,800.00	-	5,600.00	19,600.00	22,400.00
	Total (C)	719,712.00	-	-	719,712.00	462,985.00	189,413.00	-	652,398.00	67,314.00	256,727.00
	Grand Total (A+B+C)	17,824,208.75	3,420,280.00	-	21,244,488.75	4,017,060.00	2,349,281.00	-	6,366,341.00	14,878,147.75	13,807,148.75

Note: The Additions during the year include additions from

Gifted	-
Earmarked Funds	3,420,280.00
Sponsored Projects	37,811,130.00
Own Funds	41,231,410.00
<b>Total</b>	<b>41,231,410.00</b>



**NATIONAL INSTITUTE OF TECHNOLOGY GOA****SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2020****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>	-	-





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2020**

**SCHEDULE 7 - CURRENT ASSETS**

	Amount in Rupees	
	Current Year	Previous Year
<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>		
a) Cash in Hand		
Cash	190.00	-
b) With Scheduled Banks:		
-In Current Accounts	-	-
-In Term Deposits Accounts	927,643,298.00	1,218,343,298.00
-In Savings Accounts	43,847,790.37	72,287,772.21
c) With Non - Scheduled Banks:		
-In Term Deposits Accounts	-	-
-In Savings Accounts	-	-
<b>4. Post Office Savings Accounts</b>		
<b>TOTAL</b>	<b>971,491,278.37</b>	<b>1,290,631,070.21</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	612,079.08	194,221.37
Corp. Bank CSAB/CCMT A/c No. SB/01/2538-520101026778293	35,684.00	1,454,780.00
Corp. Bank -NITGOARC-SB/01/4333-520101026782665	16,822.00	167,023.00
Corp. Bank Mis. A/c No. SB/01/1915-520101026774476	7,111.28	504,471.28
Corp. Bank NIT Plan A/c No. SB/01/4363-520101026782843	27,245.00	367,414.00
Corp. Bank NIT Plan A/c No. SB/01/4284-520101026782460	125,542.00	-
Corp. Bank Hostel A/c No. SB/01/1250-520101026768530	4,575,638.01	4,831,400.01
Corp. Bank NIT Plan A/c No. SB/000653-520101026763067	2,483,551.64	31,395,748.05
Corp Bank SB - Director NIT GOA Fees A/c No. 520101253886322	6,353,675.44	5,322,243.78
Corporation Bank - NIT Goa Projects Overhead PDA SB A/c. No. - 520101252614922	5,154.00	-
Corporation Bank SB/01/003573-520101026780557	29,605,287.92	28,050,470.72
<b>II. Current Account</b>		
<b>III. Term Deposits with Schedule Banks</b>		
Investment A/c. No. 160058 (CB)-530401087495997	672,405.00	672,405.00
Investment A/c. No. KCC/01/170012-530401087497108	5,359,295.00	5,359,295.00
Investment A/c. No. KCC/01/170013-530401087497159	5,359,295.00	5,359,295.00
Investment A/c. No. KCC/01/170015-530401087497132	3,751,507.00	3,751,507.00
Investment A/c. No. KCC/01/170016- 530401087497140	4,287,436.00	4,287,436.00
Investment A/c. No. KCC/01/170017-530401087497116	5,359,295.00	5,359,295.00
Investment A/c No. 530401024338681	-	9,900,000.00
Investment A/c No. 530401024338896	9,900,000.00	9,900,000.00
Investment A/c No. 530401024338964	9,900,000.00	9,900,000.00
Investment A/c No. 530401024339022	9,900,000.00	9,900,000.00
Investment A/c No. 530401024339107	9,900,000.00	9,900,000.00
Investment A/c No. -530401024339169	9,900,000.00	9,900,000.00
Investment A/c No. 530401024339282	9,900,000.00	9,900,000.00
Investment A/c No. 530401024339404	9,900,000.00	9,900,000.00
Investment A/c No. 530401024339459	9,900,000.00	9,900,000.00
Investment A/c No. -530401024339596	9,900,000.00	9,900,000.00







	Current Year	Previous Year
Investment A/c No.530401024339695	9,900,000.00	9,900,000.00
Investment A/c No.530401024339770	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339824	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339879	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339886	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339961	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339992	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340073	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340097	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340172	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340202	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340271	9,900,000.00	9,900,000.00
Investment A/c No.530401024340288	9,900,000.00	9,900,000.00
Investment A/c No.530401024340318	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340325	9,900,000.00	9,900,000.00
Investment A/c No.530401024340394	9,900,000.00	9,900,000.00
Investment A/c No.530401024340462	9,900,000.00	9,900,000.00
Investment A/c No.530401024340516	9,900,000.00	9,900,000.00
Investment A/c No.530401024340561	9,900,000.00	9,900,000.00
Investment A/c No.530401024340646	9,900,000.00	9,900,000.00
Investment A/c No.530401024340653	9,900,000.00	9,900,000.00
Investment A/c No.530401024340738	9,900,000.00	9,900,000.00
Investment A/c No.530401024340745	9,900,000.00	9,900,000.00
Investment A/c No.530401024340752	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340783	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340790	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340806	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340851	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340875	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340905	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340943	9,900,000.00	9,900,000.00
Investment A/c No.530401024340967	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340974	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340981	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341018	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341025	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341049	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341063	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341087	9,900,000.00	9,900,000.00
Investment A/c No.530401024341094	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341131	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341179	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341186	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341223	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341247	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341285	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341308	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341377	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341384	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341391	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341445	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341489	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341490	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341513	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341537	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341599	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341643	9,900,000.00	9,900,000.00
Investment A/c No.530401024342312-DASA A/c	6,000,000.00	6,000,000.00
Investment A/c. No.530401041264567-DASA	6,600,000.00	-
Investment A/c. No. 530401024342527-Hostel Dev. Fund	127,600.00	127,600.00
Investment A/c No.-530401024342695-Misc. Fines	700,000.00	700,000.00
Investment A/c No.-530401024342749	700,000.00	700,000.00
Investment A/c No.-530401024342800-Institute Dev. Fund	6,281,652.00	6,281,652.00





	Current Year	Previous Year
Investment A/c No.-530401024747353	-	9,900,000.00
Investment A/c No.-530401024748299	-	9,900,000.00
Investment A/c No.-530401024749760	-	9,900,000.00
Investment A/c No.-530401024750537	-	9,900,000.00
Investment A/c No.-530401024751923	-	9,900,000.00
Investment A/c No.-530401024752067	-	9,900,000.00
Investment A/c No.-530401024752180	-	9,900,000.00
Investment A/c No.-530401024752333	-	9,900,000.00
Investment A/c No.-530401024752579	-	9,900,000.00
Investment A/c No.-530401024752678	-	9,900,000.00
Investment A/c No.-530401024752999	-	9,900,000.00
Investment A/c No.-530401024753149	9,900,000.00	9,900,000.00
Investment A/c No.-530401024753965	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754153	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754375	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754528	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754672	-	9,900,000.00
Investment A/c No.-530401024754825	-	9,900,000.00
Investment A/c No.530401028802232	-	9,900,000.00
Investment A/c No.530401028802249	-	9,900,000.00
Investment A/c No.530401028839597	-	9,900,000.00
Investment A/c No.530401028839771	-	9,900,000.00
Investment A/c No.530401028839894	-	9,900,000.00
Investment A/c No.530401028840173	-	9,900,000.00
Investment Ac. no. -530401087496624	31,150,150.00	31,150,150.00
Investment Ac. no. -530401087496632	31,794,663.00	31,794,663.00
Investment A/c. No.530101343585110	-	9,900,000.00
Investment A/c. No.530101343585527	-	9,900,000.00
Investment A/c. No.530101343585554	-	9,900,000.00
Investment A/c. No.530101343585581	9,900,000.00	9,900,000.00
Investment A/c. No.-530101343585615	-	9,900,000.00
Investment A/c No.-530401034272234	-	9,900,000.00
Investment A/c No.-530401034272401	-	9,900,000.00
Investment A/c No.-530401034272470	-	9,900,000.00
Investment A/c No.-530401034272579	-	9,900,000.00
Investment A/c No.-530401034273484	9,900,000.00	9,900,000.00
Investment A/c No-530401034721428	-	9,900,000.00
Investment A/c No-530401034721558	-	9,900,000.00
Investment A/c No.-530401034721671	-	9,900,000.00
Investment A/c No.530401034721756	-	9,900,000.00
Investment A/c No.-530401035984839	-	9,900,000.00
Investment A/c No.-530401035985140	-	9,900,000.00
Investment A/c No.-530401035985393	-	9,900,000.00
Investment A/c No.-530401035985645	-	9,900,000.00
Investment A/c No.-530401035985904	-	9,900,000.00
Investment A/c No.-530401036091840	9,000,000.00	9,000,000.00
Investment A/c No.-530401036092069	7,000,000.00	7,000,000.00
Investment A/c No.-530401036092236	7,000,000.00	7,000,000.00
Investment A/c No.-530401036092502	4,000,000.00	4,000,000.00
Investment A/c No.530401041263577	15,000,000.00	-
Investment A/c. No. - 530401041263874	15,000,000.00	-
Investment A/c No.-530401041264000 - Misc. Fines	1,000,000.00	-
Investment A/c No.530401041264291-Alumni	400,000.00	-
Investment A/c No.530401041264369-CSAB	1,500,000.00	-
Investment A/c. No.530401041264482 - Hostel	6,000,000.00	-
Investment A/c No.530401041288792	15,000,000.00	-
Investment A/c. No. - 530401041288907	15,000,000.00	-
Investment A/c. No. - 530401041308322	10,000,000.00	-
Investment A/c. No.-KCC 530401721030914	800,000.00	800,000.00
<b>Total</b>	<b>971,491,088.37</b>	<b>1,290,631,070.21</b>





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF BALANCESHEET AS AT 31ST, MARCH, 2020**

**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	20,000.00	20,000.00
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	349,916,351.00		4,390,311.00	
b) to Suppliers	99,857.50		4,212,935.00	
c) Others (Sub Schedule 7)	-	350,016,208.50	400,000.00	9,003,246.00
4. Prepaid Expenses				
a) Insurance	-		-	
b) Other Expenses (Sub Schedule 7)	7,591,986.00	7,591,986.00	8,629,327.00	8,629,327.00
5. Deposits				
a) Telephone (Sub Schedule 8)	-		-	
b) Lease Rent (Sub Schedule 8)	75,000.00		75,000.00	
c) Electricity	-		-	
d) AICTE, if applicable	-		-	
e) Others (to be Specified)	-	75,000.00	-	75,000.00
6. Income Accrued:				
a) On Investments from earmarked/endow. Funds	-		-	
b) On Investments - others (Sub Schedule 7)	35,069,191.70		39,782,941.70	
c) On Loans and Advances	-		-	
d) Others (Includes Income due unrealised Rs...)	-	35,069,191.70	-	39,782,941.70
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		9,415.00		1,875.00
<b>TOTAL</b>		<b>392,796,801.20</b>		<b>57,512,389.70</b>





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR**  
**ENDED 31ST, MARCH, 2020**

**SCHEDULE 9 - ACADEMIC RECEIPTS**

	Amount in Rupees	
	Current Year	Previous Year
<b>FEES FROM STUDENTS</b>		
<b>Academic</b>		
1. Tuition fee	37,611,836.00	30,591,181.98
2. Admission fee	20,000.00	22,000.00
3. Enrolment fee	-	-
4. Library Admission fee	-	-
5. Laboratory fee	-	-
6. Art & Craft fee	-	-
7. Registration fee	-	-
8. Syllabus fee	-	-
9. Other Fee	1,998,000.00	1,756,000.00
10. Application Fee	47,900.00	98,600.00
<b>Total (A)</b>	<b>39,677,736.00</b>	<b>32,467,781.98</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	134,026.00	95,067.00
3. Medical fee	-	-
4. Transportation fee	-	-
5. Hostel fee	1,765,611.00	1,551,684.00
<b>Total(C)</b>	<b>1,899,637.00</b>	<b>1,646,751.00</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	124,500.00	155,000.00
2. Registration fees (Academic Staff College)	-	-
<b>Total (E)</b>	<b>124,500.00</b>	<b>155,000.00</b>
<b>GRAND TOTAL (A+B+C+D+E)</b>	<b>41,701,873.00</b>	<b>34,269,532.98</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, 2020**

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

Particulars	Amount in Rupees				
	Govt. of India	Plan		Total Plan	Non Plan UGC
		Plan	UGC Specific Schemes		
Balance B/F	975,143,316.01	-	-	975,143,316.01	909,476,187.79
Add: Receipts during the year	127,867,000.00	-	-	127,867,000.00	206,900,000.00
Add: Interest earned during the year	38,010,320.00	-	-	38,010,320.00	56,150,784.00
<b>Total</b>	<b>1,141,020,636.01</b>	<b>-</b>	<b>-</b>	<b>1,141,020,636.01</b>	<b>1,172,526,971.79</b>
Less: Refund to UGC	-	-	-	-	-
Balance	1,141,020,636.01	-	-	1,141,020,636.01	1,172,526,971.79
Less: Utilised for Capital expenditure (A)	37,811,130.00	-	-	37,811,130.00	5,758,049.00
<b>Balance</b>	<b>1,103,209,506.01</b>	<b>-</b>	<b>-</b>	<b>1,103,209,506.01</b>	<b>1,166,768,922.79</b>
Less: Utilized for General Revenue Expenditure -31 (B)	92,099,585.52	-	-	92,099,585.52	85,882,480.78
Less: Utilized for Salaries Expenditure -36 (C)	114,594,451.00	-	-	114,594,451.00	105,743,126.00
<b>Balance C/F (D)</b>	<b>896,515,469.49</b>	<b>-</b>	<b>-</b>	<b>896,515,469.49</b>	<b>975,143,316.01</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, 2020**

**SCHEDULE 11: INCOME FROM INVESTMENTS**

Amount in Rupees  
Investment -Others

	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	-	-	23,632,191.00	18,803,026.00
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees	-	-	-	-
4. Interest on Savings Bank Accounts	363,720.00	319,538.00	-	-
5. Others (Specify)	-	-	-	-
<b>TOTAL</b>	<b>363,720.00</b>	<b>319,538.00</b>	<b>23,632,191.00</b>	<b>18,803,026.00</b>
Transferred to Earmarked / Endowment Funds	363,720.00	319,538.00	-	-
<b>Balance</b>	<b>-</b>	<b>-</b>	<b>23,632,191.00</b>	<b>18,803,026.00</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	951,565.00	456,773.11
2. On Loans		
a. Employee/Staff	-	-
b. Others	-	-
3. Interest on Debtors and Other Recoverables	-	-
<b>TOTAL</b>	<b>951,565.00</b>	<b>456,773.11</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, 2020**

**SCHEDULE 13- OTHER INCOME**

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

Particulars	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	36,000.00
4. Electricity charges recovered	-	-
5. Water charges recovered	-	-
<b>B. Sale of Institute's publications</b>	36,000.00	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	857,768.00	122,500.00
Less: Direct expenditure incurred on Workshops, Short Term courses, etc	646,905.00	122,500.00
<b>D. Others</b>		
1. Income from consultancy	-	-
2. Income from Overheads of Sponsored Projects	864,827.00	1,112,832.00
2. RTI fees	-	80.00
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	-	-
5. Misc. receipts (Sale of tender form, waste paper, etc.)	8,000.00	5,500.00
6. Profit on Sale/disposal of Assets	-	-
a. Owned assets	-	-
b. Assets received free of cost	-	-
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations	-	-





Particulars	Current Year		Previous Year	
8. Foreign Exchange Gain	7,356.00		1,826.00	
9. Recruitment Application Fees	350,509.00		302,100.00	
10. Salary in Lieu of Notice	-		509,831.00	
9. Others (specify) (Credit Balances w/off / Liquidated Damages)	278,972.00	1,509,664.00	243,200.07	2,175,369.07
<b>Total</b>		<b>1,756,527.00</b>		<b>2,211,369.07</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, 2020**

**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	Current Year		Previous Year		Total
	Plan	Non Plan	Plan	Non Plan	
	Amount in Rupees		Amount in Rupees		
a) Salaries and Wages	89,375,728.00	-	83,208,381.00	-	83,208,381.00
b) Allowances and Bonus	667,171.00	-	990,855.00	-	990,855.00
c) Contribution to Provident Fund	-	-	-	-	-
d) Contribution to Other Fund	-	-	-	-	-
e) Staff Welfare Expenses	129,333.00	-	146,715.00	-	146,715.00
d) Retirement and Terminal Benefits	19,931,382.00	-	18,303,808.00	-	18,303,808.00
g) LTC facility	1,953,060.00	-	1,563,735.00	-	1,563,735.00
h) Medical facility	1,006,889.00	-	669,244.00	-	669,244.00
i) Children Education Allowance	670,500.00	-	-	-	-
j) Honorarium	-	-	-	-	-
l) Others (Lien contribution)	860,388.00	-	860,388.00	-	860,388.00
<b>TOTAL</b>	<b>114,594,451.00</b>	<b>-</b>	<b>105,743,126.00</b>	<b>-</b>	<b>105,743,126.00</b>

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

Particulars	Amount in Rupees		Amount in Rupees		Total
	Pension	Gratuity	Leave Encashment	Total	
Opening Balance as on 01.04.2019	-	9,903,179.00	15,745,657.00	-	25,648,836.00
Addition : Capitalized value of Contributions Received from other Organizations	-	-	-	-	-
Total (a)	-	9,903,179.00	15,745,657.00	-	25,648,836.00
Less: Actual Payment during the Year (b)	-	-	421,564.00	-	421,564.00
<b>Balance Available on 31.03.2020 c (a-b)</b>	-	9,903,179.00	15,324,093.00	-	25,227,272.00
Provision required on 31.03.2020 as per Actuarial Valuation (d)	-	11,510,065.00	24,459,676.00	-	35,969,741.00
A. Provision to be made in the Current year (d - c)	-	1,606,886.00	9,135,583.00	-	10,742,469.00
B. Contribution to New Pension Scheme	-	-	-	-	-
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>9,188,913.00</b>

Note:

1. The total (A+B+G+D+E).in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.
2. 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, 2020**

**SCHEDULE 16- ACADEMIC EXPENSES**

Particulars	Amount in Rupees					
	Current Year		Previous Year		Total	
	Plan	Non Plan	Plan	Non Plan	Plan	Total
a) Laboratory expenses	263,905.00	-	589,324.00	-	589,324.00	589,324.00
b) Field work/Participation in Conferences	-	-	-	-	-	-
c) Expenses on Seminars/Workshops	-	-	-	-	-	-
d) Payment to visiting faculty	580,000.00	-	871,367.00	-	871,367.00	871,367.00
e) Examination	61,203.00	-	16,490.00	-	16,490.00	16,490.00
f) Student Welfare expenses	1,273,661.00	-	1,227,252.00	-	1,227,252.00	1,227,252.00
g) Admission expenses	-	-	-	-	-	-
h) Convocation expenses	1,511,006.00	-	1,961,718.00	-	1,961,718.00	1,961,718.00
i) Publications	-	-	-	-	-	-
j) Stipend/means-cum-merit scholarship	34,649,160.00	-	28,520,370.00	-	28,520,370.00	28,520,370.00
k) Subscription Expenses	1,704,375.00	-	4,871,250.00	-	4,871,250.00	4,871,250.00
l) Others (specify)	-	-	-	-	-	-
<b>TOTAL</b>	<b>40,043,310.00</b>	<b>-</b>	<b>38,057,771.00</b>	<b>-</b>	<b>38,057,771.00</b>	<b>38,057,771.00</b>

