

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous)

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(CSE, EEE & ECE) | Permanently Affiliated to JNTUA

Email: principal@gpcet.ac.in, Website: www.gpcet.ac.in

INSTITUTIONAL BEST PRACTICES

BEST PRACTICE -1

Title of the Practice: **Implementation of innovative methods in teaching – learning process**

Goal of the Practice:

- ❖ Driving the concepts home through project based learning approach
- ❖ Learning by doing
- ❖ Inculcating cognitive & computational thinking and programming capabilities
- ❖ Design and development of efficient and economical ways of solving real life problems

Context:

The current practice of paper based evaluation system in the middle and end of the semesters is not giving much scope to students to apply their concepts to develop a product or a service that solve a real life problem. There is a growing need for tools both hardware & software which will prompt the students to think innovatively and come up with the solutions that are time & cost effective

Practice

Students who build circuits in their very first year of engineering using electronic workbenches can design circuits to address practical problems by the time they reach final year.

Programming has become an enigma for many engineering students. Using innovative software tools like programming workbench will motivate them to learn and apply code to solve practical problems

Also, e-Learning through Virtual labs, YouTube videos, MOOCS, TED lectures and other related sources make learning easy and pleasurable

Evidence of success:

More and more students participating in Coding and IoT design competitions.

Students developing IT & Engineering products for solving existing problems or for new applications

Problems encountered and Resources required.

It takes a lot of time and effort to get acceptance of teachers & students to embrace new technologies.


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1. Flipped Class Rooms



Smart Class Room



Projector Class Room in Block – II

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Projector Class Room in Block – III

G. Vinay
Principal

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Student Learning Center in Block – II

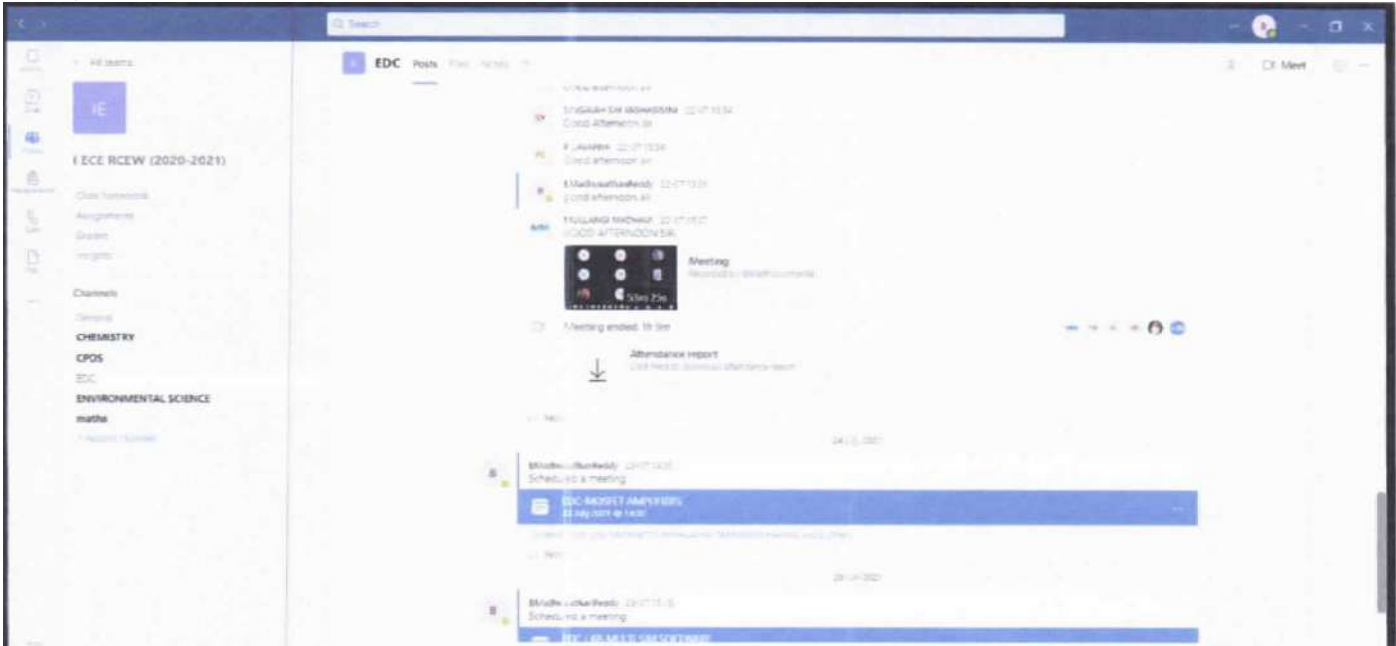


Student Learning Center in Block – I

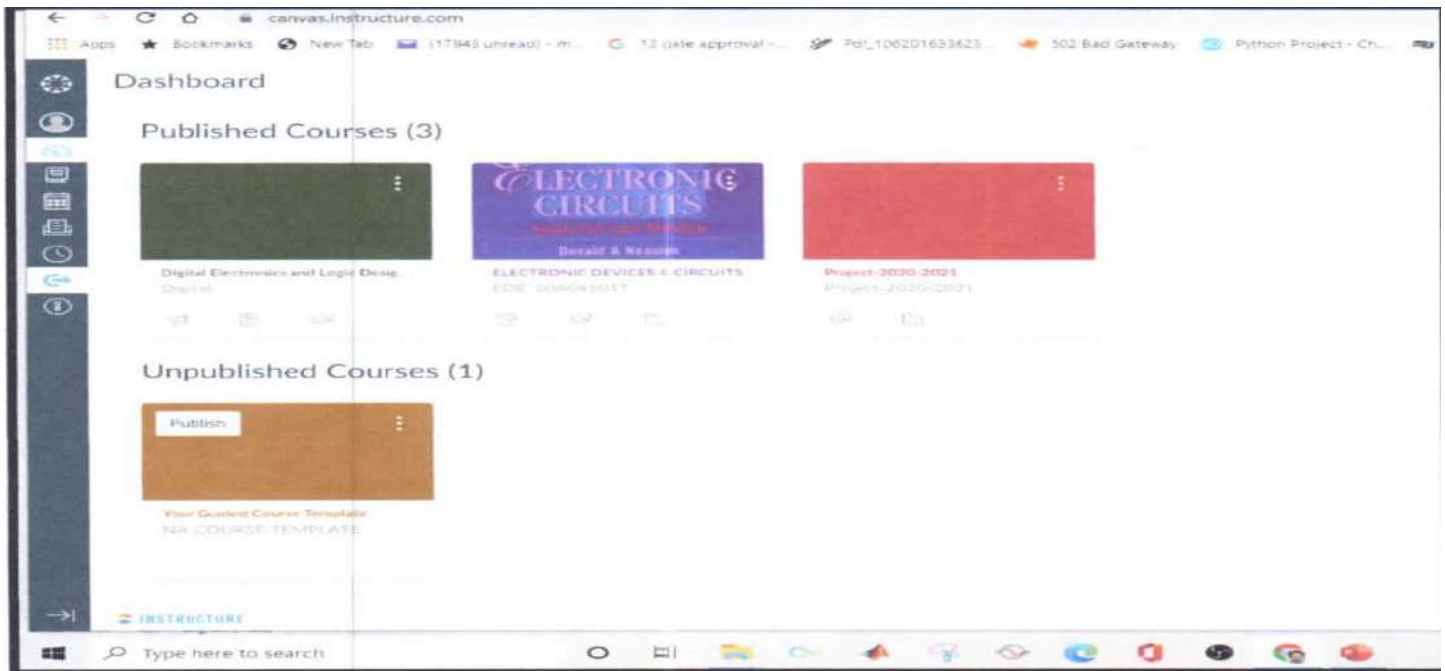
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2. Supporting Learning a) Microsoft Teams



LMS: Canvas Instructure



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b) NPTEL/ Swayam Videos



swayam

NPTEL - Computer Networks and Internet Protocol

Announcements About the Course Ask a Question Progress Mentor Review Assignment

Register for Certification exam

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Lecture 16: Transport Layer Performance

