6.2.3 Implementation of e-governance in areas of operation

INDEX

SNO	Areas of e-governance	Facilities provided	Page No
1	Administration	SNTI College Automation(1,3,4,5,8,9 & 15)	6
		CCTV Cameras	33
2	Finance & Accounts	TALLY Software	34
		SNTI College Automation(8,15)	35
3	Student Admission and Support	SNTI College Automation(2,4,9,10,11 & 17)	43
		Library E-CAP Software	59
4	Examinations	SNTI College website	61
		SNTI College automation(Module 14)	62
		JNTUH Exam portal	69

6.2.3 ERP DOCUMENT

1. ECAP- Engineering College Automation Package

INTRODUCTION TO ERP & ECAP

The **ERP** software stands for Enterprise Resource Planning software. It helps us to manage an entire institution, from admissions to assessments of the students and staff. All the details of the team are well organized for the smooth workflow of an institution. We can manage all the details of the students; about their contact information, grades, assessment, fees, course, and every major or minute details.Using this software we can manage database of staff,accounts,infrastructure details etc

ECAP stands for Engineering College Automation Package. It is designed and developed by Webpros Solutions Pvt. Ltd., Visakhapatnam. ECAP aims at immediate availability of data in required formats to ease the work of staff and management and increase in transparency and accountability in administration. This software is exclusively used for our institution library.

PACKAGE HIGHLIGHTS

- Internet or Intranet enabled application
- User levels with access rights for data security
- Course/Batch/Category/Student fee dues reports
- Tracks performance of scholarship students
- Fee/Attendance reminders and progress reports
- Attendance & Marks analysis
- Integration with attendance capturing devices
- Accounts module similar to Tally
- Payroll integrated Staff module
- Barcode integrated Library module
- Login for students/parents to access data online

LIST OF MODULES IN ERP:

1. Admin
2. Admissions
3. Academics
4. Student Information System
5. HR & Payroll
6. Time-Table management
7. Attendance Management
8. Accounts and Sales
9. Scholarship Management
10. Library Management
11. Transport
12. Hostel
13. Placements and Achievements
14. Examination Management
15. Inventory Management
16. Grievance
17. Feedback

BENEFITS OF ERP & ECAP SOFTWARES

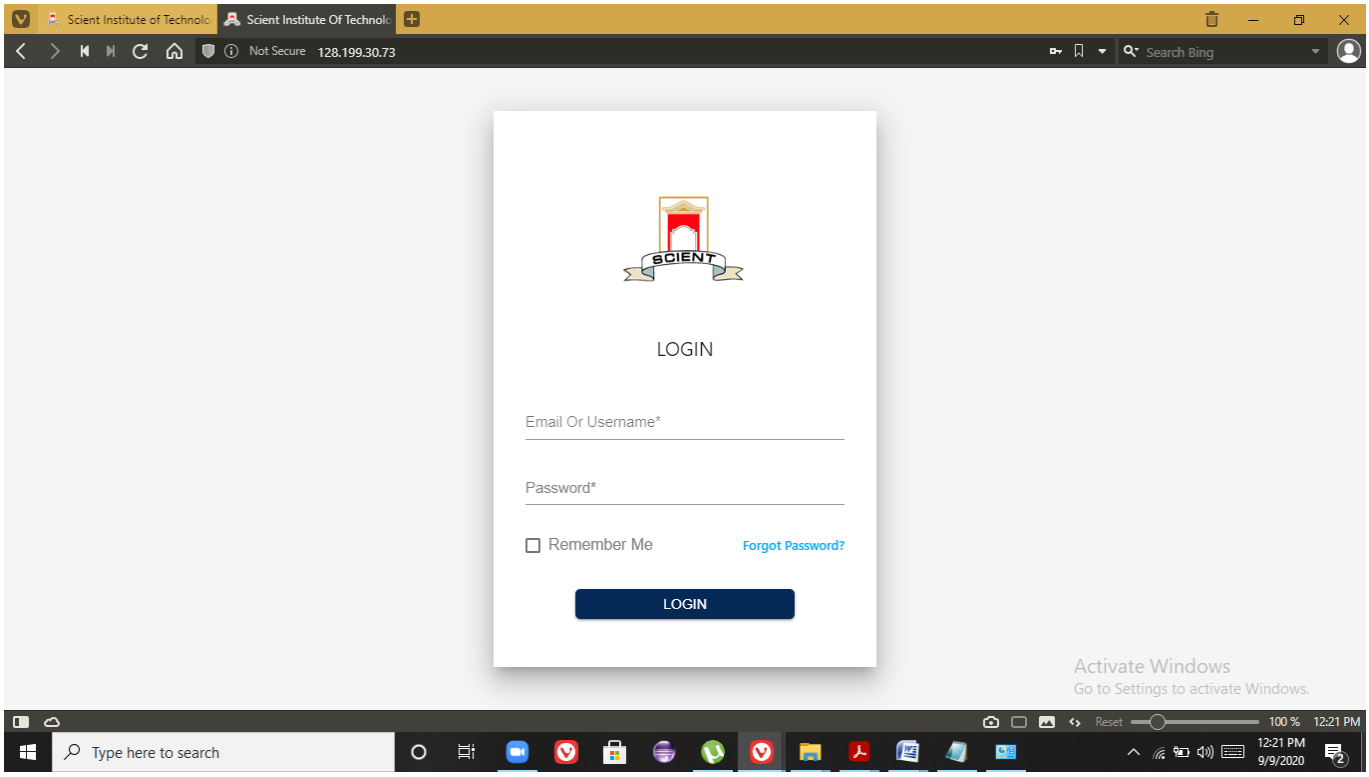
The **ERP software** system automates and streamlines all the processes functioning within the boundaries of the institution to significantly improve the effectiveness of allocating and operating academic resources better. It is a comprehensive system that automates the entire institute activities from admission, attendance, fee management, examination, payroll and beyond. The features covered in the ERP software helps to streamline every activity in an institute, giving the management the bird's eye view of all the activities happening in the institute, in real-time.

Library of Scient institute of technology is automated by Integrated Library Management System (ILMS). **ECAP** stands for Engineering College Automation Package. It is designed and developed by Webpros Solutions Pvt. Ltd., Visakhapatnam. ECAP aims at immediate availability of data in required formats to ease the work of staff and management and increase in transparency and accountability in administration.This software is exclusively used for our institution library

URLs

ERP	:	**http://128.199.30.73/**
ECAP	:	**http://localhost/ecap**
JNTUH Examination portal	:	**https://exams.jntuh.ac.in/Portal/common/load.action**

ERP HOMEPAGE SCREENSHOT



ADMINISTRATION

MODULES IN DETAIL

1) ADMIN MODULE

Admin module plays a vital role Admin module helps to ERP administration for efficient management of human resources. Admin module helps to manage faculty and students information, track their records like performance reviews, designations, time & attendance tracking.Admin functionalities are

- Staff/Student Entry, Role Configuration
- Role wise, User wise access rights
- Deactivate users
- User login history
- Manage passwords
- Can update college information like adding infrastructure details etc
- Can update academics information like adding courses etc.

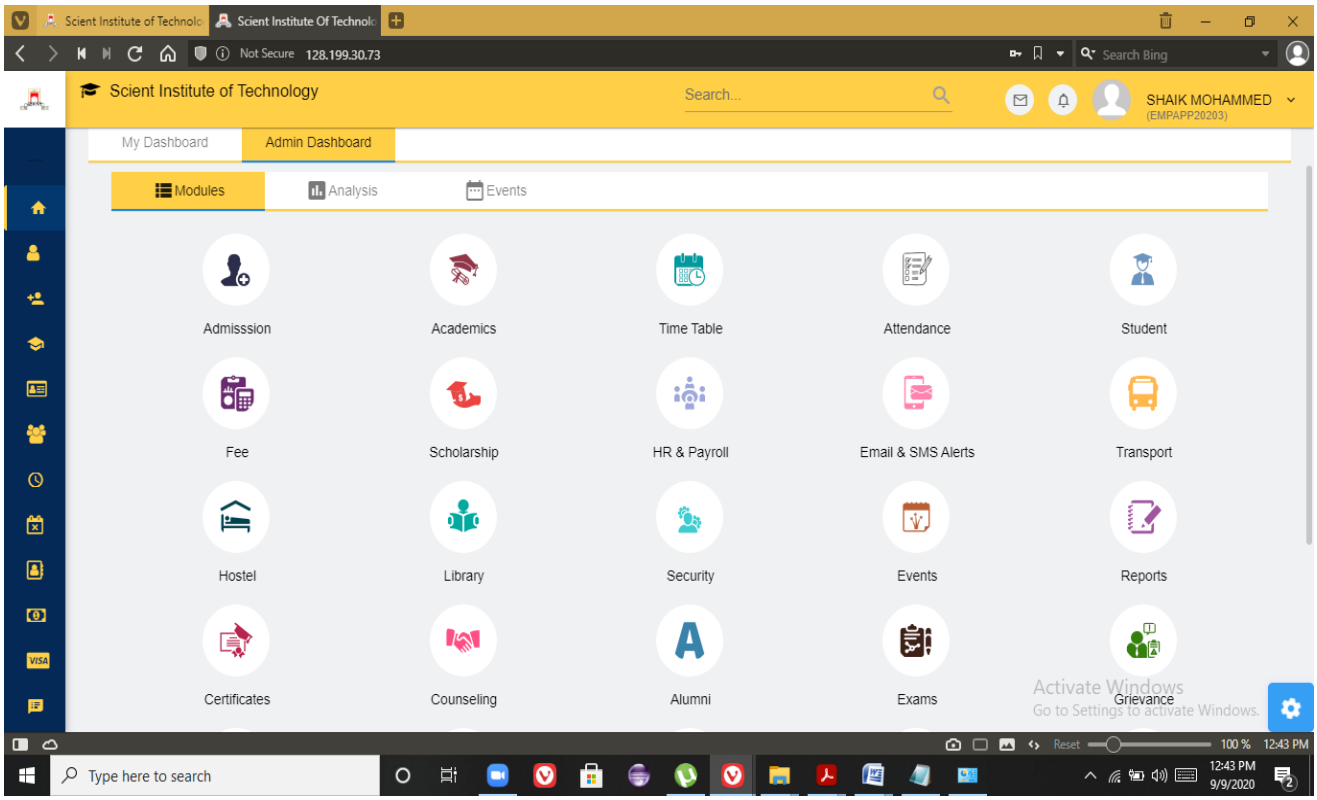


Fig 1 : Admin Dashboard

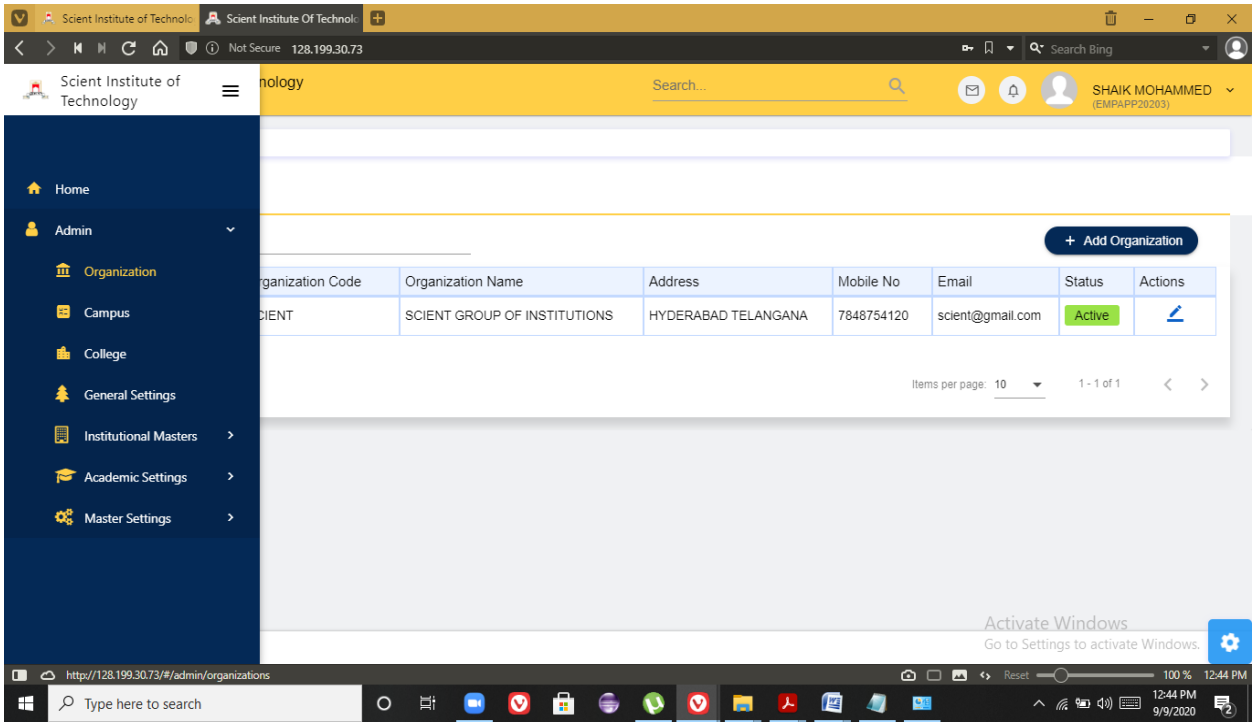


Fig 2 : Admin updating college information

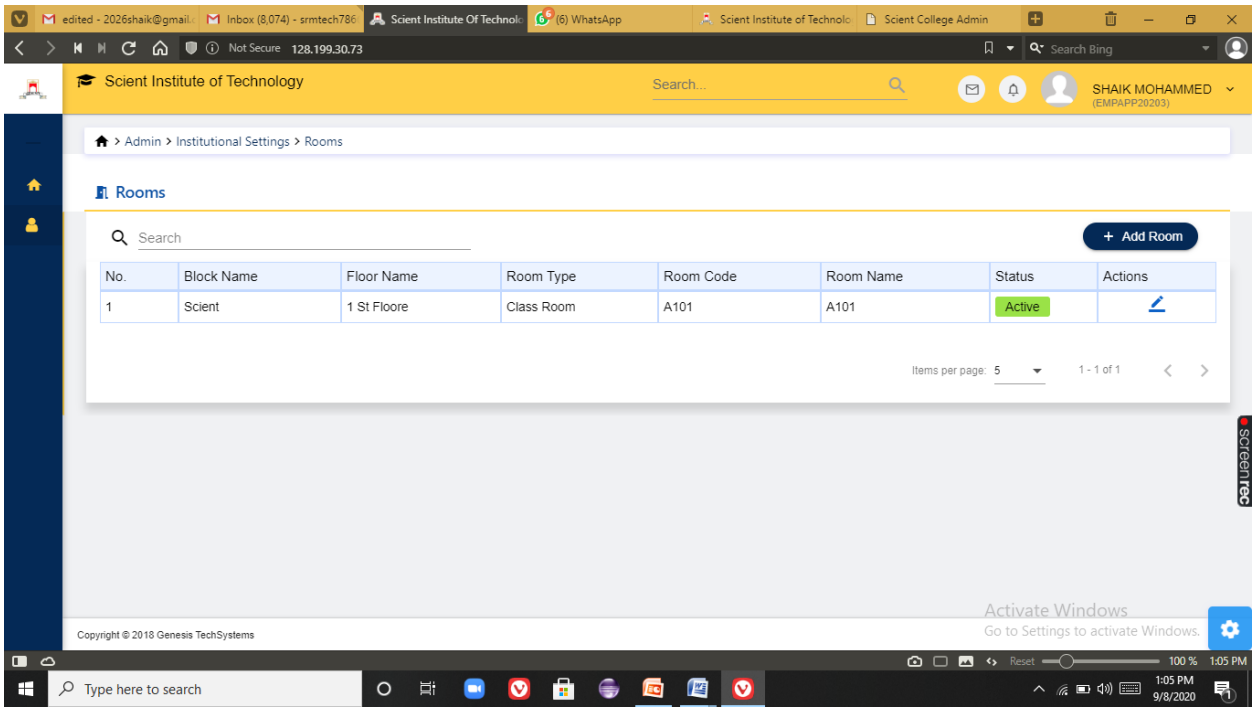


Fig 3 : Admin updating college infrastructure information like adding classrooms,blocks etc

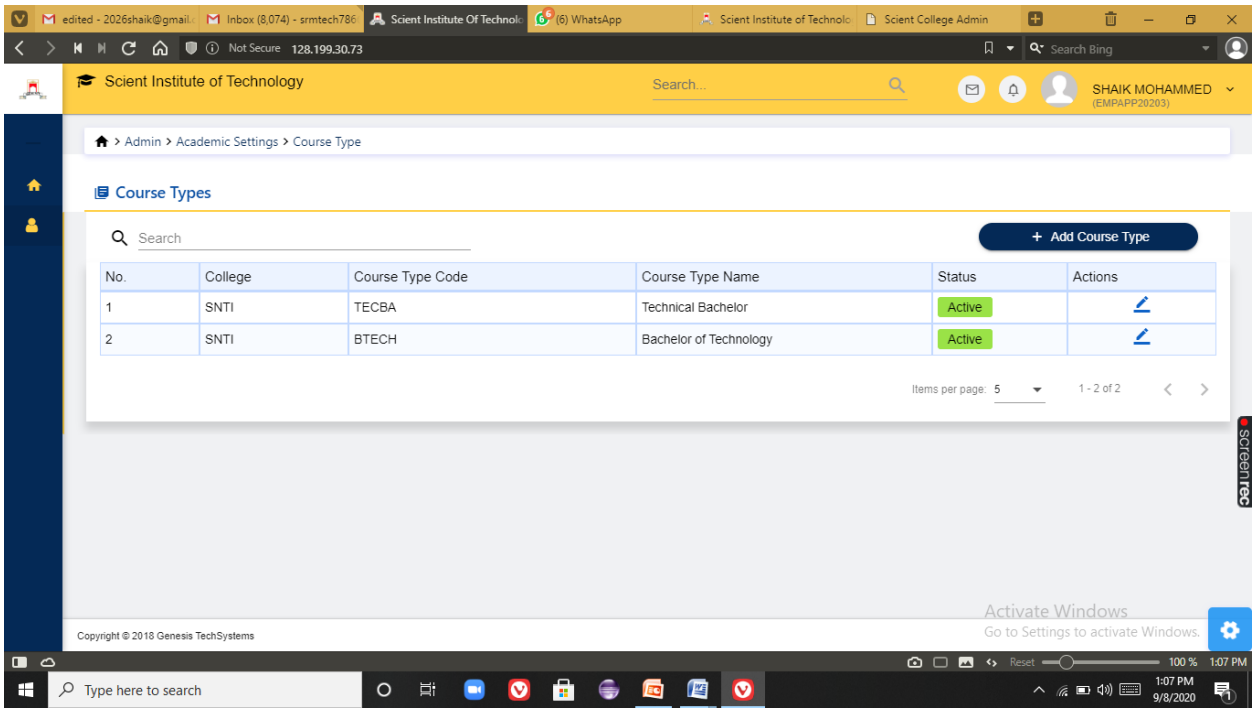


Fig 4 :Admin adding course details

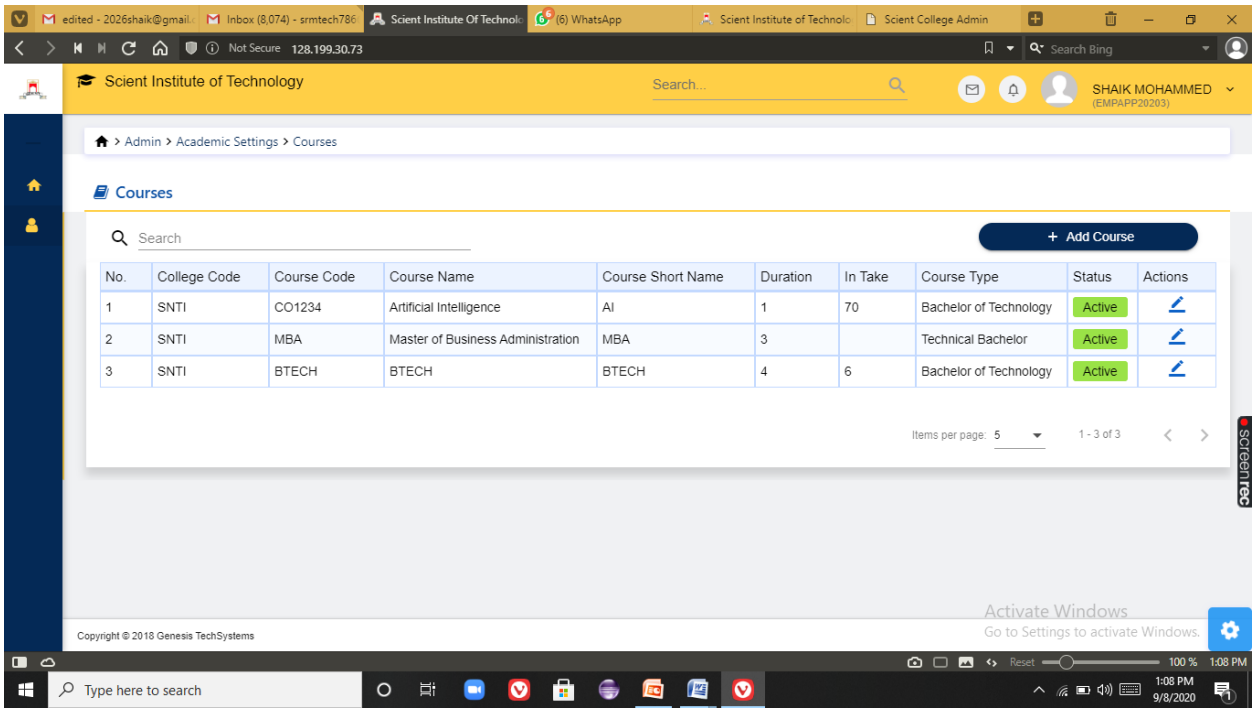


Fig 5 : List of courses

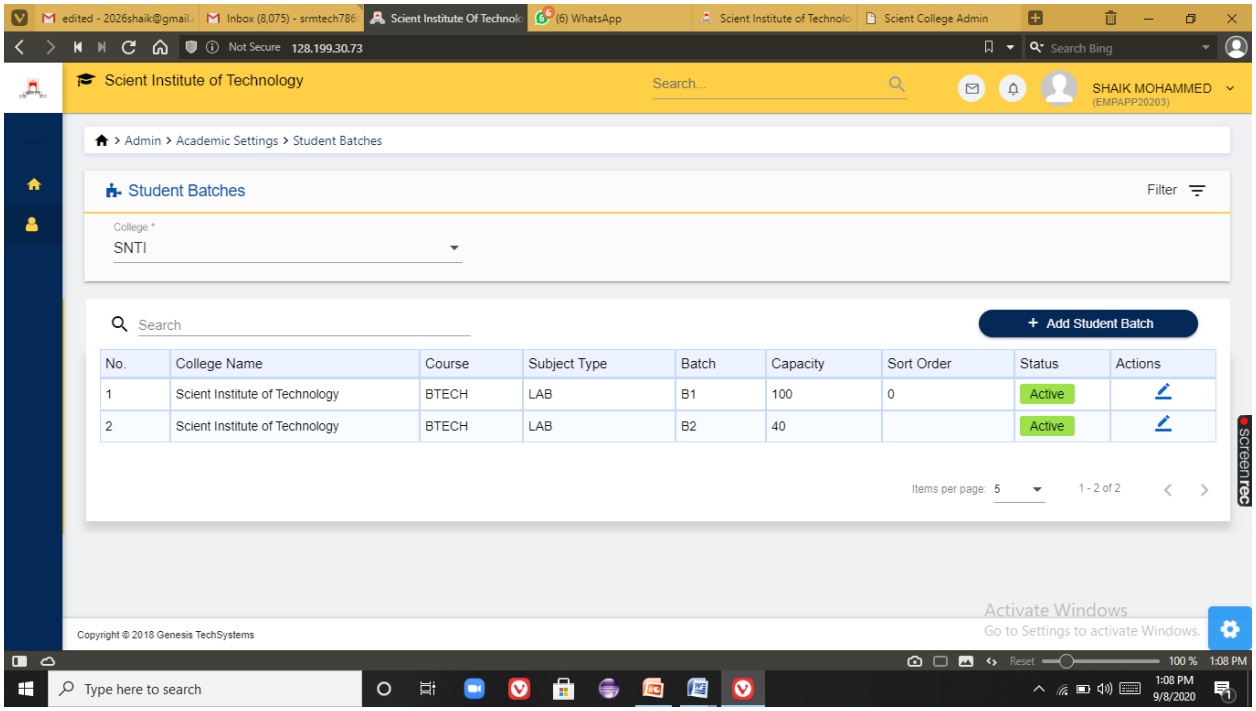


Fig 6 :Creating student batches

3)ACADEMICS

In this module faculty can create courses. This module helps the institute to schedule the course online and let the students benefit through the online programming of the course. The ERP module of course scheduling creates a schedule of the courses for each team, class, or batch and enroll students in the programs and the groups with their preferred course. Faculties can publish digital timetable to the students.Operations to be performed are:

- Regulations
- Subject master
- University curriculum
- Assign Course year subjects
- View course year subjects
- Staff subject mapping
- Staff subject unmapping
- Assign subject books
- Subject unit topics
- Subject syllabus plan
- Elective group mapping
- Student enrollment to Elective subject
- Assign regulation to students

- Assign students to section
- Assign students to lab batches
- Allocate student subjects

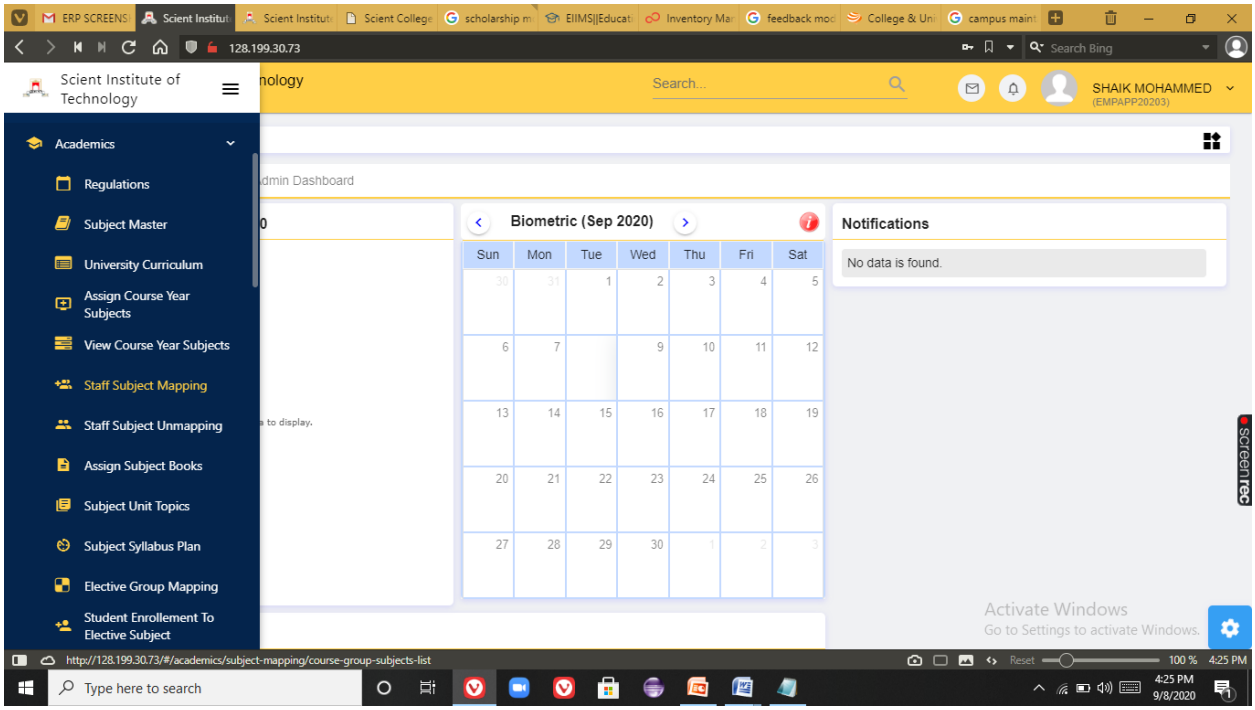
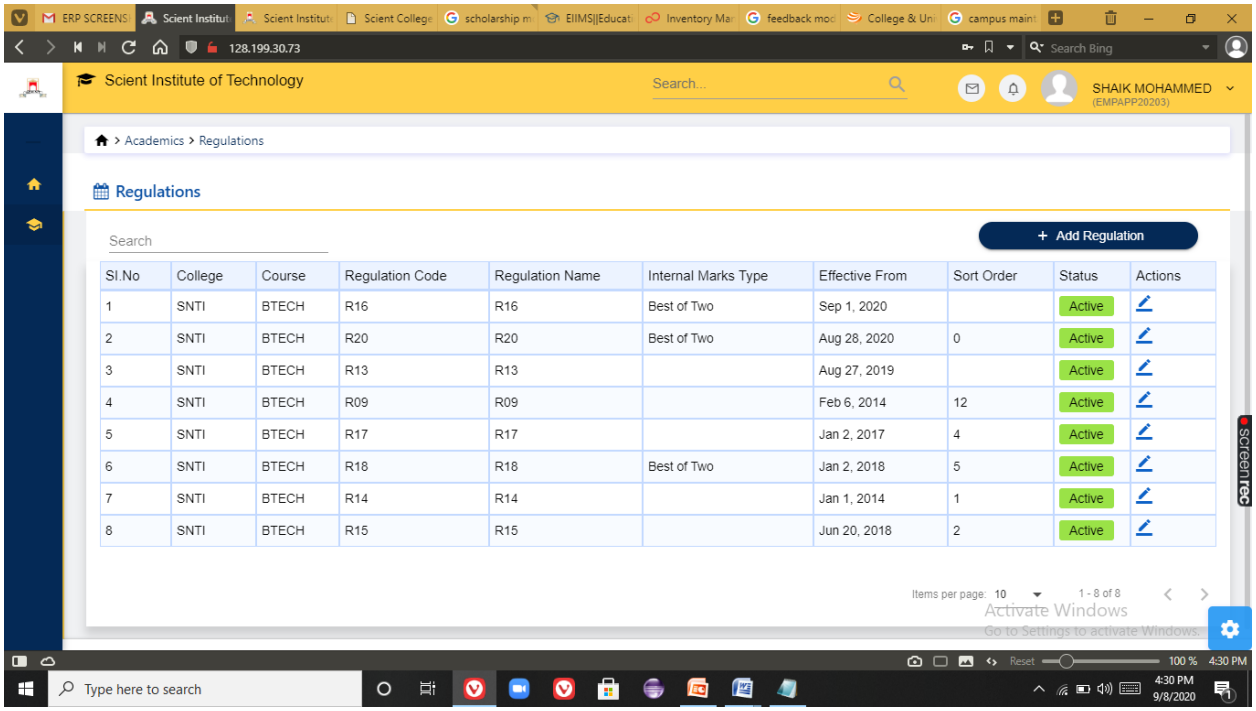
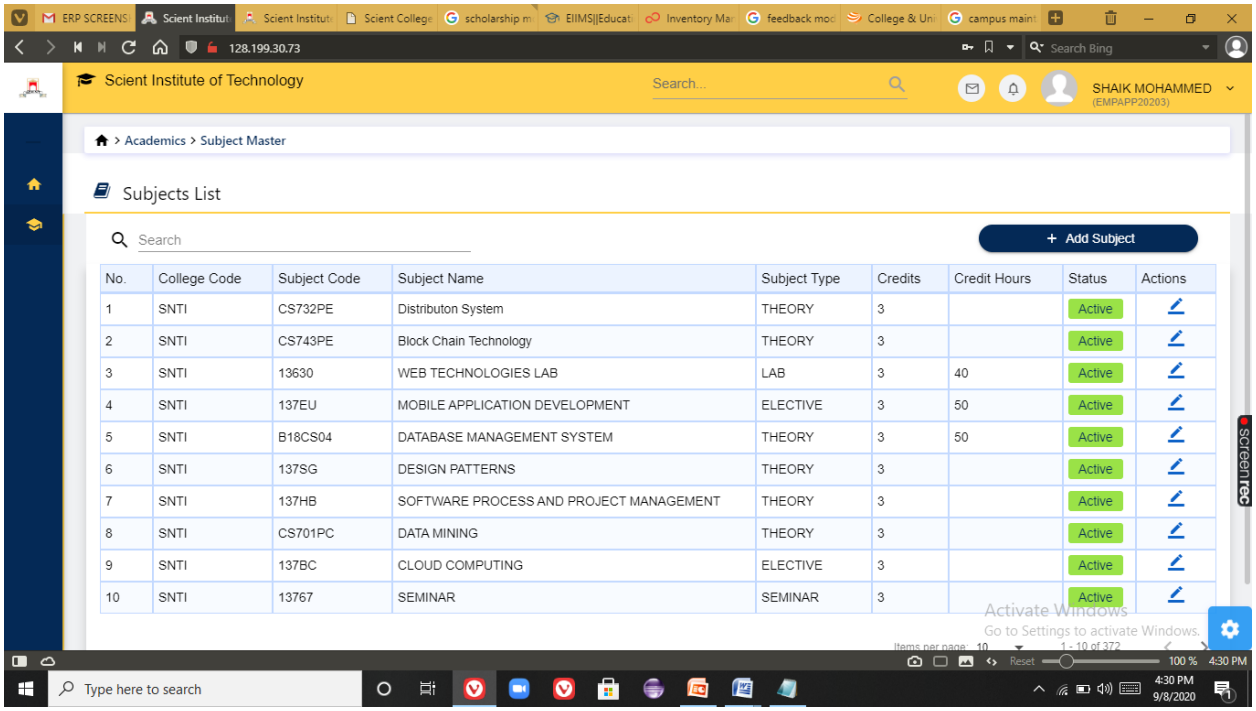


Fig 1 :Operations in Academics module



Sl.No	College	Course	Regulation Code	Regulation Name	Internal Marks Type	Effective From	Sort Order	Status	Actions
1	SNTI	BTECH	R16	R16	Best of Two	Sep 1, 2020		Active	
2	SNTI	BTECH	R20	R20	Best of Two	Aug 28, 2020	0	Active	
3	SNTI	BTECH	R13	R13		Aug 27, 2019		Active	
4	SNTI	BTECH	R09	R09		Feb 6, 2014	12	Active	
5	SNTI	BTECH	R17	R17		Jan 2, 2017	4	Active	
6	SNTI	BTECH	R18	R18	Best of Two	Jan 2, 2018	5	Active	
7	SNTI	BTECH	R14	R14		Jan 1, 2014	1	Active	
8	SNTI	BTECH	R15	R15		Jun 20, 2018	2	Active	

Fig 2: Regulations



No.	College Code	Subject Code	Subject Name	Subject Type	Credits	Credit Hours	Status	Actions
1	SNTI	CS732PE	Distributon System	THEORY	3		Active	
2	SNTI	CS743PE	Block Chain Technology	THEORY	3		Active	
3	SNTI	13630	WEB TECHNOLOGIES LAB	LAB	3	40	Active	
4	SNTI	137EU	MOBILE APPLICATION DEVELOPMENT	ELECTIVE	3	50	Active	
5	SNTI	B18CS04	DATABASE MANAGEMENT SYSTEM	THEORY	3	50	Active	
6	SNTI	137SG	DESIGN PATTERNS	THEORY	3		Active	
7	SNTI	137HB	SOFTWARE PROCESS AND PROJECT MANAGEMENT	THEORY	3		Active	
8	SNTI	CS701PC	DATA MINING	THEORY	3		Active	
9	SNTI	137BC	CLOUD COMPUTING	ELECTIVE	3		Active	
10	SNTI	13767	SEMINAR	SEMINAR	3		Active	