**SCHEDULE 17- ADMINISTRATIVE AND GENERAL EXPENSES**

Particulars	Amount in Rupees					
	Current Year		Previous Year		Total	
	Plan	Non Plan	Plan	Non Plan	Plan	Total
<b>A. Infrastructure</b>						
a) Electricity and power	2,405,302.00	-	779,645.00	-	779,645.00	779,645.00
b) Water charges	229,257.00	-	260,262.00	-	260,262.00	260,262.00
c) Insurance	-	-	-	-	-	-
d) Rent, Rates and Taxes (including property tax)	1,033,245.00	-	868,700.00	-	868,700.00	868,700.00
<b>B. Communication</b>						
e) Postage and Stationery	25,179.00	-	40,833.00	-	40,833.00	40,833.00
f) Telephone, Fax and Internet Charges	1,756,535.00	-	1,680,453.00	-	1,680,453.00	1,680,453.00





Particulars	Current Year		Previous Year	
	Plan	Non Plan	Plan	Non Plan
<b>C. Others</b>				
g) Printing and Stationery (consumption)	1,843,379.00	-	1,843,379.00	-
h) Travelling and Conveyance Expenses	2,159,317.00	-	2,159,317.00	-
i) Hospitality	589,407.00	-	589,407.00	-
j) Auditors Remuneration	354,990.00	-	354,990.00	-
k) Professional Charges	11,800.00	-	11,800.00	-
l) Advertisement and Publicity	420,840.00	-	420,840.00	-
m) Magazines & Journals	22,672.00	-	22,672.00	-
n) Staff Recruitment/Training Expenses	23,519.00	-	23,519.00	-
o) Medical Expenses	238,672.00	-	238,672.00	-
p) Seed Money / PDA Expenses	1,584,834.00	-	1,584,834.00	-
q) Security Expenses	9,192,912.00	-	9,192,912.00	-
r) Membership	-	-	-	-
s) Foreign Exchange Loss	34,868.77	-	34,868.77	-
t) Labour & Processing Charges	-	-	-	-
u) Miscellaneous Expenses	200,544.00	-	200,544.00	-
<b>TOTAL</b>	<b>22,127,272.77</b>	<b>-</b>	<b>22,127,272.77</b>	<b>-</b>

## Amount in Rupees

## SCHEDULE 18-TRANSPORTATION EXPENSES

Particulars	Current Year		Previous Year	
	Plan	Non Plan	Plan	Non Plan
<b>1 Vehicles (owned by institution)</b>				
a) Running expenses	272,187.00	-	272,187.00	-
b) Repairs & maintenance	78,542.00	-	78,542.00	-
c) Insurance expenses	33,727.00	-	33,727.00	-
<b>2 Vehicles taken on rent/lease</b>				
a) Rent/lease expenses	1,345,166.00	-	1,345,166.00	-
<b>3 Vehicle (Taxi) hiring expenses</b>				
	109,690.00	-	109,690.00	-
<b>TOTAL</b>	<b>1,839,312.00</b>	<b>-</b>	<b>1,839,312.00</b>	<b>-</b>





**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR PERIOD/YEAR ENDED 31ST, MARCH, 2020**

**SCHEDULE 19- REPAIRS & MAINTENANCE**

Particulars	Amount in Rupees					
	Current Year		Previous Year		Total	
	Plan	Non Plan	Plan	Non Plan	Plan	Total
a) Buildings	11,283,951.00	-	15,460,812.00	-	15,460,812.00	
b) Furniture & Fixtures	219,594.00	-	163,376.00	-	163,376.00	
c) Plant & Machinery	-	-	-	-	-	
d) Office Equipment	1,416,288.00	-	371,689.00	-	371,689.00	
e) Computers (including Software)	4,045,589.00	-	3,207,954.00	-	3,207,954.00	
f) Laboratory & Scientific equipment	-	-	-	-	-	
g) Audio Visual equipment	-	-	-	-	-	
h) Cleaning Material & Services	10,614,691.00	-	7,532,070.00	-	7,532,070.00	
i) Book binding charges	-	-	-	-	-	
j) Gardening	-	-	-	-	-	
k) Estate Maintenance	-	-	-	-	-	
l) Others (Specify)	470,841.00	-	632,224.00	-	632,224.00	
<b>Total</b>	<b>28,050,954.00</b>	<b>-</b>	<b>27,368,125.00</b>	<b>-</b>	<b>27,368,125.00</b>	

**SCHEDULE 20- FINANCE COSTS**

Particulars	Amount in Rupees					
	Current Year		Previous Year		Total	
	Plan	Non Plan	Plan	Non Plan	Plan	Total
a) Bank charges	39,491.95	-	13,181.63	-	13,181.63	
b) Others (specify)	-	-	-	-	-	
<b>Total</b>	<b>39,491.95</b>	<b>-</b>	<b>13,181.63</b>	<b>-</b>	<b>13,181.63</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		Previous Year	
	Plan	Non Plan	Plan	Total
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		Previous Year	
	Plan	Non Plan	Plan	Total
1 Establishment expenses	-	-	-	-
2 Academic expenses	-	-	-	-
3 Administrative expenses	-	-	75,049.00	75,049.00
4 Transportation expenses	-	-	-	-
5 Repairs & Maintenance	-	-	-	-
6 Other expenses (Consumables W/off)	-	-	-	-
<b>Total</b>	-	-	75,049.00	75,049.00





**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**SCHEDULES FORMING PART OF ACCOUNTS FOR PERIOD/YEAR ENDED 31ST, MARCH, 2020**

**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.

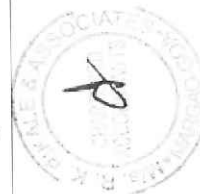
2.2 Income from Land, Buildings and Other Property and Interest on Investments are accounted on accrual basis.

**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:

<b><u>Tangible Assets:</u></b>	
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 & Peripherals	20%
13. Furniture, Fixtures & Fittings	7.5%
14. Vehicles	10%
15. Library Books & Scientific Journals	10%

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**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, Institution's share of Consultancy fees, Projects overheads 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 01.04.2019	125,527,300.68	768,220,671.77	63,839,990.56	957,587,963.01
Add: Grant Received during the year	46,600,000.00	-	81,267,000.00	127,867,000.00
Add: Interest earned during the year	6,384,963.00	29,233,343.00	2,392,014.00	38,010,320.00
Less: Expenditure during the year	92,099,585.52	37,811,130.00	114,594,451.00	244,505,166.52
Less: Advances paid/adjusted during the year	(5,438,198.50)	345,526,040.00	-	340,087,841.50
<b>Closing Balance as on 31.03.2020</b>	<b>91,850,876.66</b>	<b>414,116,844.77</b>	<b>32,904,553.56</b>	<b>538,872,274.99</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.

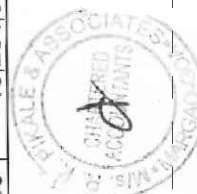
Note 2: Reconciliation of Balance of Grants as per Accounts and Utilization Certificates

Grants as per Accounts as on 31.03.2020	896,515,469.49
Less: Advances to Suppliers as per Rule 238(4) of GFR 2017	357,643,194.50
Grants as per Utilization Certificates as on 31.03.2020	<u>538,872,274.99</u>

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Note 3: The Balance of Grants of Rs.53,88,72,274.99/- as on 31.03.2020 is parked/represented in Fixed Deposits/Saving A/c. as below :

SB / Fixed Deposit No.	Principal	Interest Received	Interest Accrued	Closing Balance as on 31.03.2020
Corp. Bank NIT A/c No.SB/000653-520101026763067	2,483,551.64	1,907,780.00	-	2,483,551.64
530401024338896	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024338964	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339022	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339107	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339169	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339282	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339404	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339459	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339596	9,900,000.00	296,797.00	384,383.00	10,284,383.00





530401024339695	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339770	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339824	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339879	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339886	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339961	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024339992	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340073	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340097	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340172	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340202	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340271	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340288	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340318	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340325	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340394	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340462	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340516	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340561	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340646	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340653	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340738	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340745	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340752	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340783	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340790	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340806	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340851	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340875	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340905	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340943	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340967	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340974	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024340981	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341018	9,900,000.00	296,797.00	384,383.00	10,284,383.00



530401024341025	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341049	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341063	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341094	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341131	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341179	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341186	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341223	9,900,000.00	296,797.00	384,383.00	10,284,383.00
530401024341247	9,900,000.00	296,797.00	384,383.00	10,284,383.00
<b>Balance as on 31.03.2020</b>	<b>527,183,551.64</b>	<b>17,638,021.00</b>	<b>20,372,299.00</b>	<b>547,555,850.64</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(Pl.) 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**

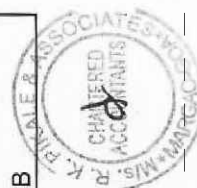
10.1 In respect of ongoing Sponsored Projects, the amounts received from sponsors are credited to the head "Current Liabilities and Provisions -Current Liabilities -Other Liabilities -Receipts against ongoing sponsored projects." As and when expenditure is incurred /advances are paid against such projects,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

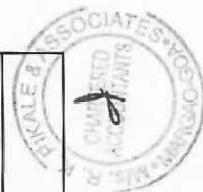
10.4 Following Projects are ongoing / completed at the institute :

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 of Virtual Power Plant	Dr-Sreeraj E.S.	SERB
10) Development of Secure Key Management Protocols for Group Communication Being Grant Received from SERB for Project Development of Secure Key Management Protocols for Group	Dr. Purushothama B.R.	SERB





11) Enhanced Automation of 3-Axis CNC Milling Machine using Computer Vision and Artificial Intelligence	Dr. Pravati Swain	SERB	
12) Energy Efficient Lighting with Visible Light based Communication & Power Line Communication	Dr. Ankit Dubey	Deaprtment of Science & Technology	
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. Sharganesh	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		Ministry of New & Renewable Energy	
19) Improved PHY and MAC Strategies for M2M Communications in Smart Grid Over Wireless and	Dr. C Vyjayanthi	SERB	
20) Secure and efficient communications inside partitioned socialoverlaynetworks	Dr. Ankit Dubey	SERB	
21) Smart City Surveillance using Decentralized Multi Camera Network	Dr. Keshavamurthy BN	SERB	
22) Designing out-of-VM Monitoring based Virtual	Dr. Badrinarayan Subudhi	SERB	
23) MonitNoise: An IoT Based Noise Level Assessment System in Urban Cities of India	Dr. Chirag Modi	SERB	
24) Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)	Dr. Trilochan Panigrahi	SERB	
25) Design and Development of efficient Grid Integrated Distributed Maximum Power Point Tracking	Dr. Amol Deodas	SERB	
26) Development of coordination control schemes for hybrid AC/DC micro grids for a stable and reliable system operation.	Dr. Suresh Mikkili	SERB	
27) Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter based Grid Connected Photovoltaic Systems	Dr. C Vyjayanthi	SERB	
	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	Deaprtment of Science & Technology
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 Stustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) -	Dr. Sunil Kumar A.	Indian Council of Social Science Research
36) Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a	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

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 MHRD

dtd 25.01.2019 and approved in Board meeting held on 01.05.2019 as below:

a) Institute Income 50%

b) Faculty & Staff Welfare 50%

**Total** 100%

Note: The Share of Institute Income will be shown as 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, 2020**

**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)

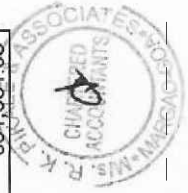
**3) FIXED ASSETS**

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. Keeping in view the very minimal IRG of NIT Goa, the appropriate window of financing the loan under HEFA is 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. 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 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 31.03.2020 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	1,942,501.00
2	CPWD, Goa	Horticulture Work for Hostel Bldg, ITI, NIT Goa	282,000.00
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	1,144,500.00
4	CPWD, Goa	Providing Split AC units in Conference hall and additional computer Lab at Hostel Bldg. of ITI for NIT	158,550.00
5	CPWD, Goa	LT Connection from ITI transformer to NIT	700,000.00
6	CPWD, Goa	Repairing structural retrofitting and upgradation of Hostel Bldg. of ITI for NIT at Farmagudi, Goa	18,581,083.00
7	CPWD, Goa	Providing & Fixing Sun Control Firm to Class Room	400,000.00
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	4,726,803.00
9	CPWD, Goa	Construction of Temporary Shed for Workshop and Drawing Class for NIT Goa	3,027,052.00
10	CPWD, Goa	Miscellaneous repair and maintenance works in temporary campus of NIT Goa	680,704.00
11	CPWD, Goa	Repairs to kitchen cum dining hall for NIT Goa Hostel Mess in GEC Campus	325,558.00
12	CPWD, Goa	Providing sun control film on windows and minor repair in temporary campus of NIT Goa	153,415.00
13	CPWD, Goa	Repairs & Painting Work of Hostels of NIT Goa in GEC Campus	5,744,191.00
14	CPWD, Goa	Aluminium Partition Work in room No.N9 for sharing room between T&P & Exam-cell for NIT Goa	181,907.00
15	CPWD, Goa	Providing additional Power Outlets for Computers in electronics lab	100,000.00
16	CPWD, Goa	Construction of 14 No. Classrooms -Civil	33,910,000.00
17	CPWD, Goa	Miscellaneous Electrical Works for additional Lab & Office Building	1,050,000.00
18	Goa State PWD	SITC 11 KV/440 Volt AC 50 Hz, 315 KVA Substation at NIT Goa	4,390,311.00
19	Goa State PWD	Providing & supplying one coat of Dr. Fixit primer for water proofing treatment at NIT Goa	261,010.00
20	Goa State PWD	Various repairs at Hostel 4 of NIT Goa	395,000.00
21	Goa State PWD	Construction of Store Room with Galvalium Sheet roof cover for mess of NIT in Boys Hostel IV in GEC Complex	238,317.00
22	Goa State PWD	Repairs to sewerage system including providing septic tank and soak pit to the sports Block of NIT Goa	327,400.00
23	Goa State PWD	Repairs to Internal wiring including additions & alterations of E type quarter (3 Nos) at NIT Farmagudi	165,930.00
24	Goa State PWD	Providing & Fixing Aluminium Partition in Lecture Hall 1A, 2D & 2B	497,542.00
25	Shri. Prashant R. Naik	Repair of D5 quarter at NIT Goa	497,808.00
26	S.P. Construction	Providing & fixing Aluminium partition in the lecture hall 2A,2C and providing Aluminium partition in the lecture hall 2A, 2C and providing fixing door closure at NIT Goa	447,946.00
27	Shri. Prashant R. Naik	Customized Electrification and other Modifications for research laboratories in D5 quarter	493,570.00
28	Shri. Prashant R. Naik	Various Repairs to mess of hostel IV of NIT Goa	1,435,146.00
29	Goa State PWD	Electrical Installation to faculty Block for NIT Goa at ITI Building	554,951.00



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	391,820.00
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	2,514,661.00
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	258,485.00
36	Shri. M. A. Doddamani	Laying out of 2 Volleyball Courts near to Hostel D3 & D4 of NIT Goa	202,742.00
37	Shri. A. G. Savaiker	Supply and Installation of Tiles at New Faculty block	103,125.00
38	Goa State PWD	Providing and Fixing wall in EEE Lab-2 in NIT Complex of NIT Goa	177,030.00
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	2,128,391.00
40	Rehan Computers	Providing Internet Connectivity to Hostels of NIT Goa	177,623.00
41	Digital Network Associates	Providing Internet Connectivity to new faculty block of NIT Goa	144,452.00
		<b>Total</b>	<b>89,035,291.00</b>

3.1 Additions in the year to Fixed Assets in Schedule 4 include Assets purchased out of Plan Funds (Rs. 37811130/-), Non-Plan Funds ( Rs. NIL ), Sponsored Projects (Rs.3420280/- ) 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 01.04.2019	Additions during the year	Total (Rs.)	Notional Depreciation Opening Bal.	Notional Depreciation for the year	Total Notional Depreciation	Total Book Value as on 31.03.2020
Laboratory Equipment	2,092,800.00	56,100.00	2,148,900.00	327,424.00	171,912.00	499,336.00	1,649,564.00
Computers & Peripherals	675,600.00	-	675,600.00	246,160.00	135,119.00	381,279.00	294,321.00
Office equipment	-	-	-	-	-	-	-
Furniture, Fixtures & Fittings	-	-	-	-	-	-	-
<b>Total</b>	<b>2,768,400.00</b>	<b>56,100.00</b>	<b>2,824,500.00</b>	<b>573,584.00</b>	<b>307,031.00</b>	<b>880,615.00</b>	<b>1,943,885.00</b>

3.3 Repairs to Buildings under Schedule 19 includes expenditure amount of Rs. 30,90,135.00/- which were paid as advance to CPWD in earlier years and have now been booked as expenditure on settlement of advances with CPWD as the ownership of Buildings at current temporary campus is not with NIT Goa.