Lecture 17: Buffer Management and Congestion Control

Lecture 18: Transport Layer Primitives

Lecture 19: Transmission Control Protocol (TCP) - Series

Lecture 20: Transmission

Lecture 18 : Transport Layer Primitives

Transport Service Primitives

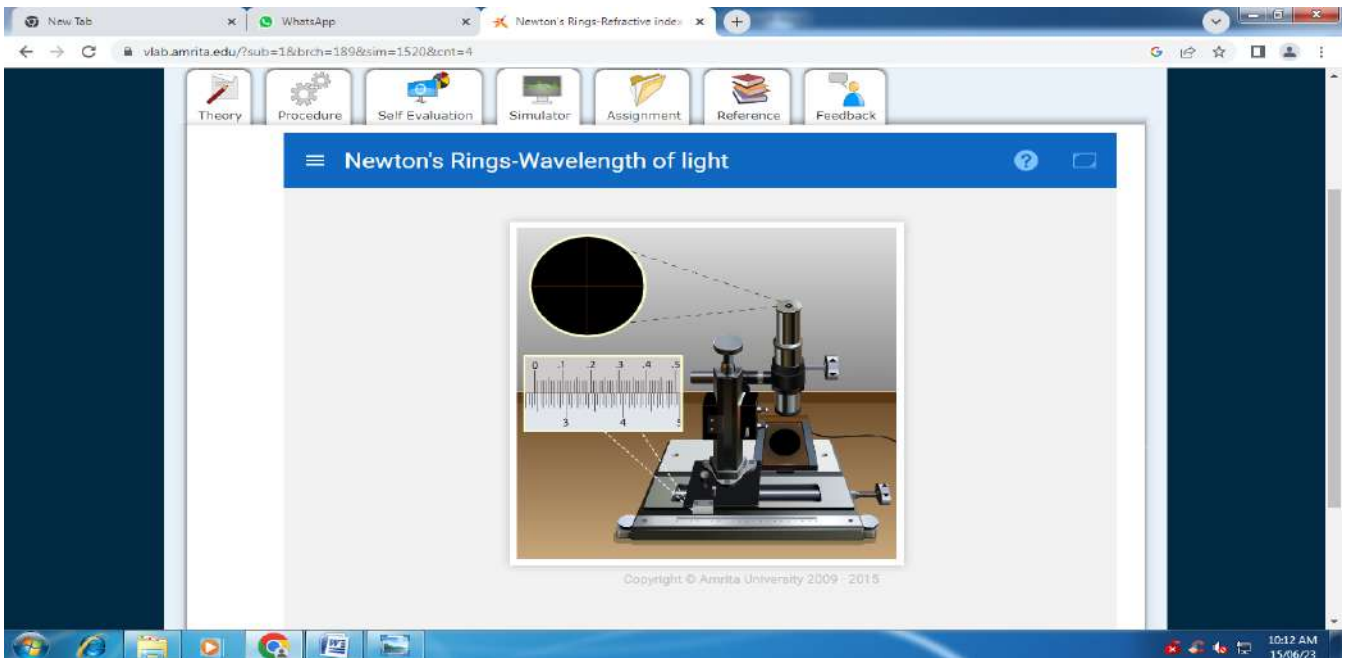
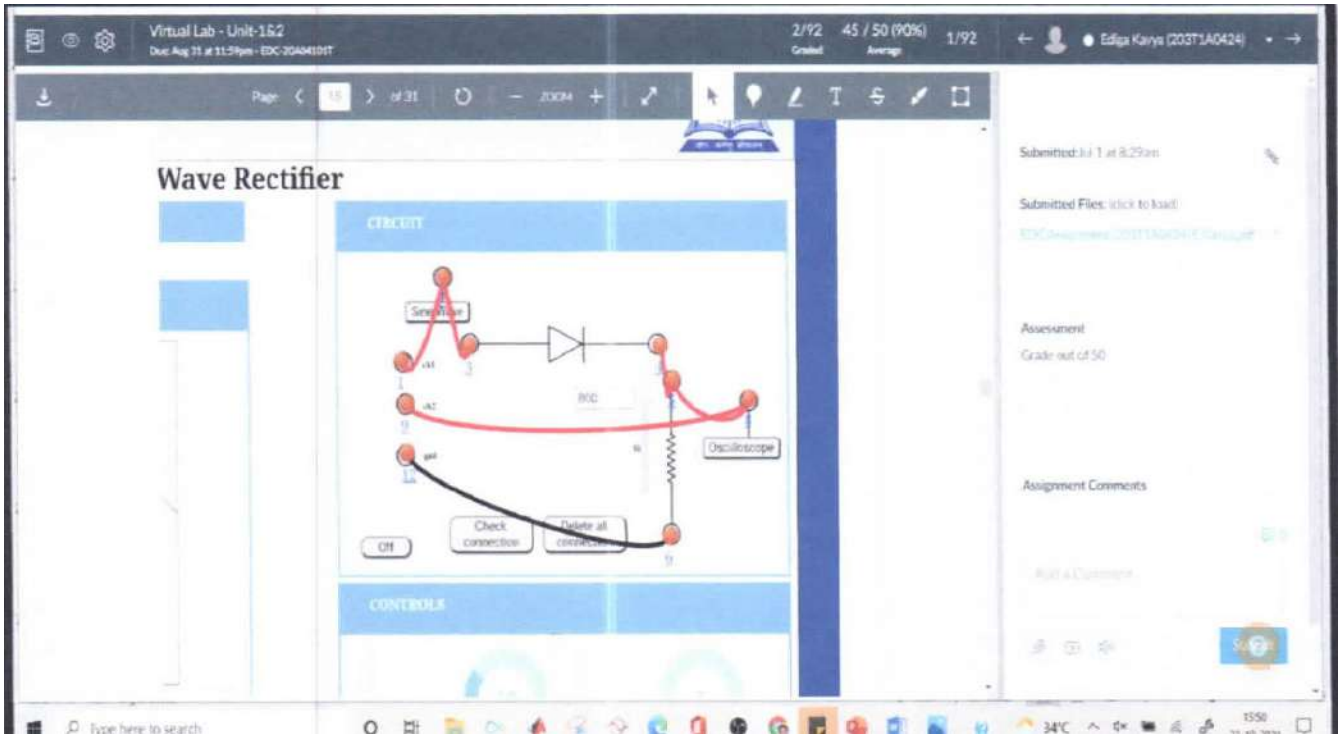
- To allow users to access transport service, the transport layer must provide some operations to the application programs.

Primitive	Packet sent	Meaning
LISTEN	(none)	Block until some process tries to connect
CONNECT	CONNECTION REQ.	Actively attempt to establish a connection
SEND	DATA	Send information
RECEIVE	(none)	Discard any DATA packet errors
DISCONNECT	DISCONNECTION REQ.	Request a release of the connection

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c) Virtual Labs



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BEST PRACTICE -2

Title of the Practice: **e- Governance**

Goal of the Practice:

The goal of the practice is to provide effective and easy way to automate the functionalities of the Institute and to provide information about the students and staff to the stake holders by way of digital campus software and college website. Digital campus software which is being used by our institute provides various types of educational related services like maintaining attendance, internal marks, work load of staff members, leave history, mentoring data etc., thereby reducing human error and paper work. The college website www.gpcet.ac.in provides information about the various departments of the institution, vision, mission, placement details, facilities provided etc.

Context:

Our institute has an intake of 600 UG students and 174 PG students every year and has a total strength of around 3000 students in the campus. To maintain the records of all these students manually is a huge task and there are chances of committing errors. Hence digital campus software is being used by our Institute to store information about various types of educational related services like maintaining attendance, internal marks, work load of staff members, leave history, mentoring data etc., thereby reducing human error and paper work.

Practice:

Digital campus software is loaded with main features like Admissions, Academics, Correspondence, Library, Administration etc. by which the details of attendance, internal marks, work load of staff members, leave history, back logs of students, mentoring data etc. which can be accessed when necessary by both the staff as well as the student using their Login Id and Passwords.

The access to the software can also be done through the institute website www.gpcet.ac.in.