Fig 3: Subject master

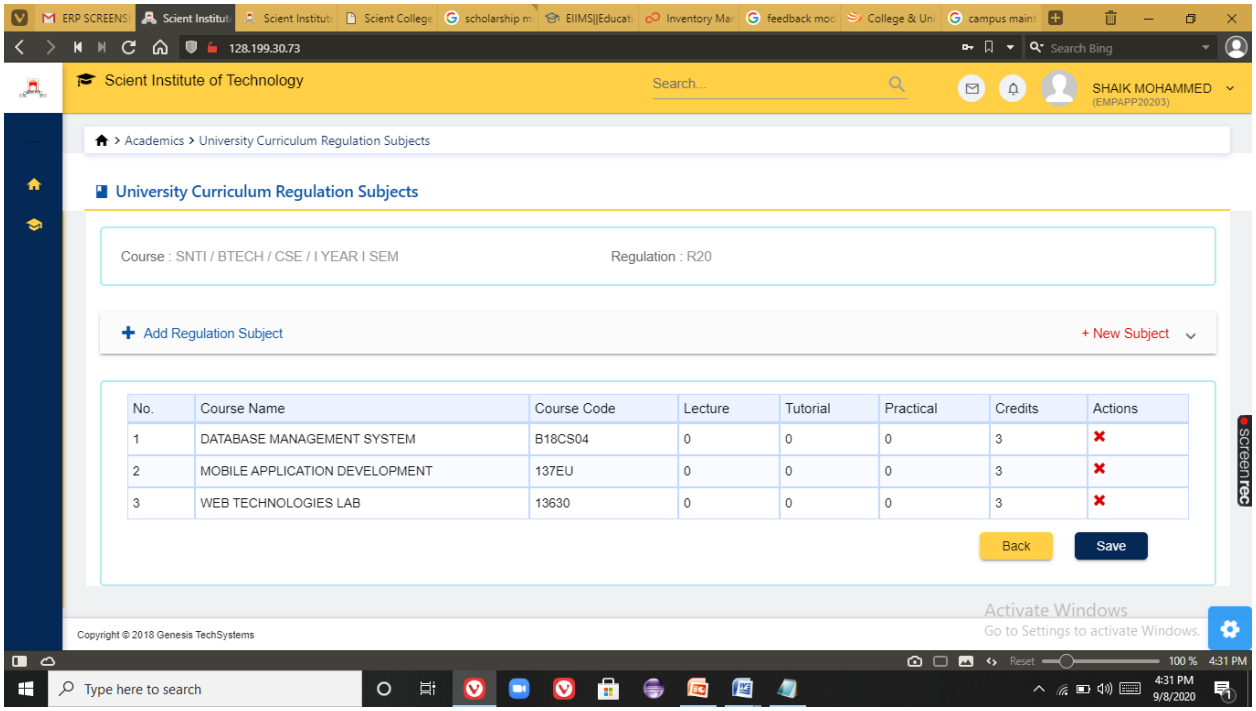


Fig 4: University curriculum

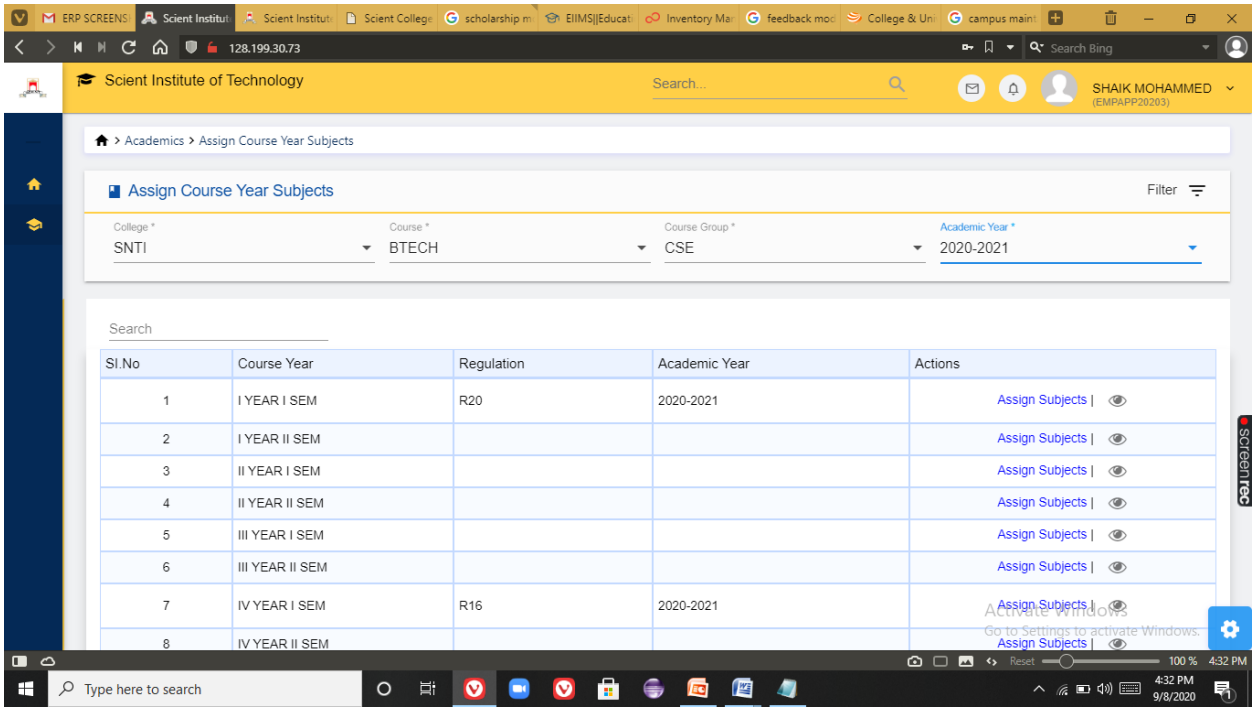


Fig 5: Assigning course year subjects

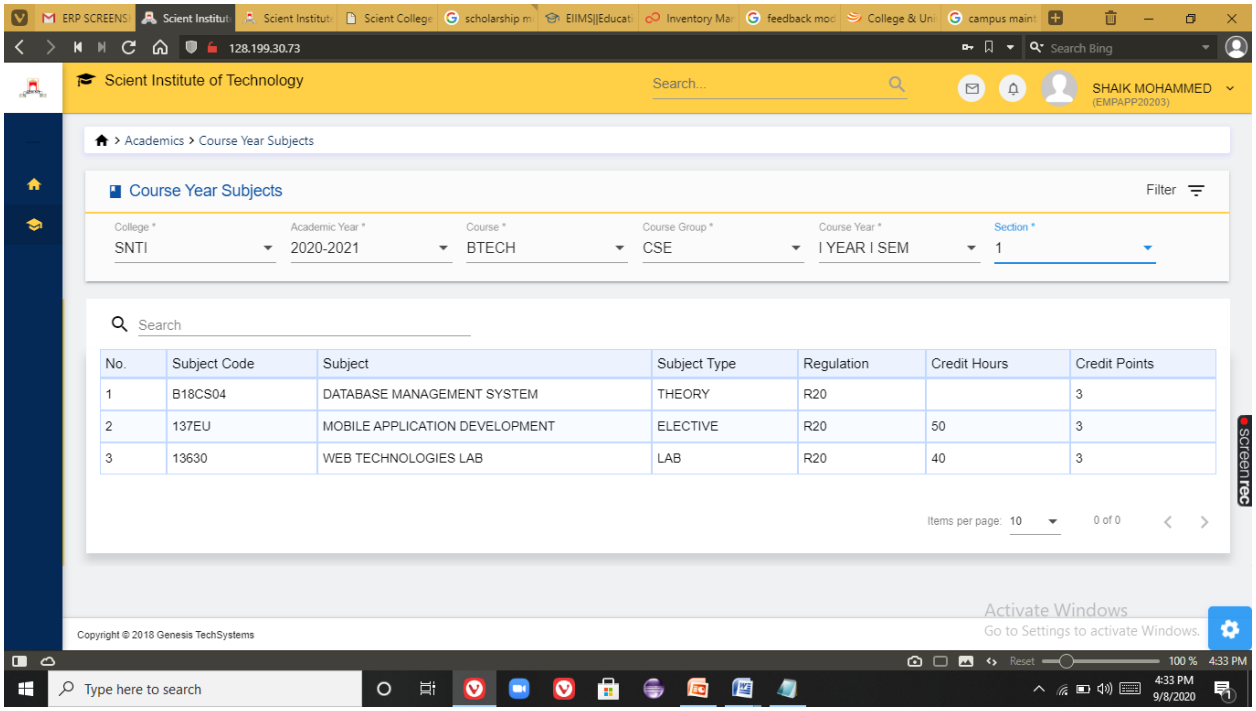


Fig 6: Course year subjects

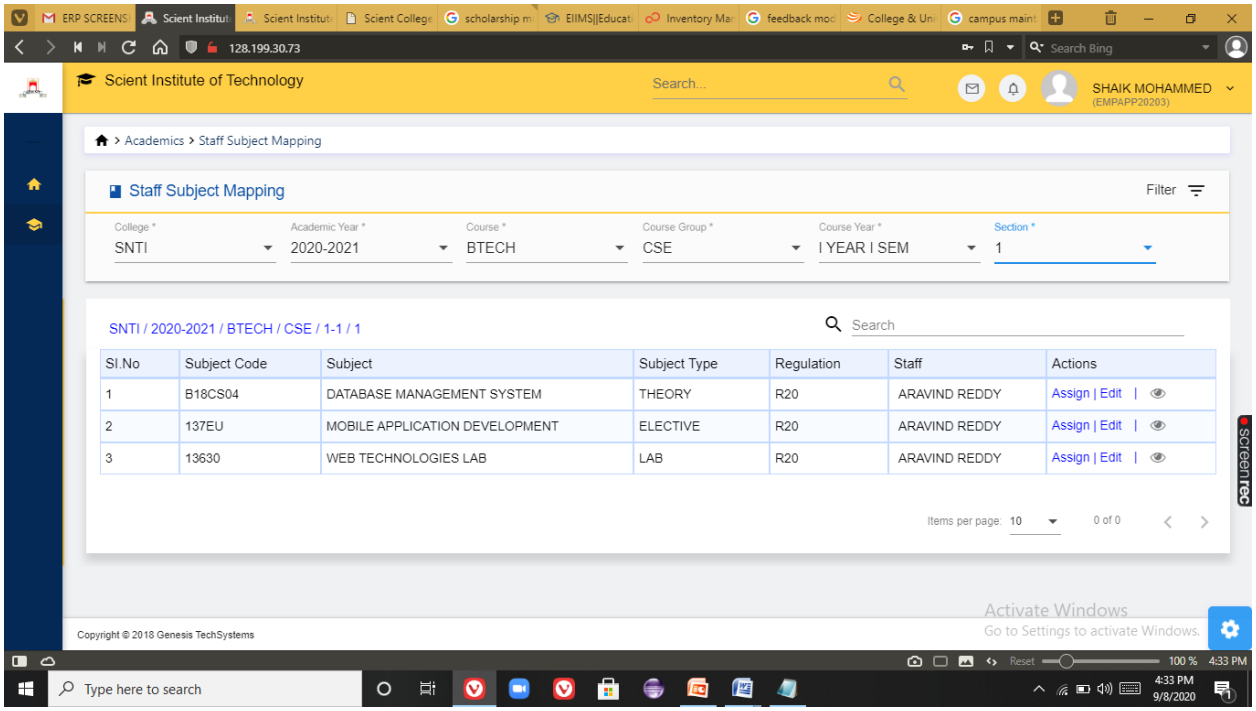


Fig 7: Staff subject mapping

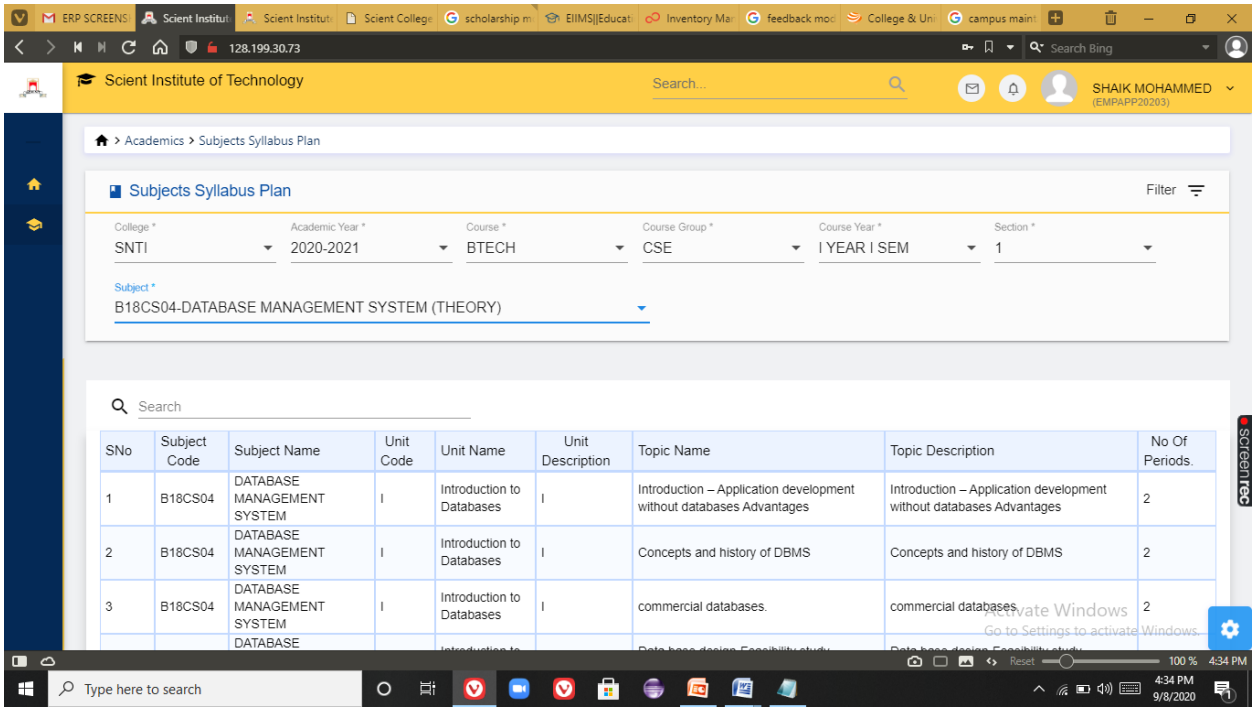


Fig 8 : Subject Syllabus plan

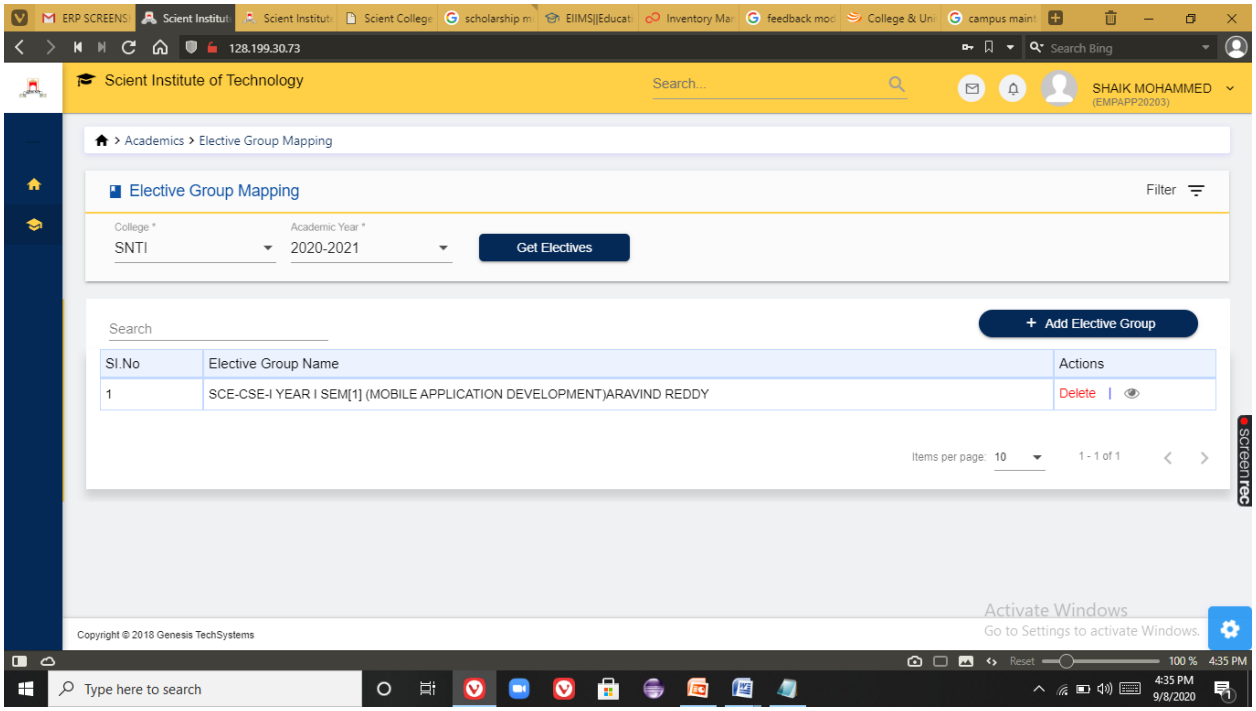


Fig 9 : Elective group mapping

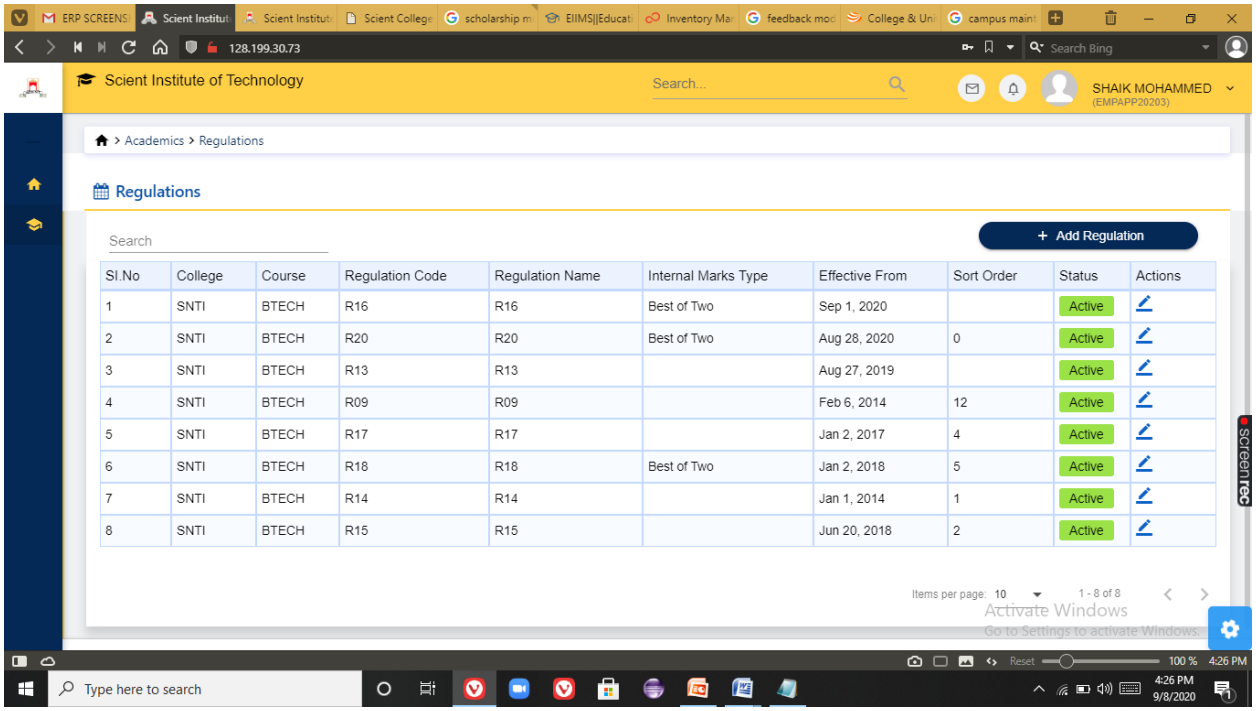


Fig 10: Regulations addition

4)STUDENT INFORMATION SYSTEM

In this module we can extract the details of students.Using this module we can add student details,List of students detained and promoted,Passedout students information,subjects allotted to the students.Admin can generate the roll num of a student.Operations performed in this module are:

- Student Details
- Student promotions
- Students Detain
- Student Re-Admission
- Student Discontinue
- Generate Student Roll No
- Student Subjects

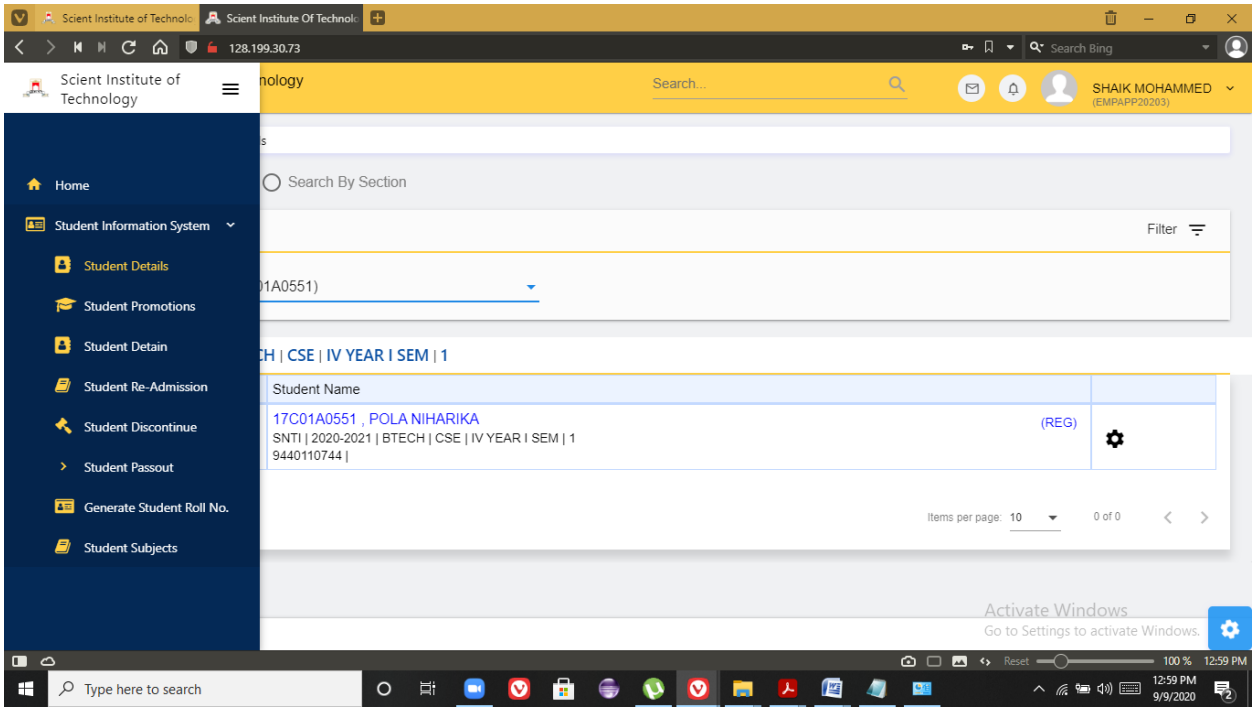


Fig 1 : Operations performed in Students Information System

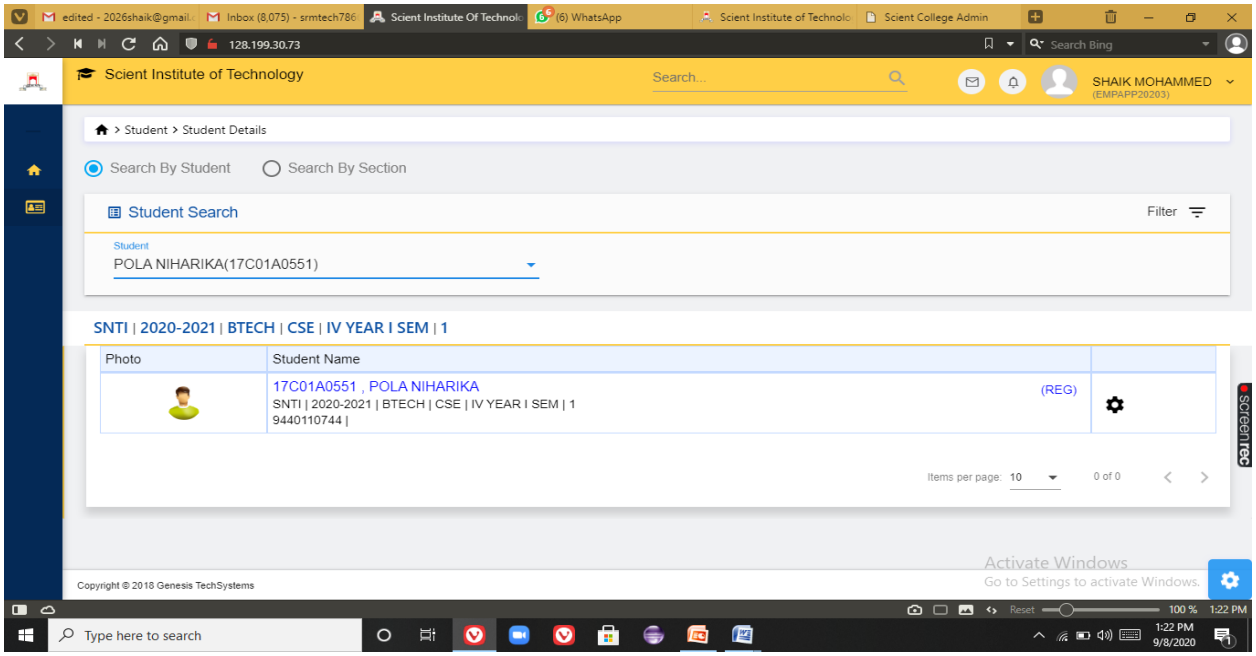


Fig 2 : Student details

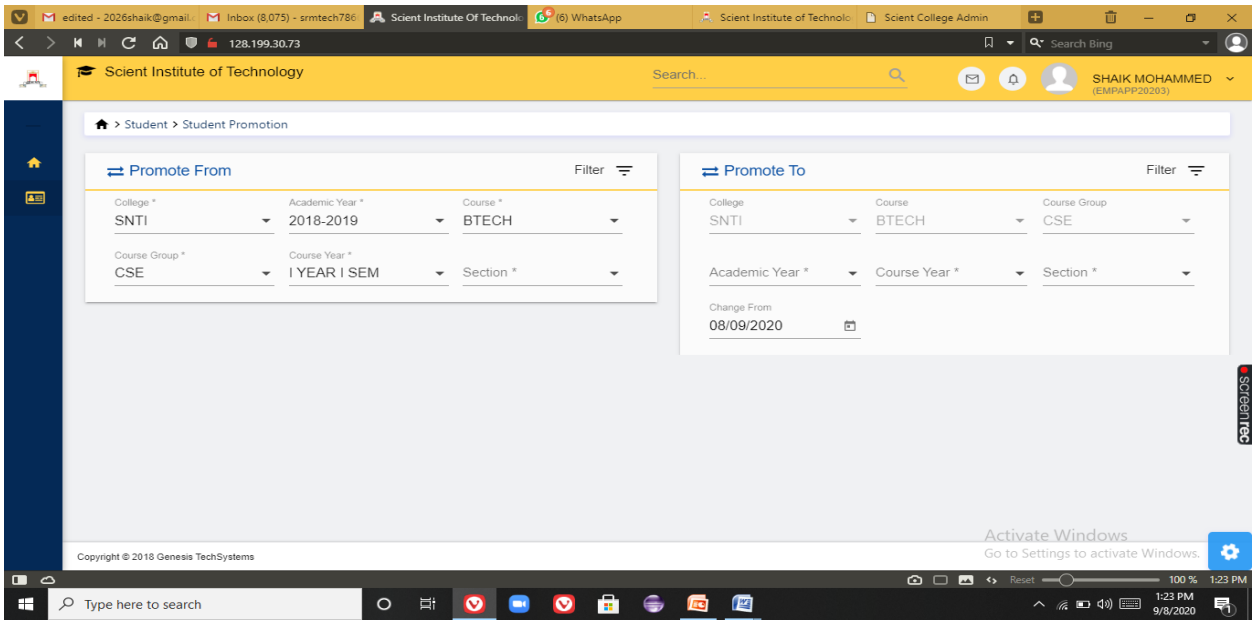


Fig 3 : Student promotions

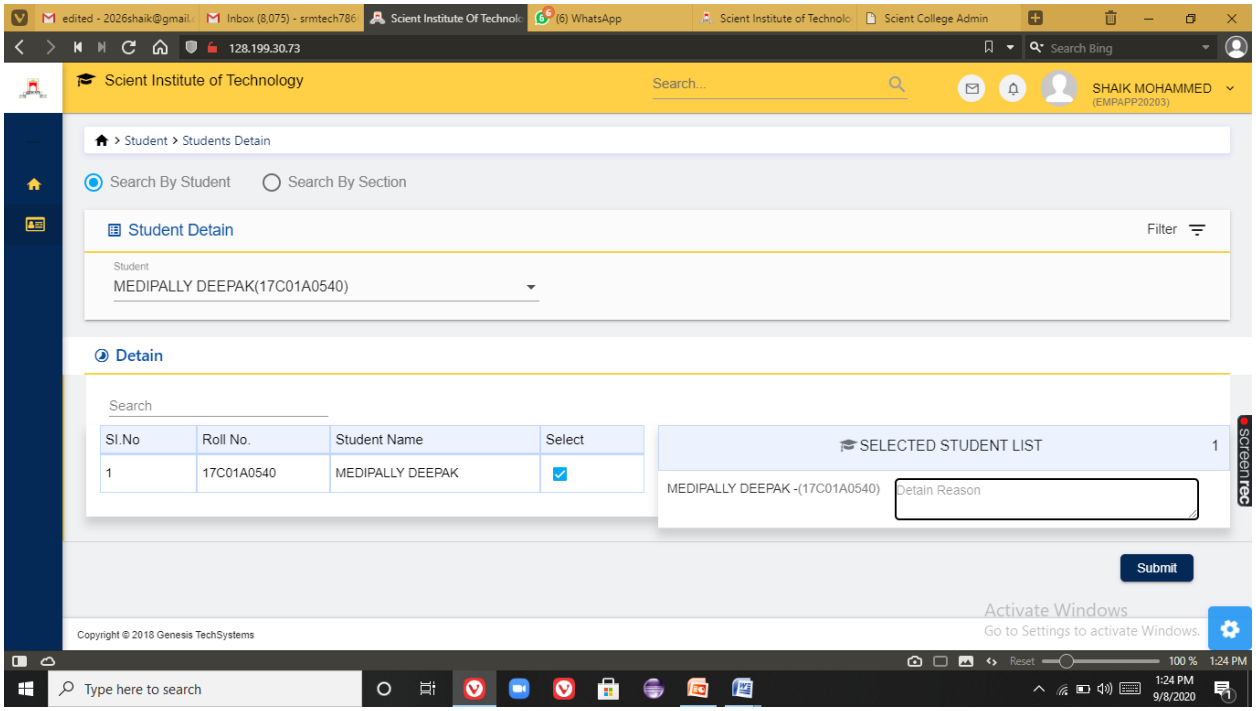


Fig 4 : Detention of the student

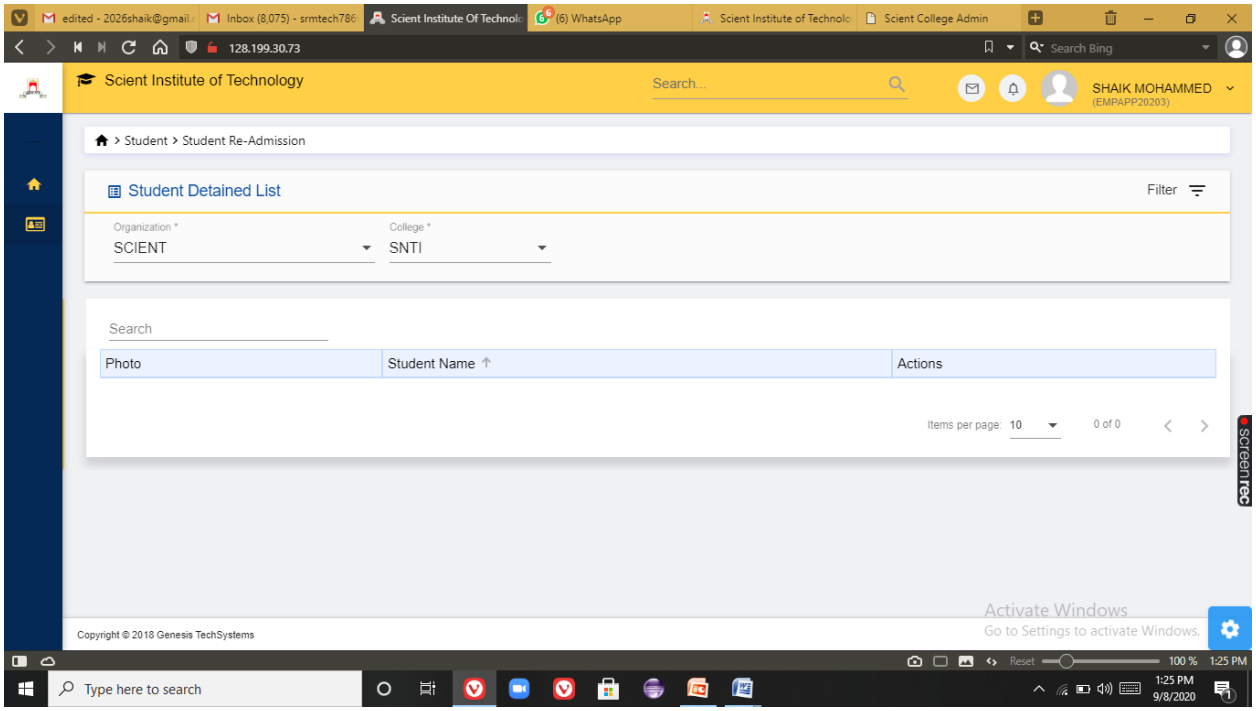


Fig5: To extract the list of students detained

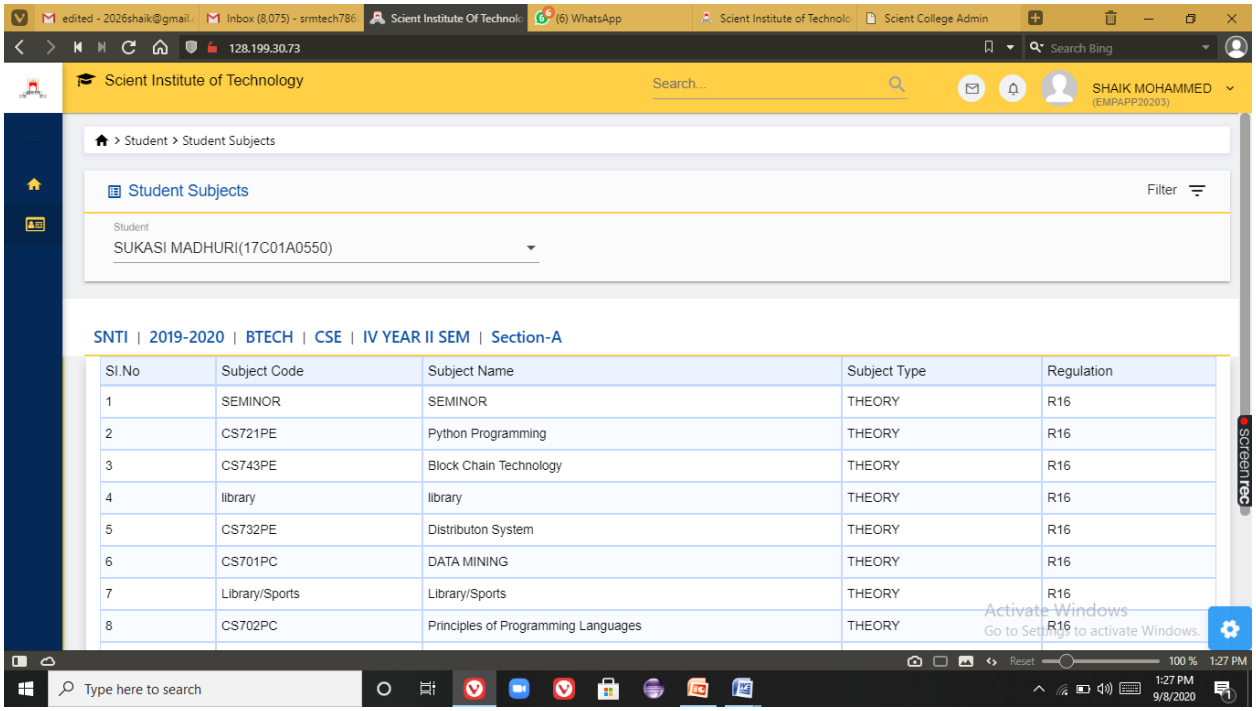


Fig 6 : List of subjects allotted to the students

5)HR & PAYROLL

In this module administration department can track the employees details ,salary details,leave management,payslip generations etc.Operations performed in this module are:

- Department head
- Employee
- Admin payroll
- Leave Management

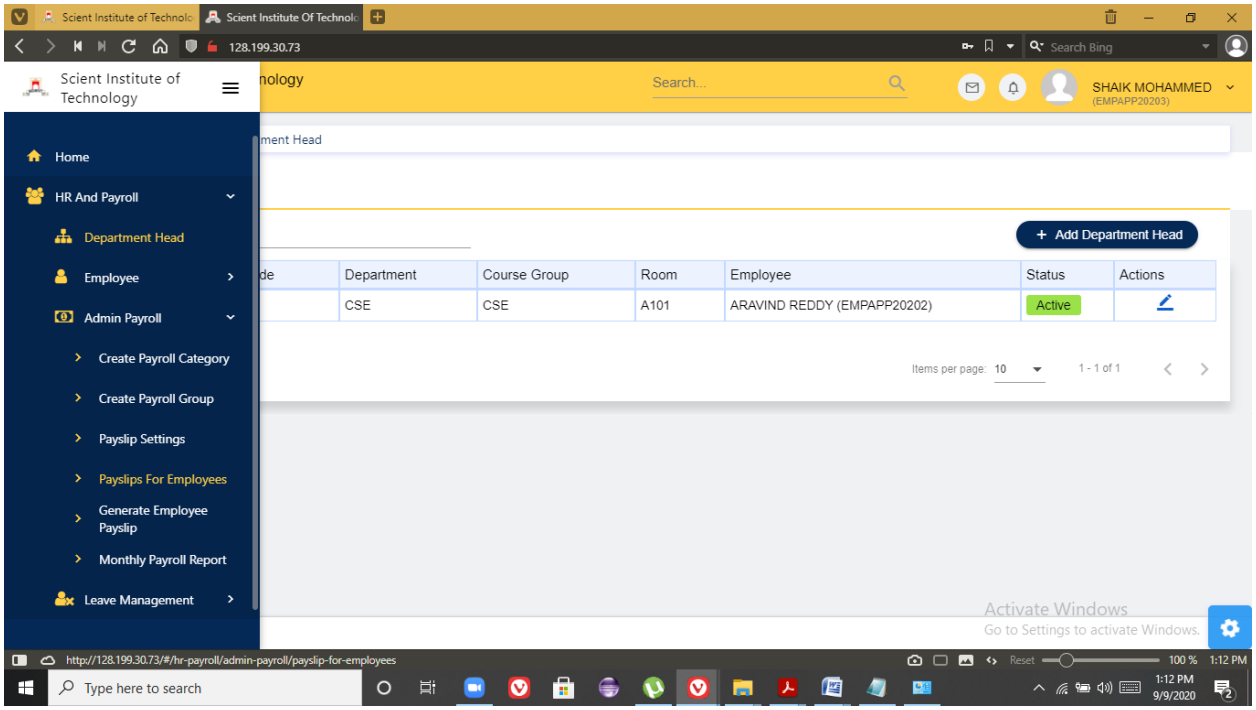


Fig 1: Operations performed in HR & Payroll

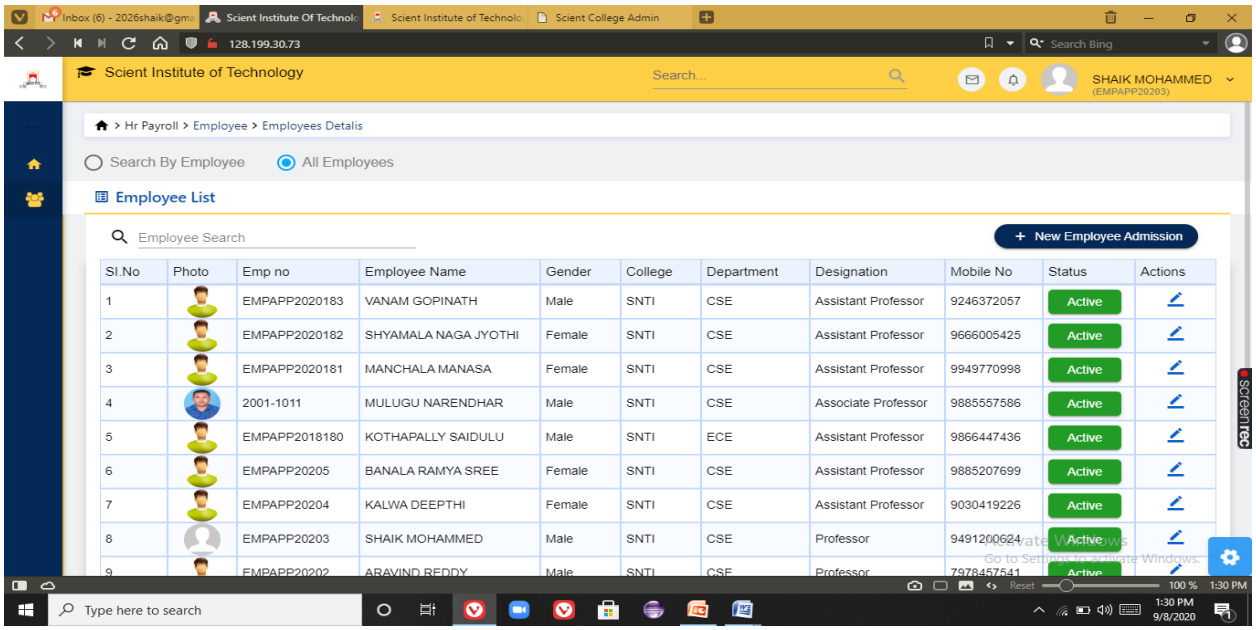


Fig 2 : List of faculty

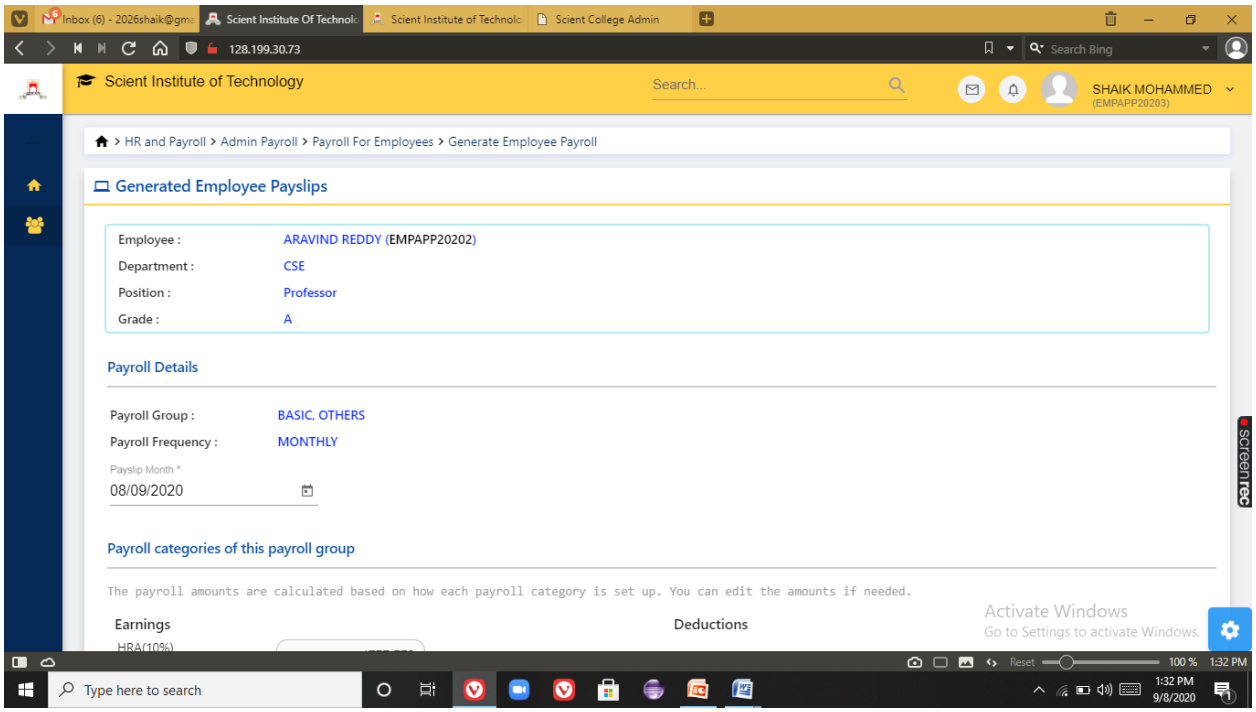


Fig 3: Payslip generation

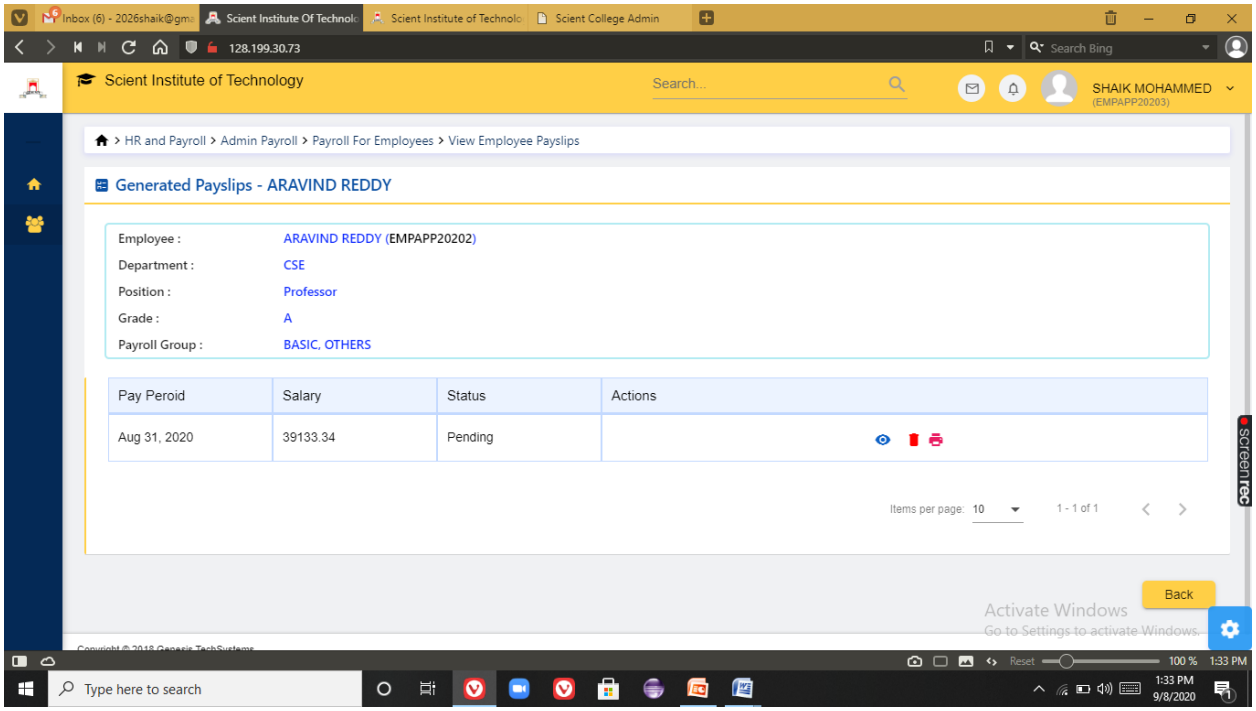


Fig 4 : View employee payslips

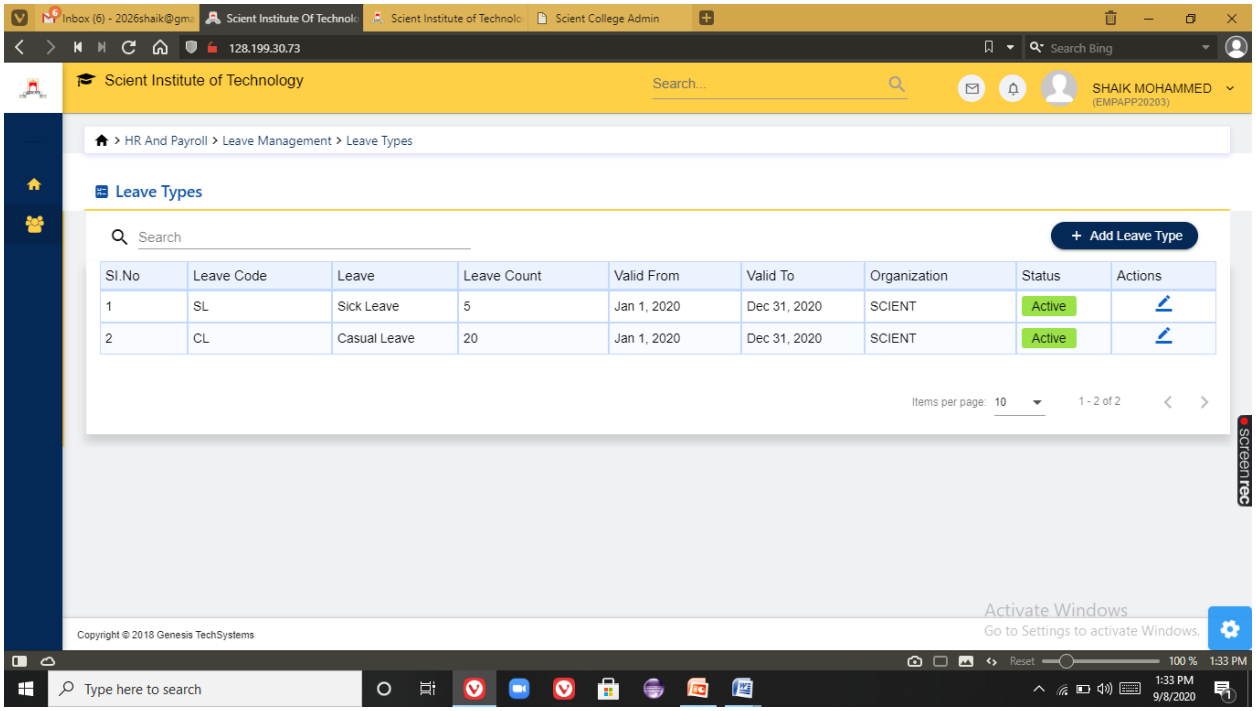


Fig 5 : Leave types

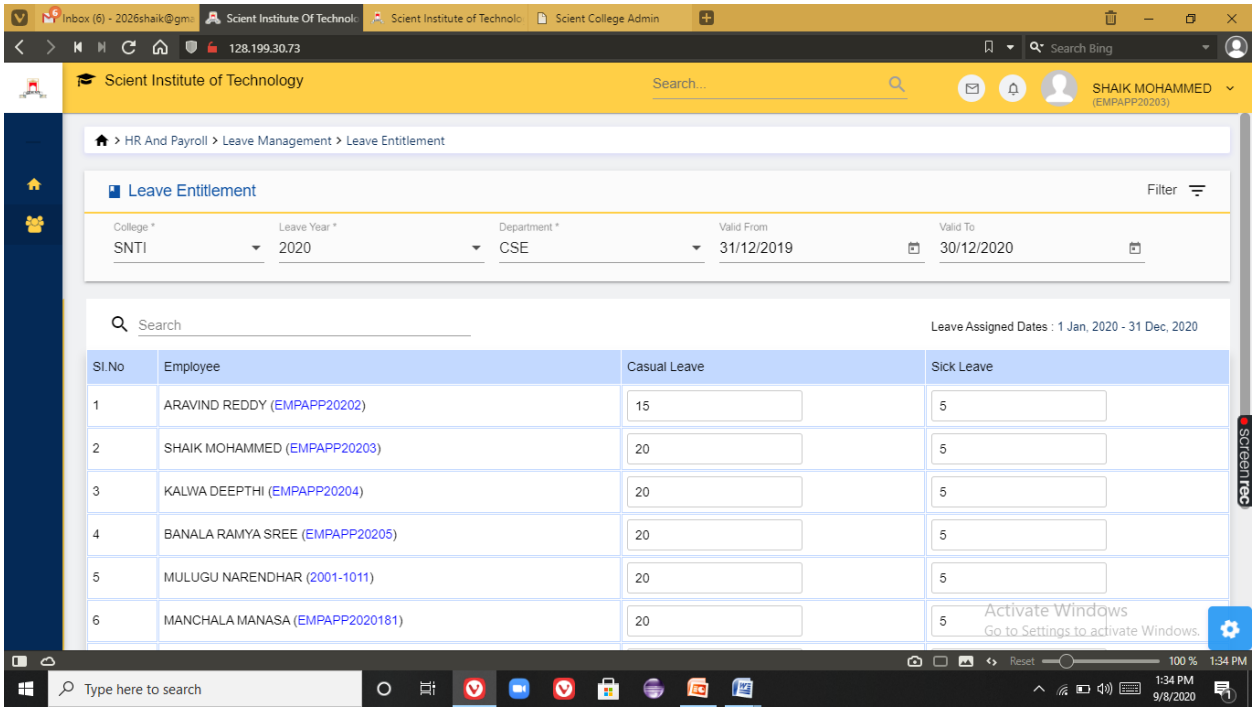


Fig 6 : Leave Entitlement for faculty.

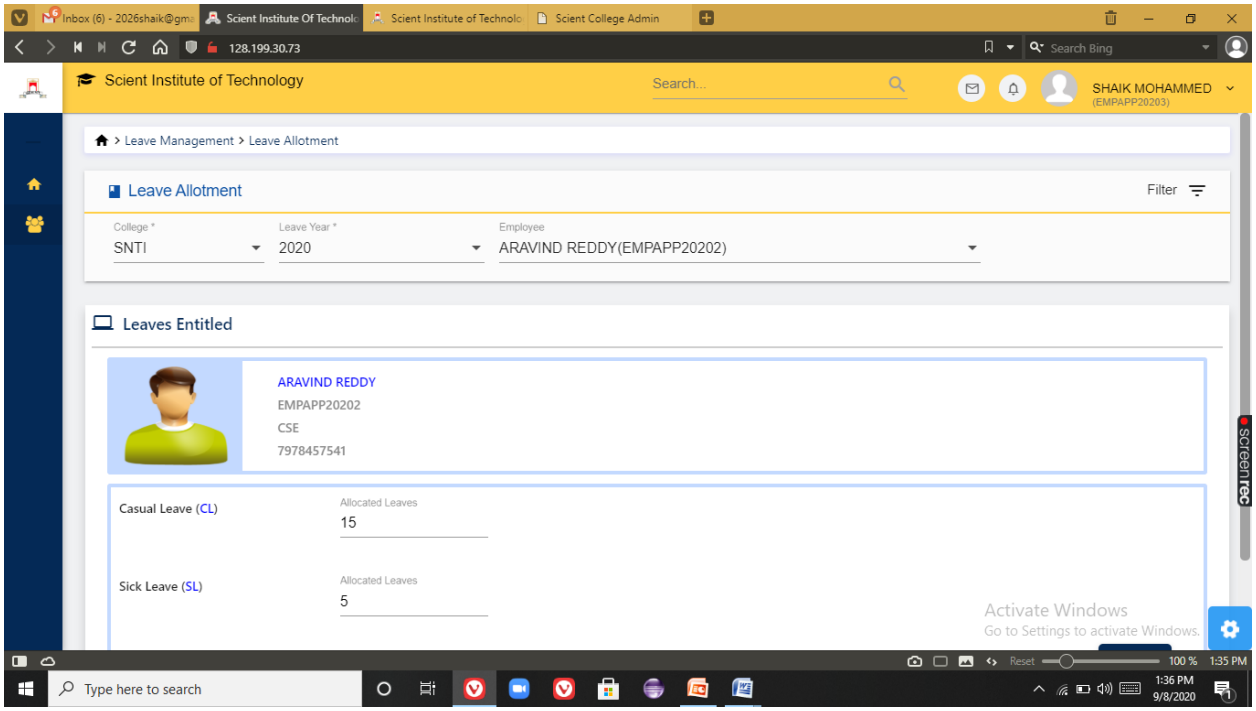


Fig 7 : Leave approvals

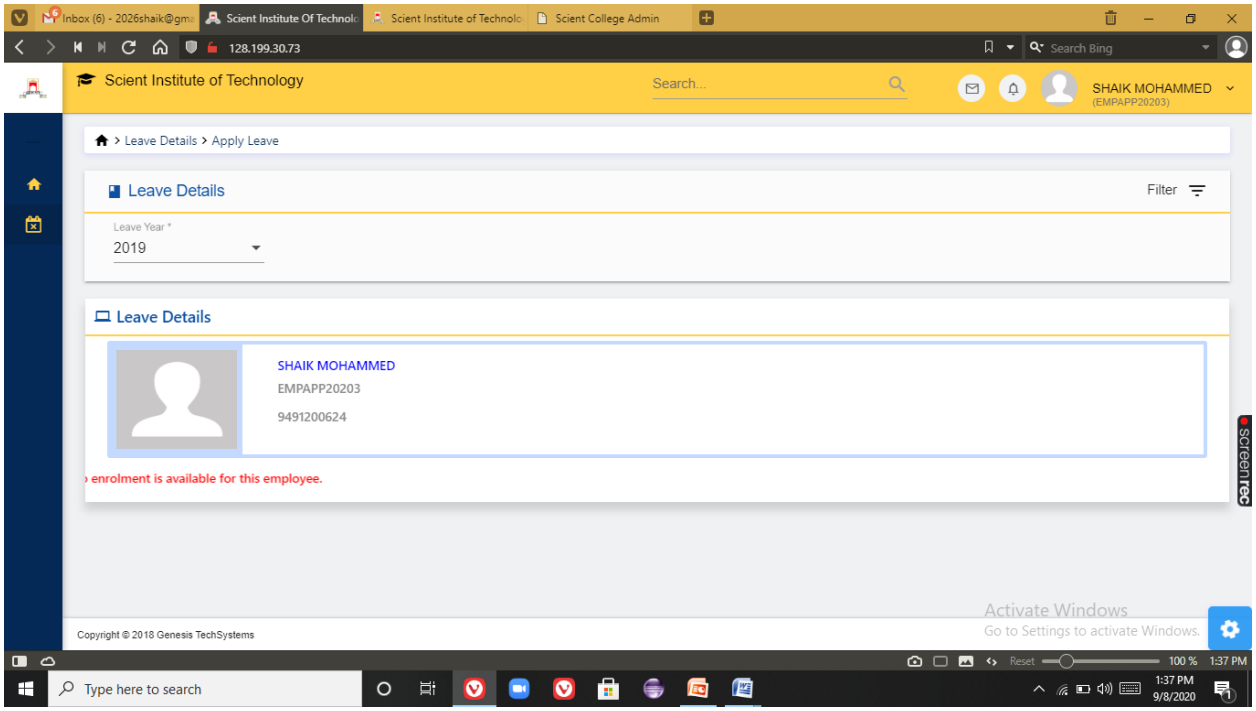


Fig 8: Track faculty leaves

8)ACCOUNTS AND FEES

This module is managed by admin.Using this module he can create fee masters like creating fee structure,Fee particulars,Fee categories,Fee collection,Generation of reports

Under fees collection session admin can perform following activities

- Allocate fees to student
- Bus fee payment
- Library fee payment
- Generating fee receipt
- Fee receipt refunds
- Student fee collection
- Faculty bus fee collection

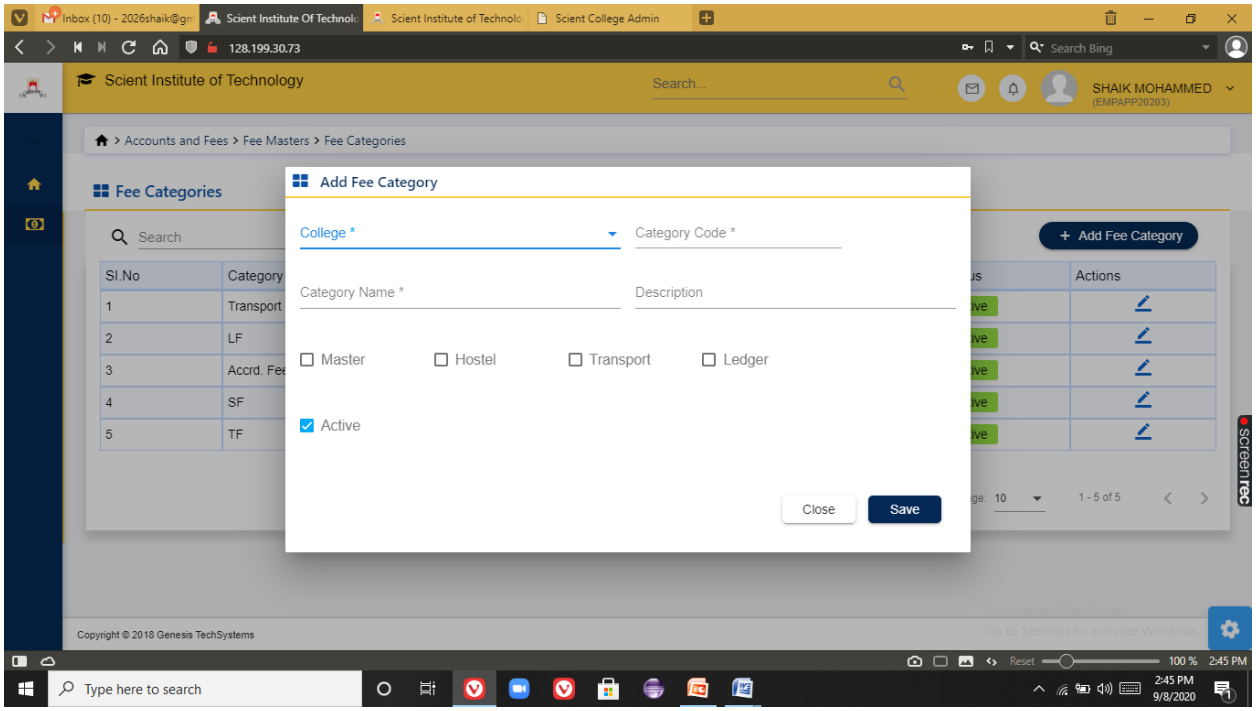


Fig 1 : Adding fees category

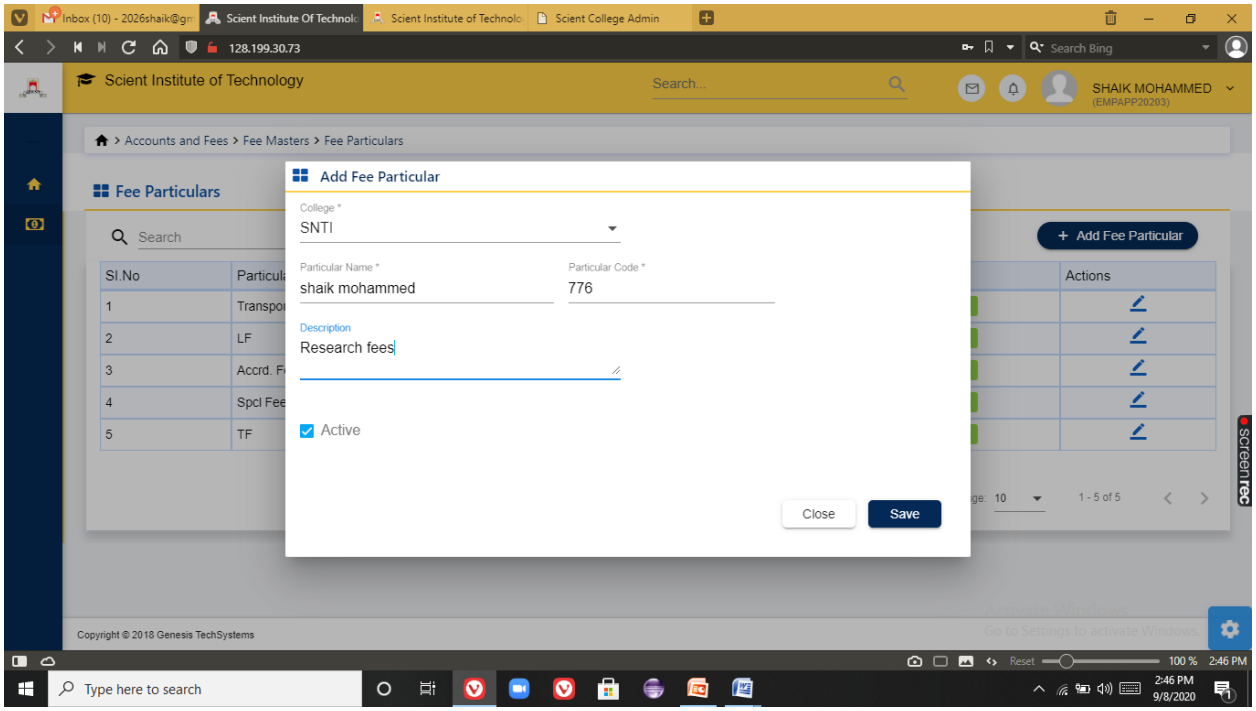


Fig 2 : Adding fee particulars

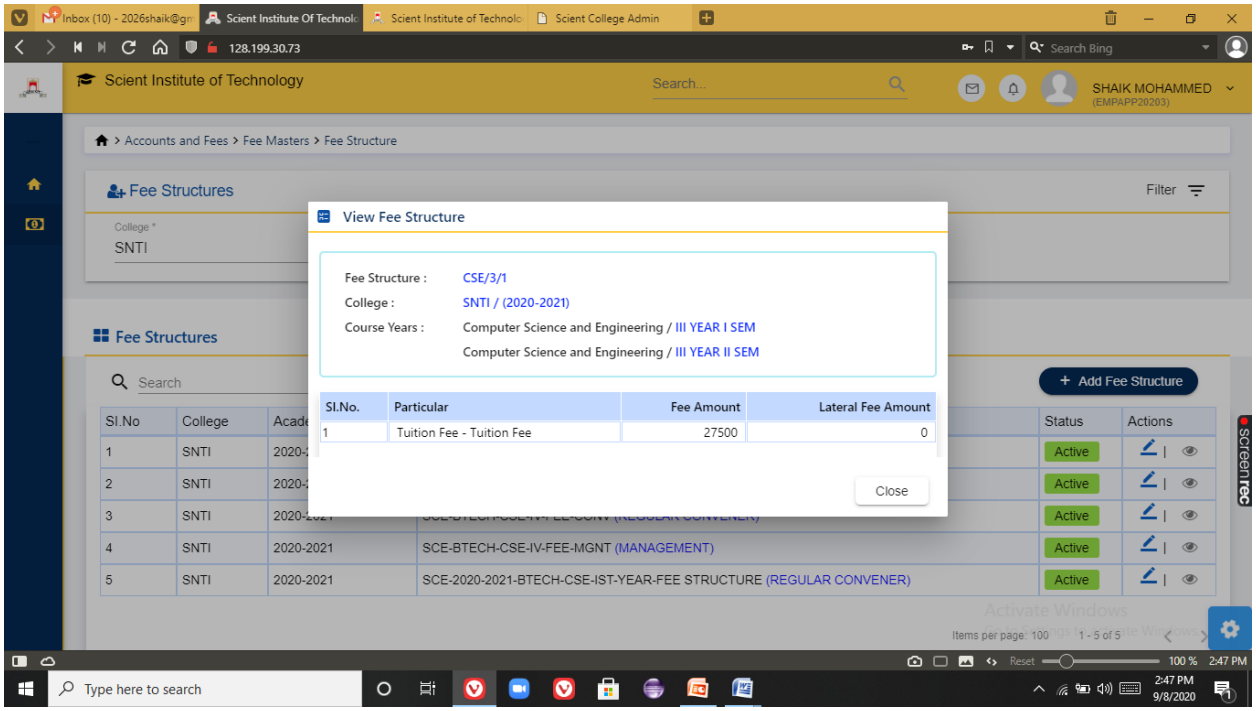


Fig 3 : View fee structure of a student

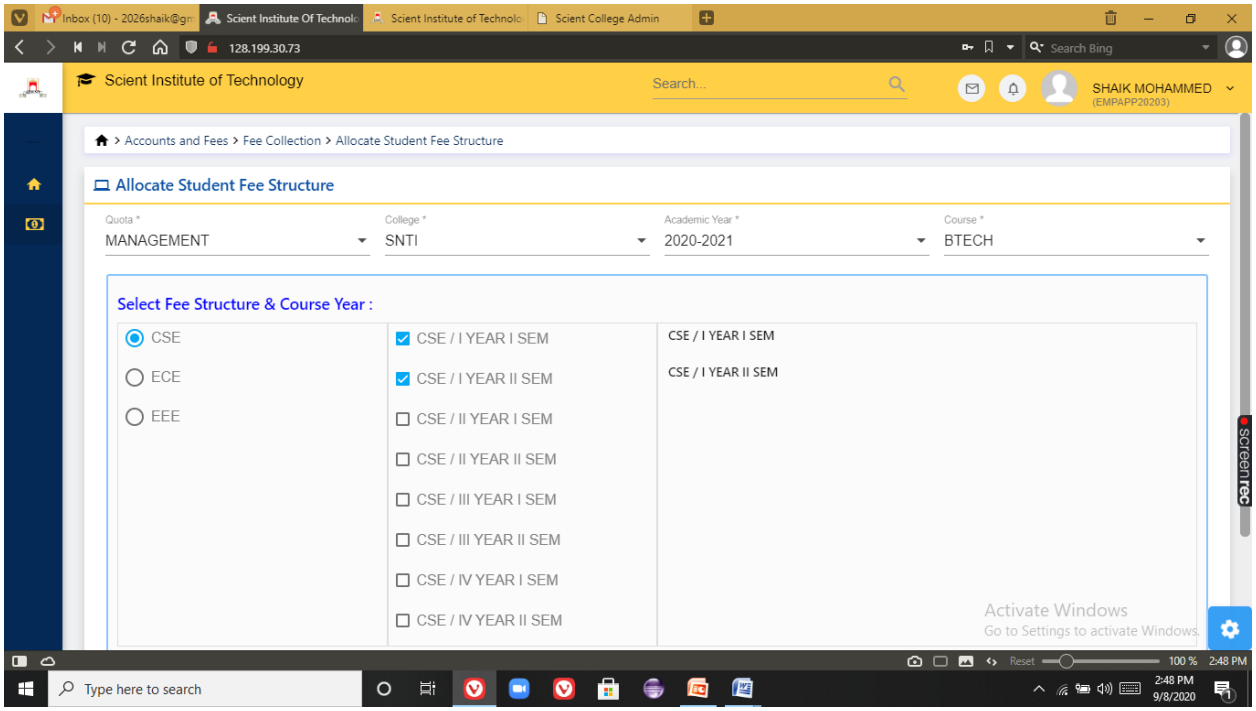


Fig 4 : Allocation of fee structure

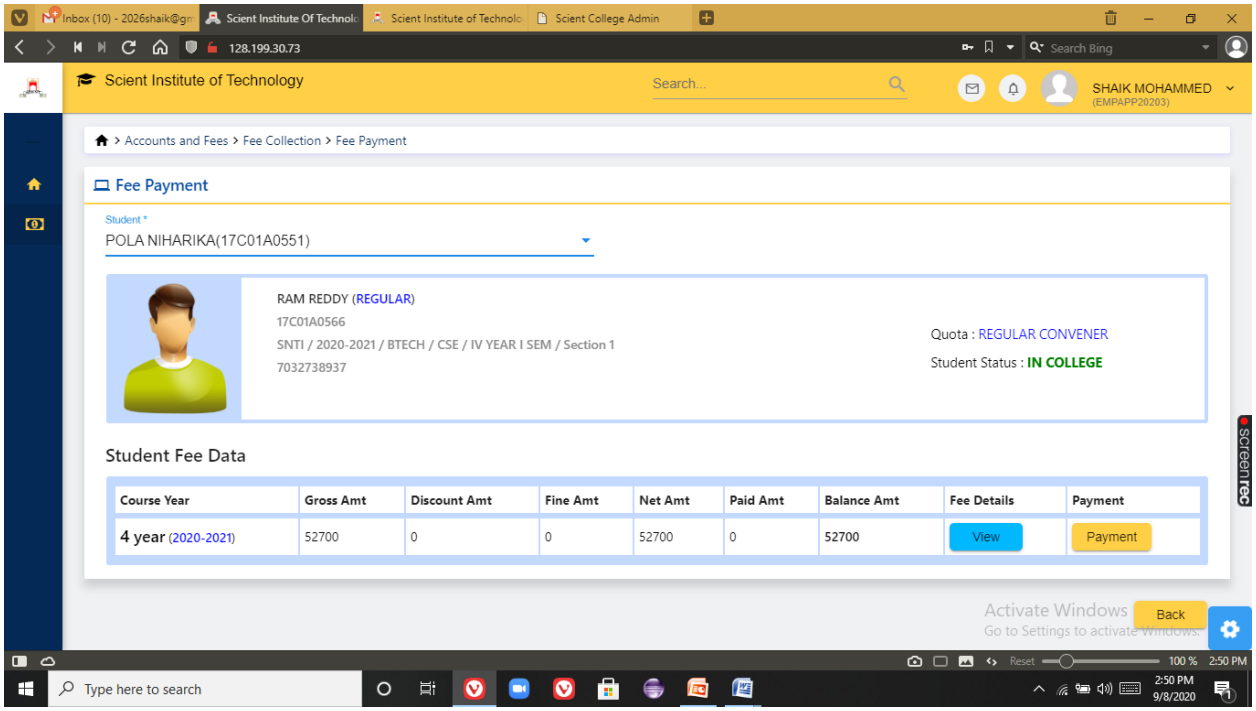


Fig 5 : Fee payment by a student

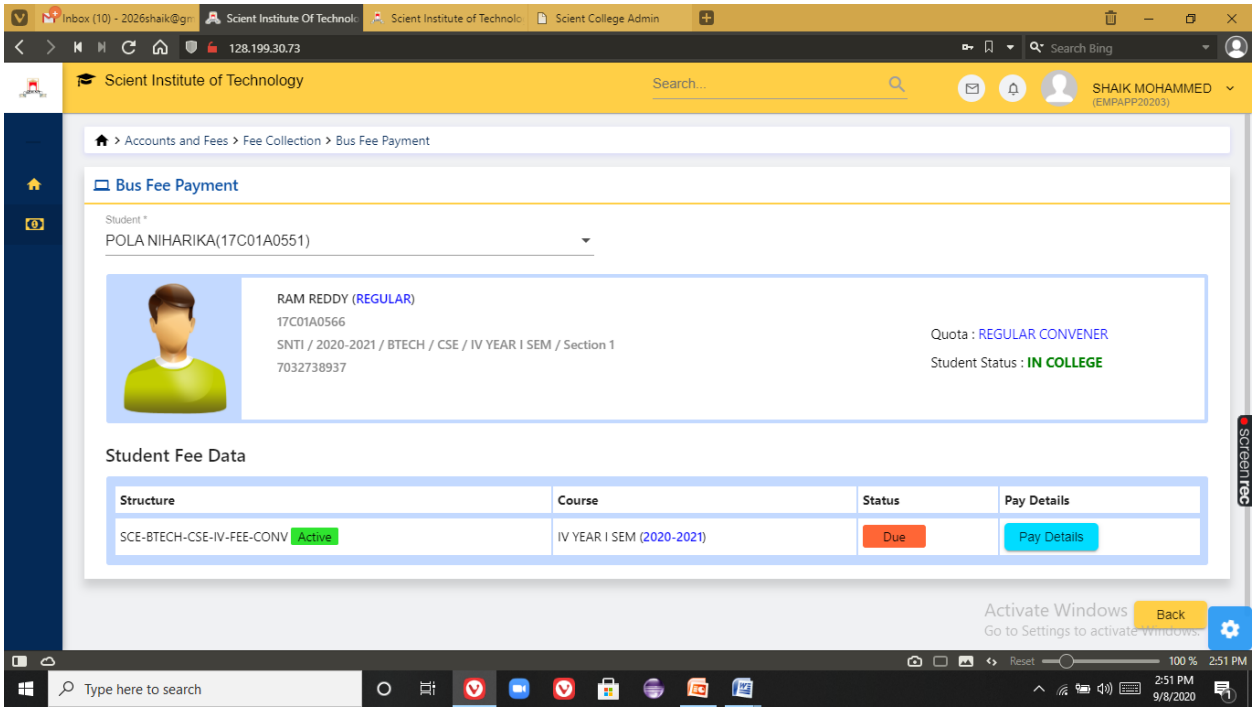


Fig 6 : Bus fee payment status of a student

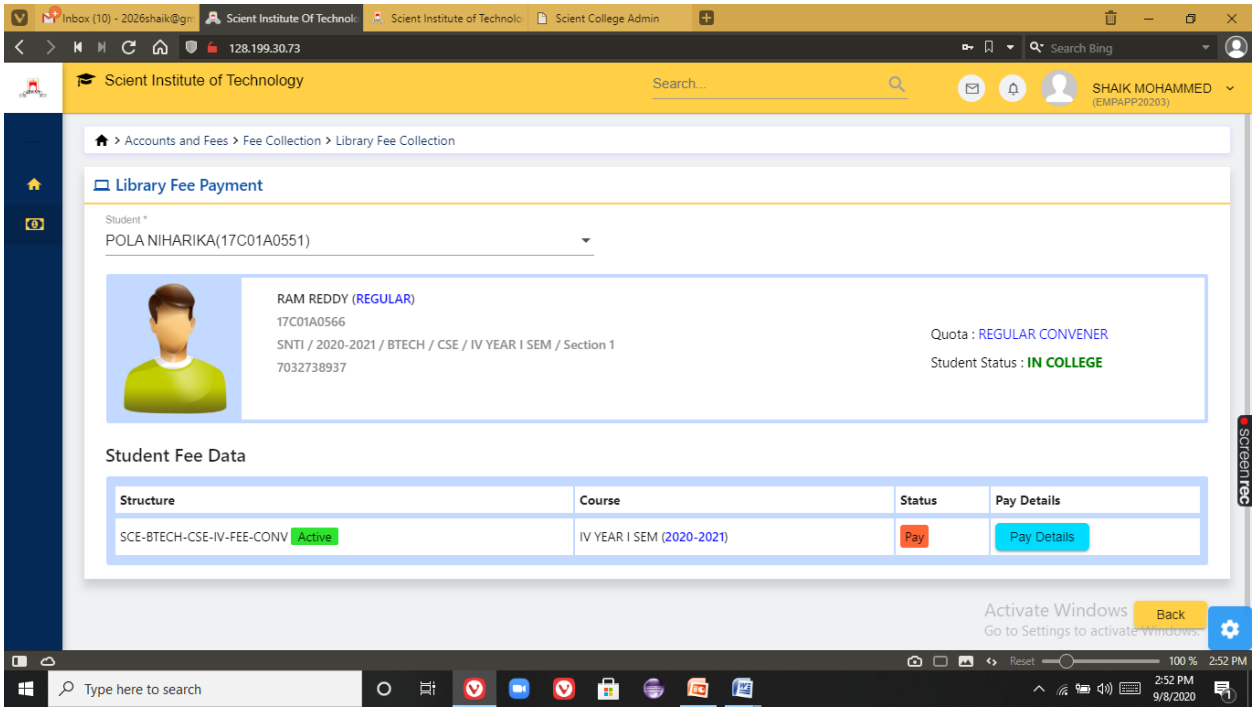


Fig 7 : Library fee payment

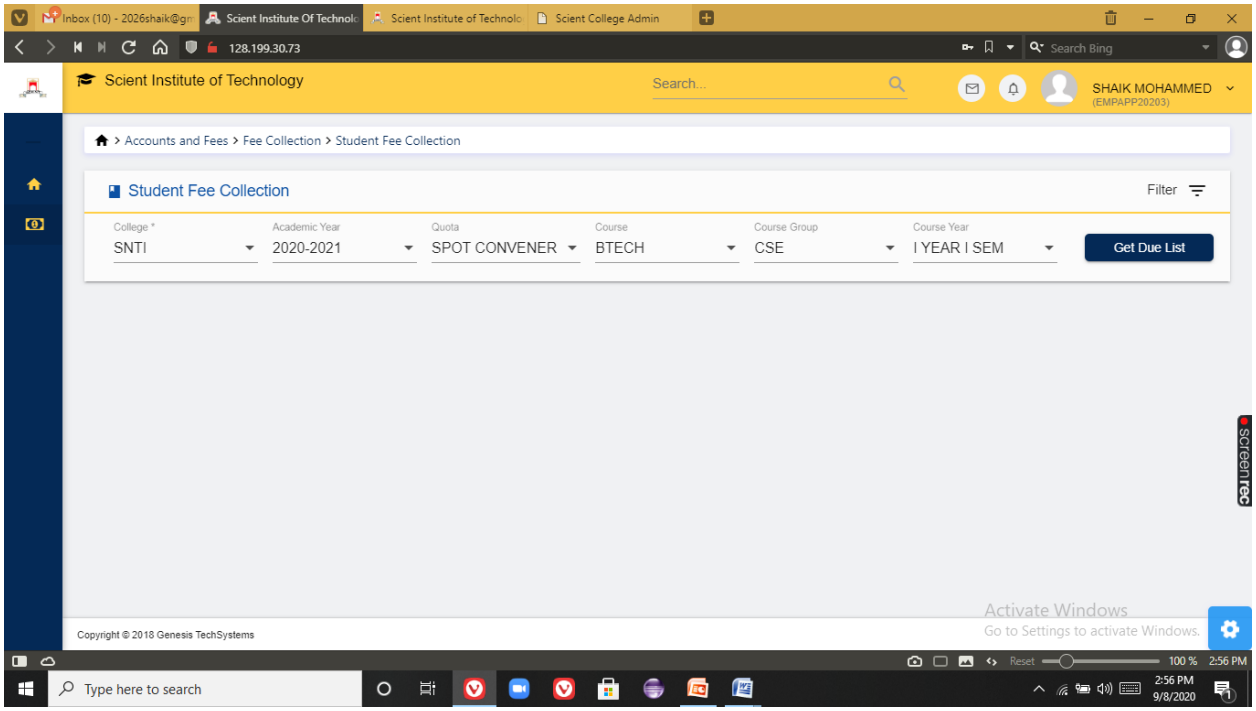


Fig 8 : Tracking the details of student fee collection

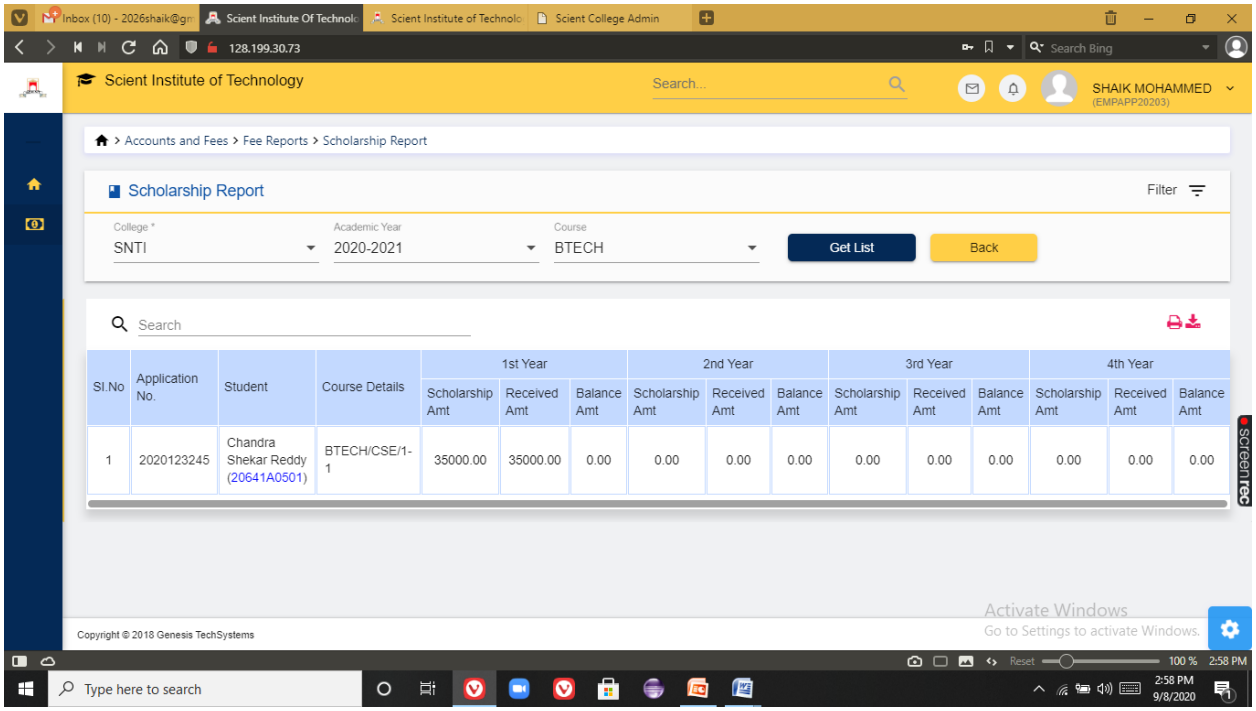


Fig 9 : Getting scholarship report of the students

9)SCHOLARSHIP MANAGEMENT

This module stores all the types of scholarships, and the list of all the students who have applied for scholarship. Scholarships are applied by college on behalf of the students, which are sanctioned by government and trusts. Each and every student scholarship details are monitored by administrative officer in very ease mode since they have all details of applied student in very proper arranged manner.Functionalities in this module are