**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**

	Current Year	Previous Year
	(Amount )	(Amount )
5.1 Value of imports calculated on C.I.F. basis:		
- Purchase of finished Goods	NIL	NIL
- Raw Materials & Components (Including in transit)	NIL	NIL
- Capital Goods	NIL	NIL
- Stores, Spares and Consumables	NIL	NIL
5.2 Expenditure in foreign currency:		
a) Travel	NIL	NIL
b) Remittances and Interest payment to financial Institutions/Banks in Foreign Currency	NIL	NIL
c) Other expenditure:		
- Online Subscription	500,965.00	3,721,271.00
- License Fee for Software/Web Edition	NIL	NIL
- Miscellaneous Expenses	NIL	NIL
5.3 Earnings:		
- Value of Exports on FOB basis	NIL	NIL
5.4 Remunerations to auditors:		
As Auditors:		
- Taxation matters	NIL	NIL
- For Management Services	NIL	NIL
- For Certification	NIL	NIL
Others (Internal Audit/C&AG Audit)	354,990.00	380,895.00

**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 Provident Fund Accounts and 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 Provident Fund Accounts as well as the New Pension Scheme for the year 2019-20 have been attached, to the Institution's Accounts. A large portion of the New Pension Scheme funds (Rs.1,42,53,951.00/-) in respect of 63 employees who have been allotted PRA numbers has been transferred up to 31.03.2020 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 2 members will be transferred in F.Y-2020-21 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	2019-20	2018-19
1	B.Tech	160	135	76	64	-	435	365
2	B.Tech DASA	9	5	5	7	-	26	20
3	M.Tech	52	40	-	-	-	92	83
4	Ph. D	20	21	20	18	6	85	69
5	Ph. D (Visvesvaraya )	0	0	1	1	1	3	4
	<b>Total</b>	<b>241</b>	<b>201</b>	<b>102</b>	<b>90</b>	<b>7</b>	<b>641</b>	<b>541</b>

**ii) No. of Professors (including Contract Faculty)**

Sr. no.	Stream	2019-20	2018-19
1	CSE	10	9
2	H&S	8	8
3	ECE	10	11
4	EEE	8	10
5	CIVIL	4	0
6	ME	4	0
	<b>Total</b>	<b>44</b>	<b>38</b>

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





iv) Collection for Sports activities and expenditure thereof		Particulars	Amount (Rs.)
Sr. no.			
1	Collection for Sports Activities		
a	Sponsorship		-
	<b>Total Collection towards Sports Activities</b>		-
2	Expenditure for Sport Activities		
a	Expenses for participating in All India NIT tournament at MNIT Jaipur from 18.12.2019 to 20.12.2019		200,658.00
b	Expenses for participating in All India NIT tournament at NIT Surathkal		27,702.00
	<b>Total Expenditure towards Sports Activities</b>		<b>228,360.00</b>

v) Collection for co-curricular activities and expenditure thereof		Particulars	Amount (Rs.)
Sr. no.			
1	Collection for Co-curricular activities		
a	Sponsorship for Techno Cultural Fest "Savayas"		-
	<b>Total Collection towards Co-curricular activities</b>		-
2	Expenditure for Co-curricular activities		
a	Expenses towards Dandiya Nights		29,617.00
b	Expenses towards Techno Cultural Fest "Savayas 2020"		470,552.00
c	Expenses towards Invictus		25,577.00
d	Expenses towards BITS Spree 2019-20		11,050.00
e	Expenses towards Ring Ceremony		285,862.00
f	Expenses towards YOGA Day		39,076.00
g	Expenses towards Independence Day and Fit India Movement 2019		12,223.00
h	Expenses towards Mahatma Gandhi Jayanti		6,378.00
i	Expenses towards Saraswati Pooja		23,439.00
j	Expenses towards Rashtriya Ekta Divas		10,241.00
k	Expenses towards Hindi Saptah 2019		52,725.00
l	Expenses towards Unnat Bharat Abhiyaan		40,503.00
m	Expenses towards Republic day celebration		19,895.00
	<b>Total Expenditure towards Co-curricular activities</b>		<b>1,027,138.00</b>

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. Sairi Reddy Parne	Associate Professor	1130009	13A2- Cell2	148100
3	Dr. Damodar Reddy Edla	Assistant Professor	1130011	12 Cell-2	107600
4	Dr. Suresh Mikkili	Assistant Professor	1130012	12 Cell-2	107600
5	Dr. Velavan Kathirvelu	Associate Professor	1130013	13A2- Cell2	148100
6	Dr. B. Venugopal Reddy	Associate Professor	1130014	13A2- Cell2	148100
7	Dr. Sarani Ghosal Mondal	Associate Professor	1130015	13A2- Cell2	148100
8	Dr. Veena Thenkanidiyoor	Associate Professor	1130016	13A2- Cell2	148100
9	Dr. Purushothama B.R.	Assistant Professor	1130022	12 Cell-2	107600
10	Dr. Ragoju Ravi	Assistant Professor	1130024	12 Cell-2	107600
11	Dr. Vasantha M.H. Rao	Associate Professor	1130032	13A2- Cell2	148100
12	Dr. Veerakumar T	Associate Professor	1130033	13A2- Cell2	148100
13	Dr. Raviprasad K J	Assistant Professor	1130034	12 Cell-2	107600
14	Dr. Anirban Chatterjee	Assistant Professor	1130035	12 Cell-2	107600
15	Dr. Nithin Kumar Y.B.	Assistant Professor	1130036	12 Cell-2	107600
16	Dr. Sree Raj E.S	Assistant Professor	1140041	12 Cell-2	107600
17	Dr. Keshavamurthy B. N.	Associate Professor	1140043	13A2- Cell2	148100
18	Dr. S. Mini	Assistant Professor	1140045	12 Cell-2	107600
19	Dr. Pravati Swain	Assistant Professor	1140064	12 Cell-2	104500
20	Dr. Venkatanareshabu Kuppili	Assistant Professor	1140065	12 Cell-2	107600
21	Dr. Trilochan Panigrahi	Associate Professor	1140066	13A2- Cell2	148100
22	Dr. Rahuikar Amol Deodas	Associate Professor	1140067	13A2- Cell2	148100
23	Dr. Modi Chirag Navinchandra	Assistant Professor	1140068	12 Cell-2	107600
24	Dr. C. Vjayanthi	Associate Professor	1140069	13A2- Cell2	148100
25	Dr. Shivanarayan Patidar	Assistant Professor	1150071	12 Cell-2	107600
26	Dr. Prashanth G. R.	Associate Professor	1150072	13A2- Cell2	148100
27	Dr. Lalat Indu Giri	Assistant Professor	1150073	12 Cell-1	101500
28	Dr. Soumitra Das	Assistant Professor	1150074	12 Cell-2	107600
29	Dr. L. Shangerganesh	Assistant Professor	1160083	12 Cell-2	107600
30	Dr. Pragati Patel	Assistant Professor	1160085	12 Cell-1	101500
31	Dr. E. Mallikarjun	Assistant Professor	1160086	11 Cell-6	82300
32	Dr. Sunil Kumar A.	Assistant Professor	1160087	12 Cell-1	101500
33	Dr. B. Santhi	Assistant Professor	1200088	11 Cell-1	68900
34	Dr. Harish N	Assistant Professor	1200089	12 Cell-1	68900
35	Dr. Hankumar Mohanan	Assistant Professor	1200090	13 Cell-1	68900
36	Dr. Prasenjit Dey	Assistant Professor	1200091	13 Cell-1	68900



12) The Student Security Deposits include Rs.444000/- 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	40	160,000.00
2	B.Tech	71	284,000.00
<b>Total</b>			<b>444,000.00</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, 2020 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  
Famagudi, Ponda-Goa 403 401

PLACE: PONDA,GOA  
DATE: 16-12-2020

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




CA ARCHANA KENKARE  
PARTNER  
MEM NO. 047463  
UDIN: 20047463AAAAAGG8578





## SUB SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST, MARCH ,2020

(Amount - Rs.)

Sub Schedule 1: Deposit from Students	Current Year	Previous Year
<b>Deposits from Students</b>		
Students Fee Refundable (B-Tech)	2,132,136.00	6,734.00
DASA Tuition Fees Refundable	68,467.48	-
Students Hostel Fee Refundable(B.Tech)	29,700.00	-
B Tech Tuition Advance Fees	1,000.00	-
<b>Security Deposit of Students</b>		
B Tech Security Deposit Refundable	1,938,000.00	1,630,000.00
M-Tech Security Deposit Refundable	449,000.00	405,000.00
PHD Security Deposit Refundable	364,000.00	300,000.00
<b>Mess Deposit</b>		
Mess Adv.	5,148,854.00	3,779,808.00
<b>Alumini Association Contribution</b>		
Alumni Association Fees	1,107,167.00	887,167.00
<b>SAC(Student Activity Centre)Fee</b>	1,459,712.99	1,189,292.99
<b>Hall Establishment Charges</b>	13,463,468.34	11,110,637.34
<b>TOTAL</b>	<b>26,161,505.81</b>	<b>19,308,639.33</b>

Sub Schedule 2: Sundry Creditors for Goods & Services	Current Year	Previous Year
<b>For Goods &amp; Services</b>		
O/s CPWD, Goa	-	897,527.50
O/s Goa Intelligence Security Service	790,352.00	-
O/s. Ideal Catering Services	764,211.00	889,829.00
Chandan Electricals	194,124.00	-
Hitachi Hi Rel Power Electronics Pvt. Ltd	103,737.00	-
Industrial Trading Company	327,804.00	-
M.A. Doddamani	55,368.00	-
Nirakar Engineering Pvt Ltd	611,923.00	-
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	388,983.00	-
Power Research & Development Consultants Pvt. Ltd.	422,472.00	-
Raamaya Technologies	256,540.00	-
Saavi and Company	35,400.00	-
Shanta Sound	412,627.00	-
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	-	45,000.00
Regalia Interiors	-	64,000.00
S.S. Traders	-	149,085.00
O/s. Computer Clinic	-	-
O/s MGM International Travels	64,301.00	189,148.00
O/s.Sai Ram Medical Stores	24,509.00	-
O/s. Sree Vinayaka Enterprises	911,638.00	778,630.00
O/s Thunder Force Pvt. Ltd.	-	654,597.00
<b>Project Creditors</b>		
Sadhale Enterprises	45,943.00	-
<b>TOTAL</b>	<b>5,669,394.00</b>	<b>3,667,816.50</b>





Sub Schedule 3: Deposits Others	Current Year	Previous Year
<b>Security Deposits</b>		
SD Swastik Prints	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	-
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	-
SD Electrovision	1,000.00	1,000.00
SD Empower Technology	30,000.00	30,000.00
SD Entuple Technologies Pvt. Ltd.	130,000.00	-
SD Goa Intelligence Security Services	480,000.00	-
SD Hotel Sanman	11,000.00	11,000.00
SD Ideal Catering Services	130,000.00	130,000.00
SD - Industrial Trading Company	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	-
SD Olympus Refrigeration Inc.	50,000.00	50,000.00
SD - Power Research & Development Consultants Pvt. Ltd.	15,000.00	-
SD Pragna Microdesign	-	29,492.00
SD Prajakt Amonkar	-	25,000.00
SD Prashant R. Naik	11,000.00	-
SD - Shanta Sound	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	-
SD- S.S.Traders	-	20,000.00
SD - Techniz Books International	21,000.00	-
SD Thunder Force Pvt. Ltd.	10,000.00	10,000.00
<b>Performance Gurantee of Supplier/Contractor</b>		
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 - Chandan Electricals	10,437.00	-
PG Digital Network Associates	7,223.00	-
PG Eagle Photonics Pvt. Ltd.	66,066.00	-
PG Entuple Technologies Pvt. Ltd.	365,800.00	-
PG - Industrial Trading Company	17,552.00	-
PG - JSK Lab Instruments	10,500.00	-
PG Kalika Enterprises	9,784.00	-
PG M.A. Doddamani	10,137.00	21,273.00
PG Mastersoft ERP Solutions Pvt. Ltd.	162,191.00	-
PG Mathworks India Private Limited	68,407.00	-
PG - Nirakar Engineering Pvt. Ltd.	34,375.00	-
PG Olumpus Refrigeration Inc	226,710.00	226,710.00
PG - Power One Micro Systems Pvt Ltd	20,845.00	-
PG Power Research & Development Consultants Pvt. Ltd.	35,727.00	10,062.00
PG Prashant R Naik	16,288.00	-
PG Rehan Computers	14,221.00	-
PG - Schematix	6,757.00	-
PG - S H Enterprises	10,060.00	-
PG - Shree Chemicals	9,920.00	-





PG Shubhalakshmi Motors	200,000.00	200,000.00
PG S. P. Construction	4,590.00	-
PG Specialise Instruments Marketing Company	39,671.00	-
PG S. S. Traders	8,376.00	8,376.00
PG Star Furniture	-	25,163.00
PG-Steelraj Steel Furniture - West Bengal.	10,324.00	10,324.00
PG Swastik Prints	5,628.00	-
PG Technology Excellence Group	9,351.00	-
PG - Techser Power Solutions Pvt. Ltd.	8,448.00	-
<b>Project Performance Gurantee of Supplier/Contractor</b>		
PG- Amonkar Enterprises	18,050.00	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 - National Infotech	16,065.00	16,065.00
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	-
<b>TOTAL</b>	<b>2,718,004.00</b>	<b>957,223.00</b>

<b>Sub Schedule 4: Statutory Liabilities</b>	<b>Current Year</b>	<b>Previous Year</b>
CGST TDS @ 1%	49,890.00	33,454.00
IGST TDS	98,133.00	84,368.00
SGST TDS @ 1%	49,890.00	33,454.00
PF Subscription	86,126.00	-
Tax(IT/SC/EC) Professional U/s.194J	75,230.00	352,458.00
Tax (IT/SC/EC)Contractor	132,591.00	69,691.00
Tax (IT/SC/EC)Rent	3,520.00	8,200.00
TDS(IT)Staff	1,475.00	-
<b>Project Statutory Liabilities</b>		
Tax Deducted at Source -194C	137.00	-
Tax Deducted at Source -194J	-	27,856.00
<b>TOTAL</b>	<b>496,992.00</b>	<b>609,481.00</b>

<b>SUB SCHEDULE 5: Other Current Liabilities</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>Salaries</b>		
O/s Salary & Wages	7,745,795.00	7,276,329.00
<b>Other funds</b>		
CCMT Expenses Advance Received	46,713.00	28,411.00
CSAB Expenses Advance Received	119,762.00	103,890.00
IIT Delhi - Unnat Bharat Abhiyaan Scheme	-	152,382.00
<b>Projects Funds</b>		
Overhead-Faculty & Staff Development Fund	864,826.00	1,112,831.00
<b>Other liabilities</b>		
O/s Contingency Expenses	27,693.00	17,400.00
O/s Electricity Charges	172,739.00	7,818.00
O/s. Honorarium	28,000.00	-
O/s Hospitality Expenses	5,379.00	74,519.00
O/s Lab Consumable	4,877.00	-
O/s Lien Contribution of Director	860,388.00	860,388.00
O/s Medical Care	38,013.00	-
O/s Mis. Expenses	3,361.00	3,950.00
O/s News Paper & Periodicals	729.00	-
O/s NPS Matching Share	824,497.00	542,440.00
O/s Patent Charges	85,500.00	-





O/s. PDA Expenses	510,286.00	-
O/s Printing & Stationary	67,958.00	2,000.00
O/s Repair & Maint.	109,378.00	-
O/s. Staff Telephone Charges	-	11,150.00
O/s Stipend (M Tech & Phd)	3,601,157.00	-
O/s. Subscription	6,500,000.00	6,500,000.00
O/s TA to Outsiders	-	1,700.00
O/s Telephone Charges	9,735.00	19,641.00
O/s. Training & Placement Cell Expenses	13,859.00	-
O/s. Transportation Expenses	81,340.00	81,340.00
O/s Vehicle Running & Maint.	12,472.00	-
O/s. Vehicle (Taxi) Hiring Expenses	-	26,028.00
O/s Water Charges	21,600.00	-
<b>Project O/s. Liabilities</b>		
O/s Consumables	280,178.00	-
O/s. Stipend Payable	362,419.00	-
O/s. Travelling Expenses Payable	236,056.00	-
<b>TOTAL</b>	<b>22,634,710.00</b>	<b>16,822,217.00</b>

<b>SUB SCHEDULE 6: PROVISIONS</b>	<b>Current Year</b>	<b>Previous Year</b>
O/s Audit Fee	97,200.00	54,000.00
<b>TOTAL</b>	<b>97,200.00</b>	<b>54,000.00</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	-
<u>Project Imprest Advance</u>		
Dr. Prashanth G.R., Asso. Prof.	-	20,000.00
<b>2. Advances and other amounts recoverable</b>		
<b>a) On Capital Account</b>		
CPWD, Goa - New Campus	300,526,040.00	-
The Executive Engineer PWD DIV VIII Margao	45,000,000.00	-
Goa State PWD	4,390,311.00	4,390,311.00
<b>b) to Suppliers</b>		
CPWD, Goa	-	4,035,915.00
CPWD, Goa (Electrical)	99,857.50	99,800.00
Rajiv Gandhi Kala Mandir	-	77,220.00
<b>c) Others</b>		
<u>Imprest Advance/Other Advance</u>		
Saavyas NIT Goa	-	400,000.00
<b>Income Accrued</b>		
Accrued Interest on Investment	35,069,191.70	39,782,941.70
Prepaid Expenses	7,591,986.00	8,629,327.00
<b>Grants Receivable</b>		
MHRD (Plan Grant Receivable)	-	-
<b>Claims Receivable</b>		
DASA Tution Fees Receivable	-	-
Students Fee Receivable	7,540.00	-
Students Hostel Fee Receivable	1,875.00	1,875.00
<b>TOTAL</b>	<b>392,721,801.20</b>	<b>57,437,389.70</b>





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

Sub Schedule 9: Expenditure/Refund on Sponsored Projects	Current Year	Previous Year
<b><u>Analysis of Cardiovascular Disorders Using Heart Sound Signals- SERB-Dr. Shivnarayan Patidar</u></b>		
Contingencies	-	25,200.00
Equipment	-	88,266.00
Manpower	300,000.00	128,571.00
Travel	15,250.00	47,295.00
Overheads	75,540.00	75,530.00
<b><u>An Integrated Computational and Experimental Approach to Structural Design for Ballistic Impacts and Blasts : Indian Institute of Science-Dr.Saidi Reddy Parne</u></b>		
Bank Interest	-	77,280.78
Contingencies	-	150,000.00
Travel	-	16,095.53
<b><u>Computational and Theoretical Studies on Parabolic Partial Differential Equations in CM-Dr. Shangerganesh</u></b>		
Consumables	35,390.00	7,000.00
Contingencies	46,000.00	-
Equipments	406.00	-
Manpower	99,345.76	-
Travel	30,931.00	17,194.00
<b><u>Convective Instabilities in Double Diffusive Systems- Dr. Ravi Ragoju</u></b>		
Equipments	-	170,000.00
Manpower	197,983.00	-
Overhead	51,200.00	51,200.00
<b><u>Design and Development of Acoustic Methods for early detection of Stem and Root Borer Plocaederus spp infestation in cashew-SERB - Dr. Veerakumar T.</u></b>		
Consumables	25,831.00	-
Manpower	222,084.00	-
Overhead	42,859.00	-
<b><u>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</u></b>		
Consumables	156,185.00	5,257.00
Contingency	142,392.00	-
Equipments	370,850.00	1,439,666.00
Manpower	239,812.00	95,968.00
Travel	84,436.00	65,564.00
Other Costs	75,340.00	15,063.00
Overhead	121,200.00	121,200.00
<b><u>Design and Development of Compact and Wideband Dielectric Resonator Antennas -Dr. Pragati Patel</u></b>		
Equipments	662,336.00	
Travel	20,816.00	
Manpower	151,612.00	24,597.00
Overhead	-	155,730.00