Evidence of Success

- ❖ The information regarding any student or staff can be accessed in minimum amount of time.
- ❖ The analysis of marks and attendance can also done easily.
- ❖ As the log-in access is also given to the parents, the parents are being able to access the information about attendance, marks etc of their wards in minimum amount of time.
- ❖ Effective management of resources.
- ❖ Interaction between the faculty and students has also increased.
- ❖ The information is stored centrally and no redundant data is stored.

Problems encountered and Resources required

- ❖ There will be problem in accessing the data when the network is down.
- ❖ There is a chance of files getting corrupted.
- ❖ A separate high configuration server is to be allotted for this software.


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E- Governance screen shots Login Sheets:

G Pullaiah College of Engineering and Technology has ERP software which covers the following areas of operation

The screen shots E- Governance software as follows

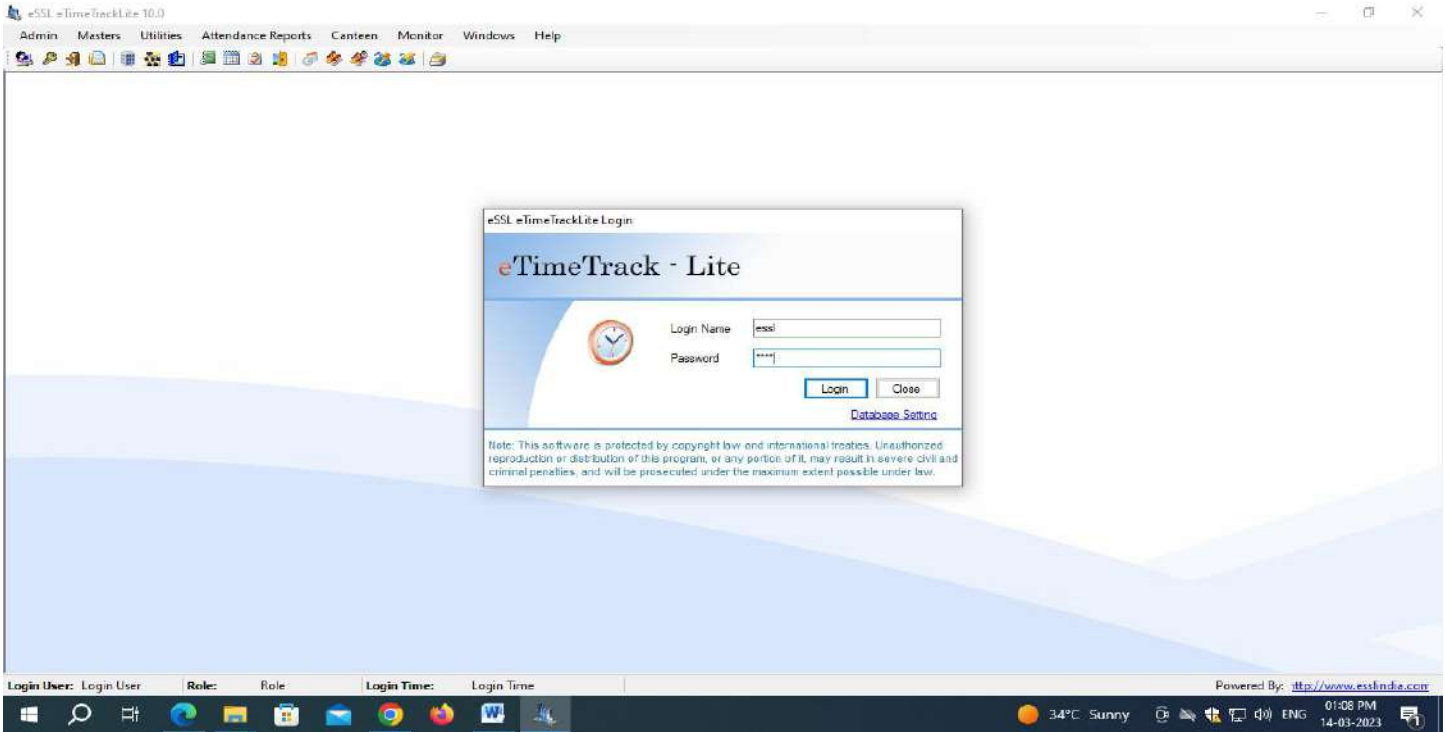
1. Administration
2. Finance and Accounts
3. Student Administration and Support
4. Examination
5. Library

S No	E- Governance area	Screen shots Description
1	Administration	ERP Home page
		ERP Login page
		ERP Modules
2	Finance and Accounts	ERP Home page (Tally)
		ERP Login page (Tally)
3	Student Administration and Support	ERP Login page (Digital campus)
		ERP Modules (Digital campus)
		ERP Home page (gpcet.ac.in)
		ERP Modules (gpcet.ac.in)
4	Examination	ERP Login page
		ERP GPCET Portal
5	Library	ERP Home page
		ERP Login page
		ERP Modules

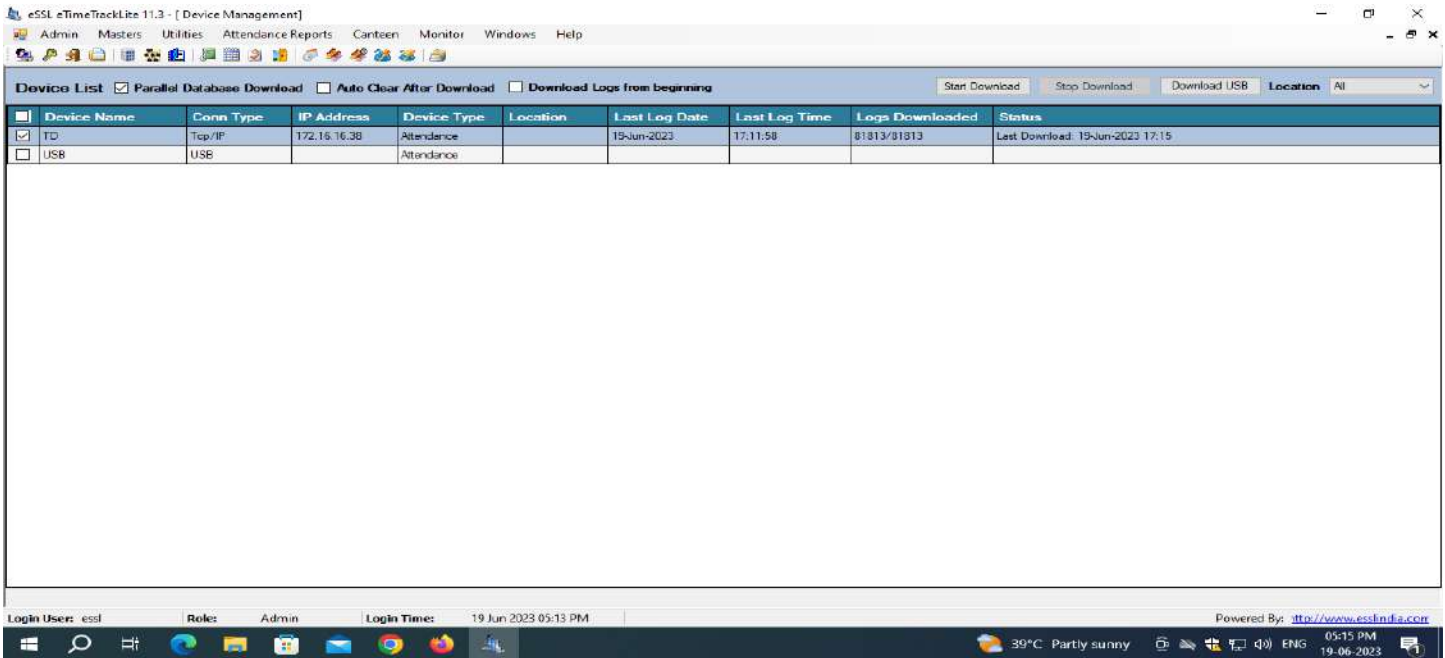

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Concept (Bio Metric)