- Scholarship application
- Scholarship proceedings
- Account proceedings

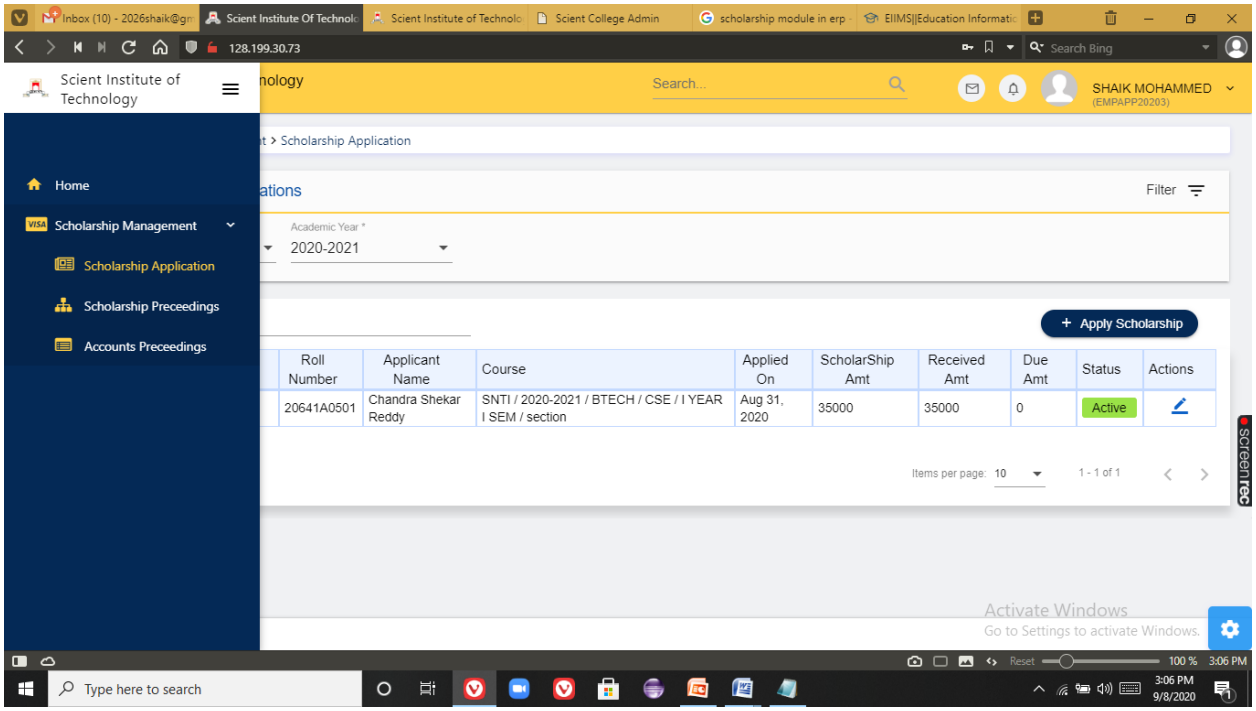


Fig 1 : Scholarship Management

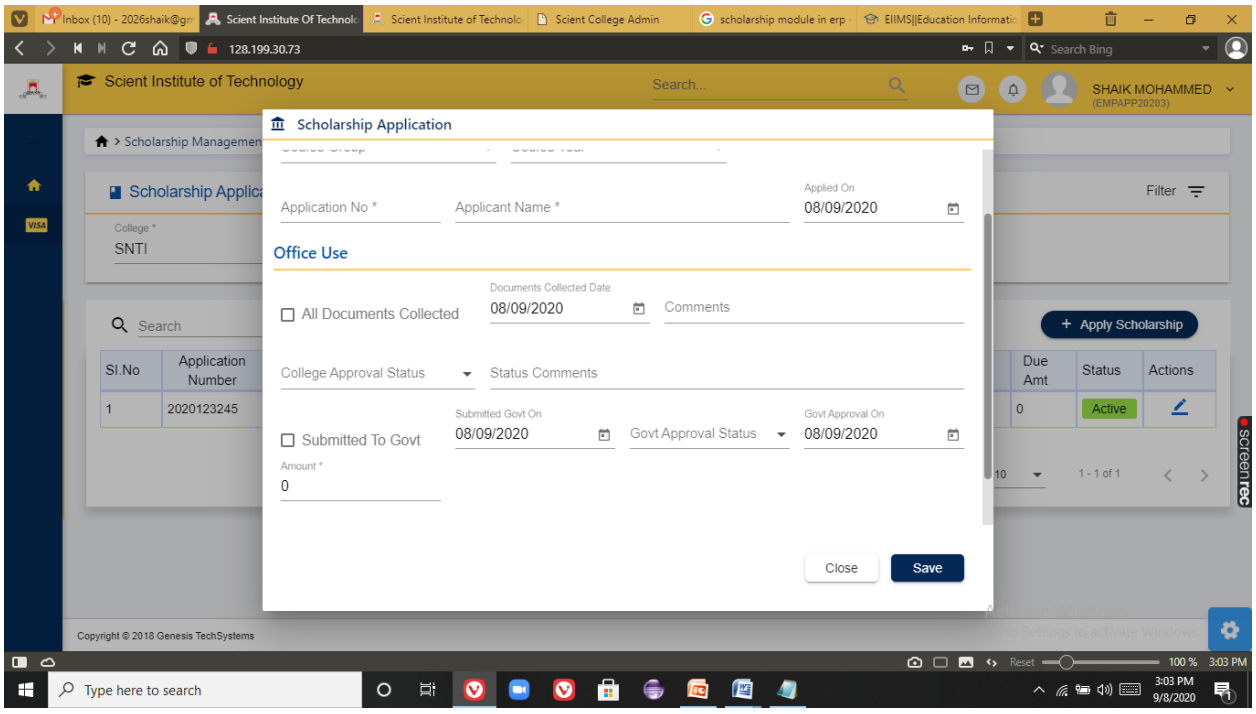


Fig 2 : Scholarship application

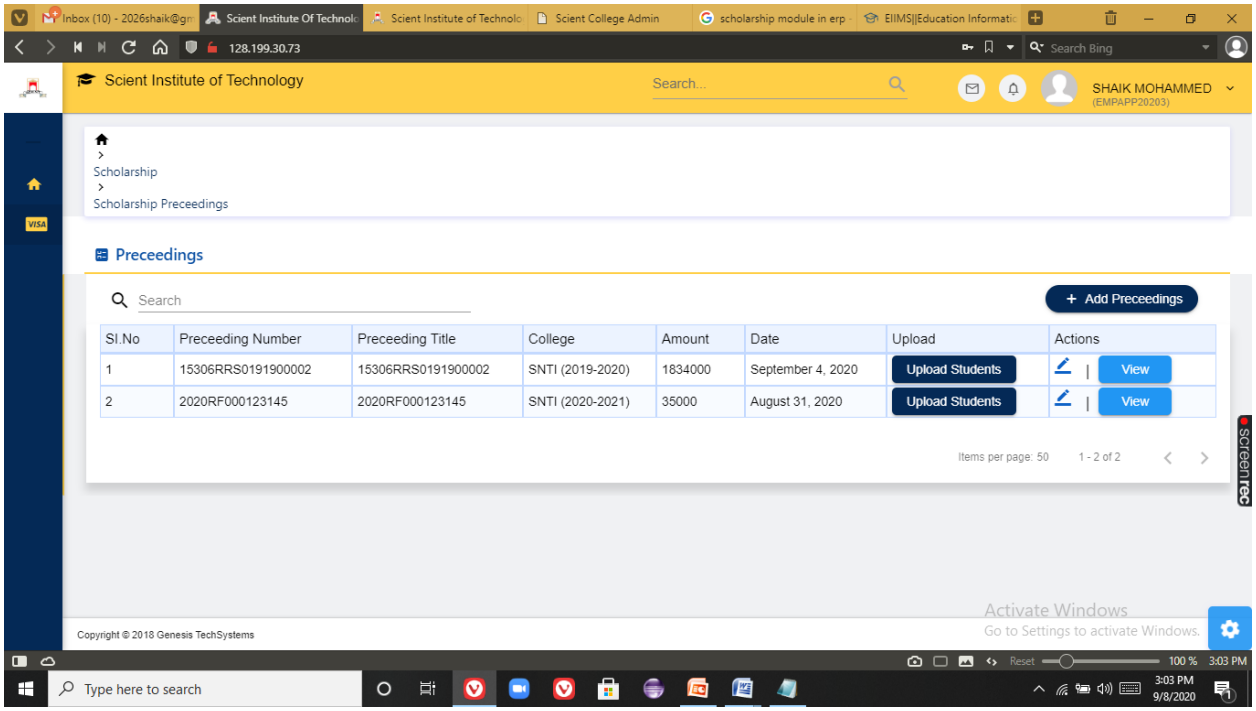


Fig 2 : Scholarship proceedings

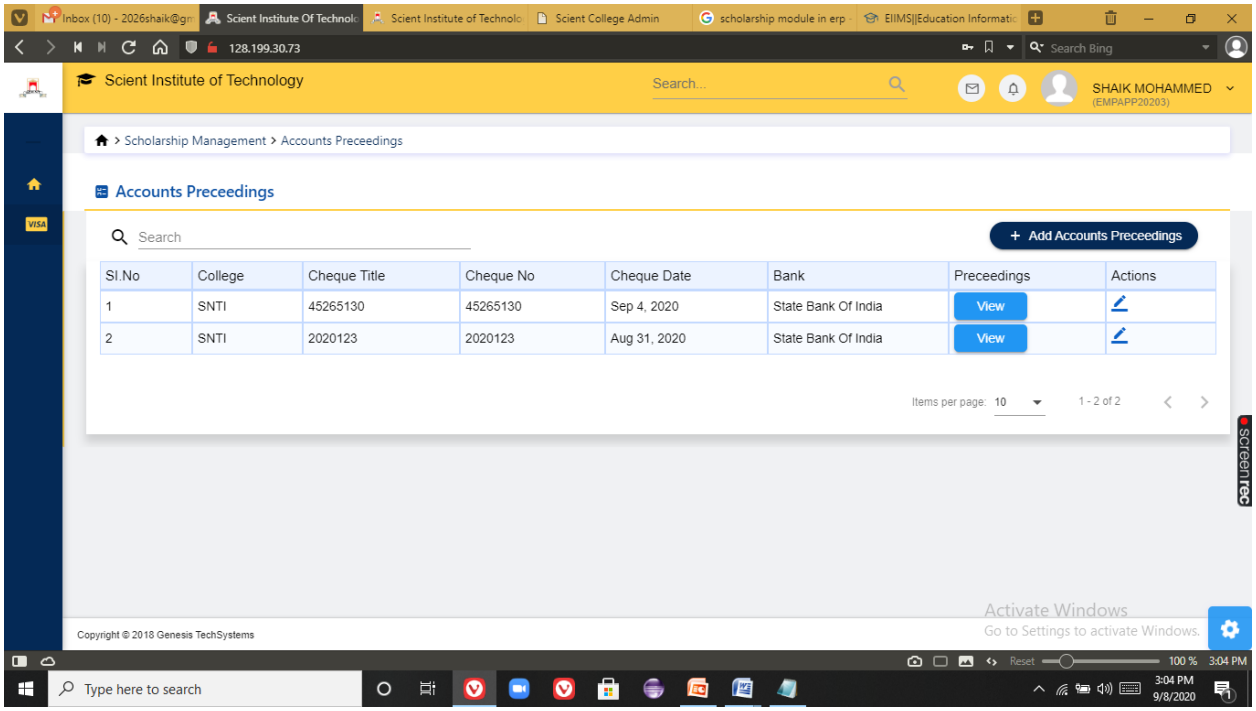


Fig 3 : Accounts proceedings

15)INVENTORY MANAGEMENT SYSTEM

Inventory management ERP software module is a complete system that offers integrated, interactive management of all your inventories, including physical stock room, in-transit, consigned and others.Using this module following operations to be performed

- Store master
- UOM master
- Supplier master
- Purchase orders
- Stock ledger

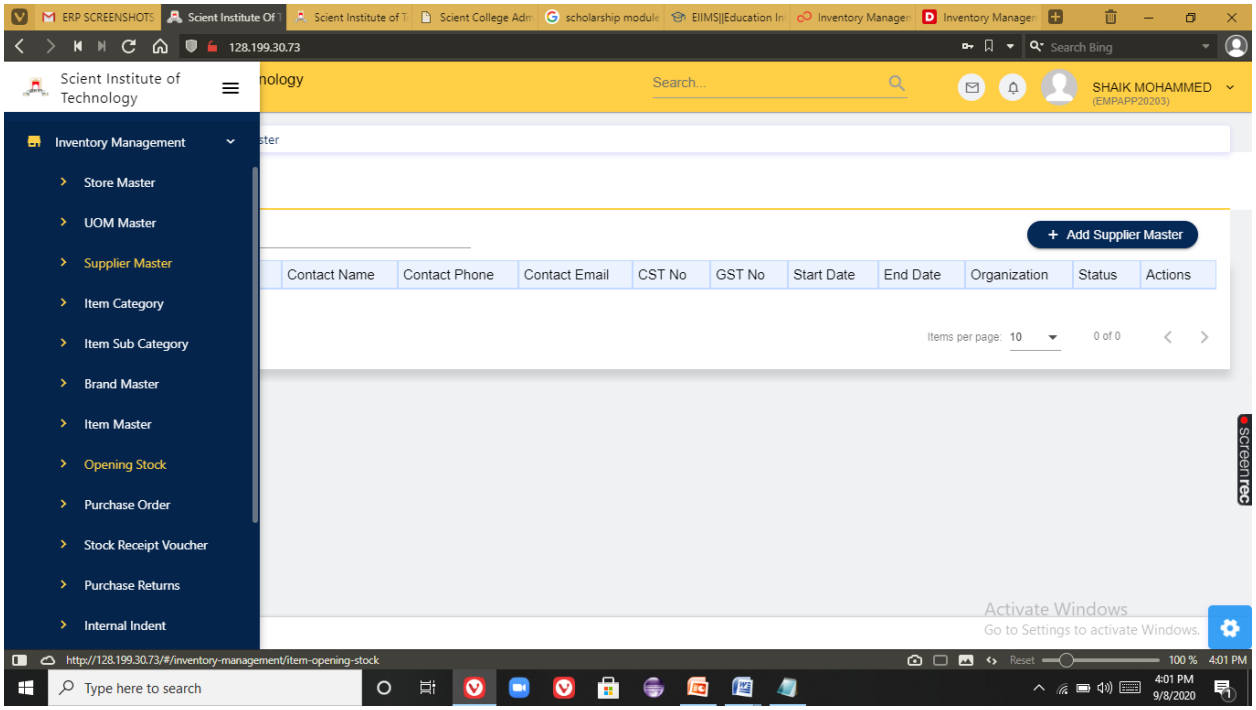


Fig 1: Inventory management system

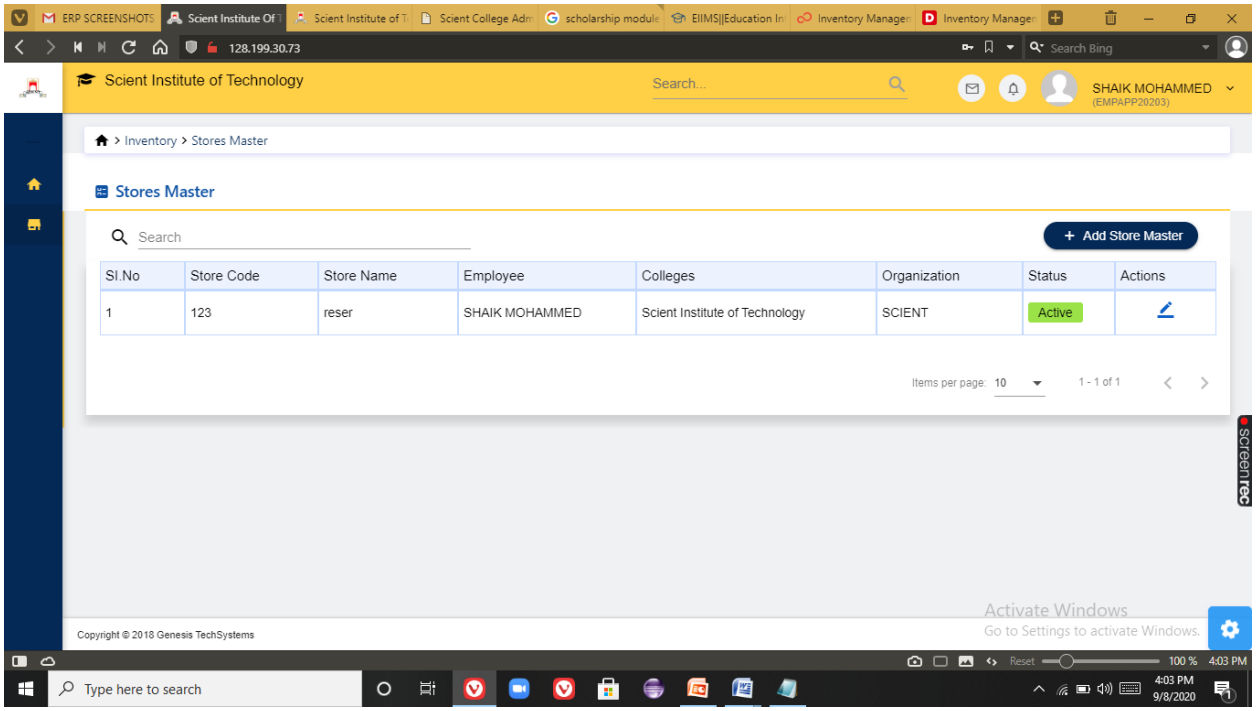


Fig 2 : Store master

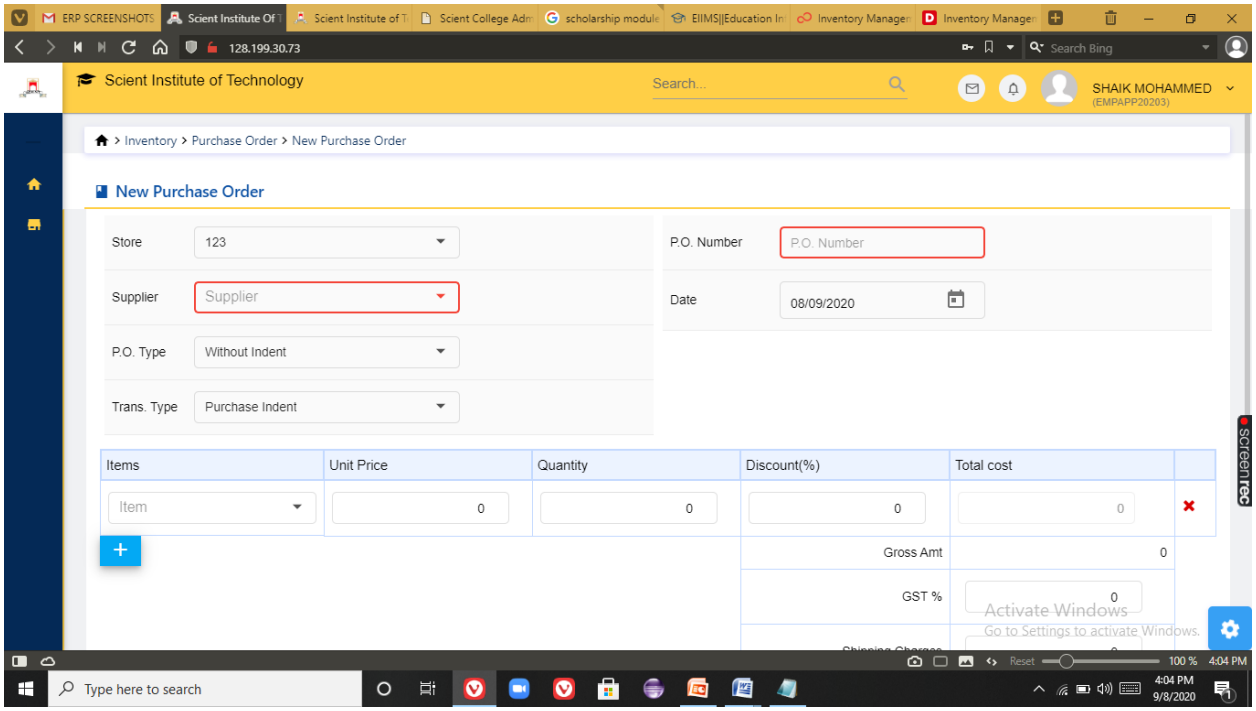


Fig 3: New purchase order generations

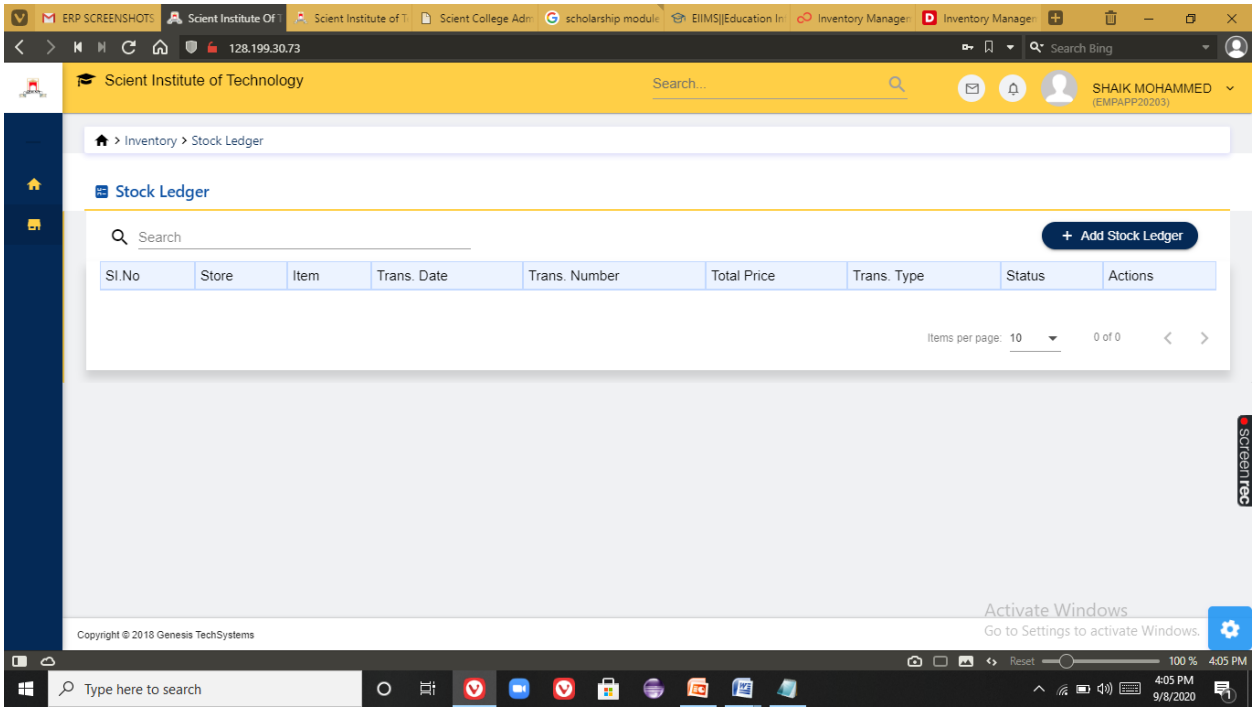
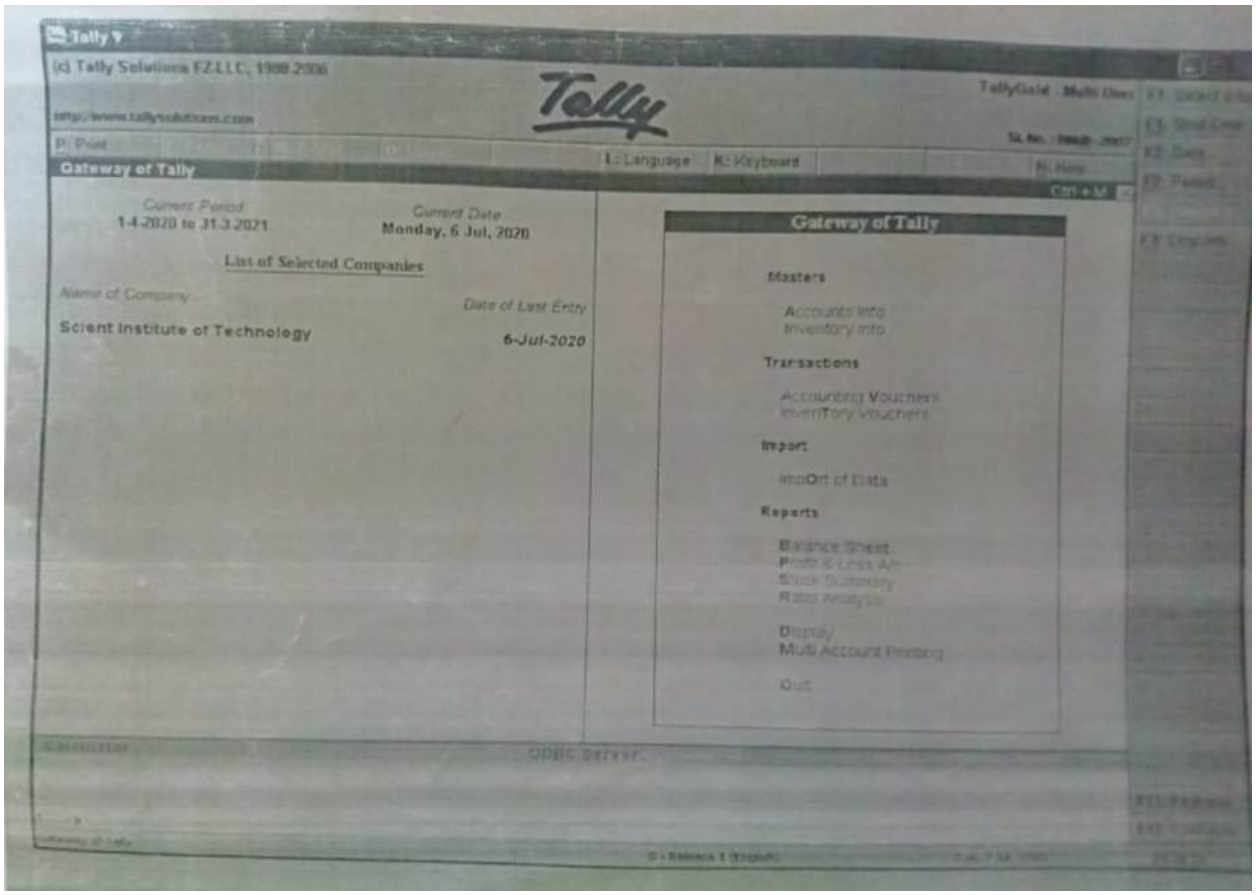


Fig 4: Stock ledgers

CCTV EQUIPMENT SCREENSHOT

FINANCE AND ACCOUNTS

Tally Software has been used for payslip generation, college tuition fee payment details, transport fee details etc.



SNTI COLLEGE AUTOMATION

8)ACCOUNTS AND FEES

This module is managed by admin.Using this module he can create fee masters like creating fee structure,Fee particulars,Fee categories,Fee collection,Generation of reports

Under fees collection session admin can perform following activities

- Allocate fees to student
- Bus fee payment
- Library fee payment
- Generating fee receipt
- Fee receipt refunds
- Student fee collection
- Faculty bus fee collection