<b><u>Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)-SERB-Dr. Amol Deodas Rahulkar</u></b>		
Consumables	40,683.00	
Contingencies	14,513.00	
Travel	25,000.00	
Manpower	270,524.00	271,909.00
Overhead	49,046.00	49,524.00
<b><u>Design and Implementation of an Inverter for A Grid Connected Photovoltaic System Which Is A Part of VPP-Dr. Sree Raj</u></b>		
Consumables	62,904.00	86,669.00
Contingencies	27,644.00	15,000.00
Equipments	395,040.00	243,065.00
Manpower	229,490.00	185,887.00
Overhead	6,240.00	100,000.00
Travel	33,714.00	28,418.00
<b><u>Design &amp; Development of a Dynamic Photovoltaic Array Fed Single Stage PV System Using an Open WIM-Dr.Venugopal Reddy</u></b>		
Contingencies	47,172.00	-
Equipments	162,750.00	-
Manpower	271,440.00	-
Overhead	100,000.00	-
<b><u>Design &amp; Development of A Photovoltaic -Thermoelectric Hybrid Energy System-Dr. Lalat Indu Giri</u></b>		
Consumables	29,090.00	51,966.00
Equipments	-	1,167,870.06
Manpower	150,000.00	275,000.00
Overhead	238,600.00	-
Travel	-	53,523.00
<b><u>Design &amp; Development of Roast Distributed Nonlinear Channel Equalization &amp; Identification- -SERB-Dr. Trilochan P</u></b>		
Consumables	-	41,474.00
Contingencies	30,974.00	42,228.00
Equipments	-	39,368.00
Manpower	302,400.00	386,400.00
Overhead	-	57,820.00
Travel	1,155.00	52,462.00
<b><u>Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Electroencephalography (Eeg) Data -SERB- Dr. Damodar Reddy Edla</u></b>		
Contingencies	-	-
Equipments	-	-
Overhead	-	-
<b><u>Designing Out-of-VM Monitoring Based Virtual Machine Introspection Framework for SVECC-Dr. Chirag Modi</u></b>		
Consumables	30,735.00	66,722.00
Contingencies	62,577.00	-
Equipments	-	-
Manpower	301,479.00	300,000.00
Overhead	60,810.00	72,790.00
Travel	48,435.00	101,539.00





<b><u>Design of Compact Shaped Beam Antenna Array for Dedicated</u></b>		
<b><u>Short Range Communication Service-Dr. Anirban Chatterjee</u></b>		
Consumables	7,918.00	39,256.00
Contingencies	4,476.00	12,500.00
Equipments	-	1,475,995.00
Manpower	283,200.00	360,967.00
Overhead	188,164.00	-
Travel	91,263.00	2,715.00
<b><u>Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das</u></b>		
Consumables	28,427.00	-
Contingencies	31,649.00	-
Equipment	1,750,079.00	-
Manpower	223,387.00	218,289.00
Travel	50,000.00	-
<b><u>Design, Simulation and Implementation of Bandpass Sigma Delta - SERB-Dr.Nithin Kumar Y.B</u></b>		
Consumables	4,605.00	27,624.78
Contingency	36,888.78	69,595.22
Equipments	376,693.00	-
Overhead	-	109,376.00
<b><u>Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment - SERB - Dr. Chirag Modi</u></b>		
Bank Interest	-	-
<b><u>Development of A Multipurpose Intelligent Controller for A Nano Grid Operation--MNRE- Dr. C. Vyjayanthi</u></b>		
Consumables	-	18,569.00
Contingencies	61,896.00	-
Equipments	-	997,500.00
Manpower	-	45,161.00
Overhead	-	-
Travel	12,755.00	56,873.00
<b><u>Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C.Vyjayanthi</u></b>		
Contingencies	47,763.00	-
Manpower	134,517.00	-
Consumables	66,518.00	72,570.00
Equipment	474,265.00	854,820.00
Overhead	244,400.00	-
Travel	38,675.00	11,325.00
<b><u>Development Of Efficient Algorithms For Photoacoustic Tomography (Pat) - SERB-Dr. Raviprasad K.J</u></b>		
Consumables	24,790.00	-
Contingencies	30,000.00	-
Equipments	258,857.00	-
Manpower	267,860.62	-
Overhead	-	118,000.00
Travel	22,319.00	-





<b><u>Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron Models"-Dr.Venkatareshbabu Kuppilli</u></b>		
Contingencies	55,023.00	-
Manpower	222,581.00	300,000.00
Overhead	65,200.00	65,200.00
Travel	46,063.00	-
<b><u>Development of Secure Key Management Protocols for Group Communication Under Active Outsider Attack Model-SERB-Dr.Purushothama B.R.</u></b>		
Consumables	36,467.00	13,281.00
Contingency	37,800.00	12,400.00
Equipment	29,624.26	-
Manpower	91,103.93	320,357.00
Overhead	-	66,800.00
Travel	62,237.00	1,870.00
<b><u>Energy Efficient Lighting with Visible Based Communication &amp; Power Line Communication- Dr. Ankit Dubey</u></b>		
Consumables	21,542.00	9,588.00
Contingency	24,968.00	40,149.00
Equipments	9,722.00	8,896.00
Manpower	4,606.00	205,837.24
Overhead	-	42,500.00
Travel	51,664.00	-
<b><u>Enhanced Automation of 3-Axis CNC Milling Machine Using Computer Vision and Artificial Intelligence-SERB-Dr.Pravati Swain</u></b>		
Consumables	107,094.00	16,189.00
Contingencies	102,691.00	-
Equipments	36,385.00	-
Manpower	36,480.26	117,000.00
Overhead	127,060.00	-
Travel	103,027.00	-
<b><u>Harnessing Technological Innovations for Sustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) - Dr. Sunil Kumar A.</u></b>		
Contingencies	3,000.00	-
<b><u>EPR Studies of Some Ni(II) Complexes in Crystalline Environment: Probing the Structure, Bonding and Electron Spin Relaxation Rates - SERB -Dr.Velavan Kathirvelu</u></b>		
Equipments	-	-
Consumables	-	527,818.81
Contingency	-	30,000.00
Manpower	-	-
Bank Interest	-	10,598.00
Travel	-	10,000.00
Overhead	-	50,000.00
<b><u>Improved PHY and MAC Strategies for M2M Communications in Smart Grid Over Wireless and PLC Heterogenous Network -Dr. Ankit Dubey</u></b>		
Manpower	-	140,323.00
Overhead	-	62,110.00







<b><u>Interference Rejection Using Built-In Filter Based Band-Pass Sigma Delta Modulators -SERB- Dr. Nithin Kumar Y.B.</u></b>		
Overhead	200,000.00	-
Social Scientific Responsibility	49,655.00	-
<b><u>Monit Air: An IoT Based Air Pollution Monitoring System- Dr. S. Mini &amp; Dr. Trilochan Panigrahi</u></b>		
Consumables	249,333.00	79,737.00
Contingency	59,162.00	26,000.00
Equipments	18,275.00	-
Manpower	140,601.07	98,710.00
Overhead	-	101,750.00
Travel	13,275.00	74,640.00
<b><u>MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi &amp; Dr.S. Mini</u></b>		
Contingencies	50,000.00	-
Equipments	175,156.05	420,838.00
Consumables	18,369.00	31,631.00
Manpower	94,879.87	234,821.00
Overhead	50,000.00	50,000.00
<b><u>Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology" TERI -Dr.Lalat Indu Giri</u></b>		
Consumables	84,281.00	98,087.00
Equipments	56,100.00	95,300.00
Manpower - JRF	220,000.00	144,597.00
Manpower - RA	252,645.00	231,355.00
Overhead	-	193,800.00
Other Costs	600,000.00	-
Travel	31,407.00	82,976.00
<b><u>Secure and Efficient Communications Inside Partitioned Socialoverlaynetworks-Dr. Keshavamurthy B.N</u></b>		
Equipments	380,784.00	-
Manpower	277,419.00	239,167.00
Overhead	59,334.00	59,333.00
Travel	39,348.00	-
<b><u>Special Manpower Development Program for Chips to System Design : Central Electronics Engineering Research-Dr.Nithin Kumar Y.B</u></b>		
Consumables	13,295.00	62,366.00
Contingency	30,504.00	11,114.00
Lab Engineer Salary -SMDP - CEERI	435,000.00	408,000.00
Misc. (Books) - SMDP - CEERI	-	20,612.00
Overheads -SMDP - CEERI	-	223,000.00
Salary for Research/ Project Associate/ Assistance -SMDP - CEERI	240,000.00	108,000.00
Salary of Guest/Temporary Lecturer -SMDP - CEERI	438,000.00	420,000.00
Bank Interest	-	100,156.89
Travel & Training -SMDP - CEERI	71,185.00	128,705.00
<b><u>Suspended Functional Magnetic Microparticle Array based Point-of-Care Diagnostic System for MBMSS-SERB-Dr.Prasanth G.R.</u></b>		
Consumables	441,049.00	24,546.00
Contingency	24,008.00	4,483.00
Equipments	-	22,262.00
Others	68,743.00	-
Overhead	-	150,000.00





Travel	28,261.00	15,036.00
<b>Visvesvaraya Phd Scheme - Media Lab Asia (Batch 2014-15) - Dr.Nithin Kumar Y.B</b>		
Annual Contingency Grant - Visvesvaraya (Batch 2014-15)	42,152.00	36,585.00
Fellowship/Stipend - Visvesvaraya (Batch 2014-15)	393,750.00	420,000.00
HRA - Visvesvaraya (Batch 2014-15)	63,000.00	84,000.00
Infrastructural Grant - Visvesvaraya (Batch 2014-15)	-	93,700.00
International Conference Grant- Visvesvaraya (Batch 2014-15)	-	50,000.00
Overheads - Visvesvaraya (Batch 2014-15)	25,000.00	75,000.00
Bank Interest	23,421.00	24,052.00
<b>Visvesvaraya Phd Scheme - Media Lab Asia -(Batch 2015-16)- Dr.Nithin Kumar Y.B</b>		
Annual Contingency Grant - Visvesvaraya (Batch 2015-16)	-	46,558.00
Fellowship/Stipend - Visvesvaraya (Batch 2015-16)	447,887.00	644,038.00
HRA - Visvesvaraya (Batch 2015-16)	72,077.00	128,807.00
Overheads - Visvesvaraya (Batch 2015-16)	25,000.00	175,000.00
Bank Interest	22,845.00	5,591.00
Infrastructural Grant - Visvesvaraya Phd Scheme (Batch-2015-16)	-	180,500.00
Young Faculty Research Fellowship (Batch 2014-15)	240,000.00	240,000.00
Young Research/Contingency Grant (Batch 2014-15)	368,706.00	354,149.00
Fund for Training Under "SMDP-C2SD"-CEERI PILANI	-	243,921.11
Funds for Workshop - Central Electronics Engineering Research Institute(CEERI)	-	1,050,571.00
Plan Grant for Conducting Workshop & Seminar Under PMMMNMTT Scheme -MHRD	-	-
<b>TOTAL</b>	<b>18,829,824.60</b>	<b>20,821,859.42</b>





NATIONAL INSTITUTE OF TECHNOLOGY GOA  
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST, MARCH, 2020

RECEIPTS	CURRENT YEAR	PREVIOUS YEAR	PAYMENTS	CURRENT YEAR	PREVIOUS YEAR
<b>I. Opening Balances (As per RP Schedule 1)</b>			<b>I. Expenses (As per RP Schedule 12)</b>		
a) Cash in Hand	-	-	a) Establishment Expenses	94,800,653.00	86,069,754.00
b) Bank Balances	-	-	b) Academic Expenses	35,865,086.00	37,334,655.00
i) in current accounts	-	-	c) Administrative Expenses	28,871,388.73	24,141,679.69
ii) in deposit accounts	1,218,343,298.00	1,003,243,298.00	d) Transportation Expenses	1,693,840.00	1,663,262.00
iii) in savings accounts	72,287,772.21	145,955,841.71	e) Repairs & Maintenance	23,796,015.00	18,975,009.00
<b>II. Grant Received (As per RP Schedule 2)</b>			f) Prior Period Expenses	-	75,049.00
a) From Govt. of India	-	-	<b>II. Payments made against Earmarked/Endowment Funds (As per RP Schedule 13)</b>	12,000.00	-
Plan Grant -Capital	-	9,400,000.00	<b>III. Payments against Sponsored Projects/Schemes (As per RP Schedule 14)</b>	13,811,889.60	10,934,851.16
Plan Grant -Revenue	127,887,000.00	197,500,000.00	<b>IV. Payments against Sponsored Fellowships/Scholarships (As per RP Schedule 15)</b>	1,611,893.00	632,837.00
b) From State Govt.	-	-	<b>V. Investments and Deposits made</b>		
c) From other sources	-	-	a) Out of Earmarked/Endowment funds	-	-
(Grants for Capital & revenue expenditure to be shown separately if available)	-	-	b) Out of own funds (Investments- Others)	-	-
<b>III. Academic Receipts (As per RP Schedule 3)</b>	72,057,868.49	58,255,375.59	<b>VI. Term Deposits with Scheduled Banks</b>	-	-
<b>IV. Receipts against Earmarked/Endowment Funds (As per RP Schedule 4)</b>	358,000.00	196,000.00	<b>VII. Expenditure on Fixed Assets and Capital Works - In- Progress (As per RP Schedule 16)</b>	29,856,930.00	11,785,667.00
<b>V. Receipts against Sponsored Projects/Schemes (As per RP Schedule 5)</b>	16,027,151.00	15,670,280.11	a) Fixed assets	2,317,242.00	7,380.00
<b>VI. Receipts against sponsored Fellowships and Scholarships (As per RP Schedule 6)</b>	2,279,624.00	4,829,363.00	b) Capital Works-in-progress	419,269,787.00	62,305,487.42
<b>VII. Income on Investments from</b>			<b>VIII. Other Payments Including statutory Payments (As per RP Schedule 17)</b>	4,678,187.00	5,309,448.00
a) Earmarked/Endowment Funds	-	-	<b>IX. Refunds of Grants</b>	-	-
b) Other investments	-	-	<b>X. Deposits and Advances (As per RP Schedule 18)</b>	-	-
<b>VIII. Interest Received (As per RP Schedule 7)</b>	66,355,261.00	69,375,139.00	<b>XI. Other Payments</b>	190.00	-
a) Bank Deposits	2,389,199.00	1,943,553.00	a) Cash in hand	-	-
b) Loans and Advances	-	-	b) Bank Balances	927,643,298.00	1,218,343,298.00
c) Saving Bank Accounts	-	-	i) in current accounts	43,847,790.37	72,287,772.21
<b>IX. Investments Encashed</b>	202,100.00	702,619.07	ii) in deposit accounts	-	-
<b>X. Term Deposits with Scheduled Banks Encashed</b>	19,595,141.00	19,250,738.00	iii) in savings accounts	-	-
<b>XI. Other income (Including Prior Period Income) (As per RP Schedule 8)</b>	30,290,018.00	25,420,442.00	<b>TOTAL</b>	<b>1,628,106,198.70</b>	<b>1,549,866,149.48</b>
<b>XII. Deposits and Advances (As per RP Schedule 9)</b>	52,766.00	123,500.00			
<b>XIII. Miscellaneous Receipts including Statutory Receipts (As per RP Schedule 10)</b>					
<b>XIV. Any other receipts - Misc (As per RP Schedule 11)</b>					

FOR AND ON BEHALF OF THE BOARD

DIRECTOR

PLACE: PONDA, GOA  
DATE: 16-12-2020

Director

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

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

FRN: 127641W



CA ARCHANA KENKARE  
PARTNER

MEM NO. 047463

UDIN: 20047463AAAAAGG68578



**SCHEDULES FORMING PART OF RECEIPTS AND PAYMENT FOR THE YEAR ENDED MARCH 31,2020**

**OPENING CASH AND BANK BALANCES**

RP Schedule -1

	Current Year	Previous Year
<b>a) Cash in Hand</b>		
Cash	-	-
<b>b) Bank Balances</b>		
<b>In deposit accounts</b>		
Investment A/c. No. 160058 (CB)-530401087495997	672,405.00	672,405.00
Investment A/c No.530401024338681	9,900,000.00	9,900,000.00
Investment A/c No.530401024338896	9,900,000.00	9,900,000.00
Investment A/c No.530401024338964	9,900,000.00	9,900,000.00
Investment A/c No.530401024339022	9,900,000.00	9,900,000.00
Investment A/c No.530401024339107	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339169	9,900,000.00	9,900,000.00
Investment A/c No.530401024339282	9,900,000.00	9,900,000.00
Investment A/c No.530401024339404	9,900,000.00	9,900,000.00
Investment A/c No.530401024339459	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339596	9,900,000.00	9,900,000.00
Investment A/c No.530401024339695	9,900,000.00	9,900,000.00
Investment A/c No.530401024339770	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339824	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339879	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339886	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339961	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339992	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340073	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340097	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340172	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340202	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340271	9,900,000.00	9,900,000.00
Investment A/c No.530401024340288	9,900,000.00	9,900,000.00
Investment A/c No.530401024340318	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340325	9,900,000.00	9,900,000.00
Investment A/c No.530401024340394	9,900,000.00	9,900,000.00
Investment A/c No.530401024340462	9,900,000.00	9,900,000.00
Investment A/c No.530401024340516	9,900,000.00	9,900,000.00
Investment A/c No.530401024340561	9,900,000.00	9,900,000.00
Investment A/c No.530401024340646	9,900,000.00	9,900,000.00
Investment A/c No.530401024340653	9,900,000.00	9,900,000.00
Investment A/c No.530401024340738	9,900,000.00	9,900,000.00
Investment A/c No.530401024340745	9,900,000.00	9,900,000.00
Investment A/c No.530401024340752	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340783	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340790	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340806	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340851	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340875	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340905	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340943	9,900,000.00	9,900,000.00
Investment A/c No.530401024340967	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340974	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340981	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341018	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341025	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341049	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341063	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341087	9,900,000.00	9,900,000.00
Investment A/c No.530401024341094	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341131	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341179	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341186	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341223	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341247	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341285	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341308	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341377	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341384	9,900,000.00	9,900,000.00