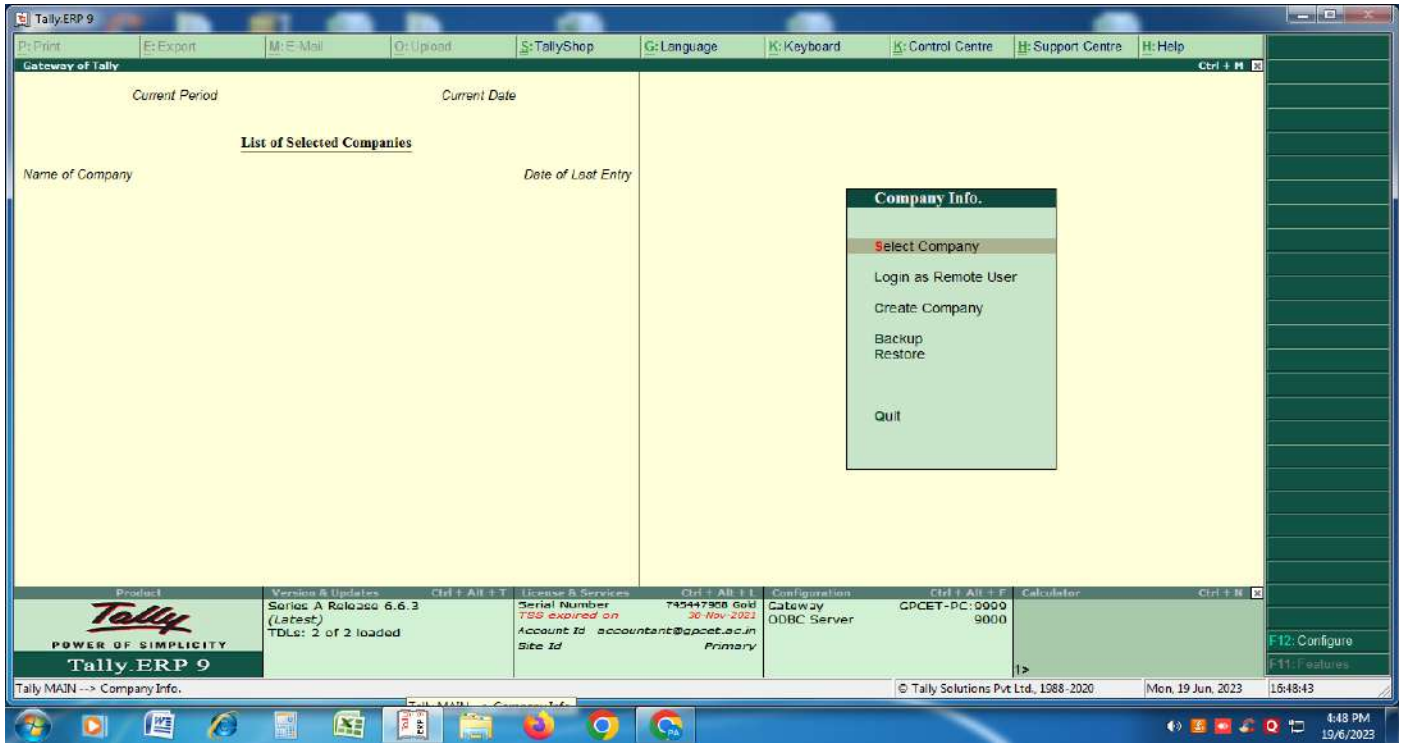
Concept Home page & Login page



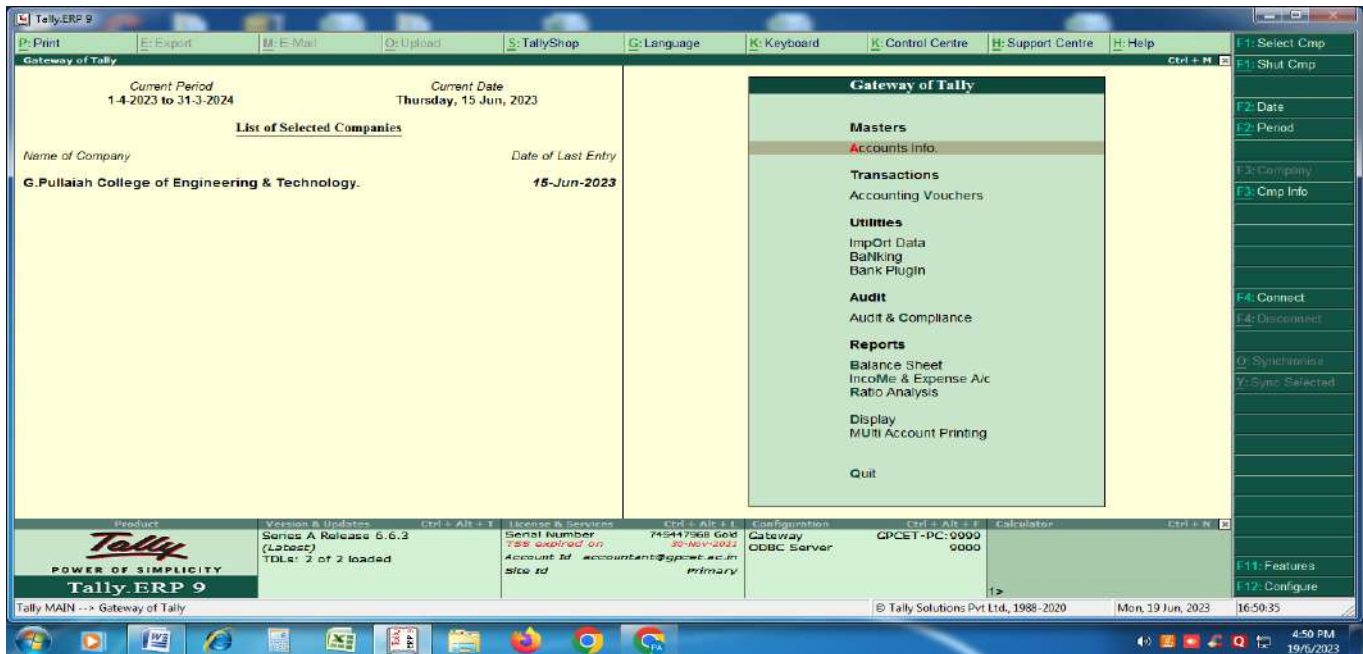
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Tally Software