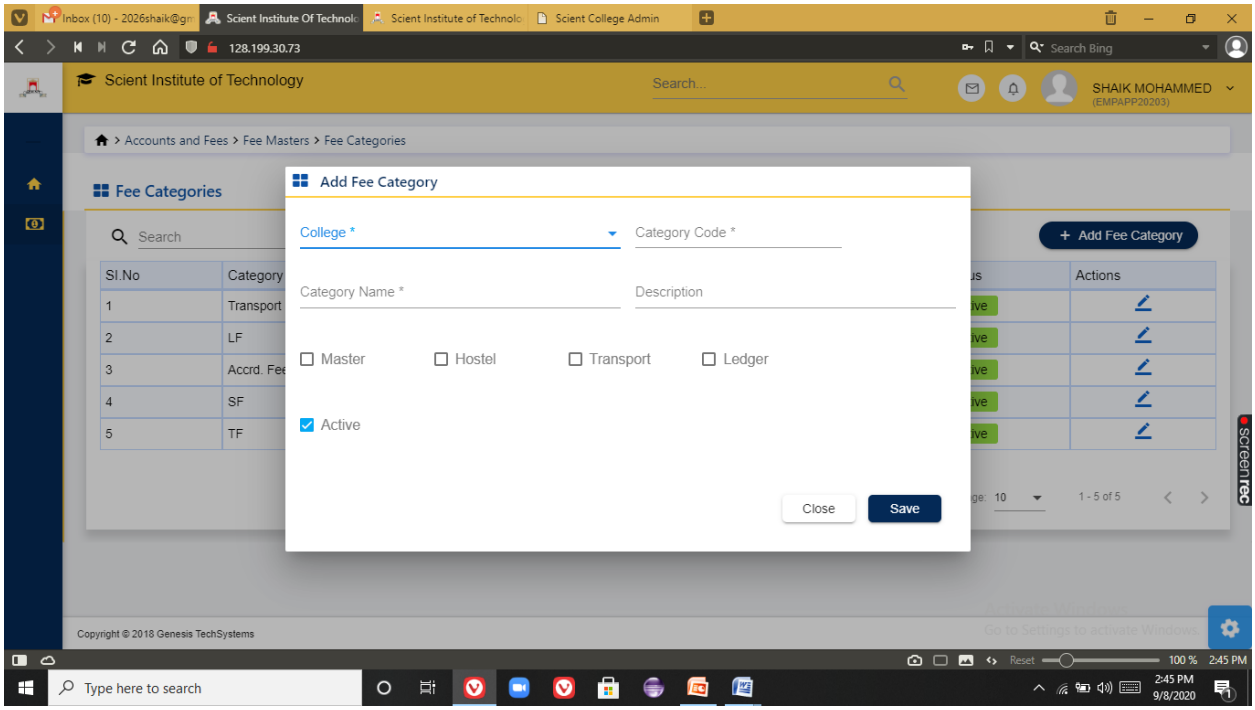


Fig 1 : Adding fees category

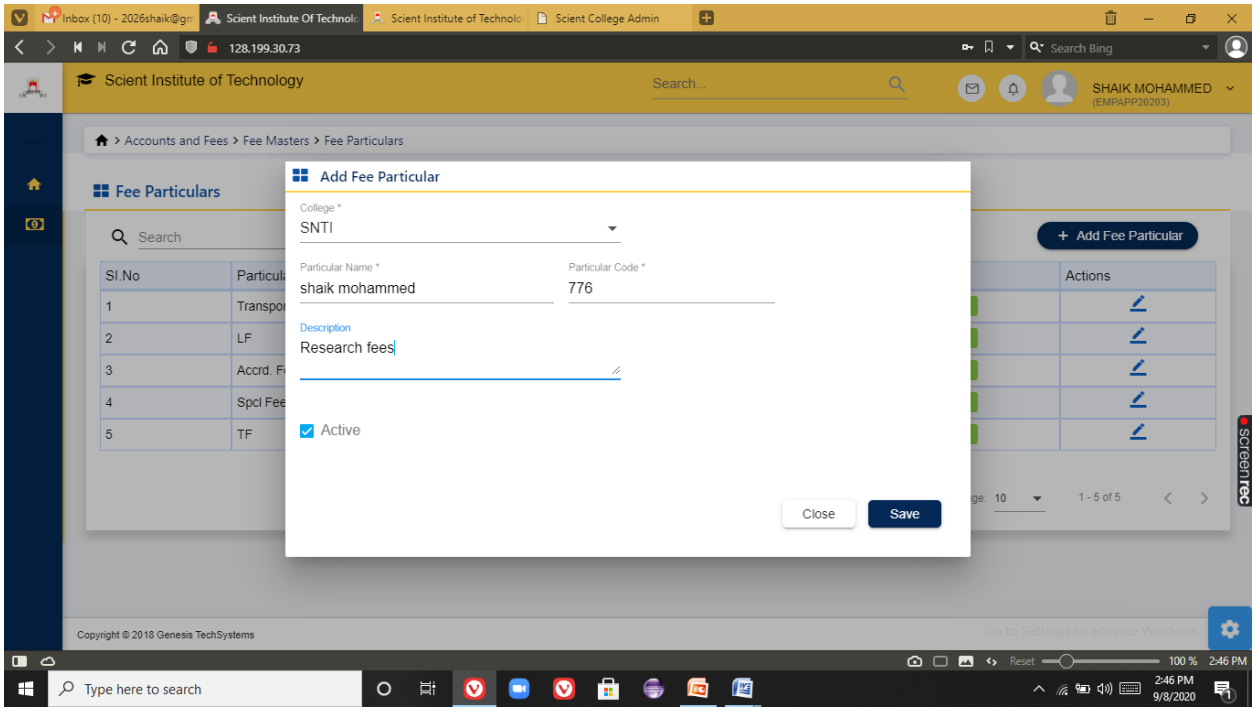


Fig 2 : Adding fee particulars

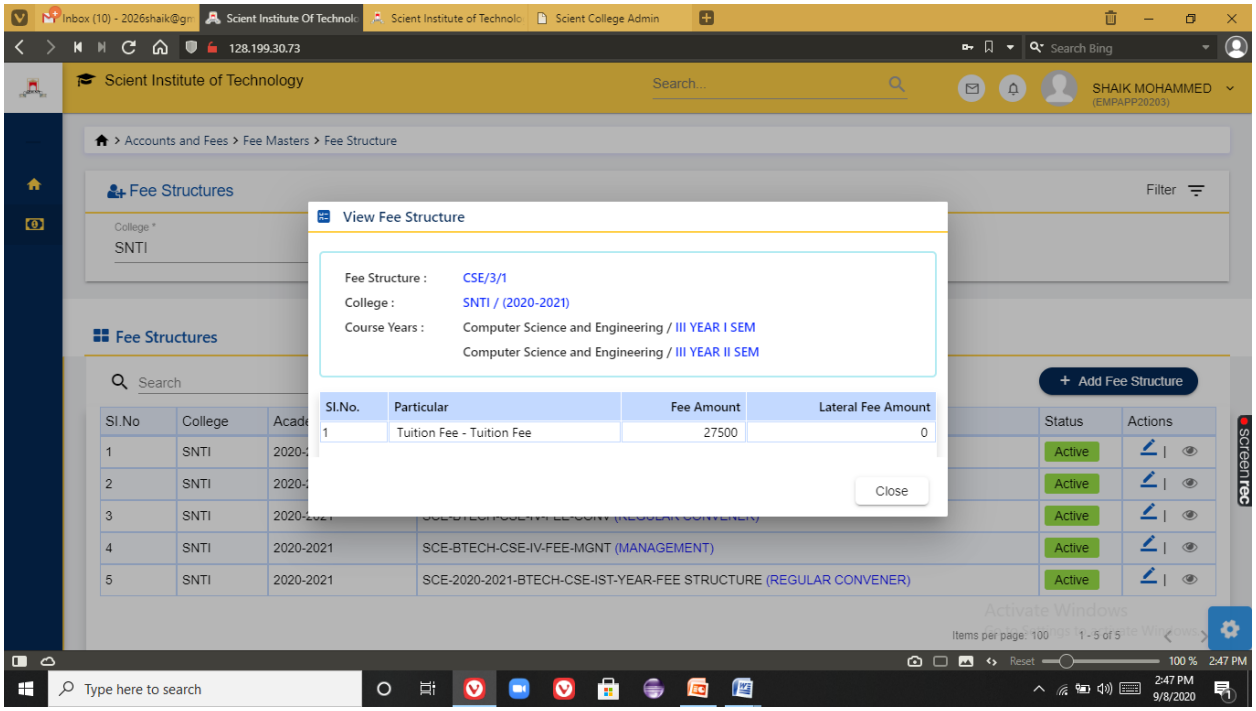


Fig 3 : View fee structure of a student

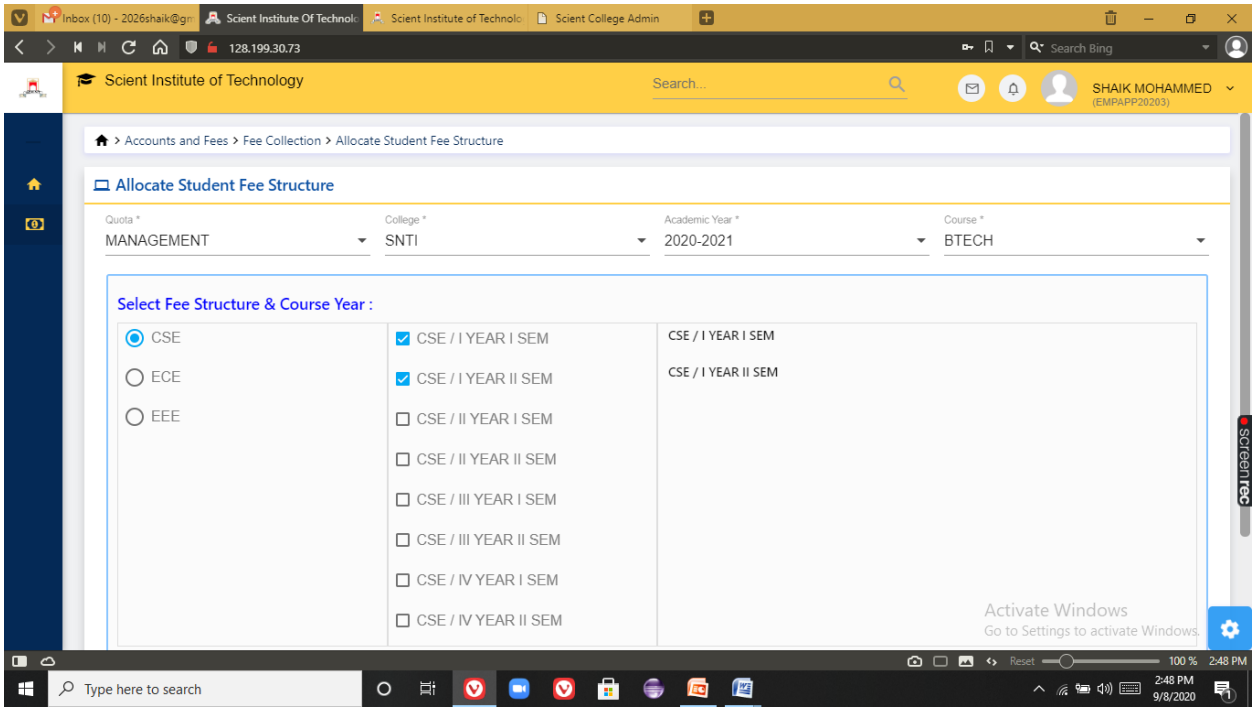


Fig 4 : Allocation of fee structure

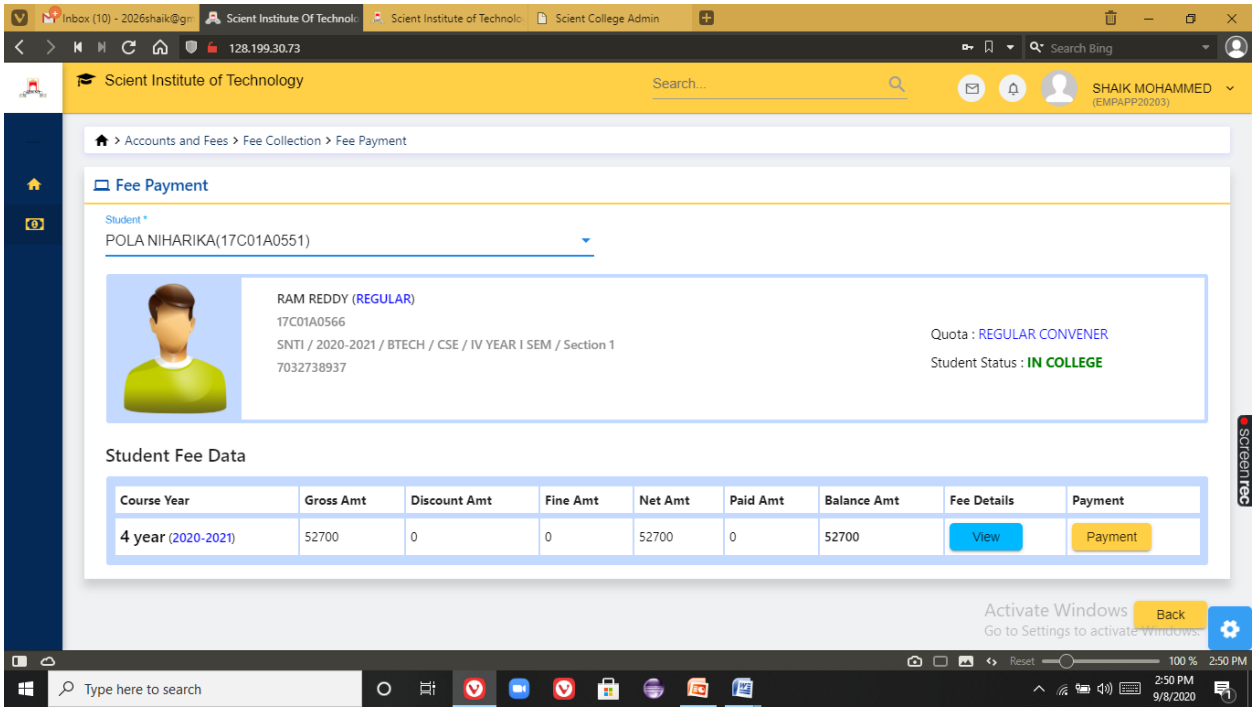


Fig 5 : Fee payment by a student

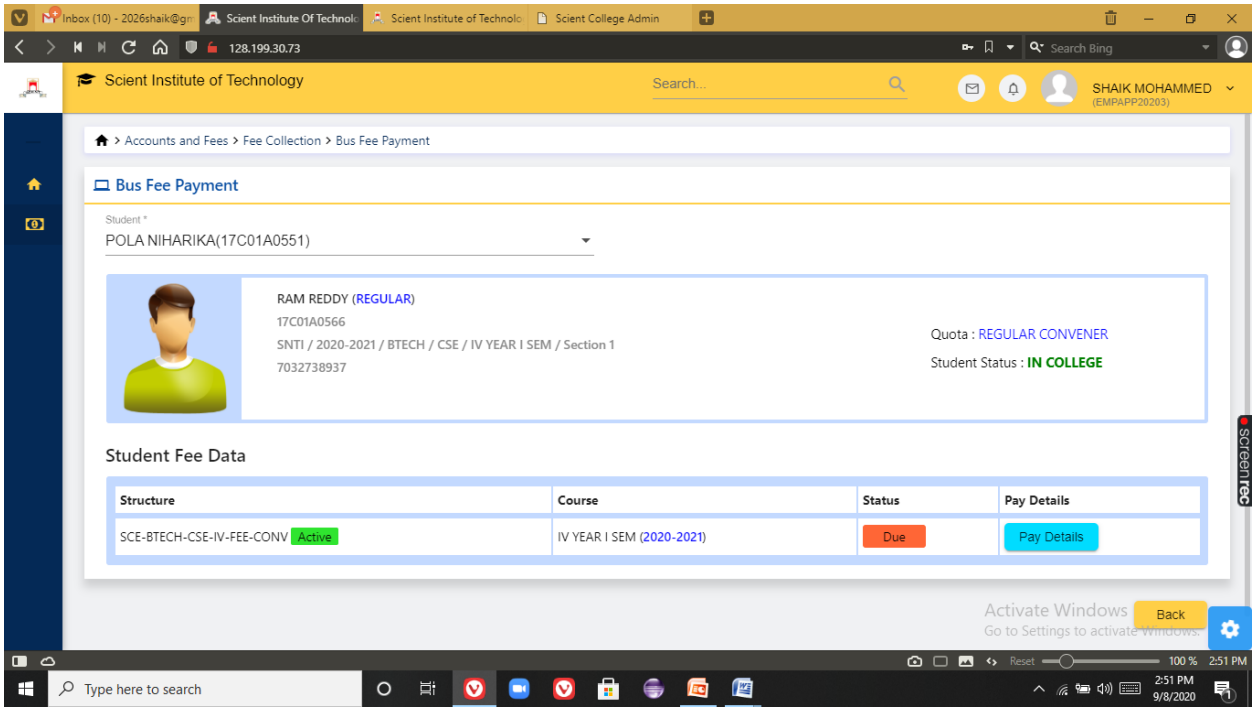


Fig 6 : Bus fee payment status of a student

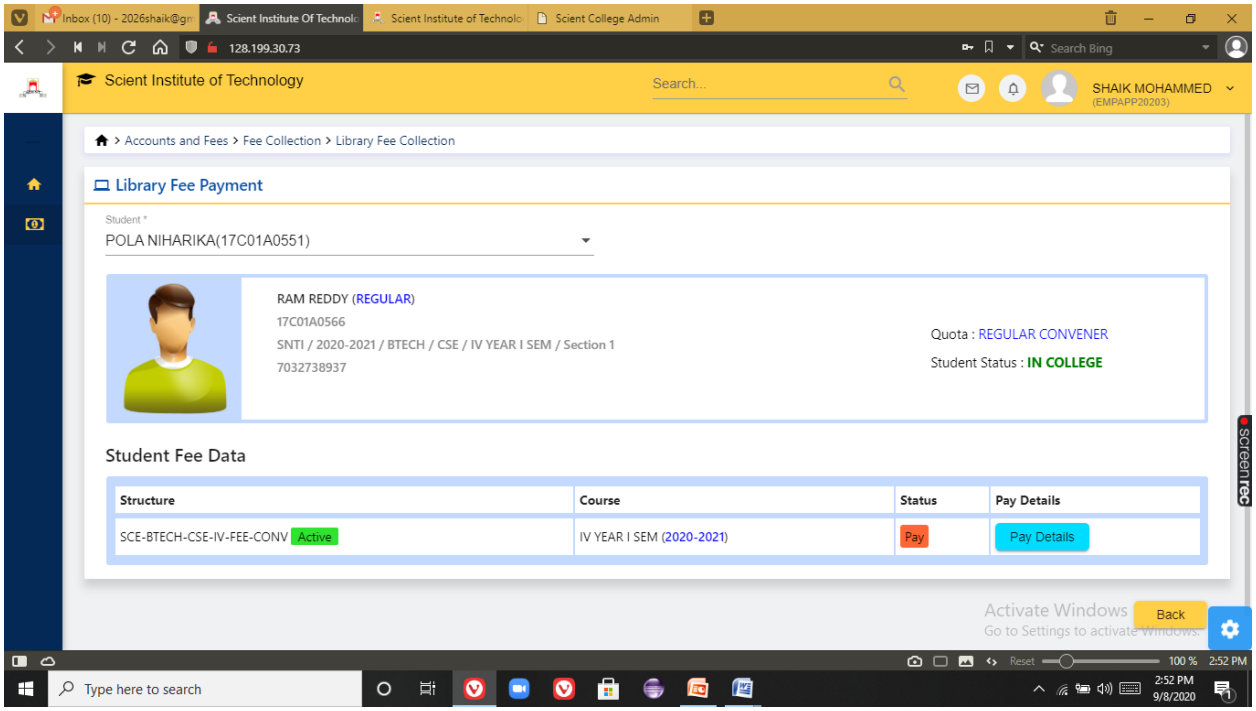


Fig 7 : Library fee payment

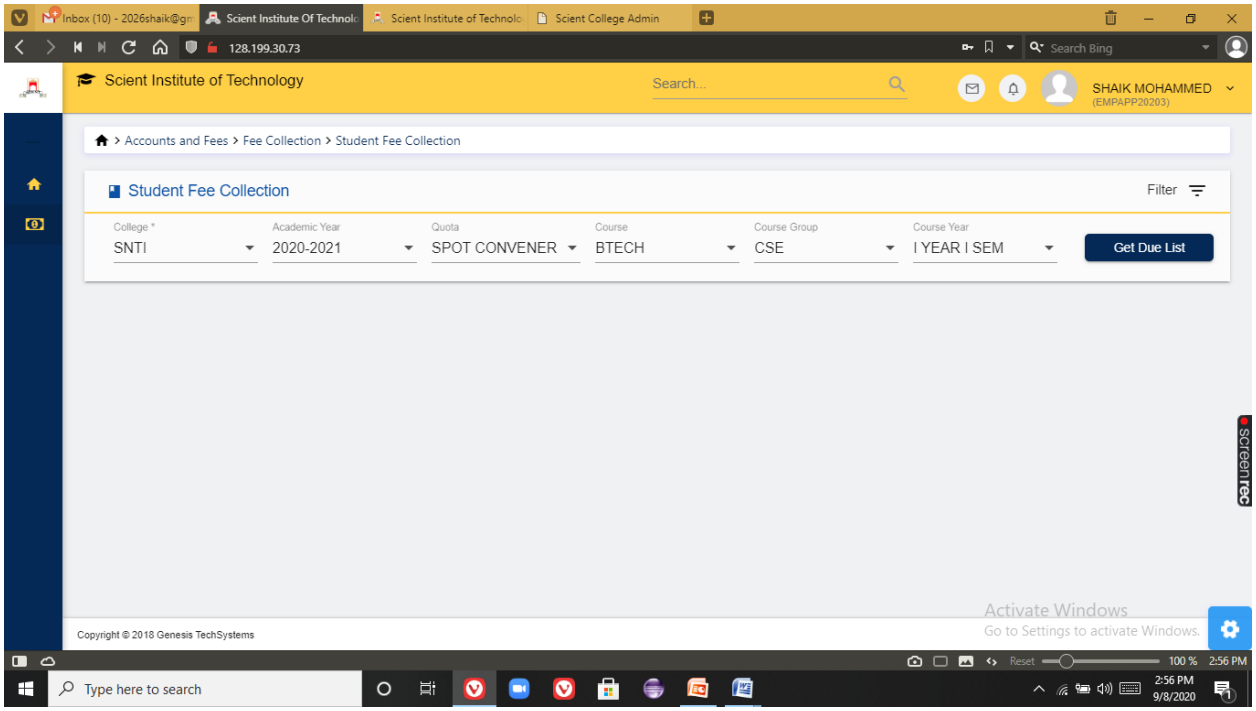
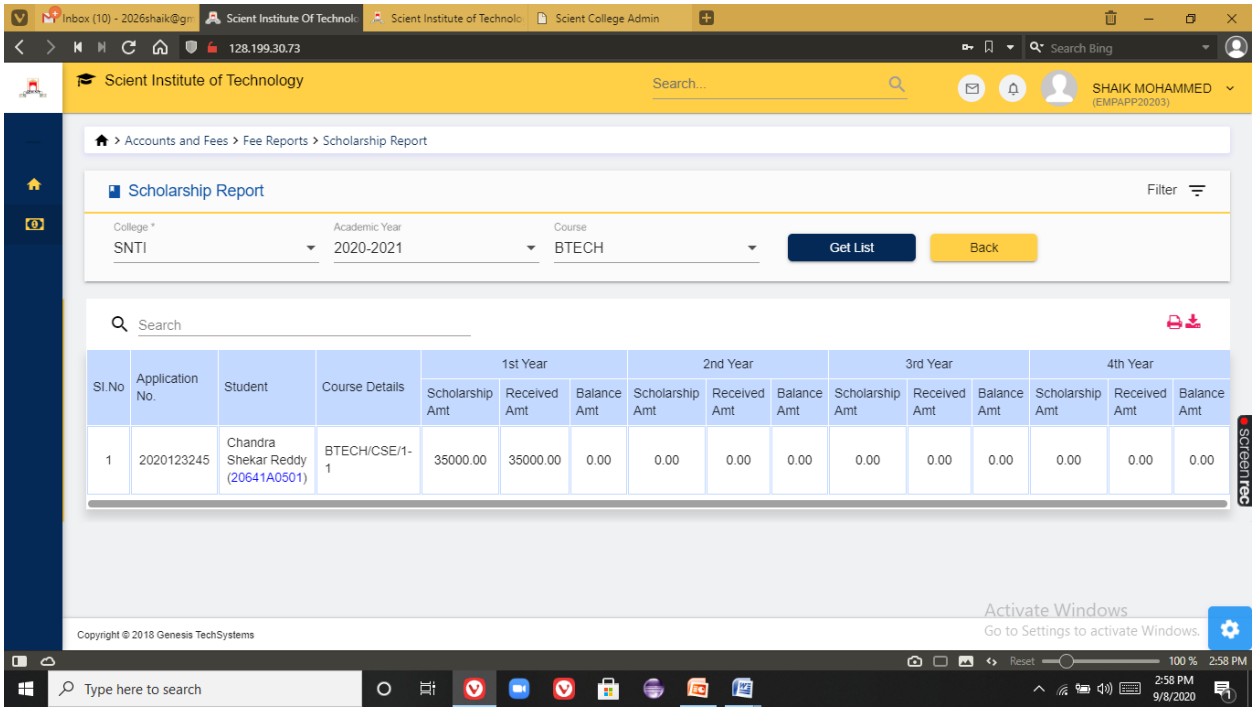


Fig 8 : Tracking the details of student fee collection



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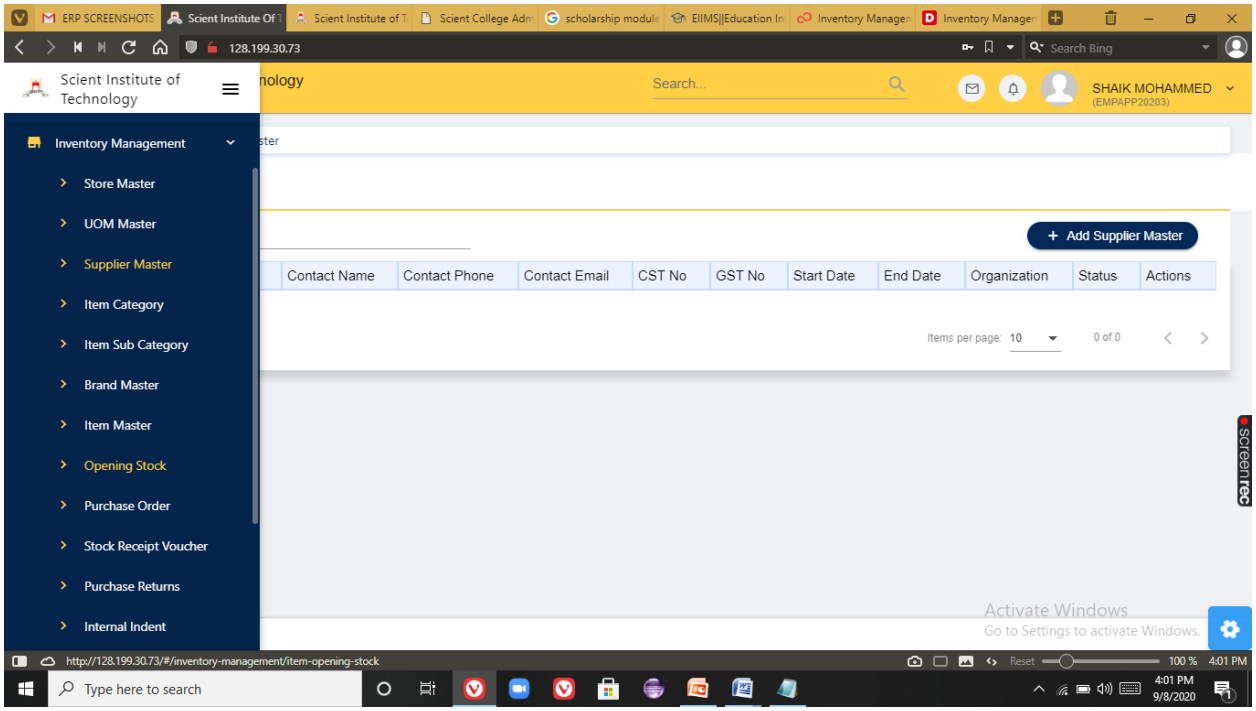

Fig 1: Inventory management system

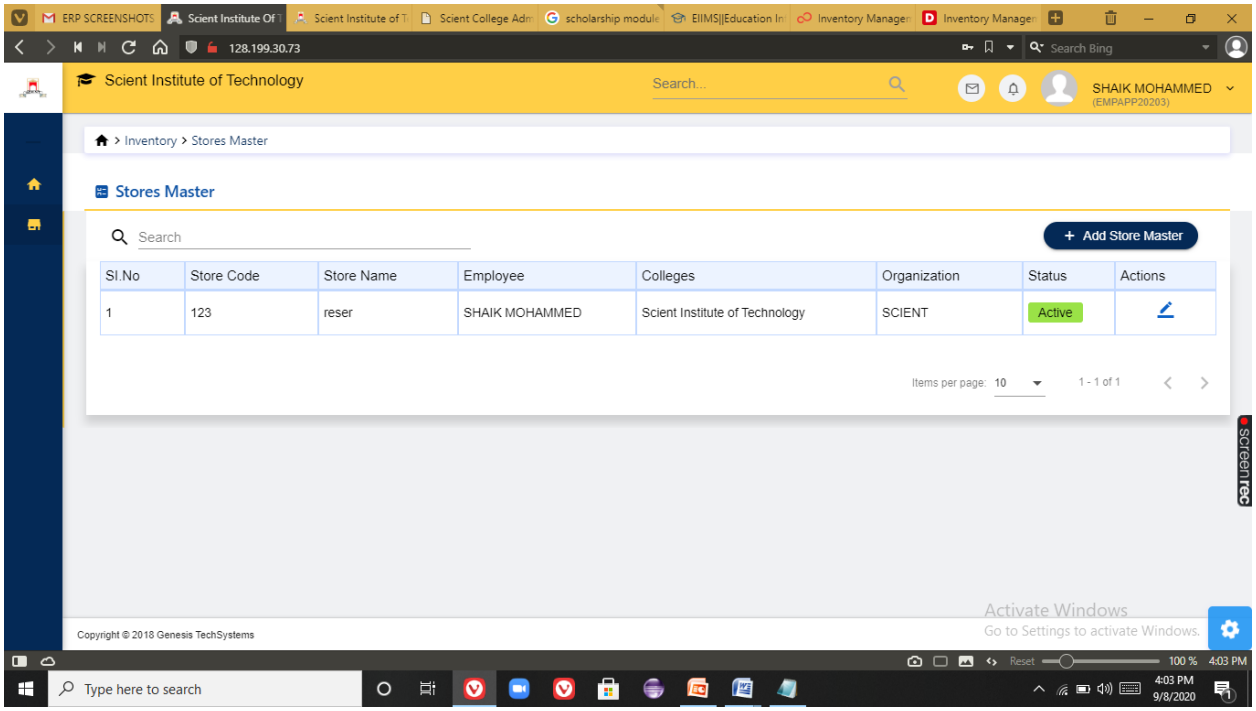

Fig 2 : Store master

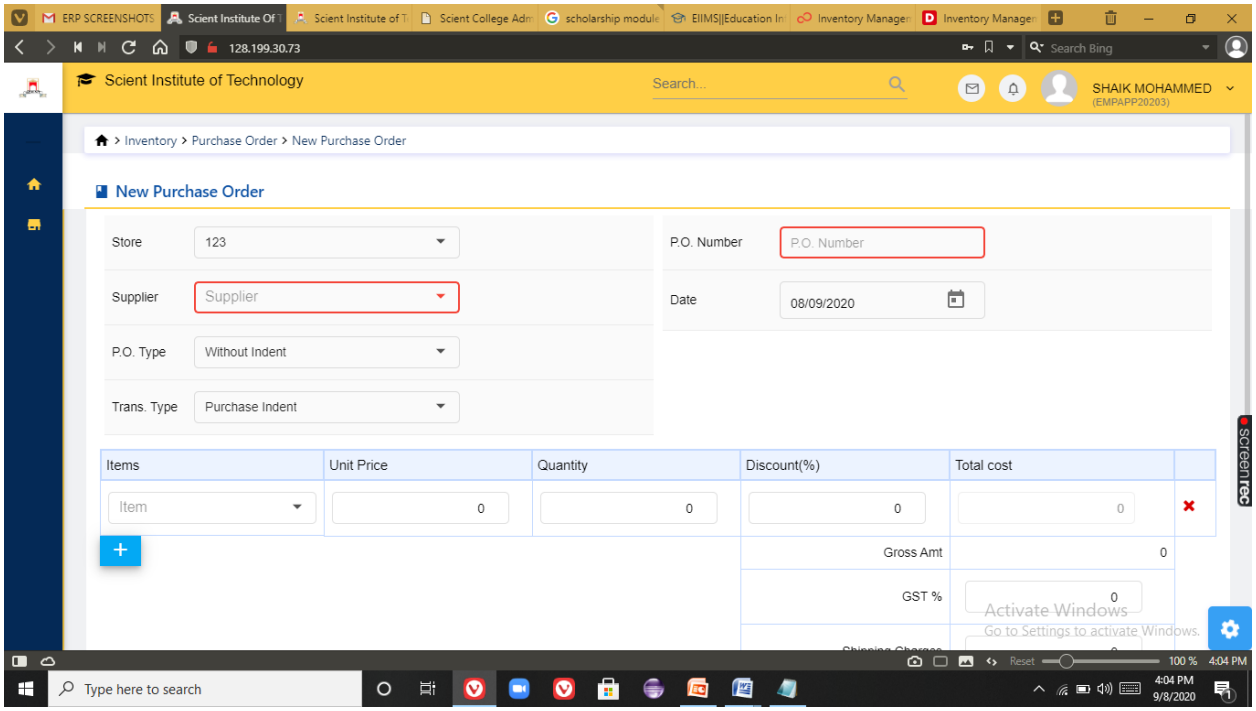

Fig 3: New purchase order generations

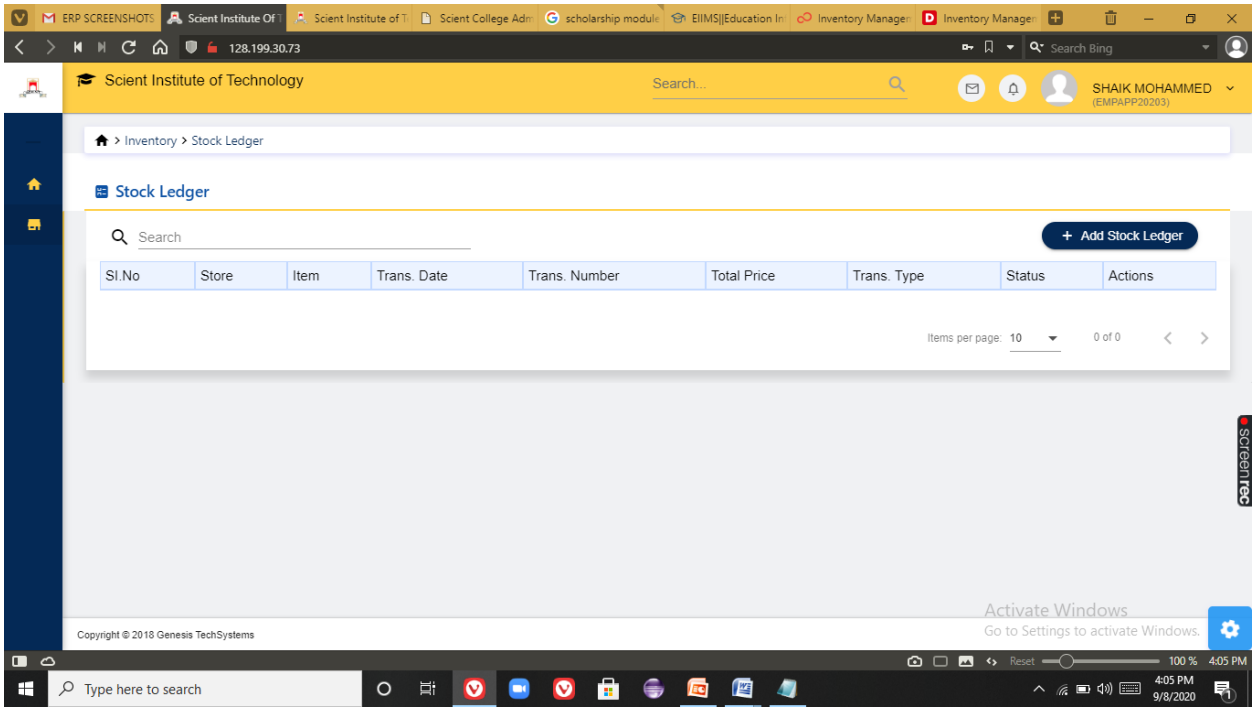

Fig 4: Stock ledgers

STUDENT ADMISSION AND SUPPORT

2) ADMISSIONS

The admission module in our software creates admission criteria and conducts admission procedure online through a portal. The institute works with ease through the online admission process and avoids any loss of data because of manual admission of students. The online admission will only benefit the institute to keep a list on the inventory of the student details in hand, with you is getting admitted and who is leaving the institute; at whichever point of time.The functionalities in admission modules are New Enquiries to admission,List of Enquiries,Application form.

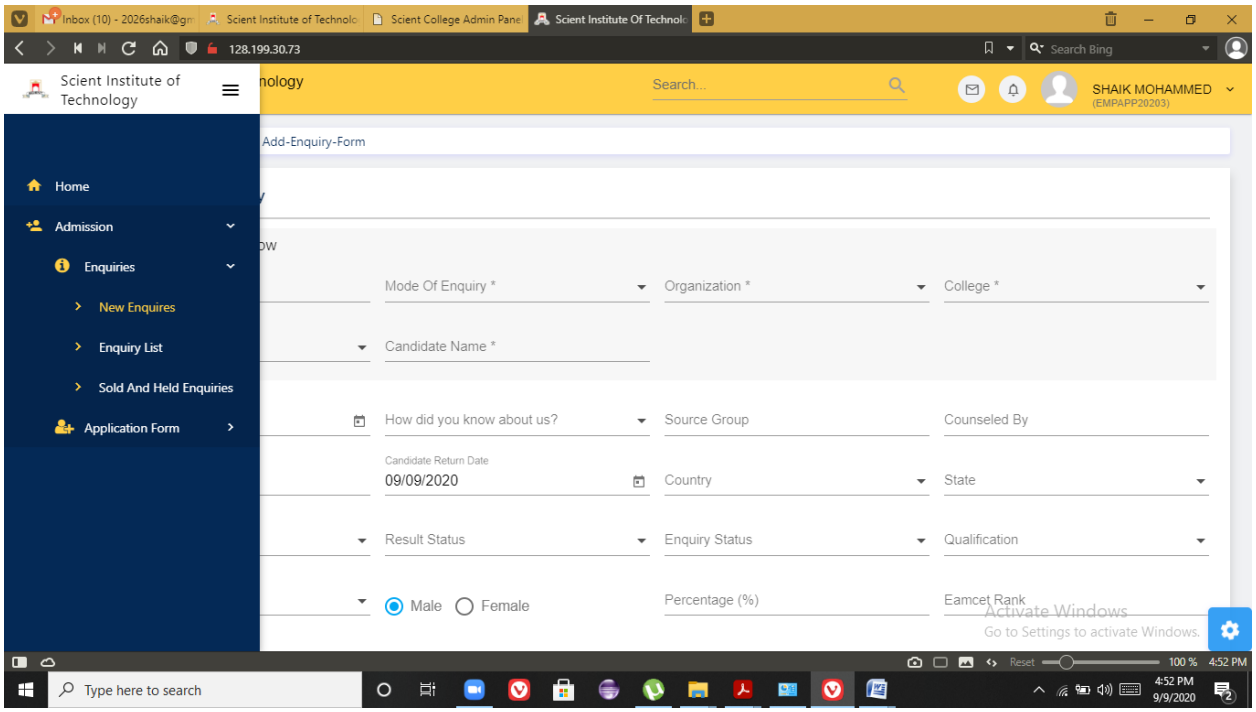

Fig 1 : Operations performed in Admissions module

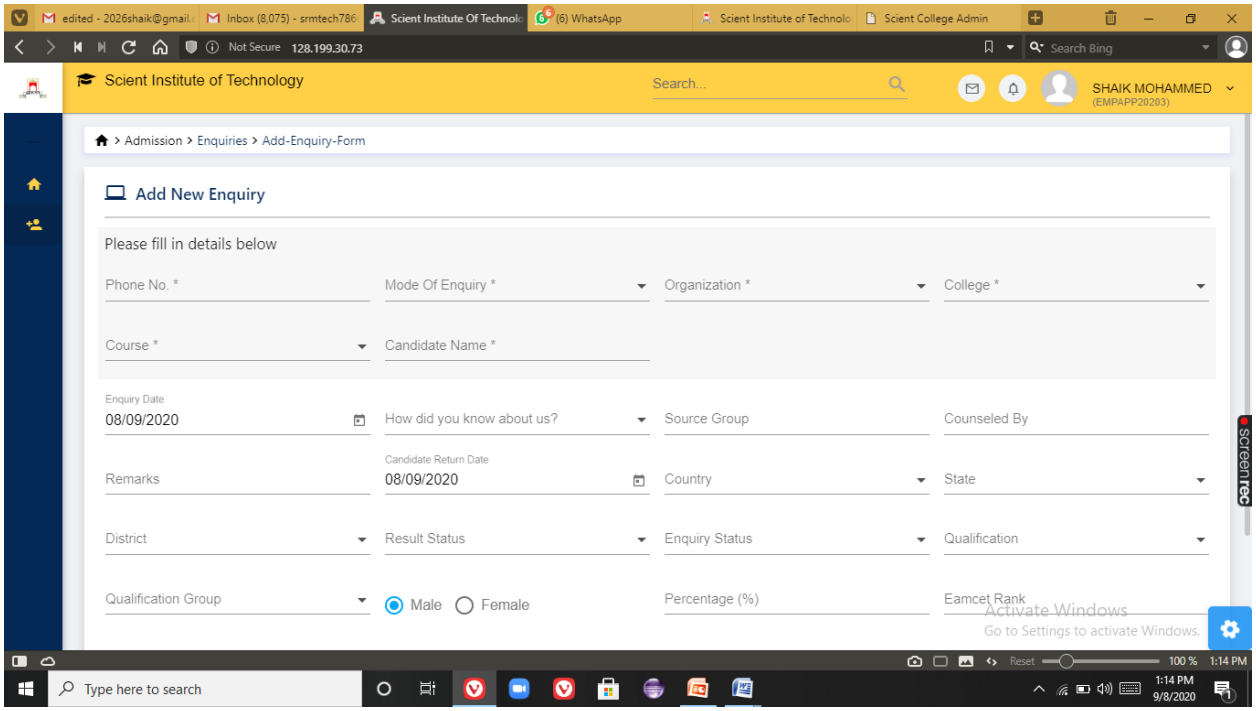

Fig 2 : Enquiry form

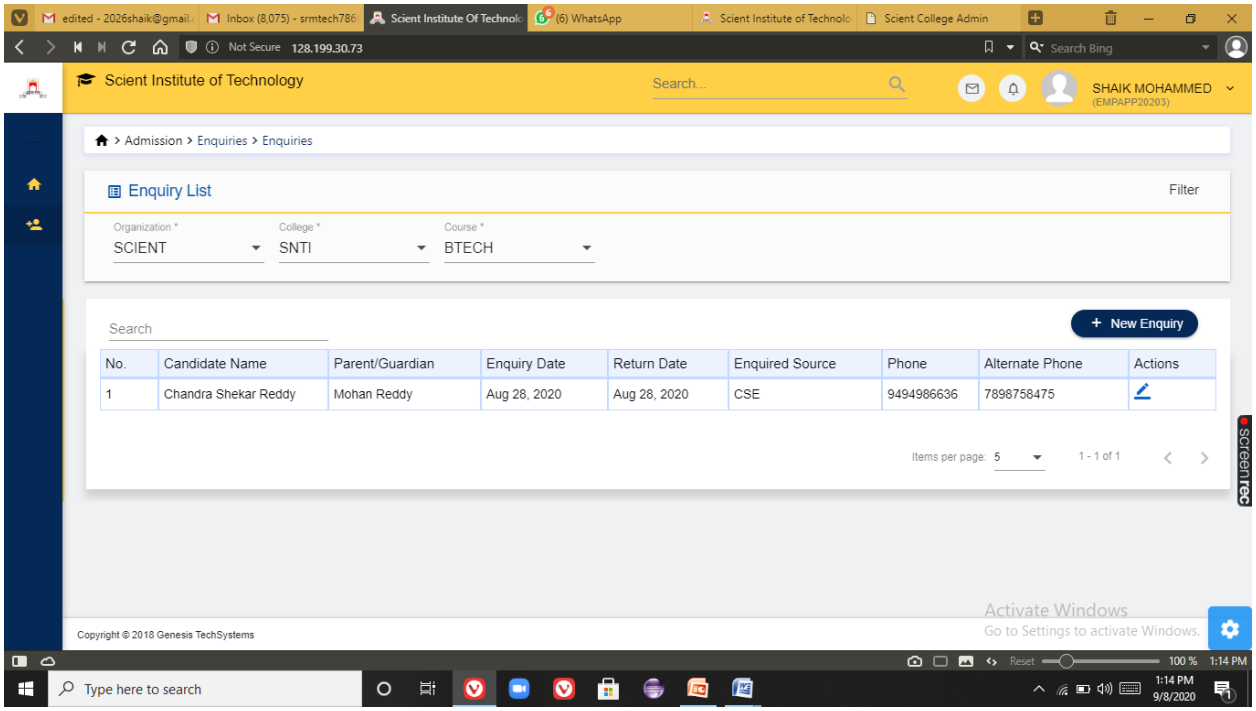

Fig 3 : List of Enquiries

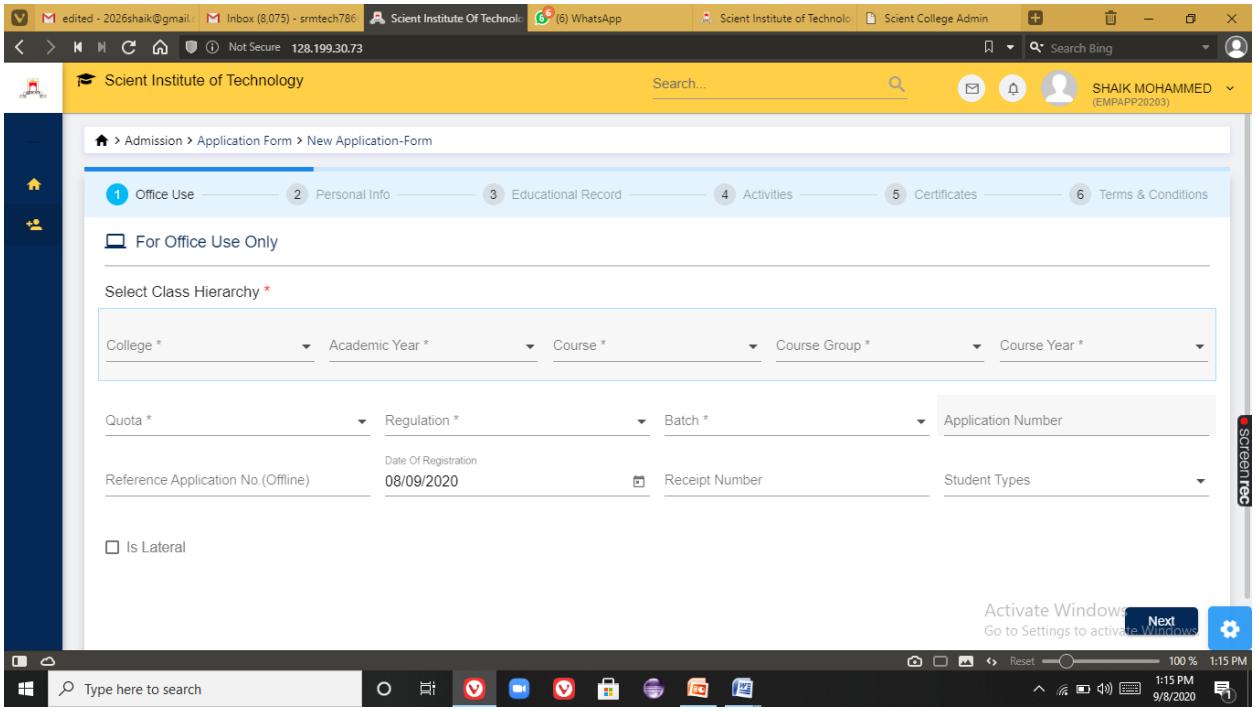

Fig 4 : New Application form

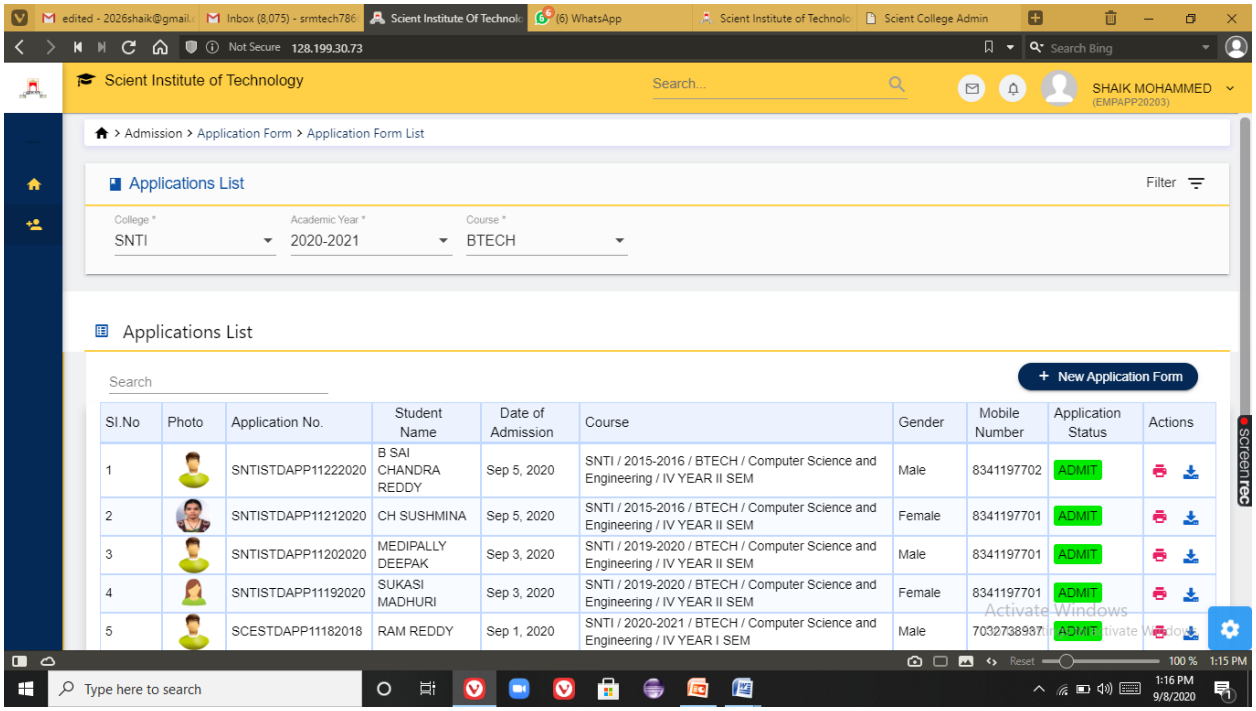

Fig 5 : Applicants list

4)STUDENT INFORMATION SYSTEM

In this module we can extract the details of students.Using this module we can add student details,List of students detained and promoted,Passedout students information,subjects allotted to the students.Admin can generate the roll num of a student.Operations performed in this module are:

- Student Details
- Student promotions
- Students Detain
- Student Re-Admission
- Student Discontinue
- Generate Student Roll No
- Student Subjects

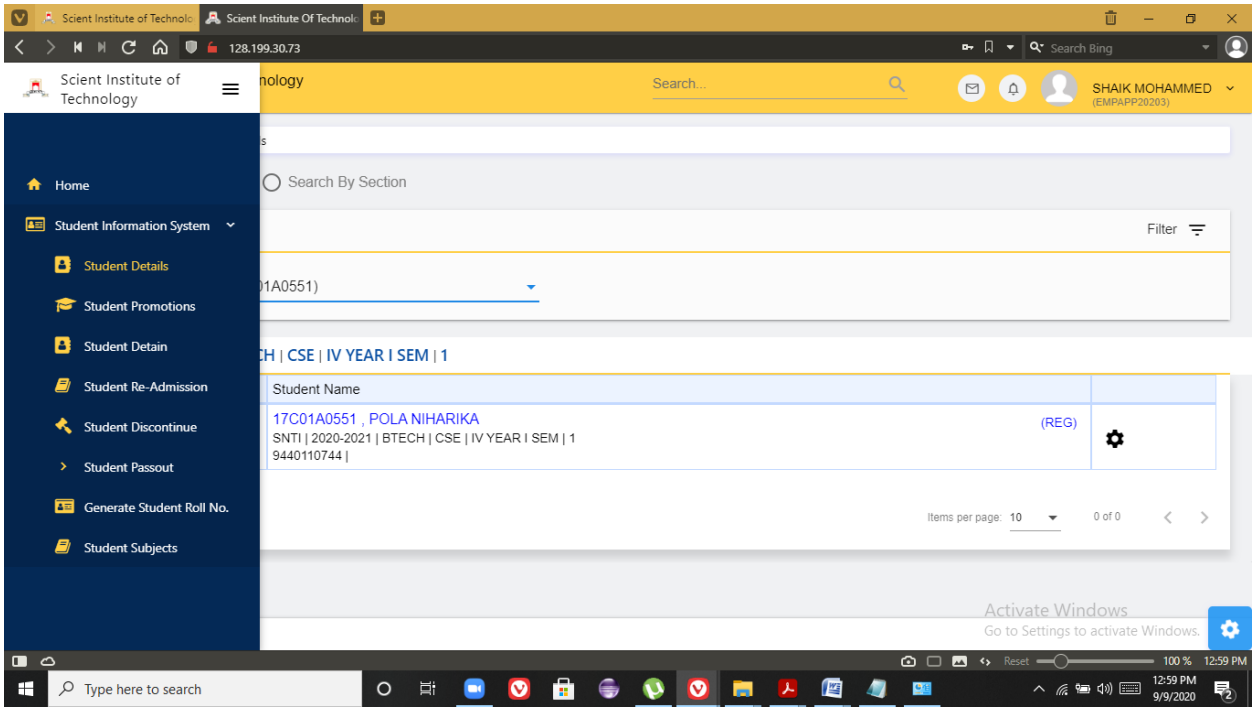

Fig 1 : Operations performed in Students Information System

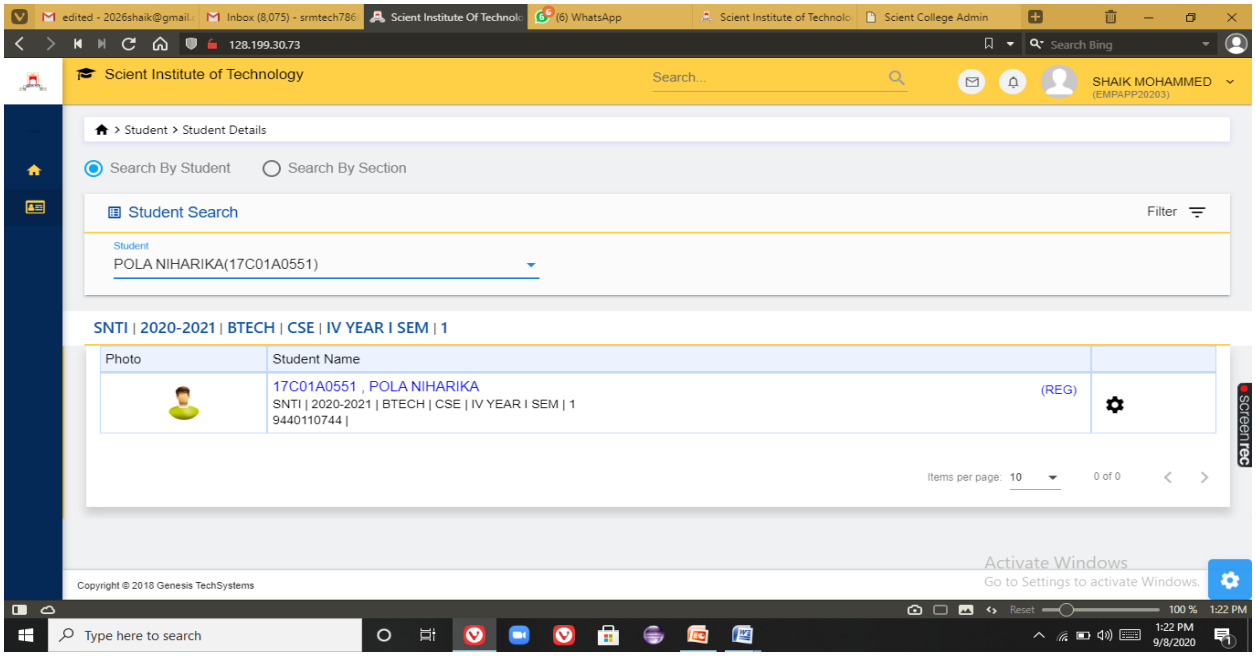

Fig 2 : Student details

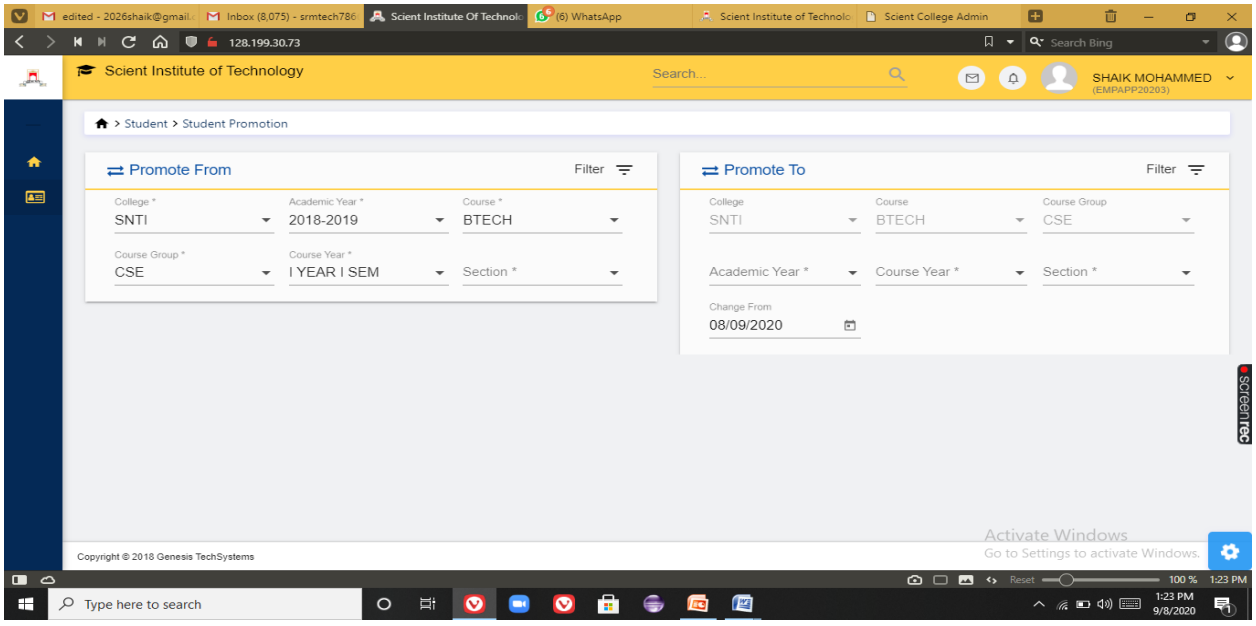

Fig 3 : Student promotions

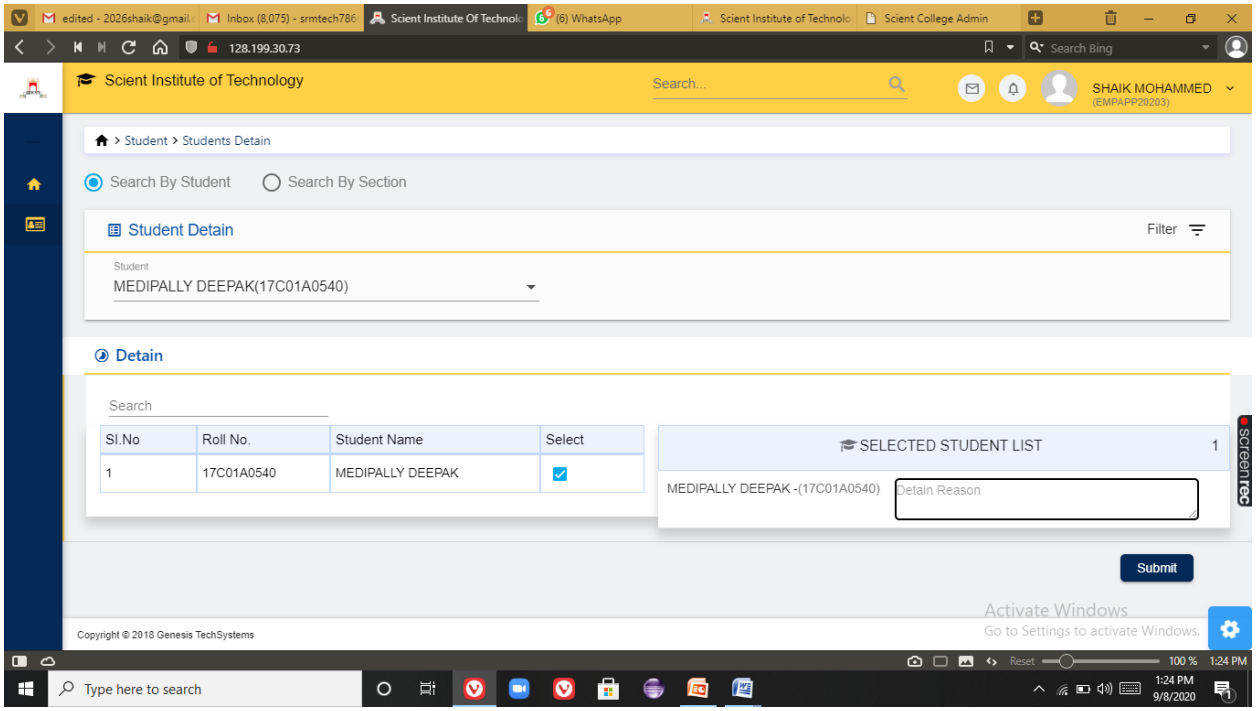

Fig 4 : Detention of the student

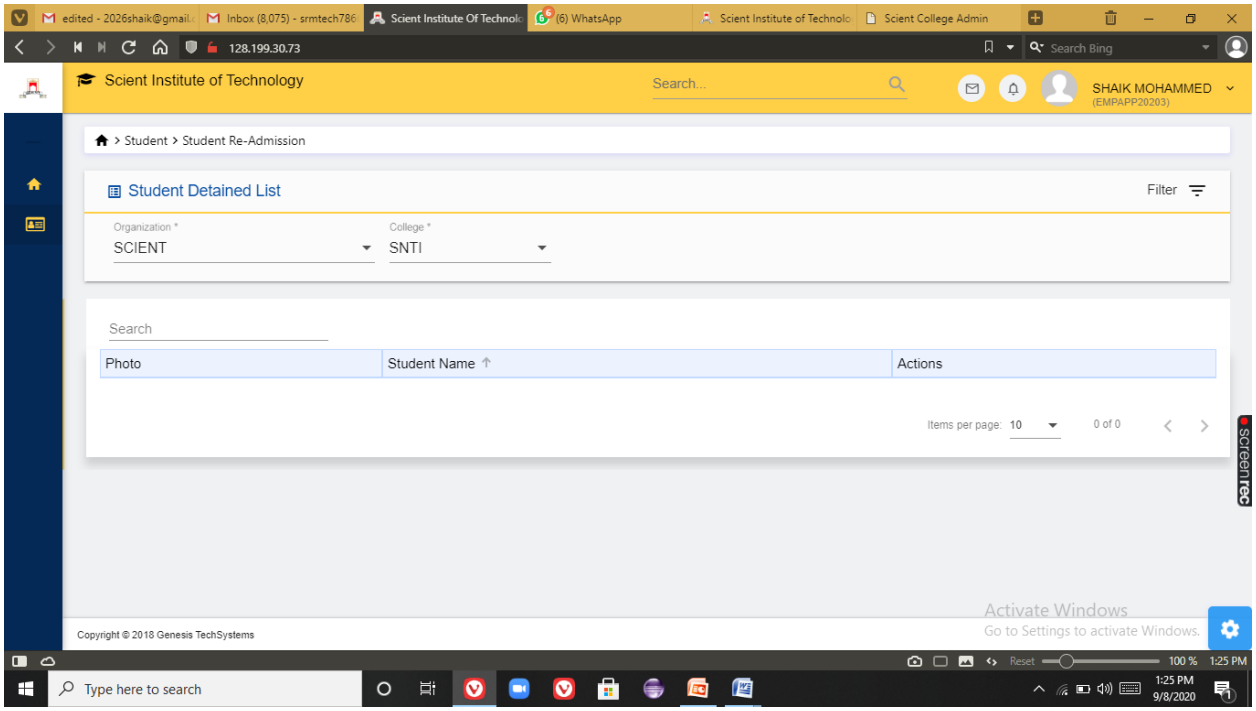

Fig5: To extract the list of students detained

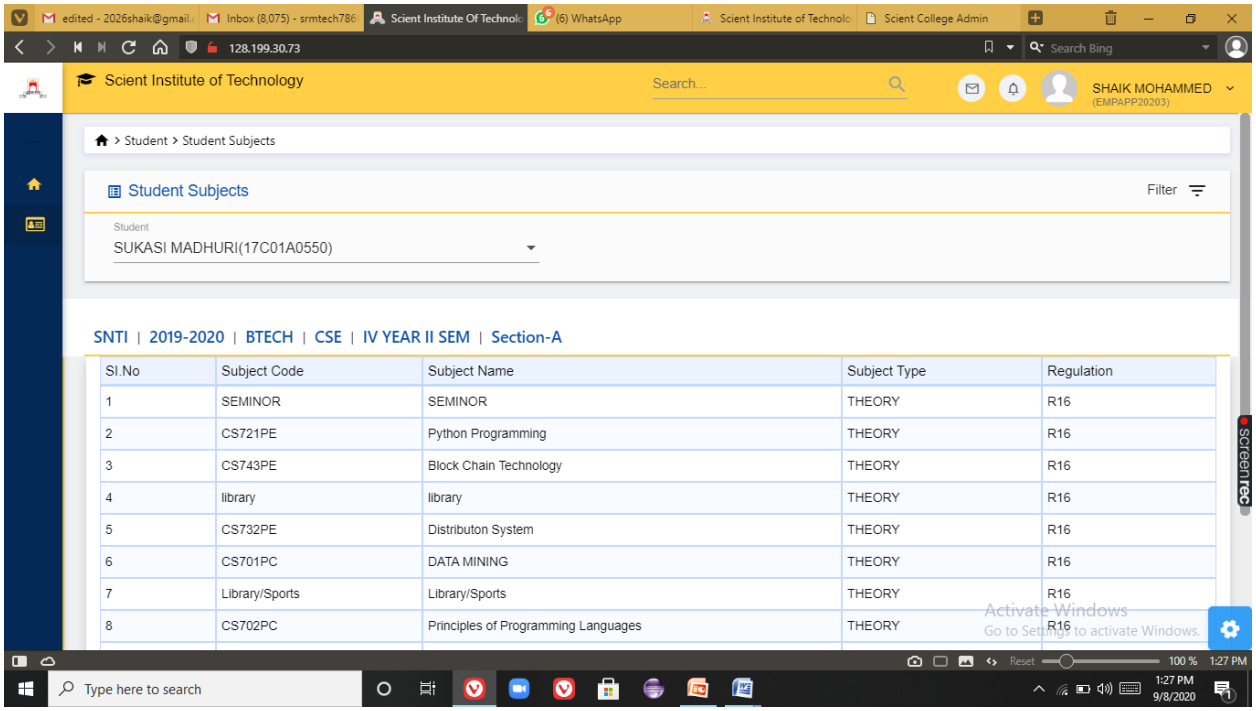

Fig 6 : List of subjects allotted to the students

9)SCHOLARSHIP MANAGEMENT

This module stores all the types of scholarships, and the list of all the students who have applied for scholarship. Scholarships are applied by college on behalf of the students, which are sanctioned by government and trusts. Each and every student scholarship details are monitored by administrative officer in very ease mode since they have all details of applied student in very proper arranged manner. Functionalities in this module are

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- Scholarship proceedings
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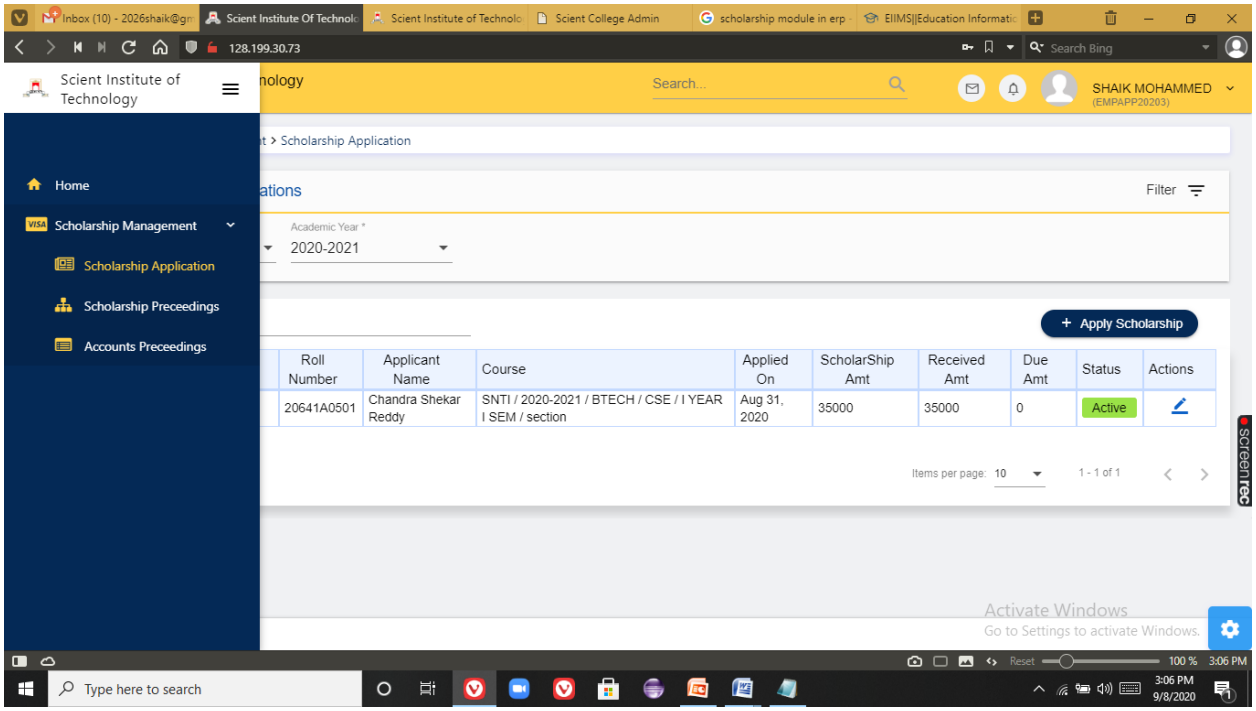


Fig 1 : Scholarship Management

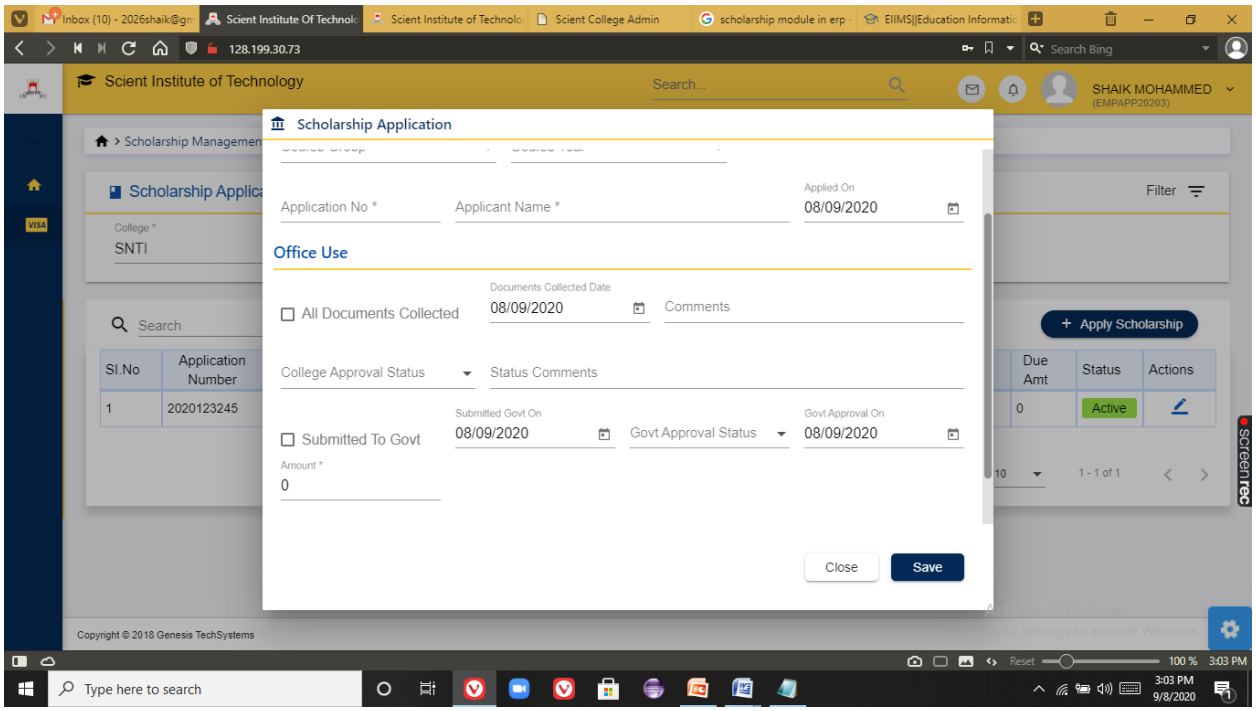


Fig 2 : Scholarship application

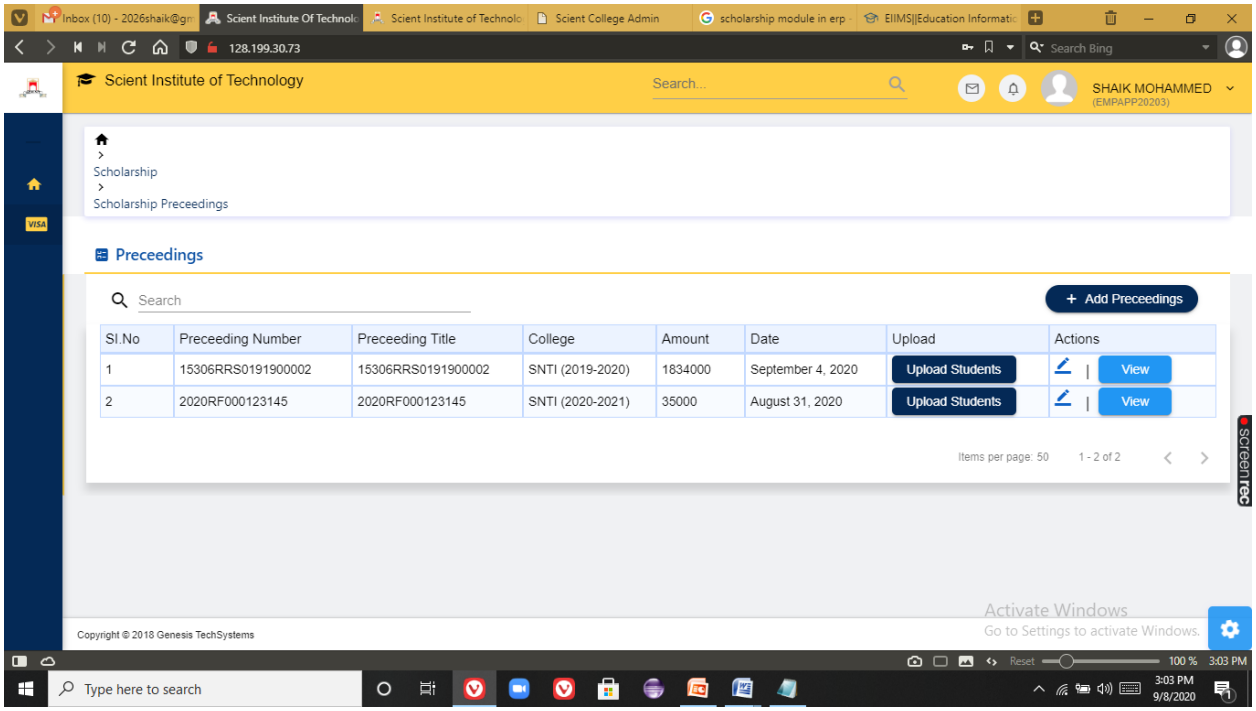


Fig 3 : Scholarship proceedings

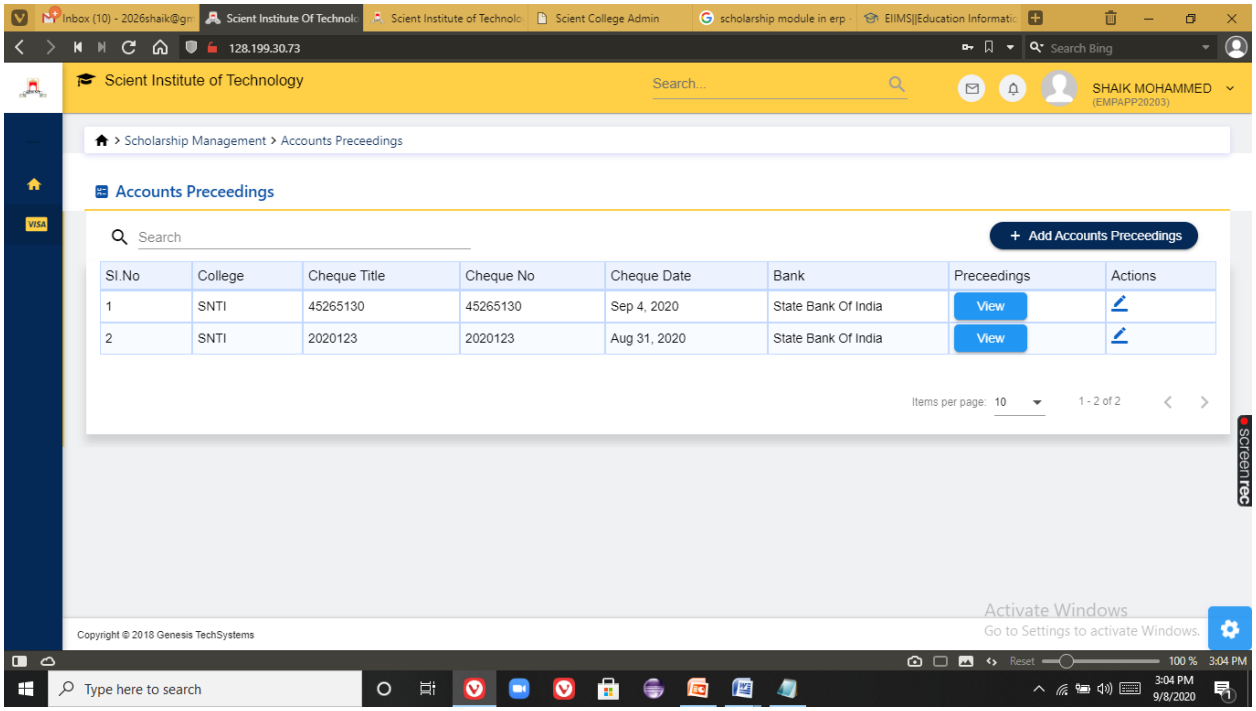


Fig 4 : Accounts proceedings

10) LIBRARY MANAGEMENT

This module is designed and developed to provide a refined and the best of solution which aims at bringing in Quality in Management of books, journal, article, newspapers, charts, reports etc.It focuses on excellent coordination between Library and students making e-library management system. This module provides, online integrated information of Students to the Library administrators, thus enabling smooth connectivity with powerful security and privacy features. Library ERP provides, online integrated information of Students to the Library administrators, thus enabling smooth connectivity with powerful security and privacy features.

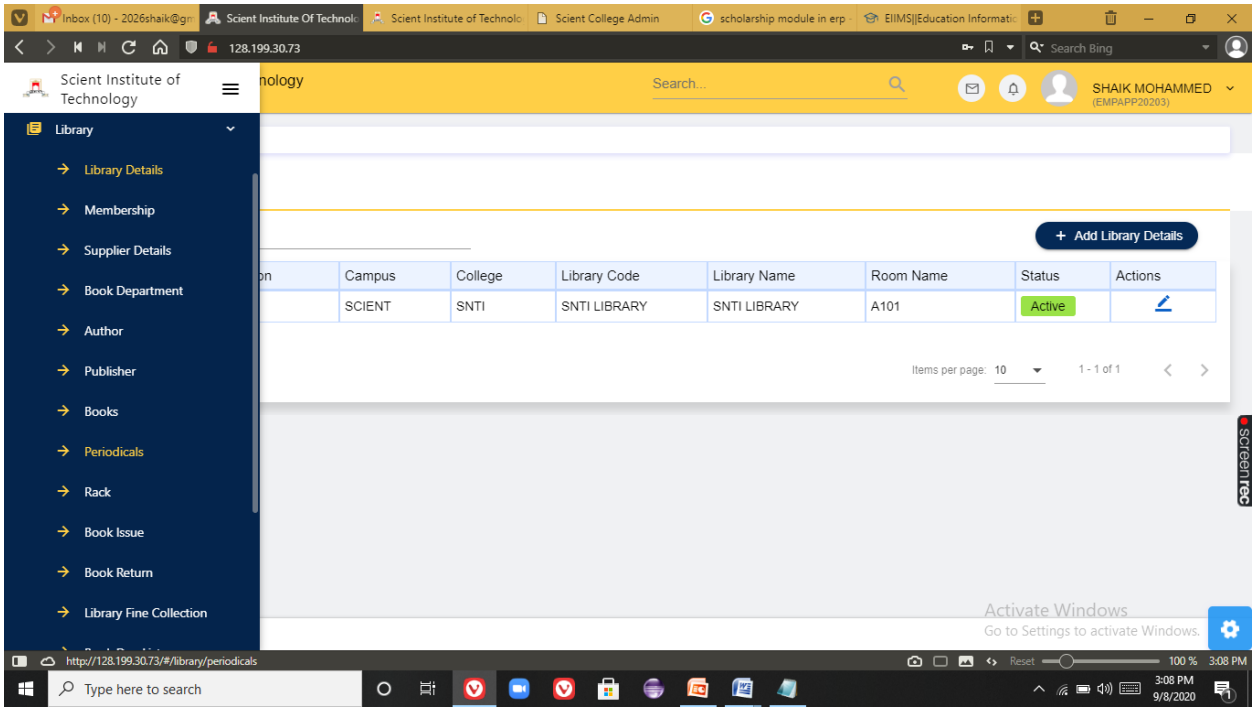


Fig1 : Details of library

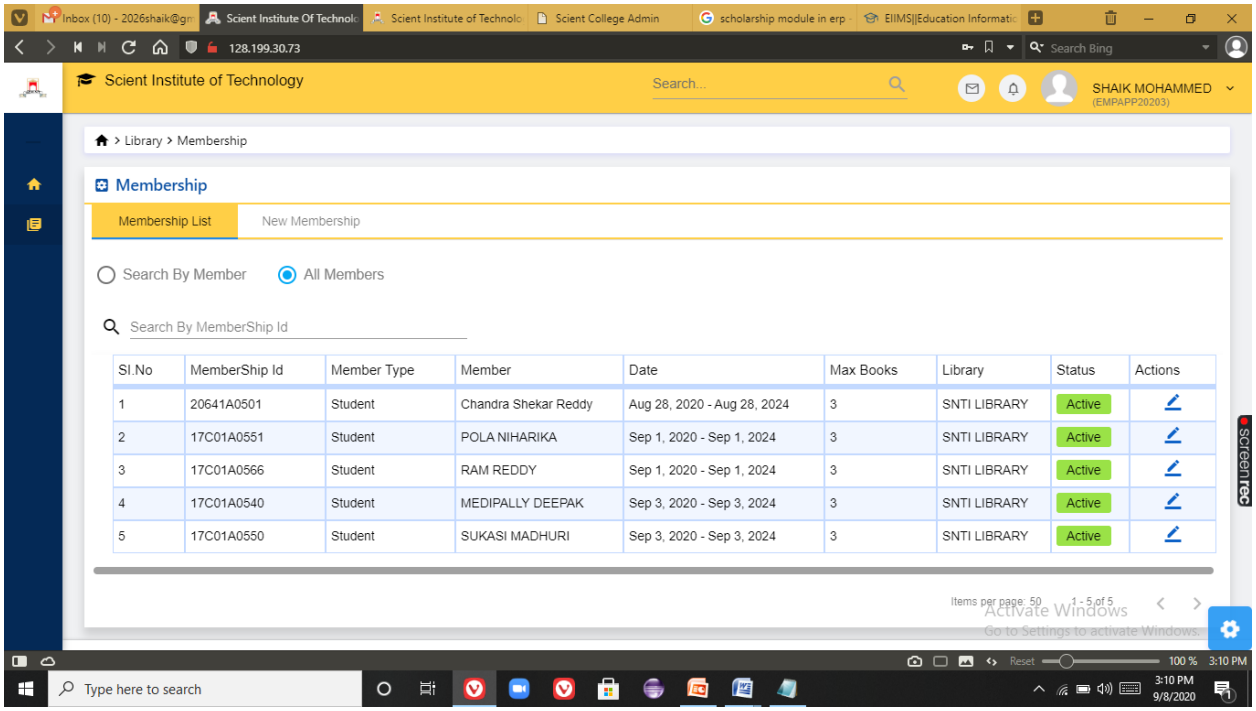


Fig 2 : Library membership

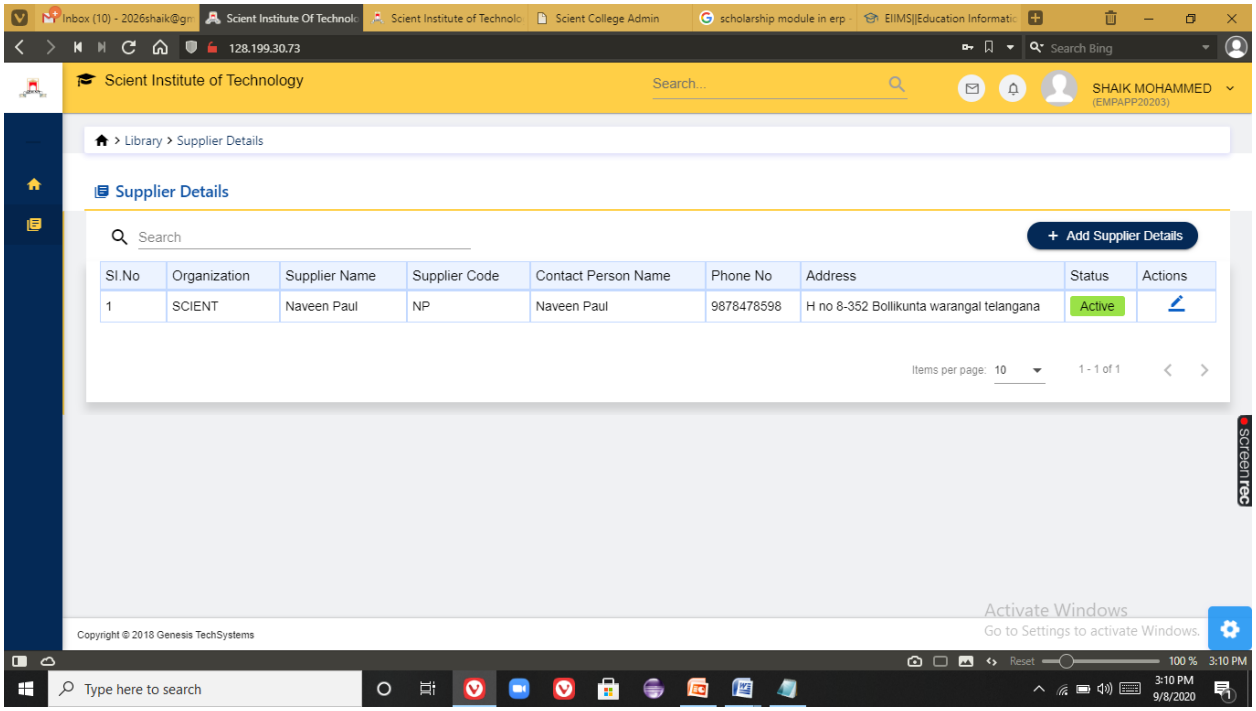


Fig 3: Supplier details

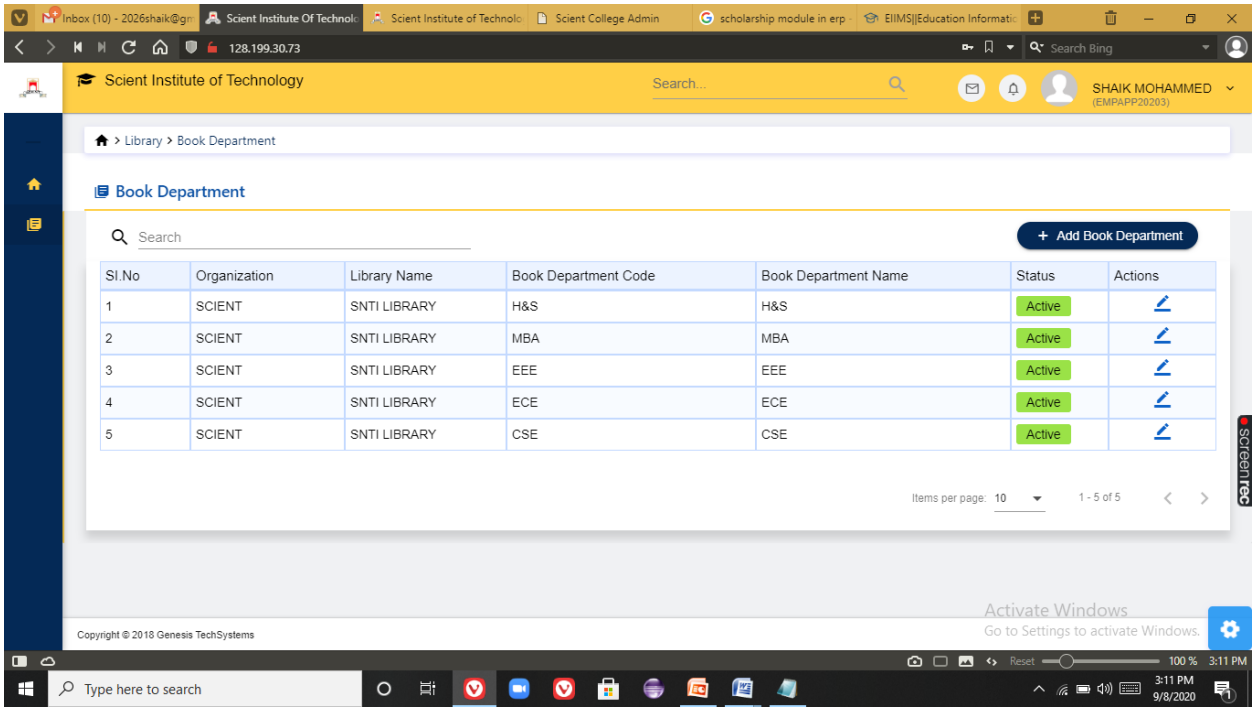


Fig 4: Adding of book department.