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Investment A/c No.-530401024341391	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341445	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341469	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341490	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341513	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341537	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341599	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341643	9,900,000.00	9,900,000.00
Investment A/c No.530401024342312-DASA A/c	6,000,000.00	6,000,000.00
Investment A/c. No. 530401024342527-Hostel Dev. Fund	127,600.00	127,600.00
Investment A/c No.-530401024342695-Misc. Fines	700,000.00	700,000.00
Investment A/c No.-530401024342749	700,000.00	700,000.00
Investment A/c No.-530401024342800- Institute Dev. Fund	6,281,652.00	6,281,652.00
Investment A/c No.-530401024747353	9,900,000.00	9,900,000.00
Investment A/c No.-530401024748299	9,900,000.00	9,900,000.00
Investment A/c No.-530401024749760	9,900,000.00	9,900,000.00
Investment A/c No.-530401024750537	9,900,000.00	9,900,000.00
Investment A/c No.-530401024751923	9,900,000.00	9,900,000.00
Investment A/c No.-530401024752067	9,900,000.00	9,900,000.00
Investment A/c No.-530401024752180	9,900,000.00	9,900,000.00
Investment A/c No.-530401024752333	9,900,000.00	9,900,000.00
Investment A/c No.-530401024752579	9,900,000.00	9,900,000.00
Investment A/c No.-530401024752678	9,900,000.00	9,900,000.00
Investment A/c No.-530401024752999	9,900,000.00	9,900,000.00
Investment A/c No.-530401024753149	9,900,000.00	9,900,000.00
Investment A/c No.-530401024753965	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754153	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754375	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754528	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754672	9,900,000.00	9,900,000.00
Investment A/c No.-530401024754825	9,900,000.00	9,900,000.00
Investment A/c No.530401028802232	9,900,000.00	9,900,000.00
Investment A/c No.530401028802249	9,900,000.00	9,900,000.00
Investment A/c No.530401028839597	9,900,000.00	9,900,000.00
Investment A/c No.530401028839771	9,900,000.00	9,900,000.00
Investment A/c No.530401028839894	9,900,000.00	9,900,000.00
Investment A/c No.530401028840173	9,900,000.00	9,900,000.00
Investment Ac. no. -530401087496624	31,150,150.00	31,150,150.00
Investment Ac. no. -530401087496632	31,794,663.00	31,794,663.00
Investment A/c. No. KCC/01/170012- 530401087497108	5,359,295.00	5,359,295.00
Investment A/c. No. KCC/01/170013- 530401087497159	5,359,295.00	5,359,295.00
Investment A/c. No. KCC/01/170015- 530401087497132	3,751,507.00	3,751,507.00
Investment A/c. No. KCC/01/170016- 530401087497140	4,287,436.00	4,287,436.00
Investment A/c. No. KCC/01/170017- 530401087497116	5,359,295.00	5,359,295.00
Investment A/c. No.-KCC 530401721030914	800,000.00	800,000.00
Investment A/c. No.530101343585110	9,900,000.00	9,900,000.00
Investment A/c. No.530101343585527	9,900,000.00	9,900,000.00
Investment A/c. No.530101343585554	9,900,000.00	9,900,000.00
Investment A/c. No.530101343585581	9,900,000.00	9,900,000.00
Investment A/c. No.-530101343585615	9,900,000.00	9,900,000.00
Investment A/c No.-530401034272234	9,900,000.00	9,900,000.00
Investment A/c No.-530401034272401	9,900,000.00	9,900,000.00
Investment A/c No.-530401034272470	9,900,000.00	9,900,000.00
Investment A/c No.-530401034272579	9,900,000.00	9,900,000.00
Investment A/c No.-530401034273484	9,900,000.00	9,900,000.00
Investment A/c No-530401034721428	9,900,000.00	-
Investment A/c No-530401034721558	9,900,000.00	-
Investment A/c No.-530401034721671	9,900,000.00	-
Investment A/c No.530401034721756	9,900,000.00	-
Investment A/c No.-530401035984839	9,900,000.00	-





Investment A/c No.-530401035985140	9,900,000.00	-	-
Investment A/c No.-530401035985393	9,900,000.00	-	-
Investment A/c No.-530401035985645	9,900,000.00	-	-
Investment A/c No.-530401035985904	9,900,000.00	-	-
Investment A/c No.-530401036091840	9,000,000.00	-	-
Investment A/c No.-530401036092069	7,000,000.00	-	-
Investment A/c No.-530401036092236	7,000,000.00	-	-
Investment A/c No.-530401036092502	4,000,000.00	-	-
<b>In Saving Accounts</b>			
Corp. Bank Growth Fund A/c No.SB/1935-520101026774646	194,221.37	3,598,118.39	
Corp. Bank Hostel A/c No.SB/01/1250-520101026768530	4,831,400.01	4,214,684.01	
Corp. Bank Mis. A/c No.SB/01/1915-520101026774476	504,471.28	86,561.28	
Corp. Bank -NITGOARC-SB/01/4333-520101026782665	167,023.00	400,507.00	
Corp. Bank NIT Plan A/c No.SB/000653-520101026763067	31,395,748.05	108,086,052.43	
Corp. Bank NIT Plan A/c No.SB/01/4363-520101026782843	367,414.00	143,987.00	
Corp. Bank GSAB/CCMT A/c No.SB/01/2538-520101026778293	1,454,780.00	1,344,949.00	
Corp. Bank NIT Plan A/c No.SB/170001-520141020781217	-	14,953.00	
Corp Bank SB - Director NIT GOA Fees A/c No. 520101253886322	5,322,243.78	-	
Corporation Bank - NIT Goa Projects Overhead PDA SB A/c. No. - 520101252614922	-	916,462.66	
Corporation Bank SB/01/003573-520101026780557	28,050,470.72	27,149,566.94	145,955,841.71
<b>TOTAL</b>	<b>1,290,631,070.21</b>	<b>1,149,199,139.71</b>	

**Grant Received**

	Current Year		RP Schedule -2 Previous Year	
	<b>a) From Govt. of India</b>			
Plan Grant -Capital				
Plan Grant (CCA-35)	-		9,400,000.00	
Plan Grant -Revenue				
Plan Grant (GA-31)	46,600,000.00		116,600,000.00	
Plan Grant (Sal.-36)	81,267,000.00	127,867,000.00	80,900,000.00	206,900,000.00
<b>b) From State Govt.</b>		-		-
<b>c) From other sources</b>		-		-
<b>TOTAL</b>		<b>127,867,000.00</b>		<b>206,900,000.00</b>

**Academic Receipts**

	Current Year		RP Schedule -3 Previous Year	
	Attestation Fees	2,600.00		
Bonafide Certificate Fees	2,520.00			2,980.00
Institute Fines	42,600.00			32,100.00
Library Fines	22,630.00			25,582.00
Other Fee (Exam., Lib. Etc.)	18,246.00			11,550.00
Transcript Fees	39,270.00			12,450.00
Breakage Charges	6,160.00			10,405.00
<b>Fees/subsription</b>				
Admission Fee (B Tech)	75,000.00			-
Admission Fee (M Tech)	-			-
B-Tech Other Fees	865,000.00			418,000.00
B Tech Tuition Fees	8,420,966.00			3,615,822.00
DASA Tuition Fees	2,825,429.93			2,110,244.00
Forfeited of Students Fee	96,800.00			-
Hostel Rent (B Tech)	587,700.00			388,875.00
Hostel Rent (Others)	1,100.00			3,600.00
M -Tech Other Fees	4,000.00			76,000.00
M-Tech Tuition Fees	(20,000.00)			910,000.00





M.Tech Tuition Processing Fees	5,000.00	-
PHD Admission Fees	-	-
Ph.D. App. Fees	47,900.00	98,600.00
PHD Other Fees	2,000.00	2,000.00
PHD Tuition Fees	7,500.00	7,500.00
Tuition Fees Adjusted From Scholarship (B TECH)	840,000.00	210,000.00
<b>Advance Receivable</b>		
CCMT	2,020,250.00	1,500,000.00
CSAB	6,664,000.00	6,345,000.00
DASA	1,164,500.00	312,500.00
DASA Tuition Fees Receivable	66,200.00	2,562.00
Students Fee Receivable	98,000.00	4,000.00
<b>Sundry Debtors</b>		
Payu Money	1,280,011.00	456,100.00
Payu Moneybiz-DASA	2,254,579.56	2,947,377.59
Payu Money-Hostel	15,478,200.00	13,005,452.00
Payu Money-Tuition Fees	29,076,206.00	23,746,676.00
Bihar State Education Finance Corporation Student Hostel Fees Receivable (Migrated From Other NITs)	63,500.00	-
	-	-
<b>TOTAL</b>	<b>72,057,868.49</b>	<b>56,255,375.59</b>

**Receipts against Earmarked/Endowment Funds**

	RP Schedule -4	
	Current Year	Previous Year
Institute Development Fund (B Tech)	354,000.00	171,000.00
Institute Development Fund (M Tech)	4,000.00	25,000.00
Institute Development Fund (Phd)	-	-
<b>TOTAL</b>	<b>358,000.00</b>	<b>196,000.00</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	100,000.00	497,530.00
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	366,530.00	366,530.00
Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)-SERB-Dr. Amol Deodas Rahulkar	107,930.00	322,090.00
Design and Implementation of an Inverter for A Grid Connected Photovoltaic System Which Is A Part of VPP-Dr. Sree Raj	200,000.00	547,410.00
Design & Development of Roast Distributed Nonlinear Channel Equilization & Identification -SERB-Dr. Trilochan P	-	600,000.00
Designing Out-of-VM Monitoring Based Virtual Machine Introspection Framework for SVECC-Dr. Chirag Modi	334,810.00	434,790.00
Design of Compact Shaped Beam Antenna Array for Dedicated Short Range Communication Service-Dr. Anirban Chatterjee	600,000.00	-
Design & Development of A Photovoltaic - Thermoelectric Hybrid Energy System-Dr. Lalat Indu Giri	774,866.00	-
Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C. Vyjayanthi	590,200.00	-





Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron Models*- Dr.Venkatareshbabu Kuppilli	353,200.00	533,200.00
Development of Secure Key Management Protocols for Group Communication Under Active Outsider Attack Model-SERB- Dr.Purushothama B.R.	-	417,070.00
Energy Efficient Lighting with Visible Based Communication & Power Line Communication- Dr. Ankit Dubey	-	370,000.00
EPR Studies of Some Ni(II) Complexes in Crystalline Environment: Probing the Structure, Bonding and Electron Spin Relaxation Rates - SERB -Dr.Velavan Kathirvelu	-	200,000.00
Design & Development of a Dynamic Photovoltaic Array Fed Single Stage PV System Using an Open WIM-Dr.Venugopal Reddy	1,026,461.00	-
Monit Air: An IoT Based Air Pollution Monitoring System- Dr. S. Mini & Dr. Trilochan Panigrahi	-	600,870.00
MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr.S. Mini	-	149,040.00
Secure and Efficient Communications Inside Partitioned Socialoverlaynetworks-Dr. Keshavamurthy B.N	200,000.00	470,000.00
Design and Development of Acoustic Methods for early detection of Stem and Root Borer Plocaederus spp infestation in cashew-SERB - Dr. Veerakumar T.	578,550.00	-
Special Manpower Development Program for Chips to System Design - Central Electronics Engineering Research-Dr.Nithin Kumar Y.B	1,307,864.00	904,057.11
Suspended Functional Magnetic Microparticle Array based Point-of-Care Diagnostic System for MBMS-SERB-Dr.Prasanth G.R.	-	637,500.00
Funds for Workshop - Central Electronics Engineering Research Institute(CEERI)	-	1,175,000.00
Convective Instabilities in Double Diffusive Systems-SERB- Dr. Ravi Ragoju	70,000.00	696,533.00
Design and Development of Compact and Wideband Dielectric Resonator Antennas - SERB -Dr. Pragati Patel	-	3,936,860.00
Development Of Efficient Algorithms For Photoacoustic Tomography (Pat) - SERB-Dr. Raviprasad K.J	-	350,000.00
Designing Efficient Algebraic Activation Functions In Deep Learning For Classification Of Electroencephalography (Eeg) Data -SERB- Dr. Damodar Reddy Edla	220,000.00	-
Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment - SERB - Dr. Chirag Modi	5,744,970.00	-
Enhanced Automation of 3-Axis CNC Milling Machine Using Computer Vision and Artificial Intelligence-SERB-Dr.Pravati Swain	411,770.00	-
Harnessing Technological Innovations for Sustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) - Dr. Sunil Kumar A.	200,000.00	-







Interference Rejection Using Built-In Filter Based Band-Pass Sigma Delta Modulators - SERB- Dr. Nithin Kumar Y.B.	2,840,000.00	-
Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology" TERI -Dr.Lalat Indu Giri	-	2,461,800.00
<b>TOTAL</b>	<b>16,027,151.00</b>	<b>15,670,280.11</b>

**Receipts against sponsored Fellowships and Scholarships**

	RP Schedule -6	
	Current Year	Previous Year
<b>Other Scholarships</b>		
Scholarship EDCIL (India) Ltd.	-	15,000.00
Scholarship Govt. of Madhya Pradesh	-	-
Scholarship-Fellowship-Inspire Fellowship-DST-Trilochan P.	97,699.00	34,033.00
Scholarship of Tribal, GoI	480,848.00	368,000.00
Scholarship Social Justice	-	4,200.00
	81,600.00	1,502,560.00
<b>Sponsored Projects</b>		
Visvesvaraya Phd Scheme - Media Lab Asia (Batch 2014-15) -Dr.Nithin Kumar Y.B	538,868.00	565,888.00
Visvesvaraya Phd Scheme - Media Lab Asia -(Batch 2015-16)-Dr.Nithin Kumar Y.B	1,080,609.00	2,339,682.00
<b>TOTAL</b>	<b>2,279,624.00</b>	<b>4,829,363.00</b>

**Interest Received**

	RP Schedule -7	
	Current Year	Previous Year
<b>a) Bank Deposits</b>		
Interest on Plan Grant	42,724,070.00	50,572,113.00
Interest on Term Deposits	23,632,191.00	18,803,026.00
<b>On Saving Accounts</b>		
Bank Interest	1,287,642.00	738,995.00
<b>On Sponsored Projects Saving Accounts</b>		
Bank Interest	1,101,557.00	1,204,558.00
<b>TOTAL</b>	<b>68,745,460.00</b>	<b>71,318,692.00</b>

**Other income (including Prior Period Income)**

	RP Schedule -8	
	Current Year	Previous Year
Canteen Rent Received	36,000.00	36,000.00
RTI Application Fee	-	80.00
Misc. Income	15.00	2,338.07
Salary in Lieu of Notice	-	509,831.00
Foreign Exchange Gain	3,656.00	1,826.00
LD(Liquidated Damage)Suppl./Contractor	131,711.00	21,759.00
<b>Income From Sales/services</b>		
Sale of Tender Paper	8,000.00	5,500.00
<b>Projects Other income</b>		
LD(Liquidated Damage)Suppl./Contractor	22,718.00	125,285.00
<b>TOTAL</b>	<b>202,100.00</b>	<b>702,619.07</b>

**Deposits and Advances**

	RP Schedule -9	
	Current Year	Previous Year
<b>Advance Received</b>		
Alumni Association(NITGAA) (B Tech)	102,000.00	38,000.00
Alumni Association(NITGAA) (M Tech)	2,000.00	-
CCMT Expenses Advance Received	477,350.00	425,500.00
CSAB Expenses Advance Received	439,300.00	421,305.00
B Tech Tuton Advance Fees	1,000.00	-
DASA Admission Expenses Reimbursement	24,000.00	15,000.00





NIT Rourkela			111,506.00
Unit of Science and Educational Development-MHRD			-
Group Insurance Scheme (B Tech)	145,000.00		-
Group Insurance Scheme (M Tech)	325,200.00		159,600.00
Group Insurance Scheme (Phd)	2,400.00		-
Hall Establishment Charges	1,200.00		1,200.00
Hall Establishment Charges (B Tech)	-		41,992.00
Mess Adv.(B Tech)	1,116,000.00		774,000.00
SAC (Student Activity Centre) Fee (B Tech)	3,850,200.00		2,556,450.00
SAC(Student Activity Centre) Fee (M Tech)	475,000.00		214,000.00
Students Fee Refundable (B-Tech)	6,000.00		-
Students Hostel Fee Refundable(B.Tech)	895,701.00		845,002.00
	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 Digital Network Associates	7,223.00		-
PG Eagle Photonics Pvt. Ltd.	66,066.00		-
PG Entuple Technologies Pvt. Ltd.	365,800.00		-
PG Kalika Enterprises	9,784.00		-
PG - JSK Lab Instruments	10,500.00		-
PG M.A. Doddamani	10,137.00		21,273.00
PG Mastersoft ERP Solutions Pvt. Ltd.	162,191.00		-
PG Mathworks India Private Limited	68,407.00		-
PG Prashant R Naik	16,288.00		-
PG Rehan Computers	14,221.00		-
PG - Schematix	6,757.00		-
PG -S H Enterprises	10,060.00		-
PG - Shree Chemicals	9,920.00		-
PG S. P. Construction Company	4,590.00		-
PG Star Furniture	39,671.00		-
			5,865.00
PG-Steelraj Steel Furniture - West Bengal.	-		10,324.00
PG Swastik Prints	5,628.00		-
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- Amonkar Enterprises	-		18,050.00
PG - Ecosense Sustainable Solutions Pvt. Ltd.	-		49,875.00
PG - National Infotech	-		16,065.00
PG Sadhale Enterprises	19,037.00		-
PG - Pragna Microdesigns	8,138.00		-
PG Prajakt D. Amonkar	30,000.00		-
PG - San Instruments	30,026.00		-
PG - D.B. Solutions	25,842.00		-
PG- Jyoti Electronics	22,781.00		-
<u>Security Deposit(Contractor)</u>			
SD Aditya Books Pvt. Ltd.	42,000.00		-
SD Ahuja Book Co. Pvt. Ltd.	42,000.00		-
SD - Amonkar Enterprises	-		8,000.00
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 Eagle Photonics	30,000.00		-
SD Ecosense Sustainable Solutions Pvt. Ltd.	-		-
			25,000.00





SD Empower Technology	-	30,000.00
SD Entuple Technologies Pvt. Ltd.	130,000.00	-
SD Forevision Instruments India Pvt. Ltd.	130,000.00	-
S D - Fusion Events Limited	-	28,000.00
SD Goa Intelligence Security Services	480,000.00	-
SD Ideal Catering Services	-	25,000.00
SD - Industrial Trading Company	6,000.00	-
SD - International Book Centre	21,000.00	-
SD M.A. Doddamani	-	11,000.00
SD Narendra Publishing House	42,000.00	-
SD National Infotech	-	8,000.00
SD - Nirakar Engineering Pvt. Ltd.	6,400.00	-
SD Noorahmed Bhadrapur	-	8,000.00
SD - Power Research & Development Consultants Pvt. Ltd.	15,000.00	-
SD Prajakt Amonkar	-	25,000.00
SD Prashant R. Naik	11,000.00	4,000.00
SD Schematix	6,000.00	-
SD Sean Adevent	15,000.00	-
SD - Shanta Sound	10,000.00	-
SD S.P. Construction	4,000.00	-
SD- S.S.Traders	-	20,000.00
SD Swastik Prints	15,000.00	-
SD Technical Bureau India Pvt. Ltd.	42,000.00	-
SD - Techniz Books International	21,000.00	-
SD VSP Books International	42,000.00	-
<b>Security Deposit(Student)</b>		
B Tech Security Deposit Refundable	440,000.00	180,000.00
M-Tech Security Deposit Refundable	8,000.00	-
<b>Permanent Advance Refunded</b>		
Permanent Adv. Chairman, T&P	15,000.00	15,000.00
Permanent Adv. Chief Warden	45,000.00	10,000.00
Permanent Adv.Registrar	15,000.00	15,000.00
Permanent Advance (Dean Academics)	15,000.00	10,000.00
Permanent Adv. Dean, Planning & Development	15,000.00	15,000.00
Permanent Adv. HOD, Mechanical & Civil Engg.	15,000.00	-
<b>Advance to Staff Settled</b>		
Amit Kabiraj, AR	-	131,000.00
B. Venugopal Reddy	236,000.00	10,000.00
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	337,900.00	-
Dr. Ragoju Ravi, Asst. Prof. (Emp. No.- 1130024)	70,000.00	70,000.00
Dr. Amol D. Rahulkar, Asst. Prof. (Emp. No.- 1140067)	57,000.00	26,700.00
Dr. Anirban Chatterjee, Asst. Prof. (Emp. No.-1130035)	167,000.00	-
Dr.C. Vyjayanthi, Asst. Prof. (Emp. Code.- 1140069)	38,500.00	102,000.00
Dr. E. Mallikarjun, Asst. Prof. (Emp Code- 1160086)	52,000.00	111,730.00
Dr. Keshavamurthy B. N., Asst. Prof (1140043)	32,500.00	134,000.00
Dr. Lalat Indu Giri, Asst. Prof. (Emp. Code - 1150073)	30,000.00	107,900.00
Dr. L. Shangerganesh, Asst. Prof. (Emp. No.- 1160083)	-	143,900.00
Dr. Pragati Patel, Asst. Prof.- Emp. No.- 1160085	36,000.00	30,000.00
Dr. Prasanth G. R., Asst. Prof.(Emp. Code- 1150072)	-	310,000.00