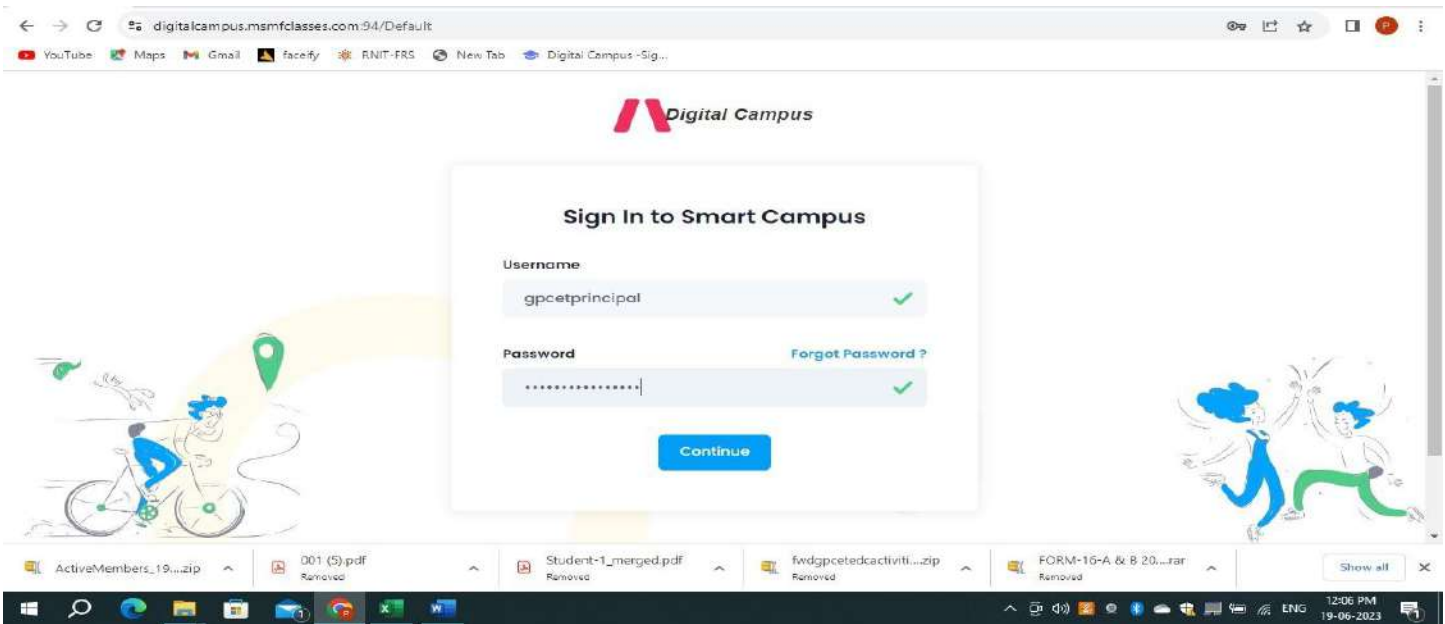
Tally Home Page



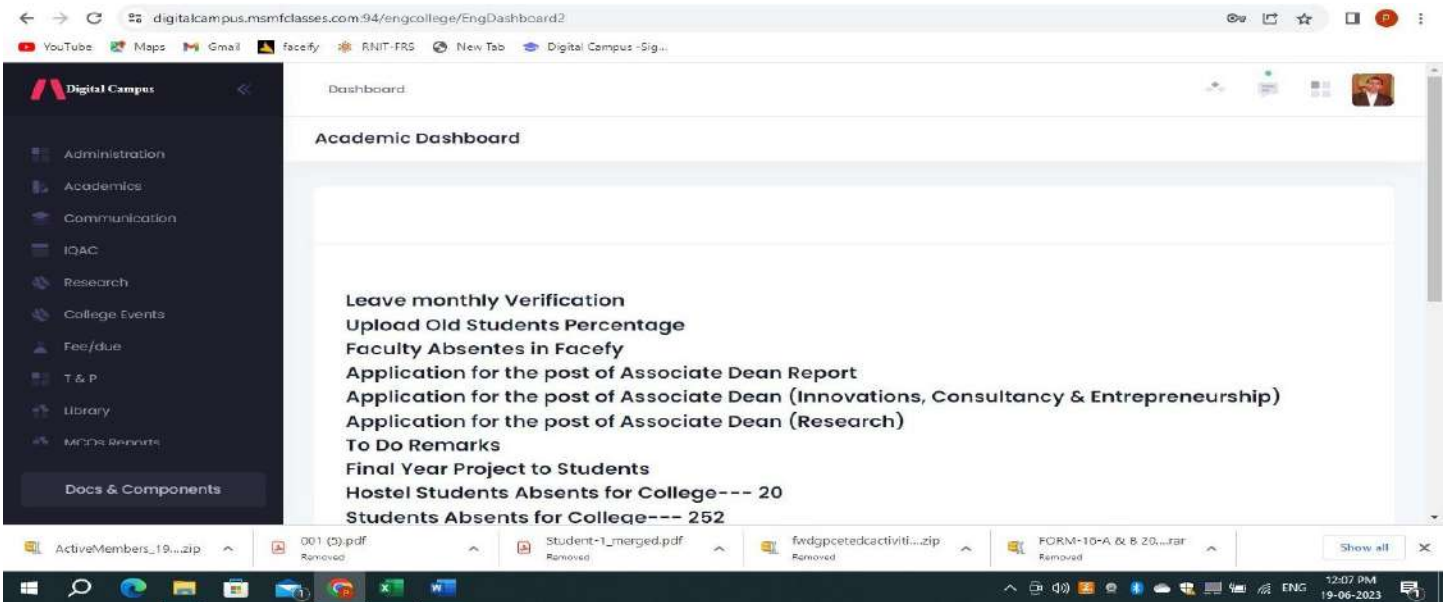
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GPCET Software



Login Page



Principal Dash Board


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Digital Campus

Dashboard

Academic Dashboard

- Faculty Syllabus Covered
- Academic Calander New
- Students Laptop Status
- Application for the post of Associate Dean (Innovations, Consultancy & Entrepreneurship)
- Application for the post of Associate Dean (Research)
- Research Area
- Final Year Project to Students
- Hostel Students Absents for College--- 22
- Students Absents for College--- 207
- Mentor with less than 50% Attendance--- 14 / 20
- Mentor with attendance less than 75 % --- 20 / 20
- Mentor with less than 3 backlogs--- 17 / 20

Windows Taskbar: 4:23 PM 19/06/23

HOD Dash Board

Digital Campus

Dashboard

Academic Dashboard

- Faculty Syllabus Covered
- students Laptop Status
- Mentees Laptop Status
- Application for the post of Associate Dean (Innovations, Consultancy & Entrepreneurship)
- Application for the post of Associate Dean (Research)
- Final Year Project to Students
- Hostel Students Absents for College--- 2
- Students Absents for College--- 29
- Mentees with less than 50% Attendance--- 1
- Mentees with attendance less than 75 % --- 22
- Mentees with less than 3 backlogs--- 6
- Mentees with more than 3 backlogs --- 0

Windows Taskbar: 4:25 PM 19/06/23

Faculty Dash Board

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digitalcampus.msmfclasses.com:90/engstudent/studentDashboard1

Welcome, 22AT1A3528

Attendance: 0

T & P Attendance

Placed Students Count: 0

Fee Receipts / Fee Due: 0

Mid Marks: View More

Backlogs: 0

Progress Report: 8.92

Notification/Time Table: View More

Academic Attendance | Placement Attendance

Live Tests

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Student Dashboard

Attendance: 86.94

T & P Attendance: 469

Placed Students Count: 0

Fee Receipts: View More

Fee Due: 60000

Mid Marks: View More

Progress Report: 75.1

Notification/Time Table: View More

Academic Attendance | Placement Attendance

Live Tests

Academic Attendance

Month	Percentage
January	100
September	0
October (month)	~65
November	100
December	100

86.94 60000 0 75.1

Dashboard | Class work | Fee Payment | Applications | FeedBack | Grievance Cell | T & P | Plan My Training


Digital campus (Students Home Page)

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digitalcampus.msmfclasses.com:90/engstudent/FeeReceipt



Welcome, 22AT1A3528

ALL Due Backlogs CGPA
0 0 8.92

Menu

- Dashboard
- Class work
- Fee Payment
- Applications
- FeedBack

Fee Receipts

SNO	DATE	RECEIPTNO	DATE	YEAR	PAID	ACTION
1	12/03/2022	GPCET/201637181	12/03/2022	1	46000	View More
2	11/07/2022	GPCET/201036022	11/07/2022	1	10000	View More

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Leave Status | digitalcampus.msmfclasses.com:90/engcc/Engg/LeaveApply/Status

Welcome, Pipshitha

0.86 93.1 2.0

Menu

- Dashboard
- Academics
- Communication
- IQAC
- Research
- T & P
- Services
- Video Lectures

Academic Financial Status Results

Home > Academics > Leave > Leave Report > Leave Apply Status

For Reports

Leave Status

SNO	STATUS
1	Your Leave Has Been Approved on Mon,28-Feb 02,2023 For CasualLeave,Full Day Your Leave Approved on Wed,02-Mar 03,2022 12-11-36
2	Your Leave Has Been Approved on Thu,06-Jan 01,2022 For CasualLeave,Full Day Your Leave Approved on Thu,06-Jan 01,2022 10-42-27
3	Your Leave Has Been Approved on Tue,28-Dec 12,2021 For CasualLeave,Full Day Your Leave Approved on Tue,21-Dec 12,2021 15-42-33
4	Your Leave Has Been Approved on Mon,27-Dec 12,2021 For CasualLeave,Full Day Your Leave Approved on Tue,21-Dec 12,2021 15-42-31
5	Your Leave Has Been Approved on Fri,24-Dec 12,2021 For CasualLeave,Full Day Your Leave Approved on Tue,21-Dec 12,2021 15-42-28
4	Your Leave Has Been Approved on Thu,23-Dec 12,2021 For CasualLeave,Full Day Your Leave Approved on Tue,21-Dec 12,2021 15-42-25
7	Your Leave Has Been Approved on Wed,22-Dec 12,2021 For CasualLeave,Full Day Your Leave Approved on Tue,21-Dec 12,2021 08-57-02
8	Your Leave Has Been Approved on Mon,22-Nov 11,2021 For CasualLeave,Full Day Your Leave Approved on Mon,22-Nov 11,2021
9	Your Leave Has Been Approved on Mon,08-Nov 11,2021 For CasualLeave,Full Day Your Leave Approved on Mon,08-Nov 11,2021