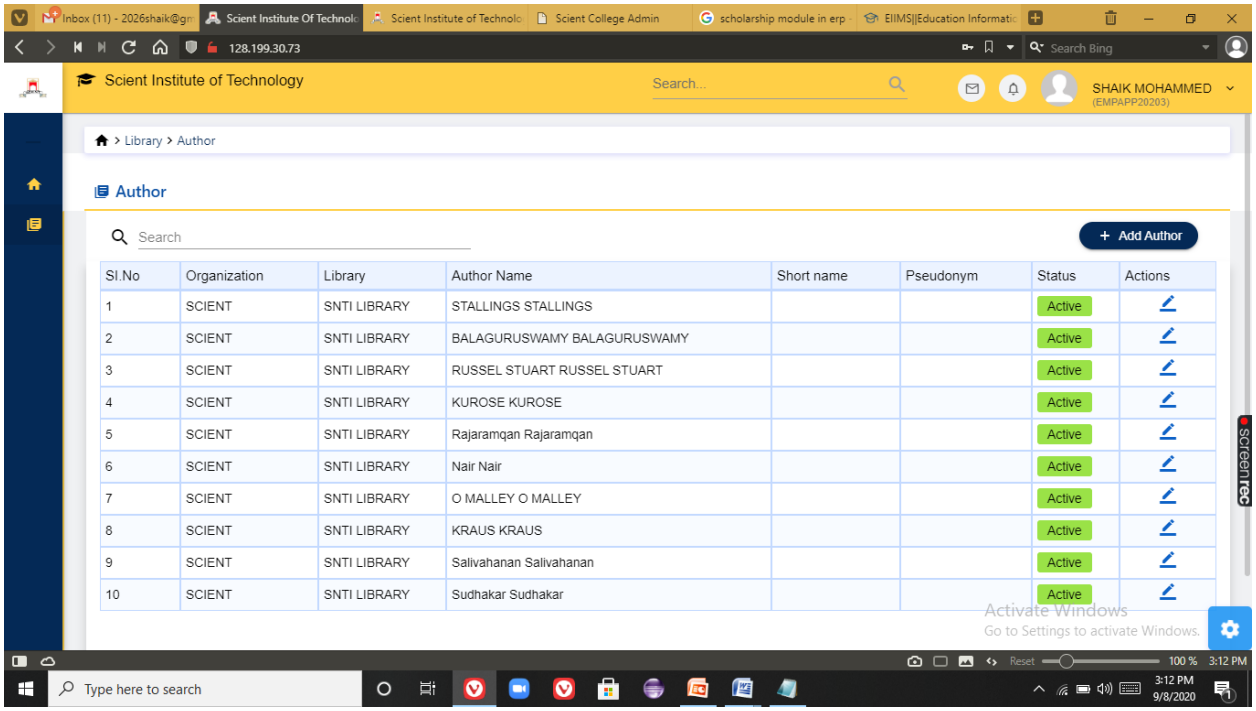


Fig 5: Tracking author details

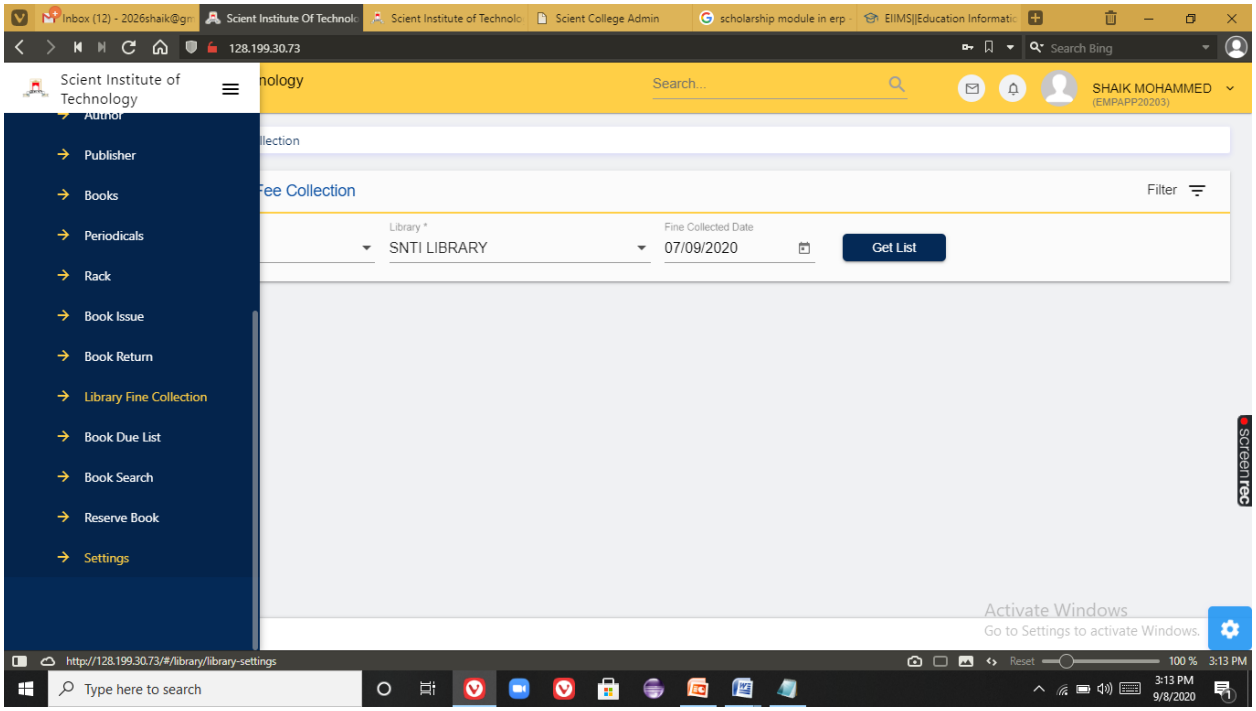
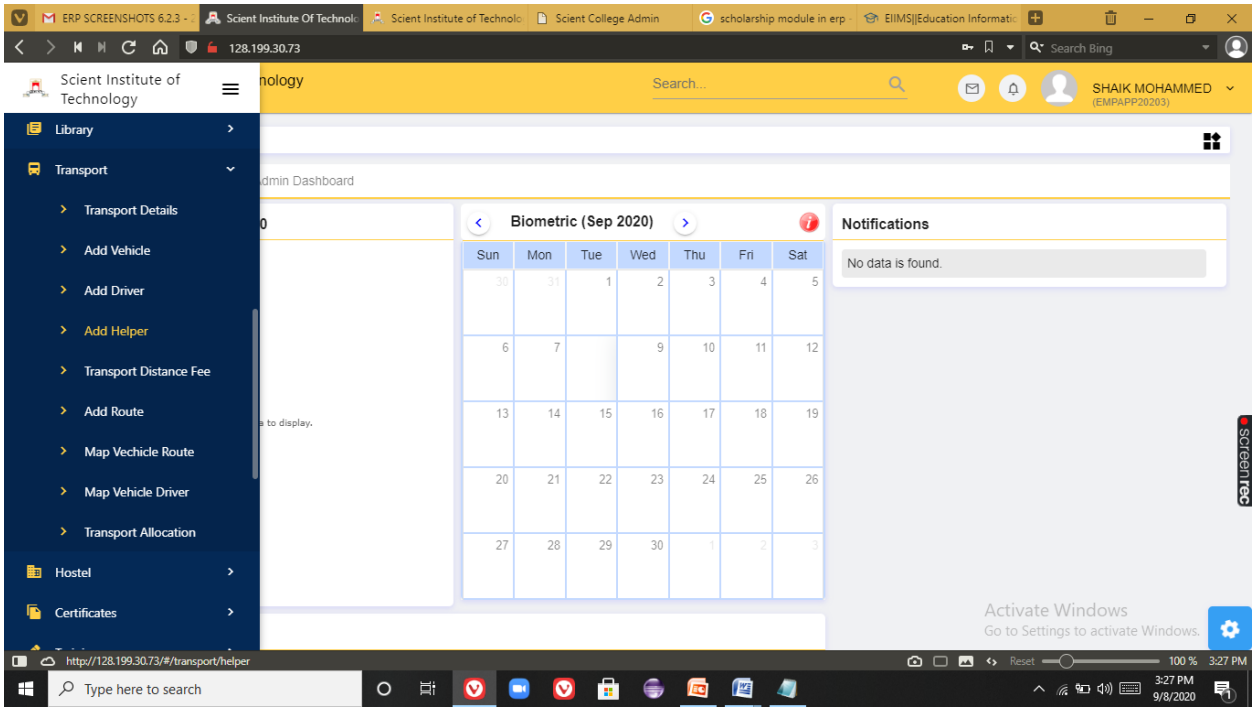


Fig 6 : Library fine collection

11)TRANSPORT MANAGEMENT

Transportation management module comprehensively handles the complete transportation process and ensures systematized, timely and safe transportation facilities for its students. With modules for allocation of vehicle to a particular route, setting up fees based on the criteria like distance/ area.Operations performed in this module are:

- Transport details
- Add Vehicle
- Add driver
- Add helper
- Transport distance fees
- Add route
- Map Vehicle Driver
- Map Vehicle Route
- Transport Allocation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SHAIK MOHAMMED
(EMPAPP20203)
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Add Helper
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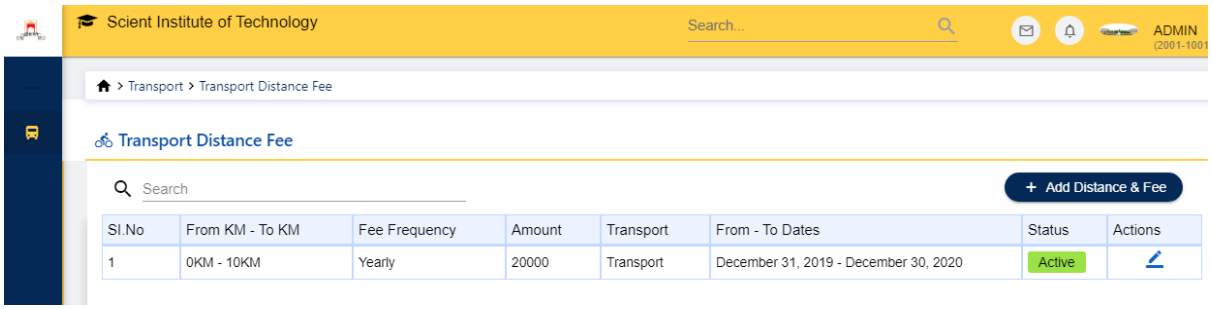
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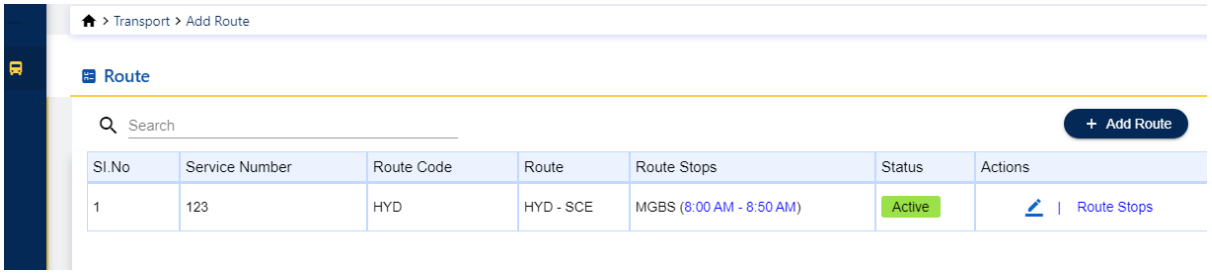
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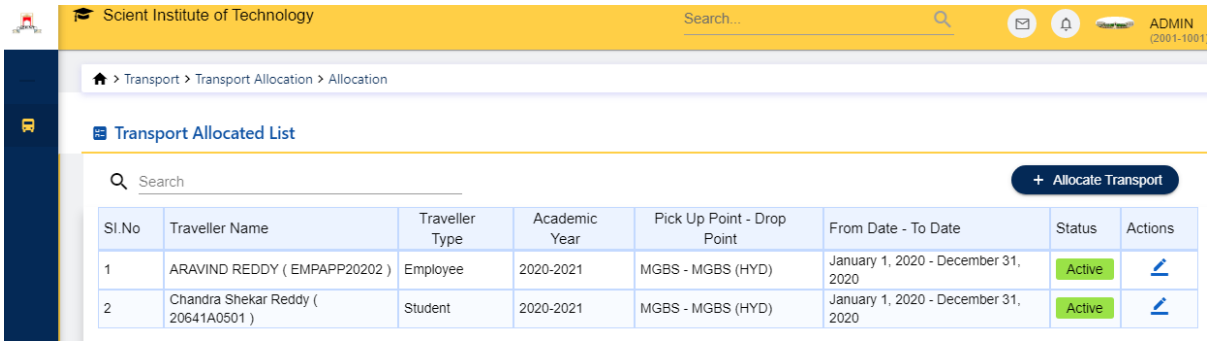
Status
Actions
1
123
HYD
HYD - SCE
MGBS (8:00 AM - 8:50 AM)
Active
Route Stops


Scient Institute of Technology
Search...
ADMIN
Transport > Transport Allocation > Allocation
Transport Allocated List
Search
+ Allocate Transport
Sl.No
Traveller Name
Traveller Type
Academic Year
Pick Up Point - Drop Point
From Date - To Date
Status
Actions
1
ARAVIND REDDY (EMPAPP20202)
Employee
2020-2021
MGBS - MGBS (HYD)
January 1, 2020 - December 31, 2020
Active
2
Chandra Shekar Reddy (20641A0501)
Student
2020-2021
MGBS - MGBS (HYD)
January 1, 2020 - December 31, 2020
Active

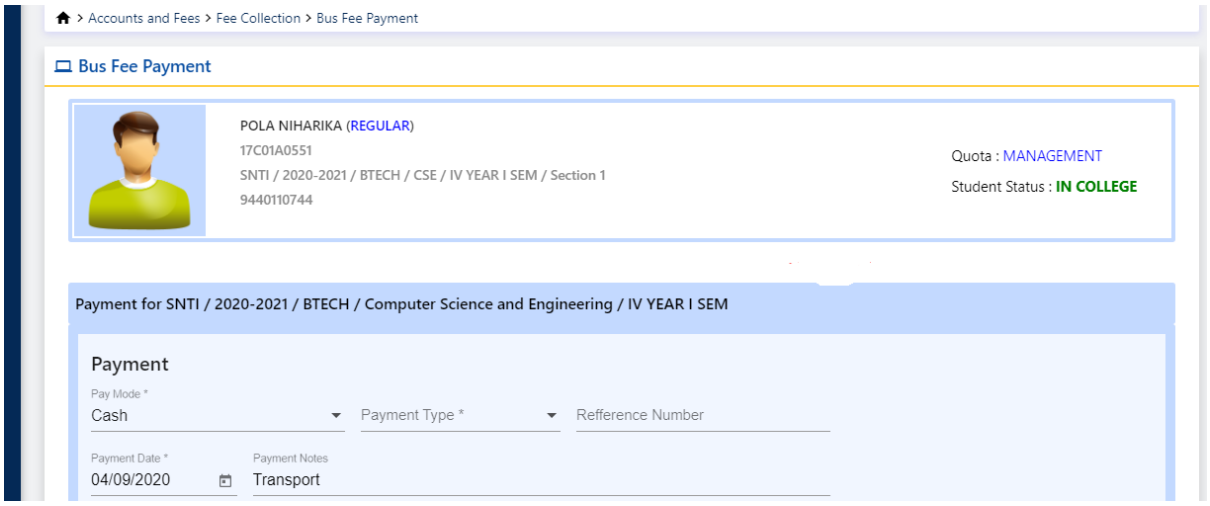


Fig 1 : Distance fees,route,bus fee payment

17)FEEDBACK

Feedback module provides a platform to Students, Staff, Parents, Alumni etc. to give their feedback in different areas/activities on campus.

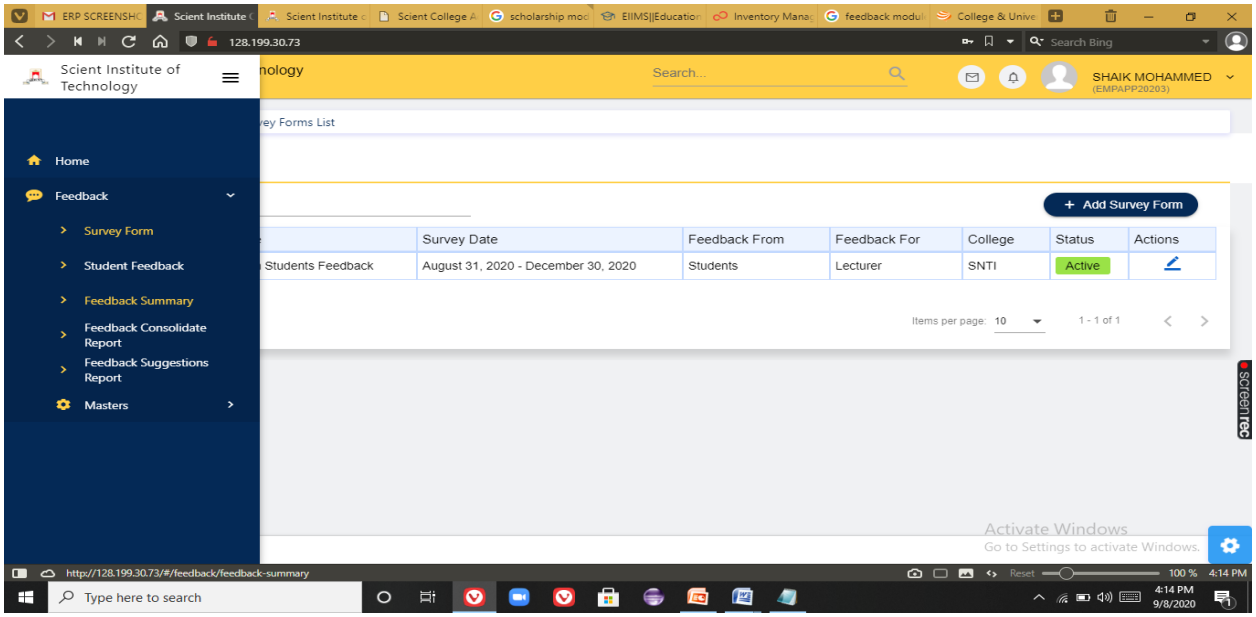


Fig 1 : Feedback

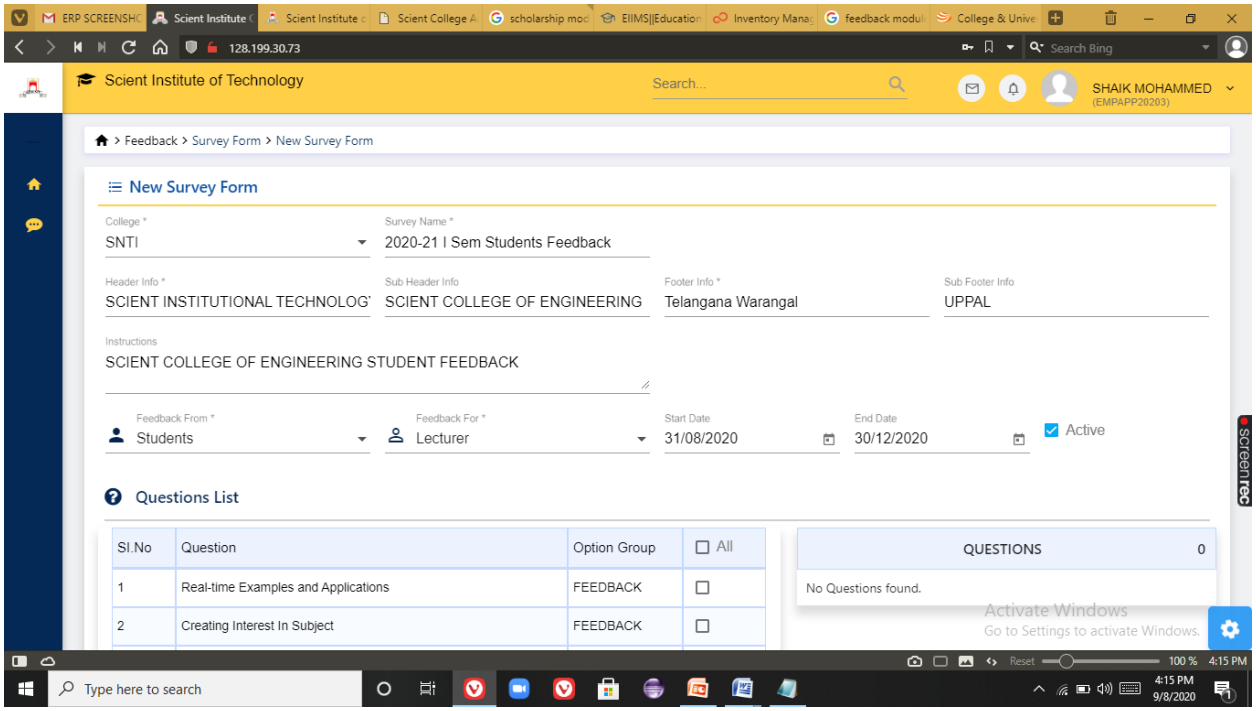


Fig 2: Survey form

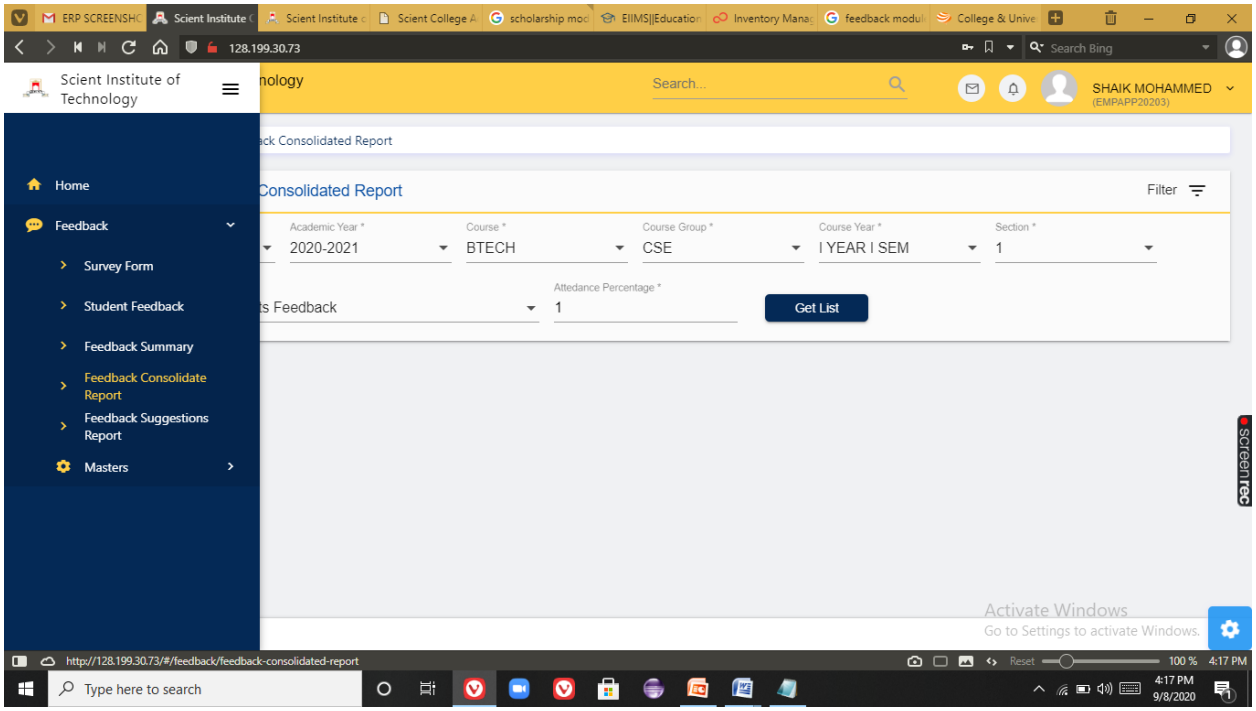


Fig 3: Student feedback consolidated report

ECAP SOFTWARE

Library of Scient institute of technology is automated by Integrated Library Management System (ILMS). ECAP stands for Engineering College Automation Package. It is designed and developed by Webpros Solutions Pvt. Ltd., Visakhapatnam. ECAP aims at immediate availability of data in required formats to ease the work of staff and management and increase in transparency and accountability in administration.This software is exclusively used for our institution library

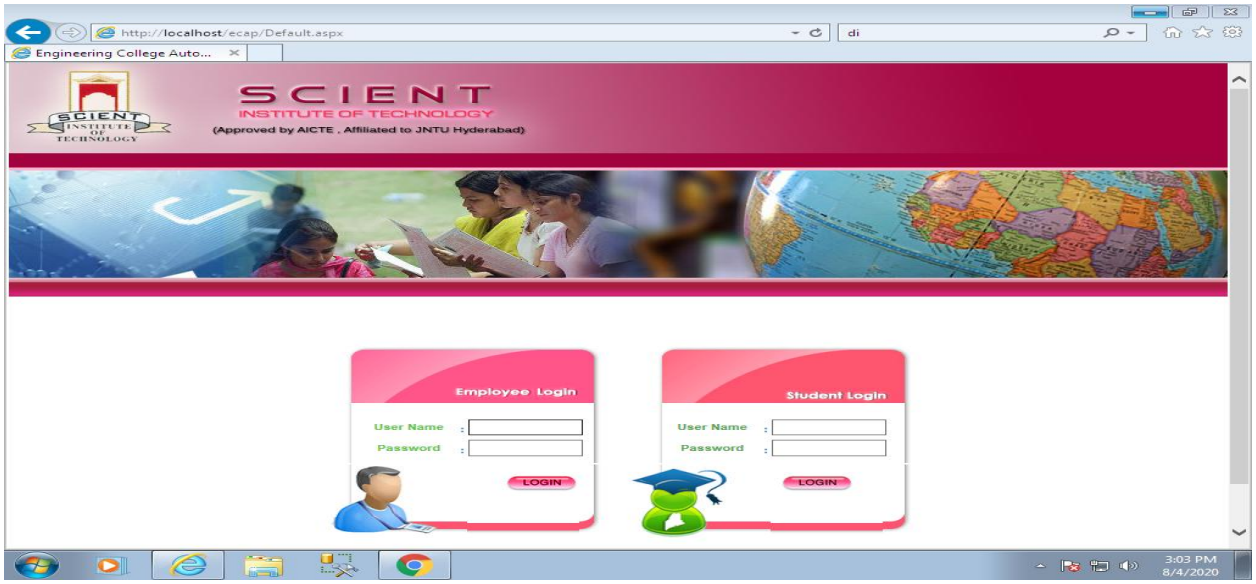


Fig1 : Homepage of ECAP

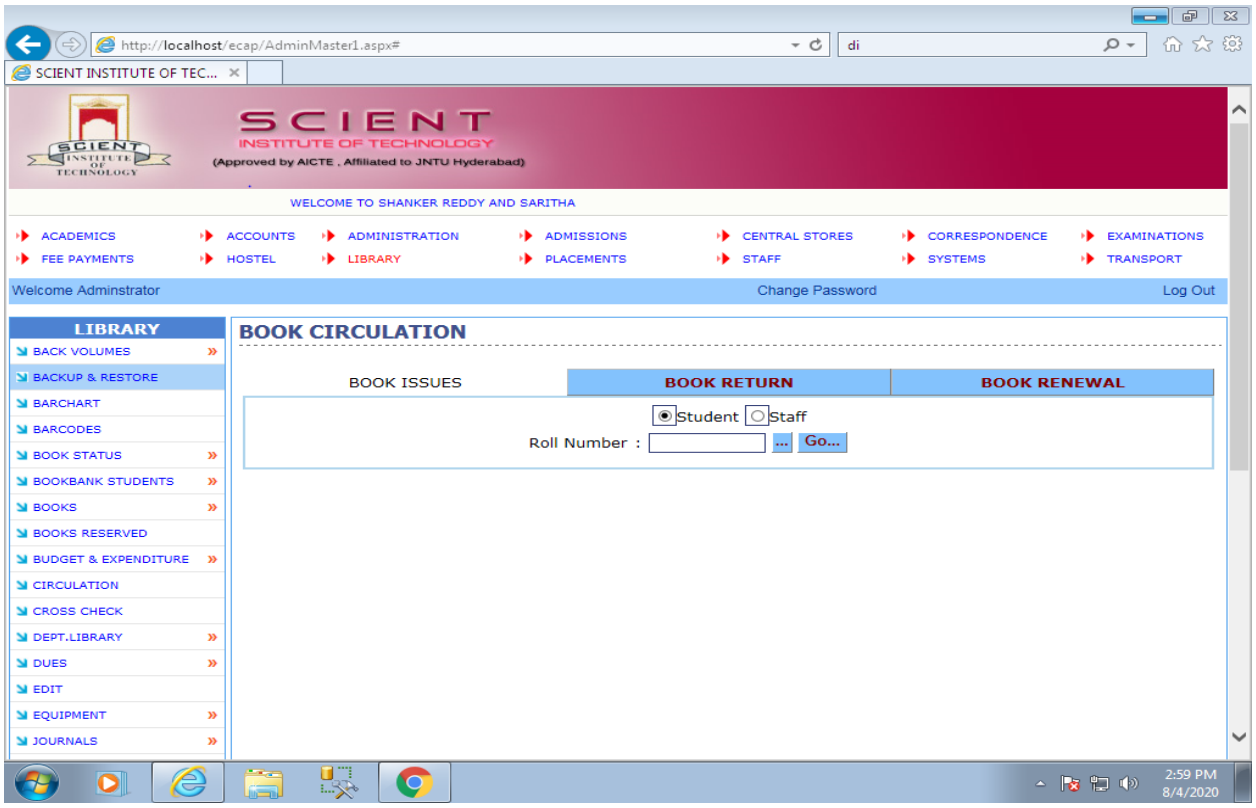


Fig 2 : Book circulation

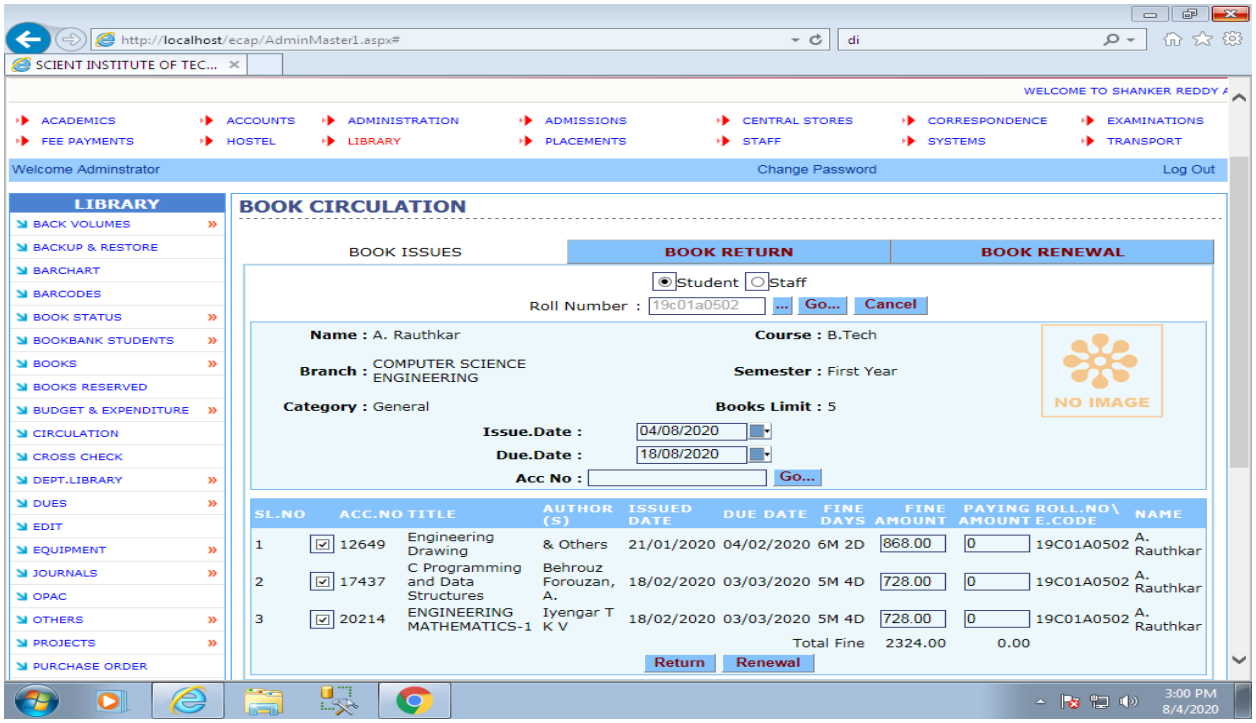


Fig 3: Details of book circulation

EXAMINATIONS

SNTI COLLEGE WEBSITE

SNTI college examination module consists of information regarding time-tables, notifications, and results.

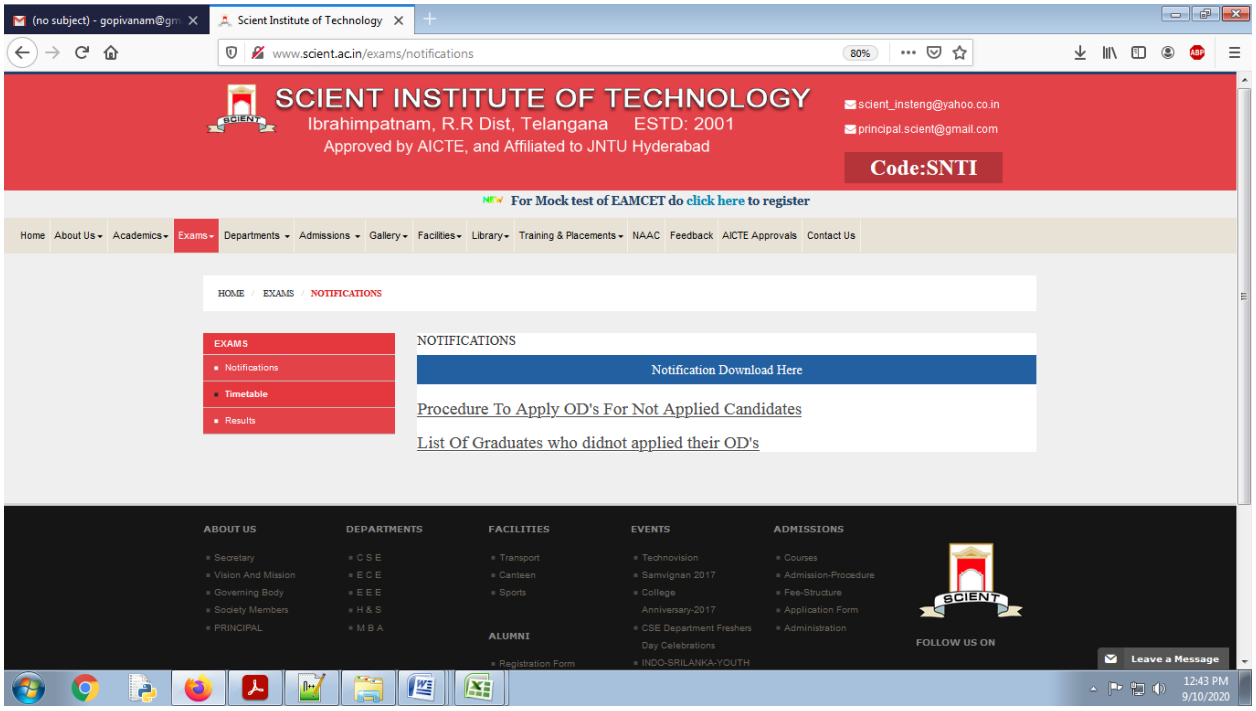


Fig1. : Time-tables, notifications and results.