Dr. Pravati Swain, Asst. Prof. (Emp. Code-1140064)	10,000.00	75,000.00
Dr. Sarani Ghosal Mondal, Asst. Prof.-Emp-1130015	-	25,000.00
Dr. Shivanarayan Patidar, Asst. Prof. (Emp. No.-1150071)	284,000.00	54,000.00
Dr. S. Mini, Asst. Prof. (Emp. Code -1140045)	-	130,000.00
Dr. Soumitra Das, Asst. Prof., Emp. No.-1150074	-	166,000.00
Dr. Sunil Kumar A, Asst. Prof.-Emp. No.-1160087	7,700.00	-
Dr. Trilochan Panigrahi, Asst. Prof. (Emp. No.-1140066)	144,000.00	167,000.00
Dr. Veena Thenkanidiyoor, Asst. Prof. (1130016)	20,000.00	10,000.00
Dr. Veerakumar T., Asst. Prof. - Emp. No.-1130033	-	99,000.00
Modi Chirag Navinchandra, Asst Prof. (Emp. No. 1140068)	216,000.00	153,000.00
Mrs. Suvidha Naik, Technical Assistant	-	19,800.00
Munesh Kumar, AL	166,000.00	156,150.00
Nijin M., Technician (3140056)	-	24,000.00
Nithin Kumar Y. B (1130036)	95,000.00	67,200.00
Pinaki Chaterjee-Technical Asst. (Emp. No.-3160082)	-	12,300.00
Prasanth P., SO	255,000.00	137,000.00
P Saiji Reddy(1130009)	525,500.00	344,300.00
Sreeraj E. S., Asst. Prof (Emp. Code -1140041)	25,000.00	72,000.00
Suresh Mikkil Asst. Prof.	244,000.00	81,000.00
Vasantha M. H Asst Prof. (1130032)	150,000.00	130,000.00
Velavan Kathirvelu Asst. Prof (1130013)	189,000.00	-
Purushothama B.R.(1130022)	242,000.00	25,000.00
Saavyas NIT Goa	-	141,701.00
Vijeesh VP, Technician (Emp Code-3140049)	66,000.00	52,000.00
Anil Mistri, Jr. Asst. (Emp. Code -4140061)	40,000.00	62,280.00
<b>Advance to Staff Settled - Projects</b>		
Dr. Lalat Indu Giri, Asst. Prof.	-	70,000.00
Dr. Keshavamurthy B.N., Assoc. Prof.	40,000.00	-
Dr. Prashanth G.R., Asso. Prof.	30,000.00	-
Nithin Kumar Y.B., Asst. Prof.	-	100,000.00
<b>Sponsored Projects Advances</b>		
Science & Engineering Research Board	-	70,071.00
<b>Advance to Supplier/Contractor</b>		
Kala Academy Goa	-	179,210.00
Ravindra Bhavan Margao	72,400.00	-
The Executive Engineer, WD-XVI (BC)	-	-
PWD, Ponda	792,000.00	-
CPWD, Goa	4,035,660.00	8,725,569.00
CPWD, Goa (Civil)	-	-
Rajiv Gandhi Kala Mandir	77,220.00	62,920.00
<b>Advance to Supplier/Contractor - Projects</b>		
International Centre Goa	-	500,000.00
<b>TOTAL</b>	<b>19,595,141.00</b>	<b>19,250,738.00</b>

**Miscellaneous Receipts Including Statutory Receipts**

RP Schedule -10

Statutory Liability	Current Year		Previous Year	
CGST TDS @ 1%		170,016.00		93,051.00
IGST TDS		654,928.00		148,134.00
SGST TDS @ 1%		170,016.00		93,051.00
Director's Other Deductions(Water Charges,LIC,HR,GIS)		58,498.00		63,816.00
PF Contribution of Director		74,800.00		81,600.00





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PF Subscription	15,424,957.00	12,218,192.00
Tax Deducted at Source (Non-Resident Sec 195)	-	749,767.00
Tax (IT/SC/EC)Contractor	508,958.00	398,574.00
Tax(IT/SC/EC) Professional U/s.194J	492,193.00	445,771.00
Tax (IT/SC/EC)Rent	97,780.00	89,600.00
TDS(IT)Staff	12,428,121.00	10,933,666.00
<b>Projects Statutory Liability</b>		
CGST TDS @1%	6,000.00	3,439.00
IGST TDS @ 2%	42,562.00	46,422.00
SGST TDS @1%	6,000.00	3,439.00
Tax Deducted at Source -194C	12,000.00	-
Tax Deducted at Source -194J	143,189.00	51,920.00
<b>TOTAL</b>	<b>30,290,018.00</b>	<b>25,420,442.00</b>

**Any other receipts - Misc**

	RP Schedule -11	
	Current Year	Previous Year
Convocation Registration Fees	1,500.00	1,000.00
<b>Workshop, Summer Course, Other Programmes</b>		
Conference Regn. Fees - MIKE 2019	51,266.00	-
Summer Course Regn.	-	122,500.00
<b>TOTAL</b>	<b>52,766.00</b>	<b>123,500.00</b>

**Expenses**

	RP Schedule -12	
	Current Year	Previous Year
<b>Establishment Expenses</b>		
NPS Matching Share	8,364,416.00	5,592,641.00
<b>Salary and Wages</b>		
Salary and Wages(Contractual)	3,654,670.00	928,720.00
Salary and Wages(Faculty)	58,180,191.00	57,169,230.00
Salary and Wages(Contractual Teaching)	4,701,763.00	2,204,356.00
Salary and Wages(Staff)	15,092,609.00	15,629,746.00
<b>Staff Travelling Allowance</b>		
TA to Staff	503,139.00	739,459.00
Director TA/DA	160,532.00	167,296.00
<b>Staff Welfare Expenses</b>		
Children Education Allowance	670,500.00	-
LTC(EL)	421,564.00	453,960.00
LTC(Leave Travel Concession)	1,953,060.00	1,563,735.00
Medical Care(Staff)	968,876.00	669,244.00
Director Telephone Charges	-	4,767.00
Leave Encashment	-	815,802.00
Staff Telephone Charges	129,333.00	130,798.00
	<b>94,800,653.00</b>	<b>86,069,754.00</b>
<b>Academic Expenses</b>		
Curricular Activities Expenses	651,456.00	797,054.00
Examination Expenses	37,557.00	16,490.00
Honorarium	552,000.00	871,367.00
Lab Consumable	259,028.00	577,324.00
M.Tech.(Gate) Stipend	9,190,231.00	9,289,389.00
Online Subscription	500,965.00	3,728,952.00
Ph.D. Stipend	21,893,732.00	18,536,475.00
Phd Contingency Expenses	-	694,506.00
Sports Expenses	222,205.00	126,248.00
Subscription	430,000.00	612,632.00
Expenses for Summer Course Org.	252,500.00	122,500.00
Conference Expenses- MIKE 2019	394,405.00	-
<b>Convocation Expenses</b>		
Convocation Event Management Expenses	402,790.00	775,402.00
Convocation Expenses - Contingency/Hospitality	336,566.00	381,276.00
Convocation Miscellaneous Expenses	70,147.00	114,274.00
Convocation - Postage Expenses	-	6,130.00
Convocation Printing & Stationery	626,132.00	567,989.00





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Convocation Travelling & Conveyance Expenses	75,371.00	35,895,085.00	116,647.00	37,334,655.00
<b>Other Administrative Expenses</b>				
Accommodation	12,487.00		-	
Advertisement & Publicity Expenses	420,840.00		39,892.00	
Audit Fee	248,790.00		321,895.00	
Contingency Expenses	329,603.00		617,705.00	
Electricity & Power	2,232,563.00		771,827.00	
Foreign Exchange Loss	20,668.78		10,465.00	
Hospitality Expenses	229,915.00		428,029.00	
House Rent	565,000.00		492,055.00	
Internet Charges(Payment)	1,539,900.00		909,392.00	
Training & Placement Cell Expenses	48,542.00		70,091.00	
Training to Staff & Faculty	-		95,344.00	
Medicines	214,163.00		170,887.00	
Meeting Expenses	122,746.00		157,192.00	
Membership	-		14,689.00	
Miscellaneous Expenses	-		30,516.00	
News Paper & Subscription	21,943.00		23,200.00	
Postage	23,787.00		40,833.00	
Printing & Stationary	1,771,696.00		1,053,604.00	
Professional Charges	11,800.00		11,800.00	
Rent, Rate & Tax	7,500.00		-	
SAC Expenses	241,122.00		191,775.00	
Service Charges	11,921.00		11,203.00	
Telephone Charges	107,392.00		97,921.00	
Staff Recruitments Expenses	23,519.00		29,557.00	
Travelling & Conveyance Expenses	14,047.00		148,271.00	
Water Charges Expenses	207,657.00		260,262.00	
<b>Outsourced Expenses 1</b>				
Thunder Force Pvt. Ltd.	1,786,941.00		7,535,068.00	
Goa Intelligence Security Service -Canacol	6,582,687.00		-	
<b>PDA Administrative Expenses</b>				
PDA Consumables	280,363.00		719,670.00	
PDA Registration Fees	216,948.00		165,887.00	
PDA TA	358,815.00		161,751.00	
<b>Seed Money Administrative Expenses</b>				
Seed Money - Lab Consumable	218,422.00		158,797.00	
<b>Travelling Allowance</b>				
MGM International Travels	1,795,263.00		1,571,530.00	
TA to Outsiders	287,855.00	19,954,895.78	394,185.00	16,705,293.00
<b>Finance Cost</b>				
Bank Commission/Charges	39,491.95	39,491.95	17,371.69	17,371.69
<b>Hostel Mess Charges</b>				
Ideal Catering Services		8,877,011.00		7,419,015.00
<b>Transportation Expenses</b>				
Vibhav Vinayak Chari	286,666.00		-	
Vehicle Insurance Expenses	33,727.00		62,175.00	
Shubhalakshmi Motors	925,500.00		919,000.00	
Vehicle Repairs & Maintenance Expenses	78,542.00		104,664.00	
Vehicle (Taxi) Hiring Expenses	109,690.00		244,493.00	
Vehicle Running & Maintenance	259,715.00	1,693,840.00	332,930.00	1,663,262.00
<b>Repair &amp; Maintenance</b>				
Repair & Maintenance -Others	273,098.00		613,439.00	
Repairs & Maintenance - Buildings	11,257,059.00		10,166,497.00	
Repairs & Maintenance - Furniture.	219,594.00		163,376.00	
Repairs & Maintenance - Electrical	1,190,392.00		371,689.00	
Housekeeping/Cleaning & Maintenance Expenses	9,665,069.00		6,729,359.00	
AMC Charges of Software	806,524.00		799,846.00	
Repairs & Maintenance of Computers	384,279.00	23,796,015.00	130,803.00	18,975,009.00
<b>Prior Period Expenses</b>				75,049.00
<b>TOTAL</b>		<b>185,056,991.73</b>		<b>168,259,408.69</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>12,000.00</b>	<b>-</b>

Payments against Sponsored Projects/Schemes

	RP Schedule -14	
	Current Year	Previous Year
Overhead-Faculty & Staff Development Fund	1,112,831.00	-
Overhead-Professional Development Fund	-	24,898.00
Fund for Training Under "SMDP-C2SD"-CEERI PILANI	-	243,921.11
Funds for Workshop - Central Electronics Engineering Research Institute(CEERI) Analysis of Cardiovascular Disorders Using Heart Sound Signals- SERB-Dr. Shivnarayan Patidar	290,250.00	175,866.00
Computational and Theoretical Studies on Parabolic Partial Differential Equations in CM-SERB-Dr. Shangerganesh	212,072.76	24,194.00
Convective Instabilities in Double Diffusive Systems-SERB- Dr. Ravi Ragoju	179,838.00	-
Methods for early detection of Stem and Root Borer Plocaederus spp infestation in cashew-SERB - Dr. Veerakumar T.	180,955.00	-
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 Mikkil	546,174.00	181,852.00
Design and Development of Compact and Wideband Dielectric Resonator Antennas - SERB -Dr. Pragati Patel	155,493.00	24,597.00
Design and Development of Fingerprint and Face Recognition Systems for Infants and Toddlers (IATs)-SERB-Dr. Amol Deodas Rahulkar	325,355.00	271,909.00
Design and Implementation of an Inverter for A Grid Connected Photovoltaic System Which Is A Part of VPP-Dr. Sree Raj	688,599.00	315,974.00
Photovoltaic Array Fed Single Stage PV System Using an Open WIM-Dr.Venugopal Reddy	282,652.00	-
Design & Development of A Photovoltaic - Thermoelectric Hybrid Energy System-Dr. Lalat Indu Giri	165,315.00	380,489.00
Design & Development of Roast Distributed Nonlinear Channel Equalization & Identification- -SERB-Dr. Trilochan P	334,529.00	522,564.00
Designing Out-of-VM Monitoring Based Virtual Machine Introspection Framework for SVECC-Dr. Chirag Modi	361,621.00	468,261.00
Design of Compact Shaped Beam Antenna Array for Dedicated Short Range Communication Service-Dr. Anirban Chatterjee	366,299.00	415,438.00
Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB- Dr. Soumitra Das	329,816.00	218,289.00
Design, Simulation and Implementation of Bandpass Sigma Delta - SERB-Dr.Nithin Kumar Y.B	418,186.78	97,220.00





Development of A Multipurpose Intelligent Controller for A Nano Grid Operation--MNRE-Dr. C. Vyjayanthi	74,651.00	120,603.00
Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C.Vyjayanthi	225,509.00	83,895.00
Development Of Efficient Algorithms For Photoacoustic Tomography (Pat) - SERB-Dr. Raviprasad K.J	603,826.62	-
Development of Efficient Algorithms for Predicting The Incidence of Malaria Cases in India Using Spiking Neuron Models"-Dr.Venkatareshbabu Kuppilli	267,783.00	300,000.00
Development of Secure Key Management Protocols for Group Communication Under Active Outsider Attack Model-SERB-Dr.Purushothama B.R.	257,232.19	347,908.00
Energy Efficient Lighting with Visible Based Communication & Power Line Communication- Dr. Ankit Dubey	111,109.00	264,470.24
Enhanced Automation of 3-Axis CNC Milling Machine Using Computer Vision and Artificial Intelligence-SERB-Dr.Pravati Swain	385,677.26	133,189.00
EPR Studies of Some Ni(II) Complexes in Crystalline Enviornment: Probing the Structure, Bonding and Electron Spin Relaxation Rates - SERB -Dr.Velavan Kathirvelu	-	578,416.81
Improved PHY and MAC Strategies for M2M Communications in Smart Grid Over Wireless and PLC Hetrogenous Network - Dr. Ankit Dubey	-	140,323.00
Monit Air: An IoT Based Air Pollution Monitoring System- Dr. S. Mini & Dr. Trilochan Panigrahi	480,646.07	279,087.00
MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr.S. Mini	338,404.92	266,452.00
Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology" TERI -Dr.Lalat Indu Giri	1,132,581.00	557,015.00
Secure and Efficient Communications Inside Partitioned Socialoverlaynetworks-Dr. Keshavamurthy B.N	670,132.00	239,167.00
Special Manpower Development Program for Chips to System Design - Central Electronics Engineering Research-Dr.Nithin Kumar Y.B	1,133,984.00	1,077,418.00
Suspended Functional Magnetic Microparticle Array based Point-of-Care Diagnostic System for MBMSS-SERB-Dr.Prasanth G.R.	503,529.00	97,084.00
Harnessing Technological Innovations for Stustainable Development: The Role of Intellectual Property Rights - ICSSR (MHRD) - Dr. Sunil Kumar A.	3,000.00	-
Visvesvaraya Phd Scheme - Media Lab Asia (Batch 2014-15) -Dr.Nithin Kumar Y.B	522,323.00	614,637.00
Visvesvaraya Phd Scheme - Media Lab Asia -(Batch 2015-16)-Dr.Nithin Kumar Y.B	1,151,515.00	1,419,143.00
<b>TOTAL</b>	<b>13,811,889.60</b>	<b>10,934,851.16</b>







**Payments against Sponsored Fellowships / Scholarships**

	RP Schedule -15	
	Current Year	Previous Year
Other Scholarships	-	15,000.00
Scholarship of Tribal, GoI	-	4,200.00
Scholarship Govt. of Madhya Pradesh	32,833.00	34,033.00
Scholarship-Fellowship-Inspire Fellowship-DST-Trilochan P.	416,440.00	226,344.00
Scholarship Social Justice	1,162,620.00	353,260.00
<b>TOTAL</b>	<b>1,611,893.00</b>	<b>632,837.00</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	499,801.00	750,220.00
Computer/peripherals	8,925,388.00	1,379,480.00
Computer/peripherals (50% Ownership) - Visvesvaray Phd Scheme	-	274,200.00
Furniture & Fixture	1,110,170.00	720,792.00
Office Equipment	438,500.00	132,774.00
Hostel Equipment	80,900.00	60,000.00
Hostel Furniture	-	42,500.00
Lab Equipments - P & M	4,016,942.00	1,434,925.00
Library Books	720,878.00	73,466.00
Plant, Machinery & Equipment	702,013.00	563,302.00
Sports Equipments	-	48,000.00
Small Value Assets	68,412.00	116,510.00
Software & Program	9,817,546.00	-
<b>Intangible Assets</b>	26,380,550.00	5,596,169.00
Patent - Fibonacci Series based rectangular Microstrip patch Antena	-	40,500.00
<b>Capital Work in Progress</b>		
New Campus at Cuncolim - CWIP(Civil)	2,317,242.00	7,380.00
<b>Sponsored Projects Fixed Assets</b>		
Lab Equipments-SERB Project -Dr. Anirban Chatterjee	-	1,475,995.00
Computers & Peripherals	206,720.00	-
Lab Equipments - Design and Development of compact and Wideband Dielectric Resonator Antennas -SERB- Dr. Pragati Patel	455,616.00	-
Lab Equipments-Design & Development of a Dynamic Photovoltaic Array Fed Single Stage PV System Using an Open WIM- Dr.Venugopal Reddy	162,750.00	-
Computer & Peripherals-Analysis of Cardiovascular Disorders Using Heart Sound Signals- SERB-Dr. Shivnarayan Patidar	-	88,266.00
Intangible Assets-analysis of cardiovascular disorder using heart sound signals-Dr shivnarayan Patidar	-	25,200.00
Computer & Peripherals - Convective Instabilities in Double Diffusive Systems-SERB- Dr. Ravi Ragoju	-	170,000.00
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	370,850.00	1,439,666.00
Lab Equipments -Design and Implementation of an Inverter for A Grid Connected Photovoltaic System Which Is A Part of VPP-Dr. Sree Raj	-	243,065.00