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1 year 1 sem Mid Marks

SNO	STUDENTROLLNO	SUBJECTCODE	SUBJECTNAME	MID1MARKS	MID2MARKS	MIDAVG
1	22AT1A3528	A30002	Mathematics-I	25	31	30
2	22AT1A3528	A30005	CHEMISTRY	29	38	36
3	22AT1A3528	A30801	PYTHON PROGRAMMING	33	40	39
4	22AT1A3528	A33501	FOUNDATIONS FOR IOT	29	33	32
5	22AT1A3528	A30302	ENGINEERING WORKSHOP			35
6	22AT1A3528	A30802	PYTHON PROGRAMMING LAB			22
7	22AT1A3528	A30009	CHEMISTRY LAB			39
8	22AT1A3528	A33502	FOUNDATIONS FOR IOT LAB			35

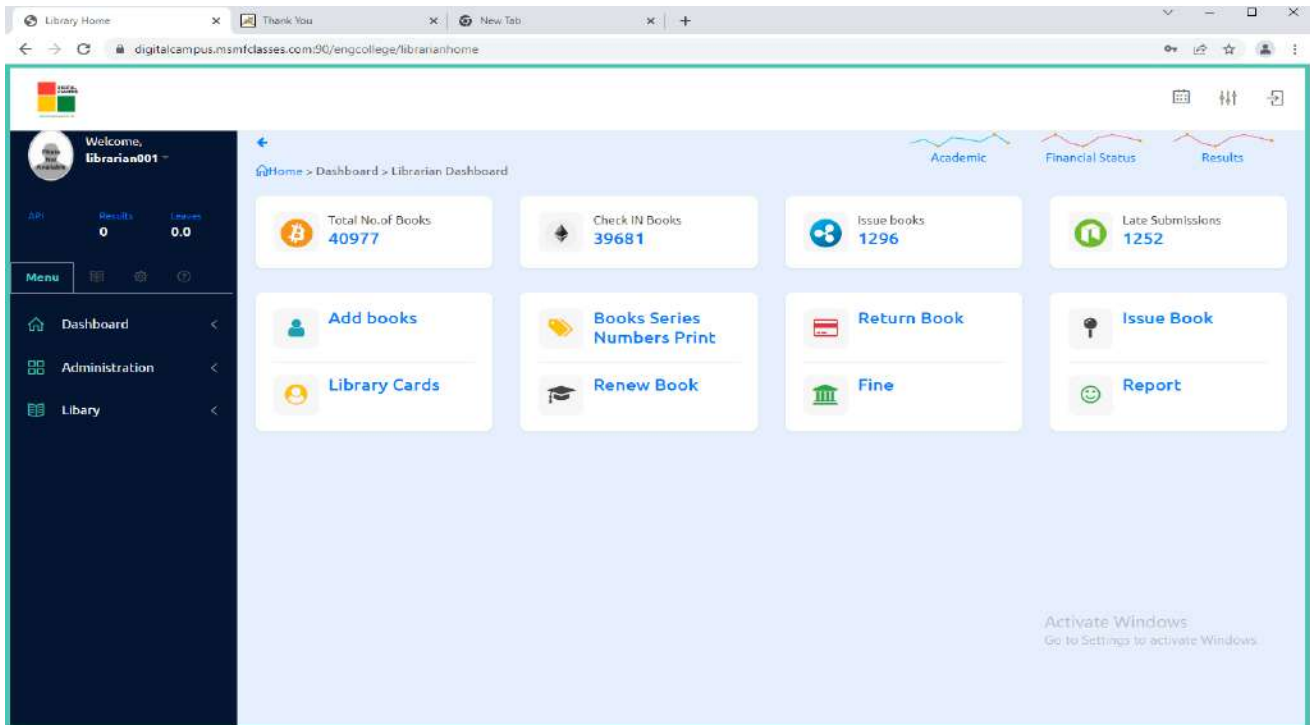
Digital campus – MODULES

Digital campus – Library

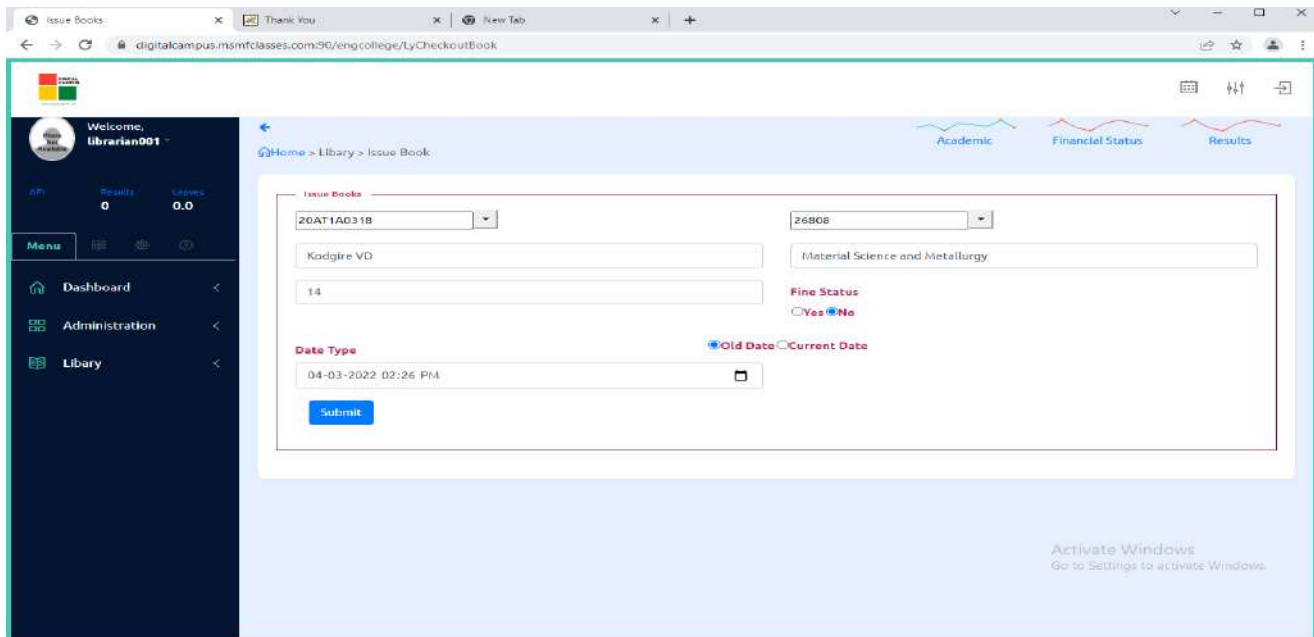
Digital campus Login Page

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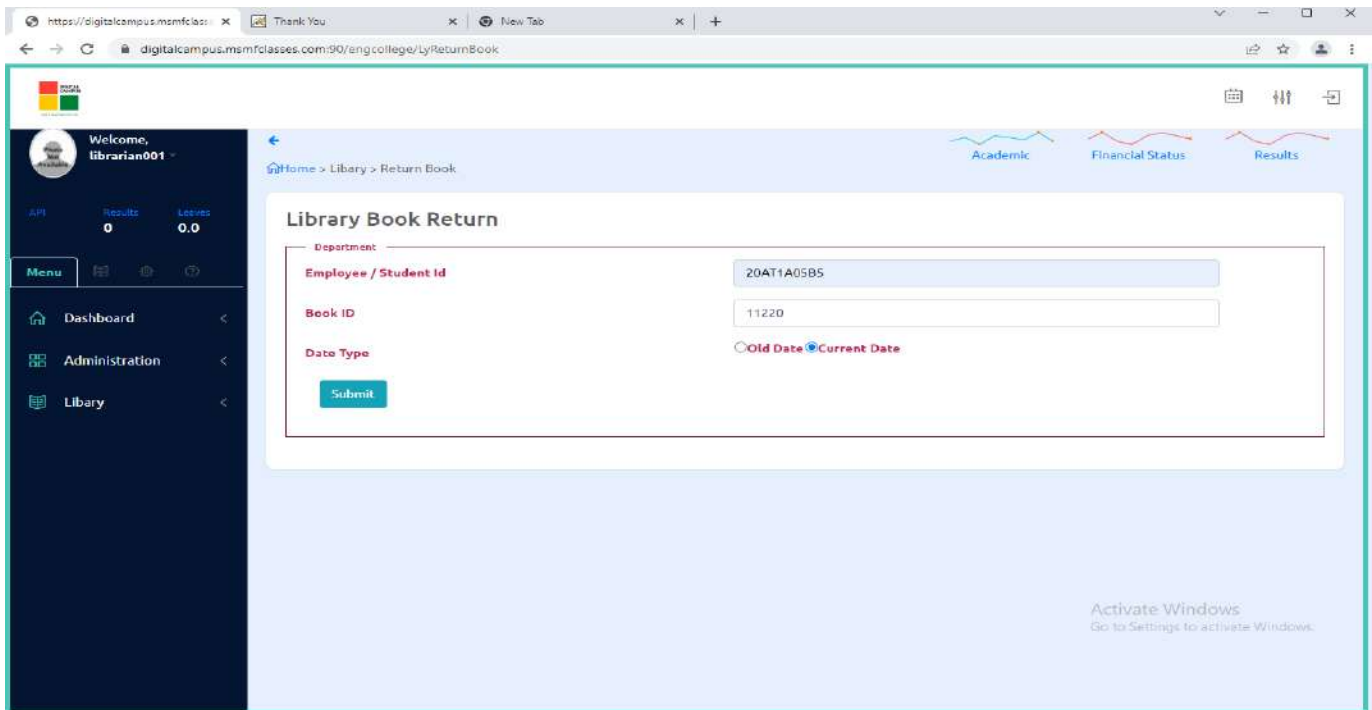