SNTI COLLEGE AUTOMATION

14) EXAMINATION MANAGEMENT

This module is an important task for the evaluation of student abilities and performance. It includes all the process like examination setup, examination marks entry. We can maintain all the details of internal/external exams, theory/practical test, teacher wise internal assessment and we will get automatic result and print marks sheets. Using this module student exam attendance reports, marks memo report etc can be generated. Operations performed using this module are:

- Exam masters
- Pre Examination
- Post Examination
- Exam reports

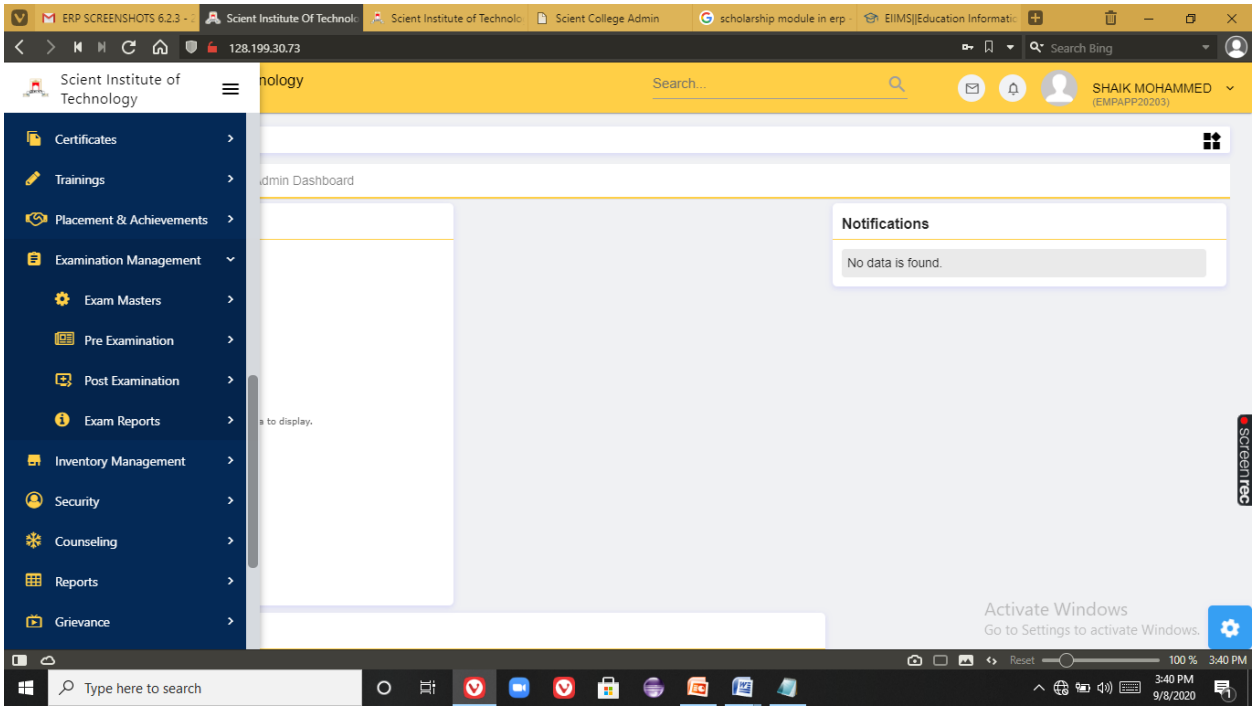


Fig 1 : Examination management functionalities

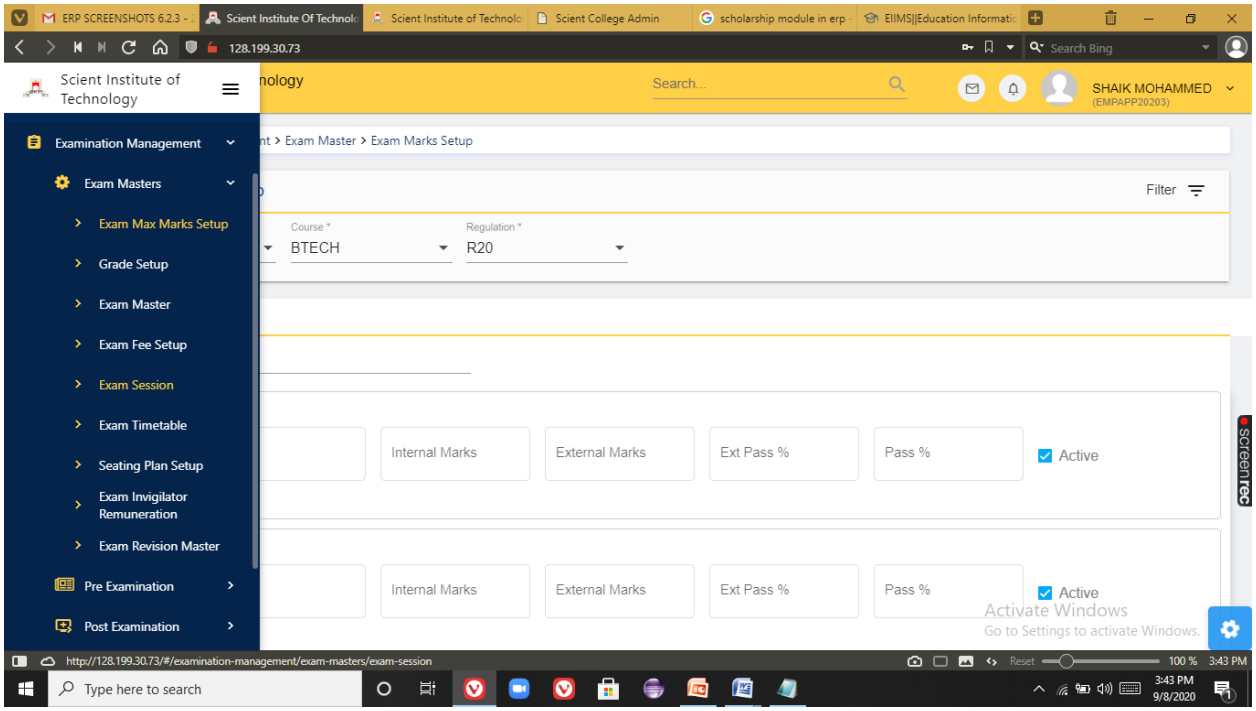


Fig 2 : Exam Marks setup

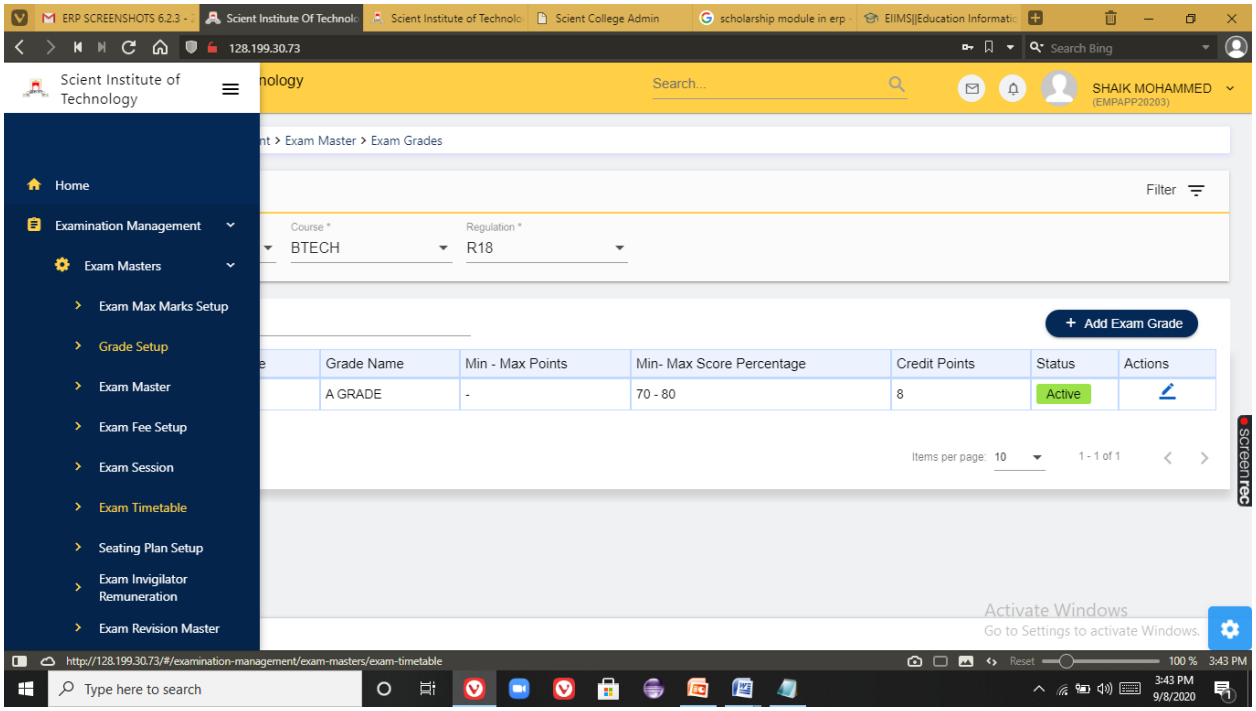


Fig 3 : Grade setup

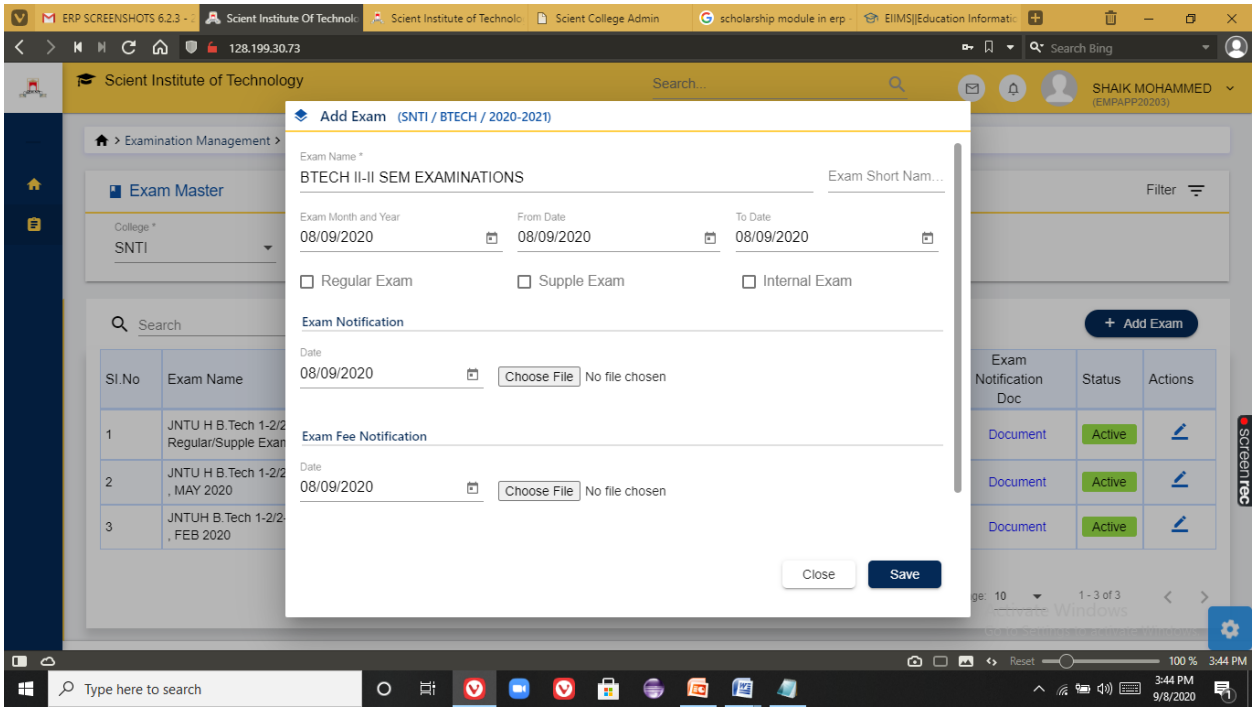


Fig 4 : Creating an exam

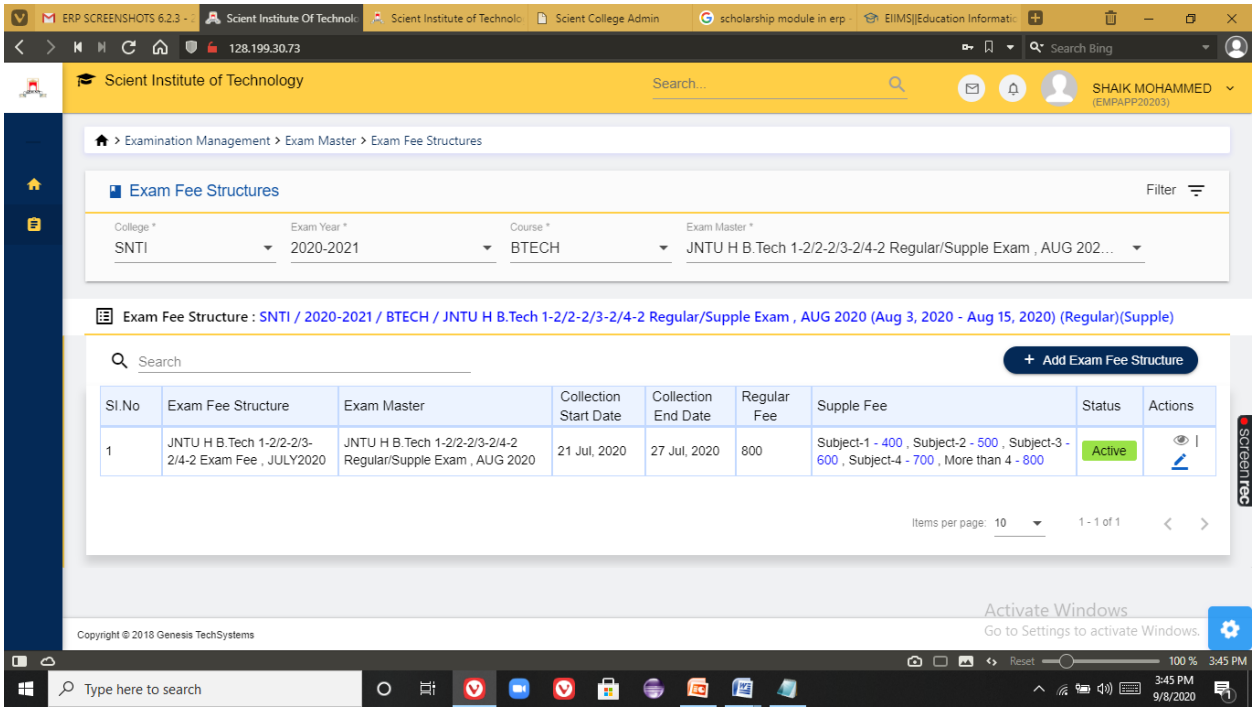


Fig 5: Exam fee collection

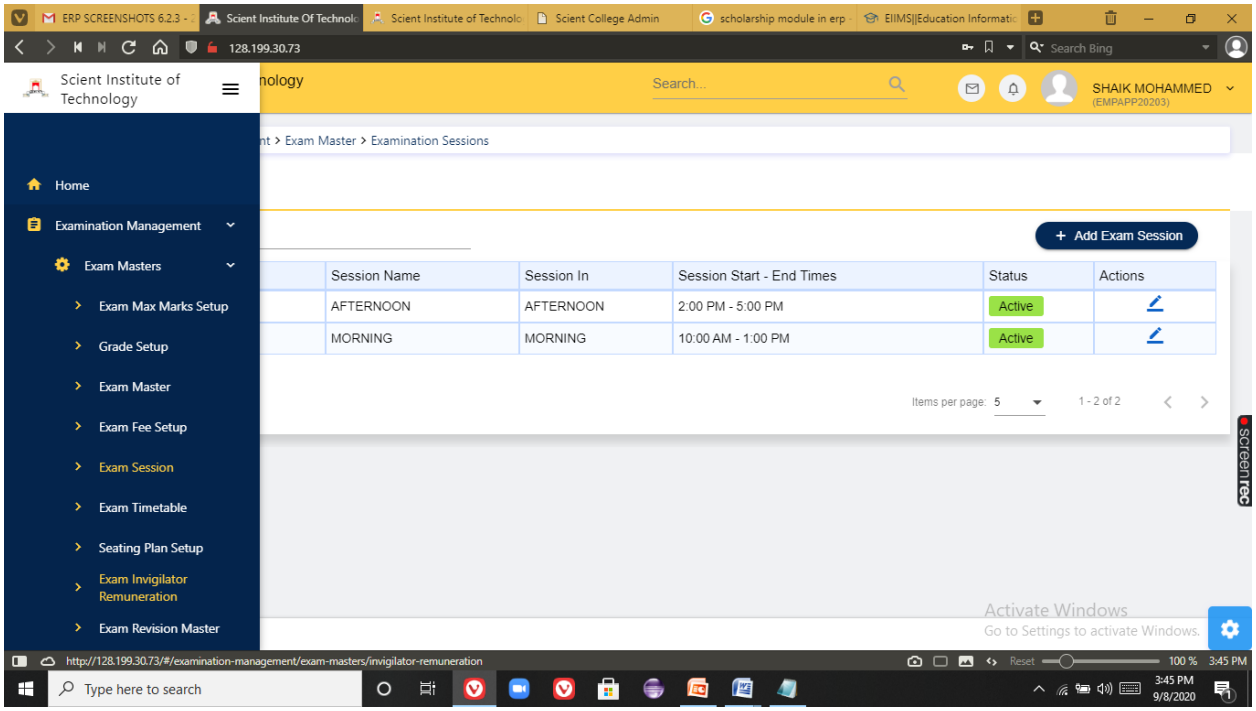


Fig 6 :Examination sessions

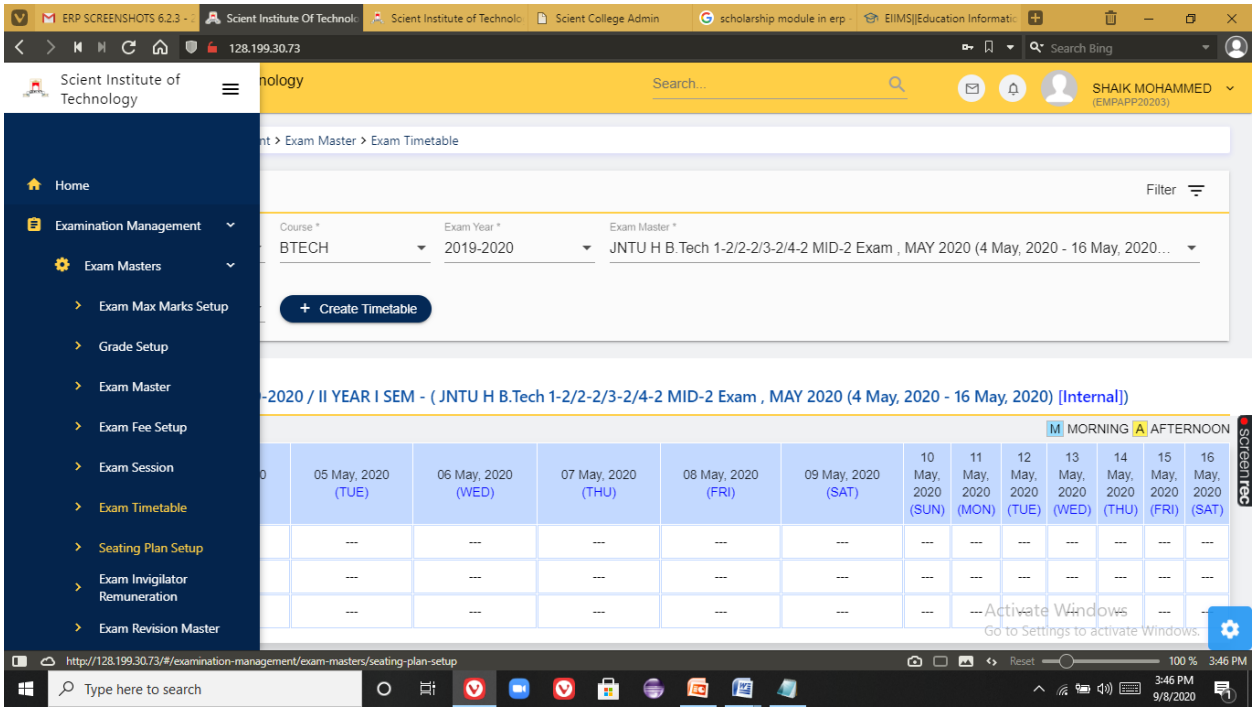


Fig 7 :Exam timetables

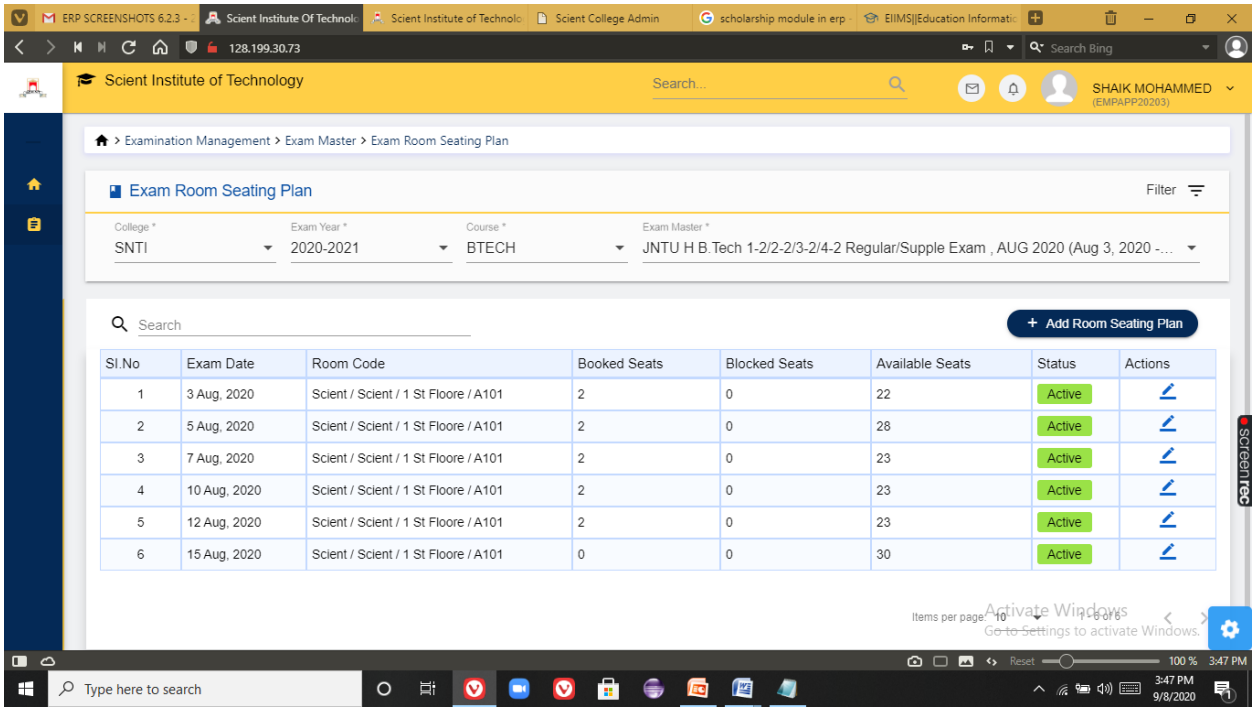


Fig 8: Seating plan arrangements

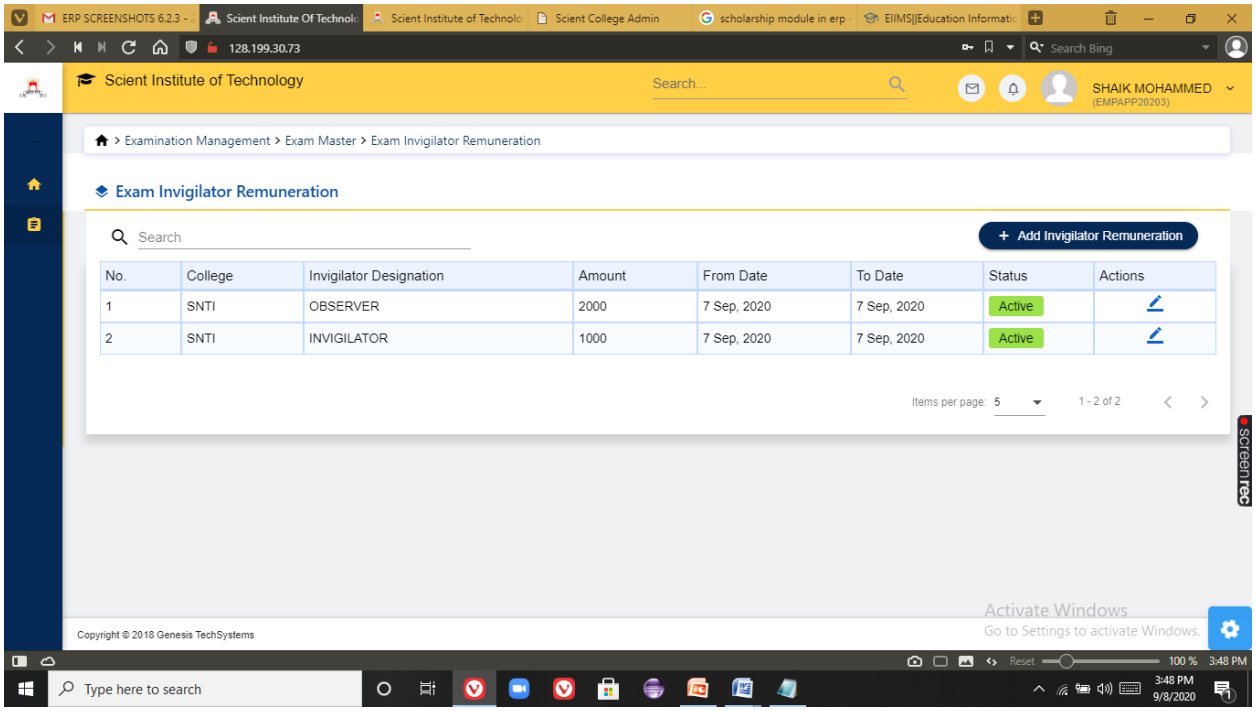


Fig 9 : Invigilator remuneration

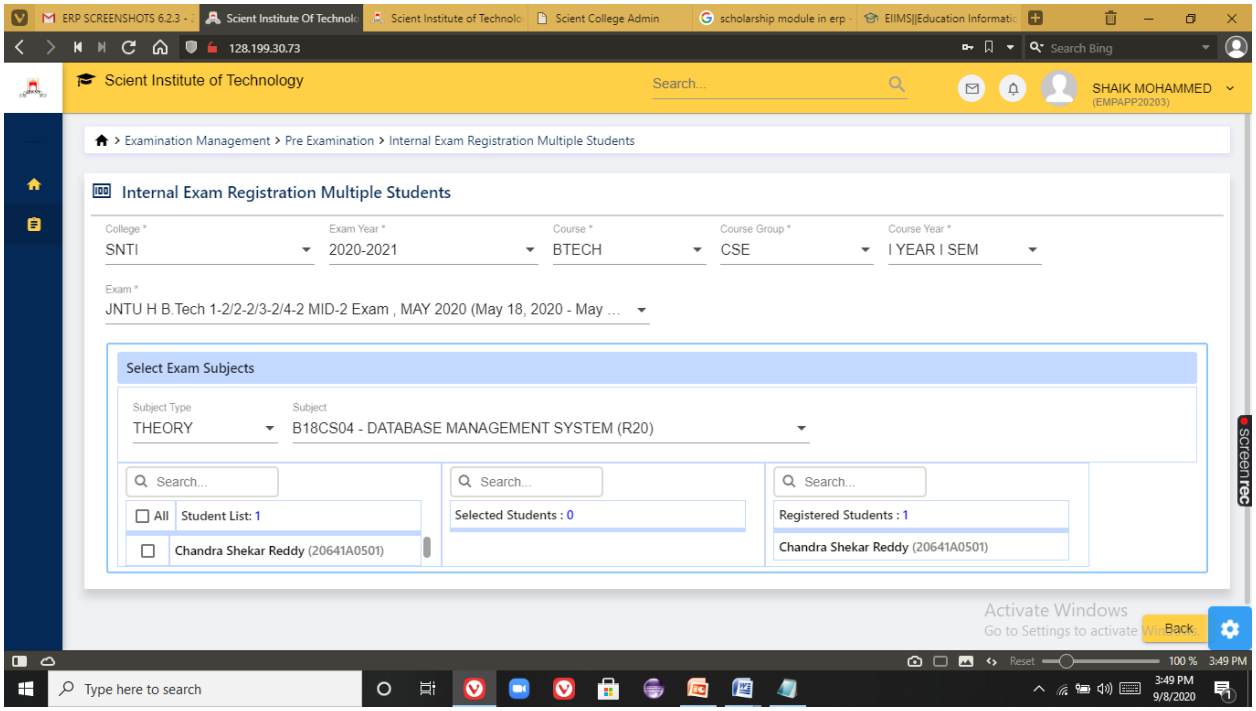


Fig 10 : Internal exam registration

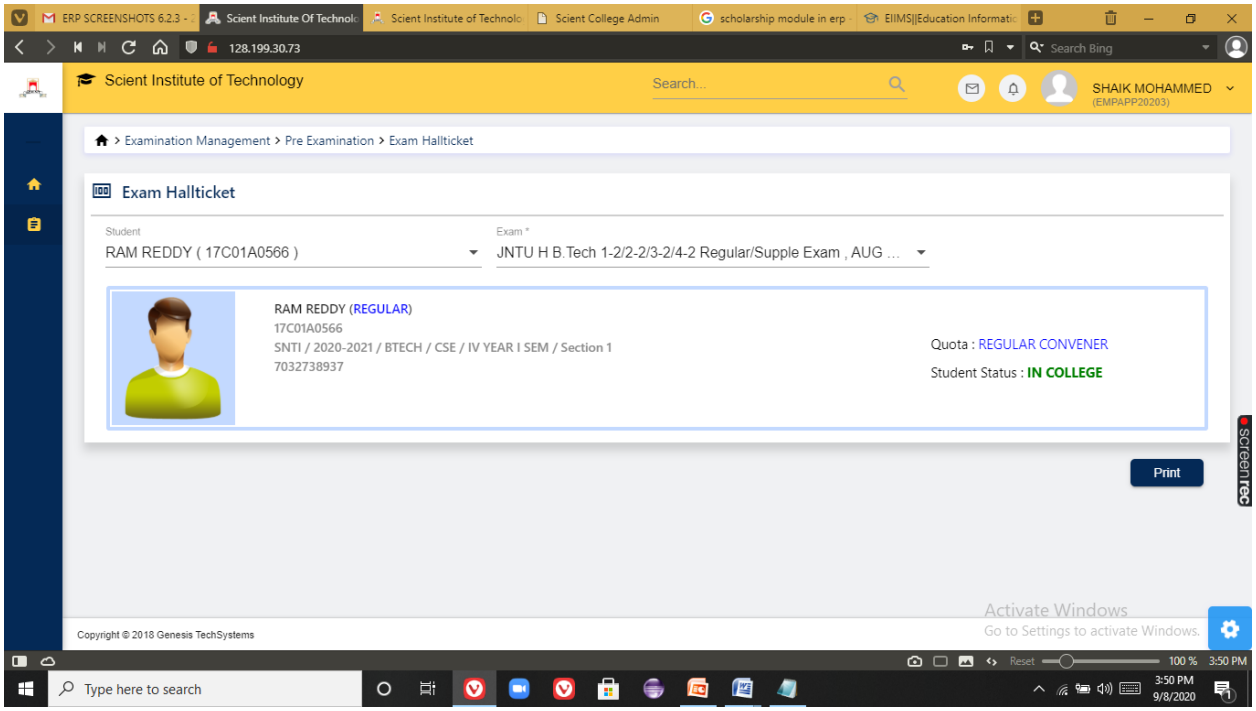


Fig 11 : Student hallticket

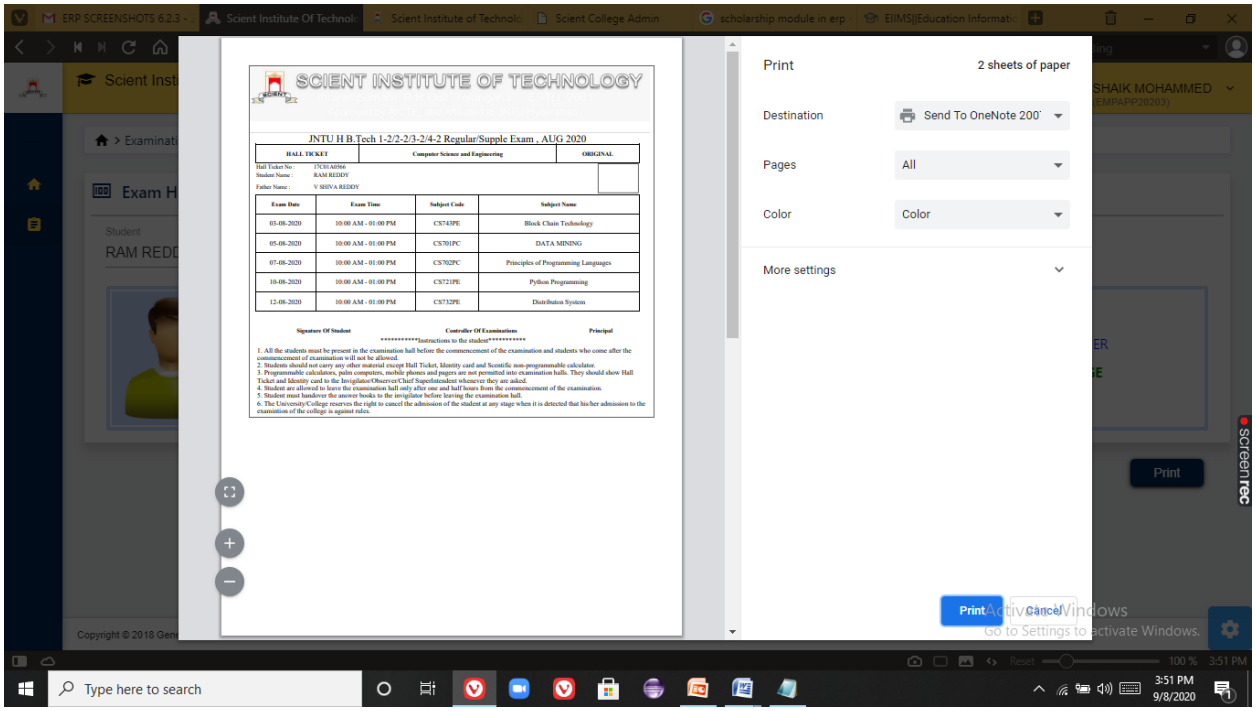


Fig 12: Printing student hall ticket

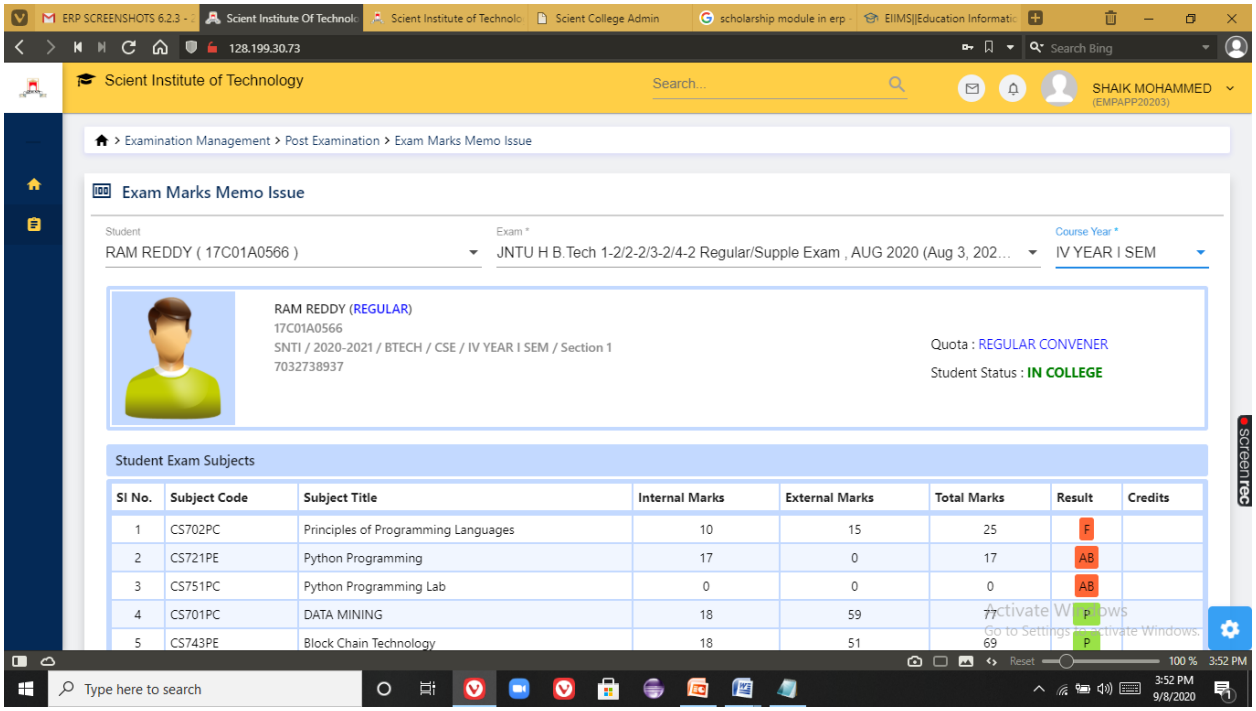


Fig 13 : Marks memo issuing to students

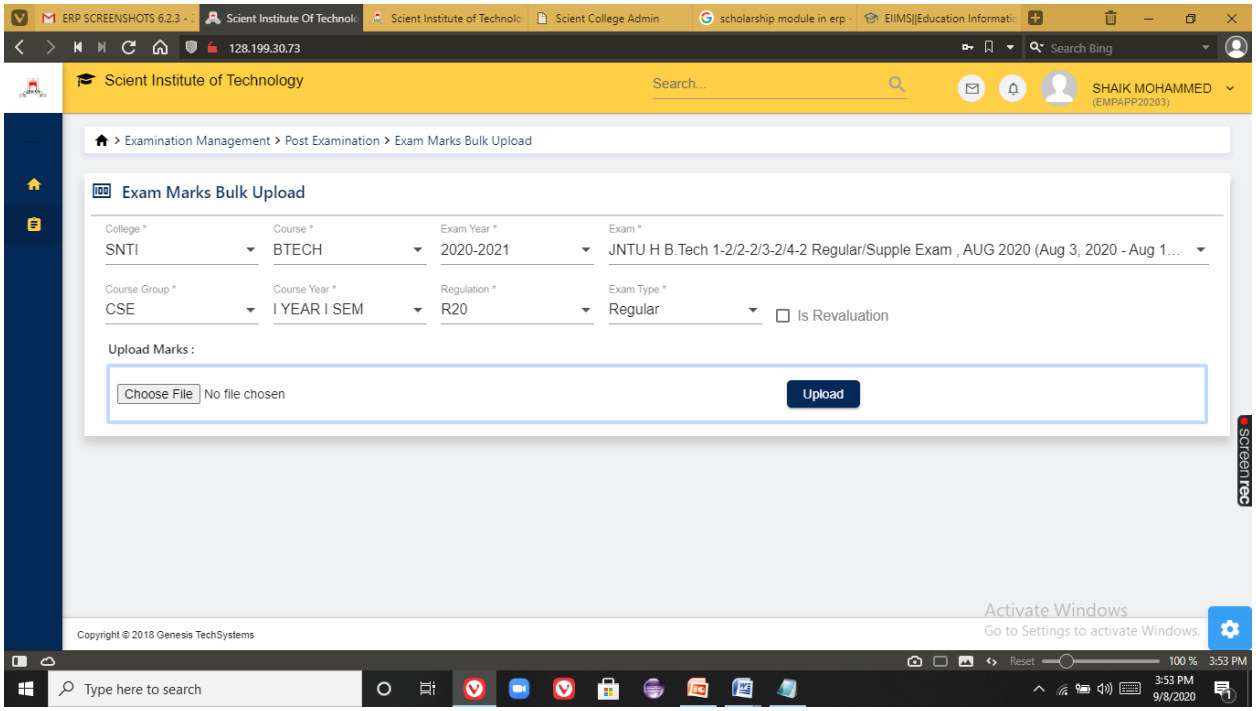
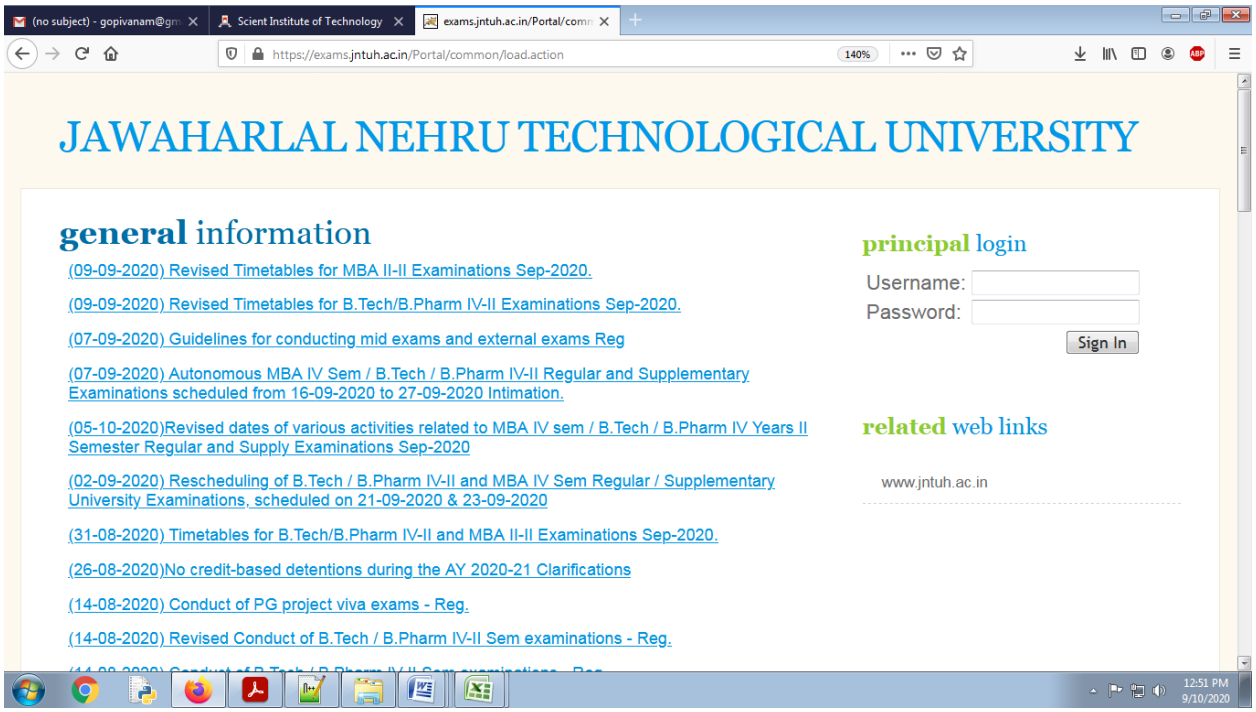


Fig 14: Exam marks upload

JNTUH EXAMINATIONS PORTAL

Scient Institute of Technology is affiliated to JNTU Hyderabad, hence SNTI is given access to JNTUH, Examinations Portal at free of cost. All the communications and transactions will b done through this portal.