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lab equipments -Design & Development of A Photovoltaic -Thermoelectric Hybrid Energy System-Dr. Lalat Indu Giri	-		24,780.00	
Plant & Machinery -SERB Project -Dr. Trilochan Pani	-		39,368.00	
Lab Equipments-Development of A Multipurpose Intelligent Controller for A Nano Grid Operation -MNRE--Dr. C. Vyjayanthi	-		997,500.00	
Lab Equipments -Development of Coordination Control Schemes for Hybrid AC/DC Micro Grids for Stable and Reliable System Operation-SERB-Dr. C.Vyjayanthi	474,265.00		854,820.00	
Computer & Peripherals -MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr.S. Mini	-		159,400.00	
Lab Equipments -MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr. S. Mini	-		22,878.00	
Software-MonitNoise:An IOT Based Noise Level Assessment System in Urban Cities of India-SERB -Dr.Trilochan Panigrahi & Dr. S. Mini	-		238,560.00	
Computer & Peripherals - Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB-Dr. Soumitra Das	125,989.00		-	
Lab Equipments - Design of Superior Pulsewidth Modulation Schemes for High-Performance Multilevel Converter Based Grid-Connected Photovoltaic System-SERB-Dr. Soumitra Das	1,530,870.00		-	
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	56,100.00		-	
Computer and Peripherals - Visvesvaraya Phd Scheme (Batch 2014-15)	-		93,700.00	
Computer and Peripherals - Visvesvaraya Phd Scheme (Batch 2015-16)	-		180,500.00	
Computers & Peripherals - Off Grid Sensor Controlled Irrigation Using Bank Filtration Technology-TERI- Dr.Lalat Indu Giri	-	3,476,380.00	95,300.00	6,148,998.00
<b>TOTAL</b>		<b>32,174,172.00</b>		<b>11,793,047.00</b>

Other Payments including statutory Payments

Sundry Creditors	Current Year		RP Schedule -17	
			Previous Year	
C. Shrikanth	45,000.00		-	
O/s CPWD, Goa	897,330.00		-	
CPWD, Goa - New Campus	300,526,040.00		-	
Forevision Instruments (India) Pvt. Ltd.	399,516.00		-	
Regalia Interiors	64,000.00		-	
S.S. Traders	149,085.00		-	
YNC Systems	-		-	
<b>Liability for Expenses</b>		302,080,971.00	2,224,016.00	2,224,016.00
O/s Audit Fee	54,000.00		63,720.00	
O/s Electricity Charges	7,818.00		107,061.00	
O/s MGM International Travels	189,148.00		157,657.00	
O/s. Ideal Catering Services	889,829.00		752,011.00	





O/s Lien Contribution of Director	860,388.00	-	
O/s News Paper & Periodicals	-	3,134.00	
O/s Printing & Stationary	2,000.00	-	
O/s. Staff Telephone Charges	11,150.00	-	
O/s Hospitality Expenses	74,519.00	8,506.00	
O/s TA to Outsiders	1,700.00	-	
O/s Mis. Expenses	3,950.00	5,753.00	
O/s. Vehicle (Taxi) Hiring Expenses	26,028.00	-	
O/s NPS Matching Share	542,440.00	565,830.00	
O/s Repair & Maint.	-	78,190.00	
O/s Salary & Wages	7,276,329.00	6,269,797.55	
O/s. Sree Vinayaka Enterprises	778,630.00	481,549.00	
O/s Stipend (M Tech & Phd)	-	2,421,757.00	
O/s. Subscription	-	2,654,150.00	
O/s Telephone Charges	19,641.00	22,716.00	
O/s Thunder Force Pvt. Ltd.	654,597.00	665,643.00	
O/s. Transportation Expenses	81,340.00	122,010.00	
O/s Vehicle Running & Maint.	-	24,058.00	
O/s Water Charges	-	36,000.00	
O/s Contingency Expenses	17,400.00	55,093.00	
O/s Conference & Seminar	-	90,199.00	
<b>Sponsored Projects Liabilities</b>		11,490,907.00	14,584,834.55
O/s. Bank Charges	-	2,163.95	
O/s. Conference & Seminar	-	49,397.00	
Libellum Comunicaciones Distribuidas SL	-	437,723.00	
Prakash Freight Movers Limited	-	96,266.00	
AT-Automation Technology Gmbh	-	1,138,900.00	
Indian Institute of Science, Bangalore	-	243,376.31	1,967,826.26
<b>Statutory Liability</b>			
PF Subscription	15,338,831.00	12,218,192.00	
Director's Other Deductions(Water Charges,LIC,HR,GIS)	58,498.00	63,816.00	
PF Contribution of Director	74,800.00	81,600.00	
CGST TDS @ 1%	175,551.00	75,144.00	
IGST TDS	691,997.00	79,820.00	
SGST TDS @ 1%	175,551.00	75,144.00	
Tax Deducted at Source (Non-Resident Sec 195)	-	911,456.00	
Tax (IT/SC/EC)Contractor	506,816.00	429,480.00	
Tax(IT/SC/EC) Professional U/s.194J	834,751.00	424,807.00	
Tax (IT/SC/EC)Rent	102,460.00	87,900.00	
TDS(IT)Staff	12,426,646.00	10,933,666.00	
<b>Projects Statutory Liability</b>			
CGST TDS @1%	6,000.00	3,439.00	
IGST TDS @ 2%	42,562.00	46,422.00	
SGST TDS @1%	6,000.00	3,439.00	
Tax Deducted at Source -194C	12,000.00	499.00	
Tax Deducted at Source -194J	171,045.00	79,231.00	25,514,055.00
<b>Advance Receivable</b>			
Prepaid Expenses		2,487,086.00	2,791,306.00
<b>Permanent Imprest Advance</b>			
Permanent Adv. Chairman, T&P	15,000.00	15,000.00	
Permanent Advance (Dean Academics)	15,000.00	10,000.00	
Permanent Adv. Chief Warden	45,000.00	10,000.00	
Permanent Adv. Dean, Planning & Development	15,000.00	15,000.00	
Permanent Adv.Registrar	15,000.00	15,000.00	
Permanent Adv. HOD, Mechanical & Civil Engg.	15,000.00	-	65,000.00
<b>Advance to Staff towards expenses</b>			
Amit Kabiraj, AR	-	131,000.00	
Anil Mistri, Jr. Asst. (Emp. Code - 4140061)	40,000.00	62,280.00	
B. Santhi, Asst. Prof.	40,000.00	-	
B. Venugopal Reddy	236,000.00	10,000.00	
Digambar R. Dhengole	10,000.00	-	





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Dr. Amol D. Rahulkar, Asst. Prof. (Emp. No.-1140067)	57,000.00		26,700.00	
Dr. Anirban Chatterjee, Asst. Prof. (Emp. No.-1130035)	167,000.00		-	
Dr.C. Vyjayanthi, Asst. Prof. (Emp. Code-1140069)	38,500.00		102,000.00	
Dr. E. Mallikarjun, Asst. Prof. (Emp Code-1160086)	52,000.00		111,730.00	
Dr. Keshavamurthy B. N., Asst. Prof (1140043)	32,500.00		134,000.00	
Dr. Lalat Indu Giri, Asst. Prof. (Emp. Code -1150073)	30,000.00		107,900.00	
Dr. L. Shangerganesh, Asst. Prof. (Emp. No.-1160083)	-		143,900.00	
Dr. Pragati Patel, Asst. Prof.- Emp. No.-1160085	36,000.00		30,000.00	
Dr. Prasanth G. R., Asst. Prof.(Emp. Code-1150072)	-		310,000.00	
Dr. Pravati Swain, Asst. Prof. (Emp. Code-1140064)	10,000.00		75,000.00	
Dr. Ragoju Ravi, Asst. Prof. (Emp. No.-1130024)	70,000.00		70,000.00	
Dr.Sarani Ghosal Mondal, Asst. Prof.-Emp - 1130015	-		25,000.00	
Dr. Shivnarayan Patidar, Asst. Prof. (Emp. No.-1150071)	284,000.00		54,000.00	
Dr. S. Mini, Asst. Prof. (Emp. Code - 1140045)	-		130,000.00	
Dr. Soumitra Das, Asst. Prof., Emp. No.-1150074	-		166,000.00	
Dr. Sunil Kumar A, Asst. Prof.-Emp. No.-1160087	7,700.00		-	
Dr. Trilochan Panigrahi, Asst. Prof. (Emp. No.-1140066)	144,000.00		167,000.00	
Dr. Veena Thenkanidlyoor, Asst. Prof. (1130016)	20,000.00		10,000.00	
Dr. Veerakumar T., Asst. Prof. - Emp. No.-1130033	-		99,000.00	
Modi Chirag Navinchandra, Asst Prof. (Emp. No. 1140068)	216,000.00		153,000.00	
Mrs. Suvidha Naik, Technical Assistant	-		19,800.00	
Mrs. Swara S. Lotlikar, Steno,Emp. Code - 4160079	4,000.00		-	
Munesh Kumar, AL	166,000.00		156,150.00	
Nijin M., Technician (3140056)	-		24,000.00	
Nithin Kumar Y. B (1130036)	95,000.00		67,200.00	
Pinaki Chaterjee-Technical Asst. (Emp. No.-3160082)	-		12,300.00	
Prasanth P., SO	255,000.00		137,000.00	
Prof. Gopal Mugeraya, Director	337,900.00		-	
P Saidi Reddy(1130009)	525,500.00		344,300.00	
Purushothama B.R.(1130022)	242,000.00		25,000.00	
Saavyas NIT Goa	-		541,701.00	
Sreeraj E. S., Asst. Prof (Emp. Code - 1140041)	25,000.00		84,000.00	
Suresh Mikkil Asst. Prof.	244,000.00		81,000.00	
Vasantha M. H Asst Prof. (1130032)	150,000.00		214,100.00	
Velavan Kathirvelu Asst. Prof (1130013)	224,000.00		-	
Vijeesh VP, Technician (Emp Code-3140049)	66,000.00	3,825,100.00	52,000.00	3,877,061.00
<b>Sponsored Project Staff Imprest Advances</b>				
Dr. Keshavamurthy B.N., Assoc. Prof.	40,000.00		-	
Dr. Lalat Indu Giri, Asst. Prof.	-		70,000.00	
Dr. Prashanth G.R., Asso. Prof.	10,000.00		20,000.00	
Nithin Kumar Y.B., Asst. Prof.	-	50,000.00	100,000.00	190,000.00
<b>Advance to Supplier/Contractor</b>				
Rajiv Gandhi Kala Mandir	-		140,140.00	





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Goa State PWD	-		500,000.00	
Kala Academy Goa	-		179,210.00	
Bruker Singapore Pte. Ltd.	6,396,399.00		-	
Ravindra Bhavan Margao	72,400.00		-	
The Executive Engineer PWD DIV VIII Margao	45,000,000.00		-	
The Executive Engineer, WD-XVI (BC) PWD, Ponda	792,000.00		-	
Payu Money-Hostel	4,959,000.00		3,348,600.00	
Payu Money-Tuition Fees	10,829,627.00		5,605,825.00	
Madan Sadhale	412,800.00	68,462,226.00	356,000.00	10,129,775.00
<b>Advance to Supplier/Contractor - Projects</b>				
International Centre Goa		-		500,000.00
<b>Fees/subscription Refunded</b>				
Admission Fee (B Tech)	-		3,910.00	
Admission Fee (M Tech)	3,000.00		-	
Hostel Rent (B Tech)	5,033.00		26,006.00	
Hostel Rent (M Tech)	10,956.00		-	
B Tech Tuition Fees	-		291,668.00	
DASA Tuition Fees	-		29.61	
M -Tech Other Fees	6,000.00		-	
M-Tech Tuition Fees	105,000.00	129,989.00	140,000.00	461,613.61
<b>TOTAL</b>		<b>419,269,787.00</b>		<b>62,305,487.42</b>

Deposits and Advances

RP Schedule -18

	Current Year		Previous Year	
<b>Deposits and Advances Utilised /Refunded</b>				
Alumni Association Fees	-		500.00	
Alumni Association(NITGAA) (M Tech)	3,000.00		-	
CCMT Expenses Advance Received	459,048.00		397,089.00	
CSAB Expenses Advance Received	423,428.00		317,415.00	
DASA Admission Expenses Reimbursement	24,000.00		15,000.00	
Grant Received for Startup Centres-MHRD	-		243,822.00	
Group Insurance Scheme	637,884.00		564,960.00	
Group Insurance Scheme (Phd)	-		1,200.00	
Group Insurance Scheme (M Tech)	3,600.00		-	
Hall Establishment Charges	808,144.00		409,106.00	
Hall Establishment Charges (B Tech)	10,065.00		52,017.00	
Hall Establishment Charges (M Tech)	21,914.00		-	
IIT Delhi - Unnat Bharat Abhiyaan Scheme	152,382.00		3,142.00	
Mess Adv.	17,254.00		-	
Mess Adv. (B Tech)	34,725.00		164,669.00	
Mess Adv. (M Tech)	75,600.00		-	
Unit of Science and Educational Development-MHRD	145,000.00		-	
NIT Rourkela	-		111,506.00	
SAC(Student Activity Centre)Fee	-		2,225.00	
SAC(Student Activity Centre) Fee (M Tech)	9,000.00		-	
Students Fee Receivable	105,540.00		-	
Student Fees Refundable (M-Tech)	577,800.00		124,600.00	
Students Hostel Fee Refundable(B.Tech)	-		29,700.00	
Students Fee Refundable (B-Tech)	-	3,508,384.00	1,893,073.00	4,330,024.00
<b>Sponsored Projects Deposits and Advances Utilised /Refunded</b>				
Science & Engineering Research Board		-		70,071.00
<b>Security Deposit Refunded</b>				
<b>Performance Gurantee of Supplier/Contractor</b>				
PG M.A. Doddamani	21,273.00		-	
PG Sheela Equipments	-		12,403.00	
PG S. P. Construction	-		2,500.00	
PG Star Furniture	25,163.00	46,436.00	-	14,903.00





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<u>Performance Gurantee of Supplier/Contractor of Sponsored Projects</u>				
PG Abhishek Scientific Co.	-		3,121.00	
PG- Jyoti Electronics	-		22,800.00	
PG Sadhale Enterprises	-		12,009.00	
PG - Ecosense Sustainable Solutions Pvt. Ltd.	49,875.00	49,875.00	-	37,930.00
<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 Creative Books	42,000.00		-	
SD Eagle Photonics	30,000.00		8,525.00	
SD Ecosense Sustainable Solutions Pvt. Ltd.	-		25,000.00	
SD Forevision Instruments India Pvt. Ltd.	130,000.00		-	
S D - Fusion Events Limited	-		28,000.00	
SD Galaxy Computers	-		4,698.00	
SD Gurukul Online Learning Solutions	-		11,025.00	
SD Jayam Electronics	-		2,137.00	
SD M.A. Doddamani	-		11,000.00	
SD Narendra Publishing House	42,000.00		-	
SD National Infotech	-		8,000.00	
SD Noorahmed Bhadrapur	-		8,000.00	
SD Pragna Microdesign	29,492.00		13,385.00	
SD Prajakt Amonkar	25,000.00		-	
SD Prashant R. Naik	-		4,000.00	
SD Ragiv Marketing	-		28,250.00	
SD Schematix	6,000.00		-	
SD Sean Adevent	15,000.00		-	
SD Sheela Equipments Pvt. Ltd.	-		10,000.00	
SD Smartsoft	-		125,500.00	
SD- S.S.Traders	20,000.00		-	
Sd Star Furniture	-		10,000.00	
SD Technical Bureau India Pvt. Ltd.	42,000.00		-	
Sd Vitronics (India)	-		11,000.00	
SD VSP Books International	42,000.00	549,492.00	-	308,520.00
<u>Security Deposit(Student)</u>				
B Tech Security Deposit Refundable	320,000.00		348,000.00	
M-Tech Security Deposit Refundable	188,000.00		180,000.00	
PHD Security Deposit Refundable	16,000.00	524,000.00	20,000.00	548,000.00
<b>TOTAL</b>		<b>4,678,187.00</b>		<b>5,309,448.00</b>

**Closing Cash and Bank Balances**

	Current Year		RP Schedule -19	
			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	672,405.00		672,405.00	
Investment A/c No.530401024338681	-		9,900,000.00	
Investment A/c No.530401024338896	9,900,000.00		9,900,000.00	
Investment A/c No.530401024338964	9,900,000.00		9,900,000.00	
Investment A/c No.530401024339022	9,900,000.00		9,900,000.00	
Investment A/c No.530401024339107	9,900,000.00		9,900,000.00	
Investment A/c No.-530401024339169	9,900,000.00		9,900,000.00	
Investment A/c No.530401024339282	9,900,000.00		9,900,000.00	
Investment A/c No.530401024339404	9,900,000.00		9,900,000.00	
Investment A/c No.530401024339459	9,900,000.00		9,900,000.00	
Investment A/c No.-530401024339596	9,900,000.00		9,900,000.00	
Investment A/c No.530401024339695	9,900,000.00		9,900,000.00	
Investment A/c No.530401024339770	9,900,000.00		9,900,000.00	
Investment A/c No.-530401024339824	9,900,000.00		9,900,000.00	
Investment A/c No.-530401024339879	9,900,000.00		9,900,000.00	





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Investment A/c No.-530401024339886	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339961	9,900,000.00	9,900,000.00
Investment A/c No.-530401024339992	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340073	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340097	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340172	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340202	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340271	9,900,000.00	9,900,000.00
Investment A/c No.530401024340288	9,900,000.00	9,900,000.00
Investment A/c No.530401024340318	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340325	9,900,000.00	9,900,000.00
Investment A/c No.530401024340394	9,900,000.00	9,900,000.00
Investment A/c No.530401024340462	9,900,000.00	9,900,000.00
Investment A/c No.530401024340516	9,900,000.00	9,900,000.00
Investment A/c No.530401024340561	9,900,000.00	9,900,000.00
Investment A/c No.530401024340646	9,900,000.00	9,900,000.00
Investment A/c No.530401024340653	9,900,000.00	9,900,000.00
Investment A/c No.530401024340738	9,900,000.00	9,900,000.00
Investment A/c No.530401024340745	9,900,000.00	9,900,000.00
Investment A/c No.530401024340752	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340783	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340790	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340806	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340851	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340875	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340905	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340943	9,900,000.00	9,900,000.00
Investment A/c No.530401024340967	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340974	9,900,000.00	9,900,000.00
Investment A/c No.-530401024340981	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341018	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341025	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341049	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341063	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341087	-	9,900,000.00
Investment A/c No.530401024341094	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341131	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341179	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341186	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341223	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341247	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341285	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341308	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341377	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341384	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341391	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341445	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341469	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341490	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341513	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341537	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341599	9,900,000.00	9,900,000.00
Investment A/c No.-530401024341643	9,900,000.00	9,900,000.00
Investment A/c No.530401024342312-DASA A/c	6,000,000.00	6,000,000.00
Investment A/c. No.530401041264567-DASA	6,600,000.00	-
Investment A/c. No. 530401024342527-Hostel Dev. Fund	127,600.00	127,600.00
Investment A/c No.-530401024342695-Misc. Fines	700,000.00	700,000.00
Investment A/c No.-530401024342749	700,000.00	700,000.00
Investment A/c No.-530401024342800- Institute Dev. Fund	6,281,652.00	6,281,652.00
Investment A/c No.-530401024747353	-	9,900,000.00
Investment A/c No.-530401024748299	-	9,900,000.00
Investment A/c No.-530401024749760	-	9,900,000.00
Investment A/c No.-530401024750537	-	9,900,000.00
Investment A/c No.-530401024751923	-	9,900,000.00
Investment A/c No.-530401024752067	-	9,900,000.00