Digital campus Home Page

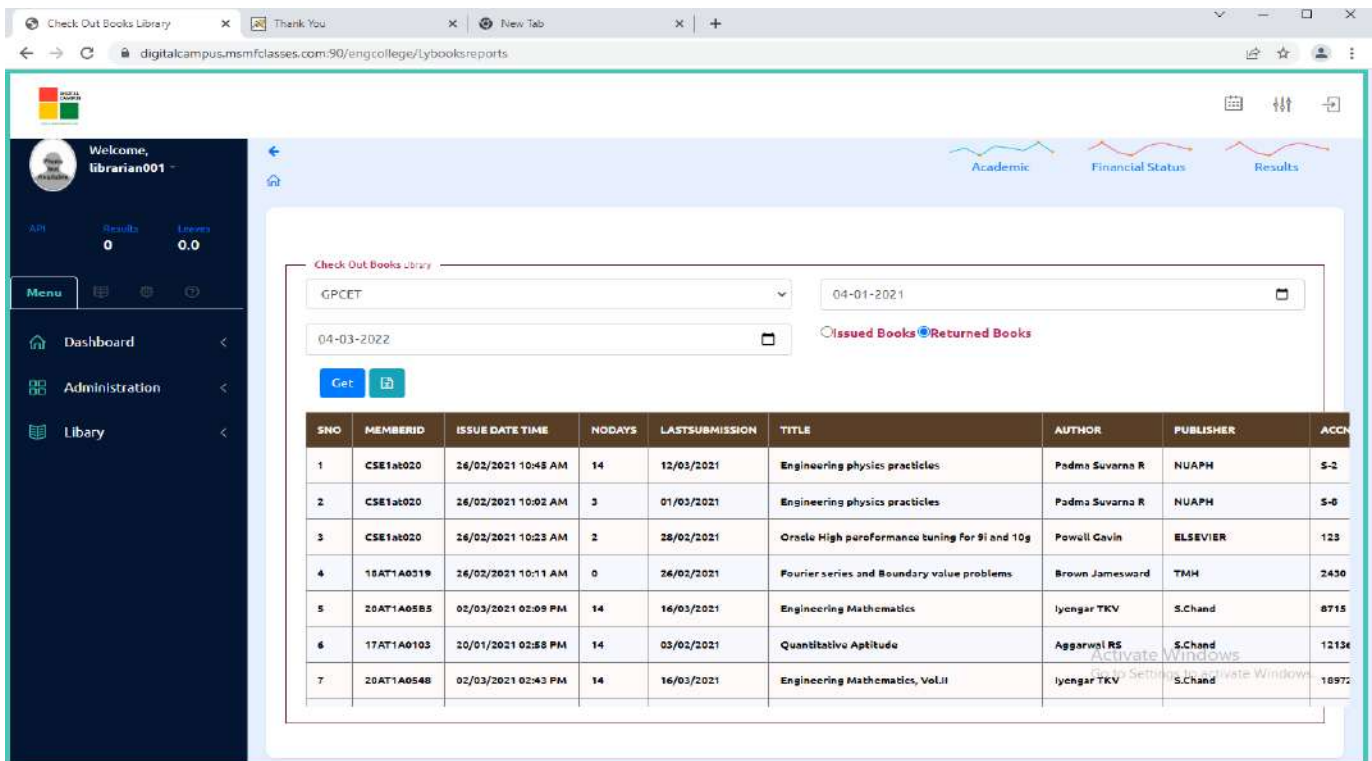


Digital campus Issue Page


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Digital campus Returns Page



Digital campus Returns Report

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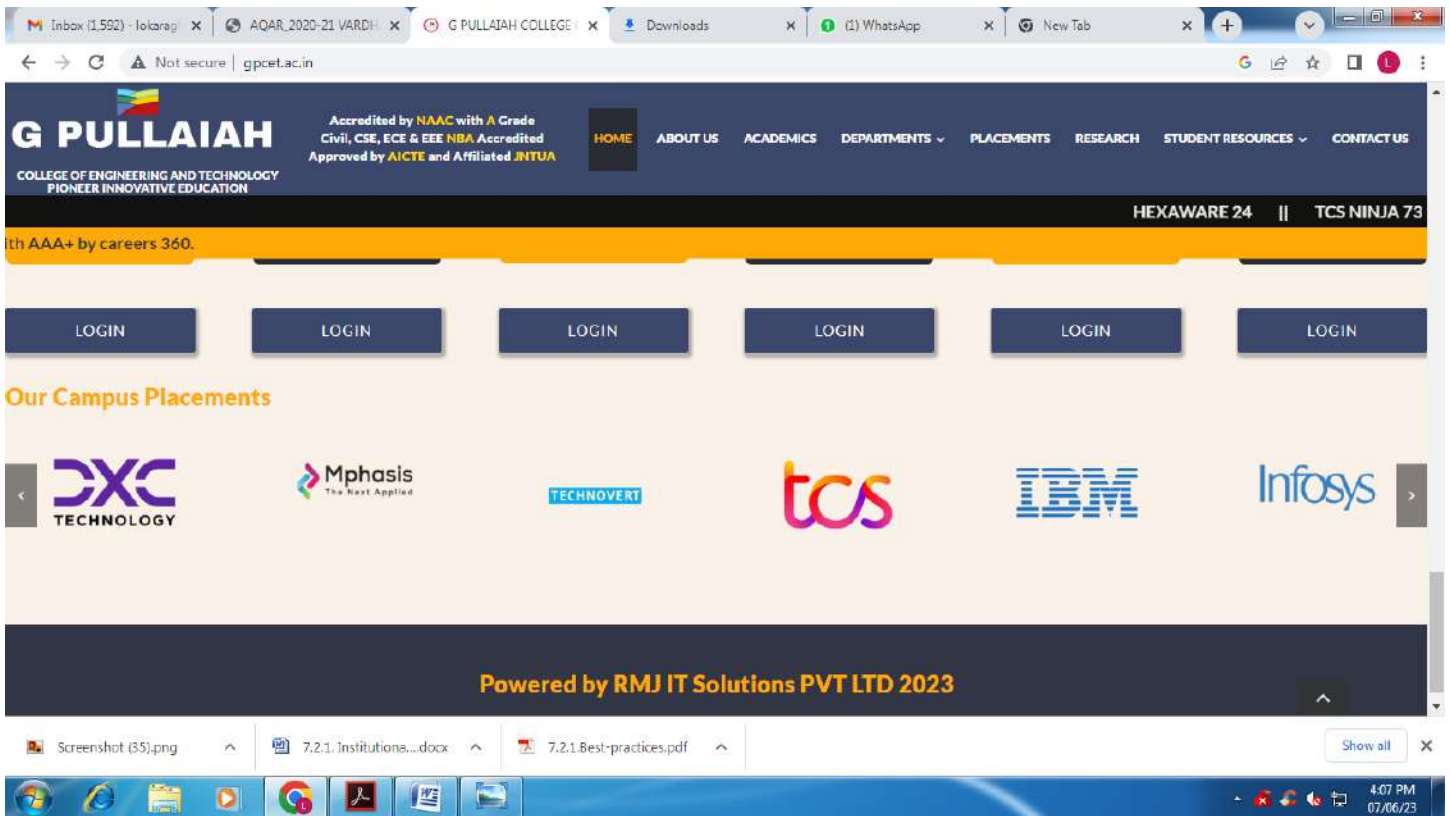
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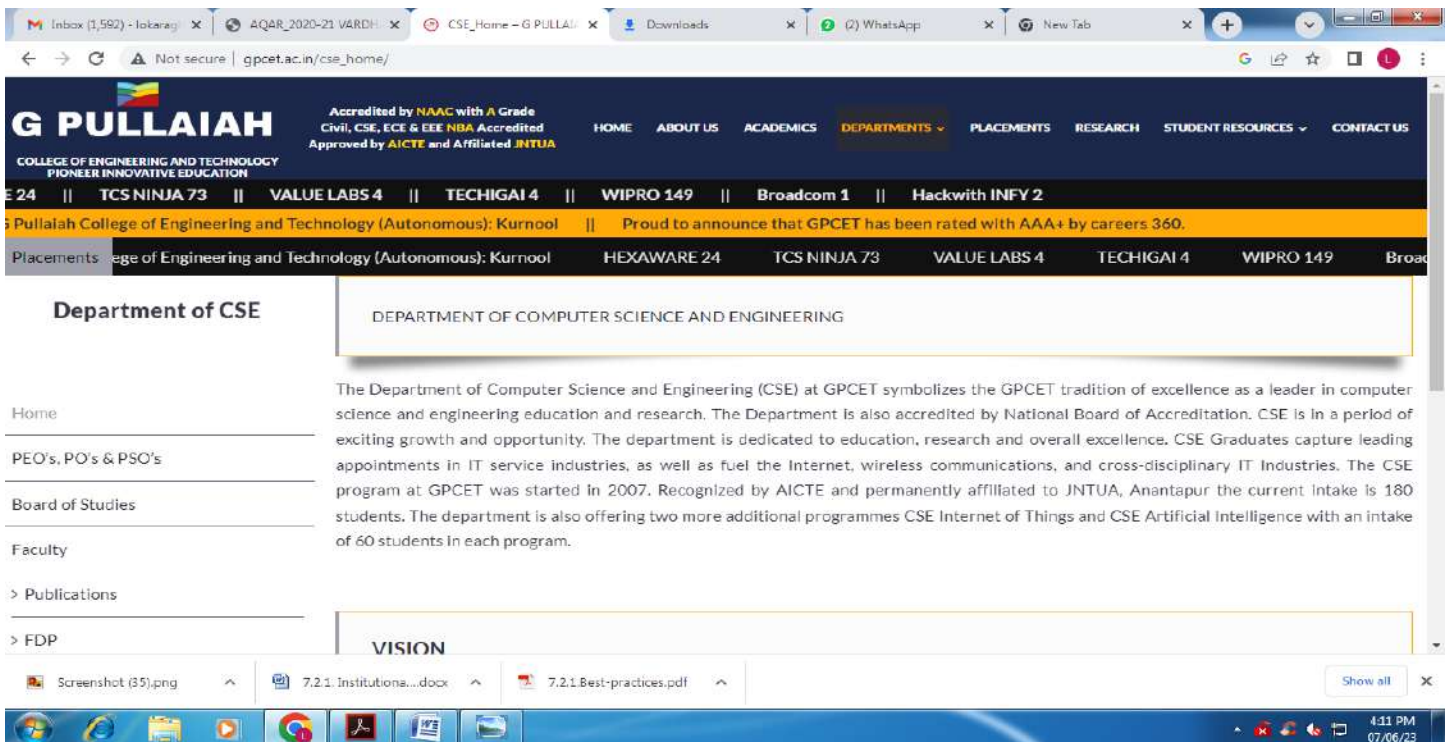
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GPCET – Home Page




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Department of EEE Faculty

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Placements

Department of ECE

ABOUT DEPARTMENT

Home

PO's PEO's PSO's

Board of Studies

Faculty

Events

Laboratories

The Department of Electronics and Communication Engineering (ECE) is one of the first departments established in 2007 for imparting state-of-the-art knowledge in Electronics and Communication Engineering. The department is supported by highly dedicated qualified faculty which include Ph.D's and pursuing Ph.D's in various fields of specialization having vast experience in both Industry and Academia. The department offers a Bachelors programme In Electronics and Communication Engineering and Masters Programme In Digital Electronics and Communication Systems (DECS). The department is intended to generate and disseminate knowledge and technologies essential to the local and global needs in the field of Electronics and Communication Engineering. The department is providing excellent opportunities for young technocrats to enhance their learning capabilities with strong skill set in Microelectronics, Communications, Signal & Image processing, Embedded Systems and IOT & Robotics. The future is full of limitless opportunities. The department is focused on building talent for the future. Therefore it has conceptualized to address the need for focused training and to produce certifications in niche domains such as IOT, ARTIFICIAL INTELLIGENCE, CISCO, DATA SCIENCE WITH PYTHON, ETHICAL HACKING, ROBOTICS etc.