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Investment A/c No.-530401024752180	-	9,900,000.00	
Investment A/c No.-530401024752333	-	9,900,000.00	
Investment A/c No.-530401024752579	-	9,900,000.00	
Investment A/c No.-530401024752678	-	9,900,000.00	
Investment A/c No.-530401024752999	-	9,900,000.00	
Investment A/c No.-530401024753149	9,900,000.00	9,900,000.00	
Investment A/c No.-530401024753965	9,900,000.00	9,900,000.00	
Investment A/c No.-530401024754153	9,900,000.00	9,900,000.00	
Investment A/c No.-530401024754375	9,900,000.00	9,900,000.00	
Investment A/c No.-530401024754528	9,900,000.00	9,900,000.00	
Investment A/c No.-530401024754672	-	9,900,000.00	
Investment A/c No.-530401024754825	-	9,900,000.00	
Investment A/c No.530401028802232	-	9,900,000.00	
Investment A/c No.530401028802249	-	9,900,000.00	
Investment A/c No.530401028839597	-	9,900,000.00	
Investment A/c No.530401028839771	-	9,900,000.00	
Investment A/c No.530401028839894	-	9,900,000.00	
Investment A/c No.530401028840173	-	9,900,000.00	
Investment Ac. no. -530401087496624	31,150,150.00	31,150,150.00	
Investment Ac. no. -530401087496632	31,794,663.00	31,794,663.00	
Investment A/c. No.530101343585110	-	9,900,000.00	
Investment A/c. No.530101343585527	-	9,900,000.00	
Investment A/c. No.530101343585554	-	9,900,000.00	
Investment A/c. No.530101343585581	9,900,000.00	9,900,000.00	
Investment A/c. No.-530101343585615	-	9,900,000.00	
Investment A/c No.-530401034272234	-	9,900,000.00	
Investment A/c No.-530401034272401	-	9,900,000.00	
Investment A/c No.-530401034272470	-	9,900,000.00	
Investment A/c No.-530401034272579	-	9,900,000.00	
Investment A/c No.-530401034273484	9,900,000.00	9,900,000.00	
Investment A/c No.-530401034721428	-	9,900,000.00	
Investment A/c No.-530401034721558	-	9,900,000.00	
Investment A/c No.-530401034721671	-	9,900,000.00	
Investment A/c No.530401034721756	-	9,900,000.00	
Investment A/c No.-530401035984839	-	9,900,000.00	
Investment A/c No.-530401035985140	-	9,900,000.00	
Investment A/c No.-530401035985393	-	9,900,000.00	
Investment A/c No.-530401035985645	-	9,900,000.00	
Investment A/c No.-530401035985904	-	9,900,000.00	
Investment A/c No.-530401036091840	9,000,000.00	9,000,000.00	
Investment A/c No.-530401036092069	7,000,000.00	7,000,000.00	
Investment A/c No.-530401036092236	7,000,000.00	7,000,000.00	
Investment A/c No.-530401036092502	4,000,000.00	4,000,000.00	
Investment A/c No.530401041263577	15,000,000.00	-	
Investment A/c. No. - 530401041263874	15,000,000.00	-	
Investment A/c No.-530401041264000 - Misc. Fines	1,000,000.00	-	
Investment A/c No.530401041264291-Alumni	400,000.00	-	
Investment A/c No.530401041264369-CSAB	1,500,000.00	-	
Investment A/c. No.530401041264482 - Hostel	6,000,000.00	-	
Investment A/c No.530401041288792	15,000,000.00	-	
Investment A/c. No. - 530401041288907	15,000,000.00	-	
Investment A/c. No. - 530401041308322	10,000,000.00	-	
Investment A/c. No. KCC/01/170012-530401087497108	5,359,295.00	5,359,295.00	
Investment A/c. No. KCC/01/170013-530401087497159	5,359,295.00	5,359,295.00	
Investment A/c. No. KCC/01/170015-530401087497132	3,751,507.00	3,751,507.00	
Investment A/c. No. KCC/01/170016-530401087497140	4,287,436.00	4,287,436.00	
Investment A/c. No. KCC/01/170017-530401087497116	5,359,295.00	5,359,295.00	
Investment A/c. No.-KCC 530401721030914	800,000.00	927,643,298.00	800,000.00
<b>In Saving Accounts</b>			<b>1,218,343,298.00</b>







Corp. Bank CSAB/CCMT A/c No.SB/01/2538-520101026778293	35,684.00		1,454,780.00	
Corp. Bank Growth Fund A/c No.SB/1935- 520101026774846	612,079.08		194,221.37	
Corp. Bank Hostel A/c No.SB/01/1250- 520101026768530	4,575,638.01		4,831,400.01	
Corp. Bank Mis. A/c No.SB/01/1915- 520101026774476	7,111.28		504,471.28	
Corp. Bank -NITGOARC-SB/01/4333- 520101026782665	16,822.00		167,023.00	
Corp. Bank NIT Plan A/c No.SB/000653- 520101026763067	2,483,551.64		31,395,748.05	
Corp. Bank NIT Plan A/c No.SB/01/4363- 520101026782843	27,245.00		367,414.00	
Corp Bank SB - Director NIT GOA Fees A/c No. 520101253886322	6,353,675.44		5,322,243.78	
Corp. Bank NIT Plan A/c No.SB/01/4284- 520101026782460	125,542.00		-	
Corporation Bank - NIT Goa Projects Overhead PDA SB A/c. No. - 520101252614922	5,154.00		-	
Corporation Bank SB/01/003573- 520101026780557	29,605,287.92	43,847,790.37	28,050,470.72	72,287,772.21
<b>TOTAL</b>		<b>971,491,278.37</b>		<b>1,290,631,070.21</b>






**NATIONAL INSTITUTE OF TECHNOLOGY GOA  
PROVIDENT FUND ACCOUNT  
BALANCE SHEET AS AT MARCH 31ST MARCH 2020**

Previous Year	Liabilities	Current Year	Previous Year	Amount in Rupees	
				Assets	Current Year
	<b>GPF</b>			<b>Investment</b>	
-	Opening Balance	-	-	Int. accrued as on 31/03/20	-
-	Less: Subscription for March 2019	-	-	Subscription Due for March 2020:	-
-		-	-	GPF	-
-	Add: Subscriptions in the year	-	-	CPF	-
-	Add: Subscription for March 2020	-	-	UC due to CPF	-
-	Add: Interest Credited	-	-	NPS-11	-
-	Less: Advance/Withdrawl	-	-		-
-	Closing Balance	-	-	Tax recovered from interest on Investments Pending refund from Income Tax Department	-
	<b>CPF</b>			<b>Cash at Bank</b>	
-	Opening Balance	-	-	SBI Branch	-
-	Less: Subscription for March 2019	-	-		-
-		-	-		-
-	Add: Subscriptions in the year	-	-		-
-	Add: Subscription for March 2020	-	-		-
-	Add: Interest Credited	-	-		-
-	Less: Advance/Withdrawl	-	-		-
-	Closing Balance	-	-		-
	<b>University Contribution (CPF)</b>				
-	Opening Balance	-	-		-
-	Less: Contribution for March 2019	-	-		-
-	Add: Subscriptions in the year	-	-		-
-	Add: Contribution for March 2020	-	-		-
-	Add: Interest Credited	-	-		-
-	Less: Advance/withdrawal	-	-		-
-	Closing Balance	-	-		-
	<b>NPS Tier-II Account</b>				
-	Opening Balance	-	-		-
-	Less: Sub. for March 2019	-	-		-
-	Add: Subscriptions in the year	-	-		-
-	Add: Sub for March 2020	-	-		-
-	Add: Interest Credited	-	-		-
-	Less: Advance/withdrawal	-	-		-
-	Closing Balance	-	-		-
	<b>Interest Reserve</b>				
-	Opening Balance	-	-		-
-	Add: Excess of Income over Expenditure	-	-		-
-	Closing Balance	-	-		-
-	<b>TOTAL</b>	-	-	<b>TOTAL</b>	-

FOR AND ON BEHALF OF THE BOARD

DIRECTOR

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

PLACE: PONDA,GOA  
DATE: 16-12-2020

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

  
CA ARCHANA KENKARE  
PARTNER  
MEM NO. 047463  
UDIN: 20047463AAAAGG8578





NATIONAL INSTITUTE OF TECHNOLOGY GOA

PROVIDENT FUND ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2020

Previous Year	Expenditure	Current Year	Previous Year	Amount in Rupees	
				Income	Current Year
-	<b>Interest Credited to:</b>			<b>Interest earned on Investment</b>	
-	GPF Account	-	-	Add: Interest accrued on 03/20	-
-	CPF Account	-	-	Add: Tax recovered on Interest - Refund to be obtained	-
-	University Contribution (CPF)	-	-	Less: Interest accrued on March 19	-
-	NPS Tier-II Account	-	-	Excess of Expenditure over Income	-
-	Excess of Income over Expenditure	-	-	<b>Total</b>	-

FOR AND ON BEHALF OF THE BOARD

DIRECTOR

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

PLACE: PONDA, GOA  
DATE: 16-12-2020

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

FRN: 127641W



CA ARCHANA KENKARE  
PARTNER

MEM NO. 047463

UDIN: 20047463AAAAAGG8578

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2019-20

Receipts	Amount	Payments	Amount in Rupees
<b>Opening Balance as on 01/04/2019</b>			
SBI Branch I	-	GPF Adv./Withdrawal	-
SBI Branch II	-	CPF Adv./Withdrawal	-
		NPS Tier-11	-
		University Contribution Withdrawal	-
GPF Subscription	-	Investment during the year	-
CPF Subscription	-		
CPF University Contribution	-		
NPS Tier-11 Account	-	<b>Closing Balance</b>	
Investment Encashed	-	SBI Branch I	-
Interest Received	-	SBI Branch II	-
<b>Total</b>	<b>-</b>	<b>Total</b>	<b>-</b>

FOR AND ON BEHALF OF THE BOARD



DIRECTOR

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

PLACE: PONDA, GOA  
DATE: 16-12-2020

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

FRN: 127641W




CA ARCHANA KENKARE

PARTNER

MEM NO. 047463

UDIN: 20047463AAAAAGG8578





## NATIONAL INSTITUTE OF TECHNOLOGY GOA

## NPS TIER- I ACCOUNT

## BALANCE SHEET AS AT MARCH 31ST MARCH 2020

Previous Year	Liabilities <u>NPS Tier-I Account</u>	Current Year		Previous Year	Assets <u>NPS Tier- I Account</u>	Amount in Rupees Current Year
1,131,660.00	Opening Balance	1,084,880.00		1,084,880.00	Subscription and Contribution due for Mar 2020	1,499,547.00
1,131,660.00	Less: Subscription for March 2019	1,084,880.00		-	Investment	-
-	Add: Subscriptions in the year	14,340,077.00		-	Interest Accrued but not due	-
-	Add: Interest Credited	-		-	Balance at Bank	-
11,284,032.00	Less: Transfer to NSDL	14,253,951.00		-		
1,084,880.00	Add: Subscription for March 2020	1,413,421.00	1,499,547.00	-		
1,084,880.00	Excess of Income over Expenditure			-		
-	Balance as on 01.04.2019			-		
-	Add: During the year			-		
1,084,880.00	<b>TOTAL</b>		1,499,547.00	1,084,880.00	<b>TOTAL</b>	1,499,547.00

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

PLACE: PONDA,GOA  
DATE: 16-12-2020



CA ARCHANA KENKARE  
PARTNER

MEM NO. 047463  
UDIN: 20047463AAAAAGG8578



NATIONAL INSTITUTE OF TECHNOLOGY GOA

NPS TIER-I ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2020

					Amount in Rupees	
Previous Year	Expenditure	Current Year	Previous Year	Income	Current Year	
-	Interest Credited to Subscriber's Accounts	-	-	Interest earned on Investment	-	
-	Bank Charges	-	-	Less: Interest accrued on 31/03/2019	-	
-	Excess of Income over Expenditure	-	-	Interest Accrued but not due	-	
-	Total	-	-	Total	-	

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

UDIN: 20047463AAAAGG8578

PLACE: PONDA, GOA

DATE: 16-12-2020



NATIONAL INSTITUTE OF TECHNOLOGY GOA

NPS TIER- I ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2019-20

Receipts	Amount	Payments	Amount in Rupees
Opening Balance as on 01/04/2019	1,084,880.00	Investment	-
<u>NPS Tier-1 Account</u>	-	Withdrawal/Refund to NSDL	15,338,831.00
Own Subscription	6,564,585.00		
Institute Contribution (14% from 01/04/2019)	9,188,913.00	Closing Balance as on 31/03/2020	1,499,547.00
Interest Received on Investment	-		
Interest on saving bank a/c	-		
Investment Encashed	-		
<b>Total</b>	<b>16,838,378.00</b>	<b>Total</b>	<b>16,838,378.00</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

PLACE: PONDA, GOA  
DATE: 16-12-2020



*[Signature]*

CA ARCHANA KENKARE  
PARTNER

MEM NO. 047463  
UDIN: 20047463AAAAAGG8578

SAR 19-20



सत्यमेव जयते

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. /2019-20/NIT Goa/2021-22/

दिनांक:- 22/07/2021

सेवा में,

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

विषय- वर्ष 2019-20 के लिए राष्ट्रीय प्रौद्योगिकी संस्थान, गोवा के लेखों पर प्रथक  
लेखापरीक्षा प्रतिवेदन ।

महोदय,

31 मार्च 2020 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।

i. वर्ष 2019-20 के लिए वार्षिक लेखे ।

ii. 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 ।

भवदीय,

-Sd-

उपनिदेशक/ना.एवं.स्वा.नि.

संलग्नक: यथोपरि

क्र. म.नि.ले.प.(के.)/ना.एवं.स्वा.नि./एस. ए.आर. /2019-20/NIT Goa/2021-22/ 237 दिनांक:- 22/07/2021

✓ सेवा में,

निदेशक,

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा ( NIT Goa)

गोवा कॉलेज ऑफ इंजीनियरिंग कैंपस,

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।



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 2020.**

We have audited the attached Balance Sheet of the National Institute of Technology Goa, ('the institute') as at 31<sup>st</sup> March 2020 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:

**A. Income & Expenditure Account**

**A.1 Income**



**A.1.1 Grant / Subsidies (Schedule - 10) - ₹20.67 crore.**

As per Notes & Instructions contained in Formats of Financial Statements for Central Higher Educational Institutions in respect of Schedule 10 (Grant/Subsidies), grant utilized for revenue expenditure is the expenditure as per expenditure schedules reduced by provisions made in respect of retirement benefits on actuarial basis and depreciation for the year. Grant/Subsidies included ₹1.03 crore on account of provision for retirement and terminal benefit which should have been reduced while arriving at amount of revenue expenditure of ₹20.67 crore. This has resulted in overstatement of excess of Income over expenditure to the extent of ₹1.03crore and consequently Corpus Fund has also been overstated to that extent.

**A.2 Expenditure**

**A.2.1 Repairs and maintenance (Schedule-19) ₹2.81 crore.**

Above included an amount of ₹1.12 crore incurred by the Institute on repairs and maintenance of buildings. Out of this, an amount of ₹ 70.76 lakh was incurred for construction of workshop and drawing class



₹30.27 lakh, for renovation of old ITI Building as faculty block ₹25.15 lakh and for renovation of toilet, barbed wire fencing to boys' hostel ₹21.28 lakh. The expenses incurred for construction /renovation of building and barbed fencing are of capital nature, the same required to be capitalized.

Non capitalisation of such expenditure resulted in overstatement of above head of account as well as understatement of fixed assets (Schedule-4) to the same extent of ₹76.70 lakh and consequently no depreciation has been provided on such fixed assets.

#### **B. General Comments**

**B.1.** As per the Utilisation Certificate, the Institute had utilized grants-in-aid of ₹3833.37 lakh, whereas as per Schedule-3(C) they have utilised only ₹378.11 lakh on creation of capital assets. The difference in figures is due to treatment of advances as expenditure. The same needs to be corrected in Utilization Certificate while calculating closing balances.

**B.2** The Institute made provisions for creation of fixed assets of ₹23.17 lakh in the accounts under sub-schedule - 2, 3, 4 & 5 of Schedule-3 (Current

liabilities and provisions). However, the Institute failed to clearly depict the same under current liabilities and provisions (Schedule-3) of the accounts.

**B.3** The Institute incorrectly depicted an amount of ₹67.95 lakh {Forevision instrument (India) Pvt. Ltd. ₹3.99 + Bruker Singapore Pte. Ltd. ₹63.96 lakh} on payment side of Receipts and Payments A/c under RP Schedule-17 (Other payments including statutory payments) instead of showing it under RP Schedule-16 (Fixed Assets and CWIP).

**C. Grants-in-aid**

Out of grants-in-aid of ₹115.19 crore {including unspent balance of ₹98.60 crore (as per SAR to the year 2018-19) carried forwarded from previous year and ₹3.80 crore interest earned on investment of grants-in-aid} the Institute utilized an amount of ₹23.42 crore (Capital expenditure ₹3.78 crore and Revenue expenditure ₹19.64 crore). the unutilized grants-in-aid works out to ₹91.77 crore as on 31.3.2020.

Unutilized grants-in-aid includes ₹35.76 crore towards advances given to suppliers.



#### D. Management Letter

Deficiencies which have not been included in the audit report have been brought to the notice of the National Institute of Technology, Goa through a management letter issued separately for remedial/corrective action.

Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Account and Receipt & Payment Account dealt with by this report are in agreement with the books of accounts.

- 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 2020; 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,

A handwritten signature in black ink, appearing to be 'श्री श्री अरवि'.

Director General of Audit (Central), Mumbai

Place: Mumbai,  
Date: 22.07.2021

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Director General of Audit (Central), Mumbai

7



Annexure

1	<p><b>Adequacy of Internal Audit System.</b></p> <p>The Institute did neither constitute its internal audit wing nor prepare 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></p> <p>Internal control system is not commensurate with the size of the Institute.</p>
3	<p><b>System of Physical verification of fixed assets.</b></p> <p>Physical verification of fixed assets has been done up to the year 2019-20.</p>
4	<p><b>System of Physical verification of Inventory.</b></p> <p>The Institute does not have any Inventory.</p>
5	<p><b>Regularity in payment of statutory dues.</b></p> <p>The institute is regular in payment of statutory dues. However, the Institute did not deduct labour cess from the bills to contractors.</p>

Director General of Audit (Central)