The department provides ample hands on training to the students on National Instruments hardware and software (MYDAQ Virtual Instrumentation and LABVIEW), Cadence tools, Analog Discovery Kits, IOT and PCB Design. It has well established air conditioned

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Department of ECE Faculty

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Department of CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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- Board of Studies
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- Publications
- FDP



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COLLEGE OF ENGINEERING AND TECHNOLOGY

ANBA ACCREDITED NAAC A GRADE NBA ACCREDITED UGC

An Autonomous Institute
NAAC Accreditation with 'A' Grade
Accredited by NBA(CSE, ECE, EEE)
Permanent Affiliation status from JNTUA

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- PEO's, PO's & PSO's
- Board of Studies
- Curriculum Structure
- Faculty
- Events

 Dr. S. PREM KUMAR Sr. Professor & Dean, Innovation and Co-ventury	 Dr. A. SREENIVASULU Professor & HOD	 Dr. M. Sudra Kumar Professor	 C. GOFINATH Associate Professor
 C. VAMSIDHAR Associate Professor	 L. Neel Associate Professor	 Mohammed Rizaq Beligum Associate Professor	 U. Supriya Assistant Professor
			

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 Dr S Vinay Babu Associate Professor & HOD	 Dr Syed Afzal Basha Professor	 S Akhil Tej Assistant Professor	 C G Mohan Babu Assistant Professor
 A.Vinod Kumar	 Chakali Bala Hussainy	 C Thejaswini Veena Assistant Professor	

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C. Vinay
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 Dr L Jaykishan Nayak	 A Ramanjaneya Reddy	 M Sekhar	 M. Nagaraju Assistant

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 Dr. T. Sujatha	 Dr. Syeda Jeelani Basri	 Dr. C. NAGA GANESH	 S. Loka Raghavendra

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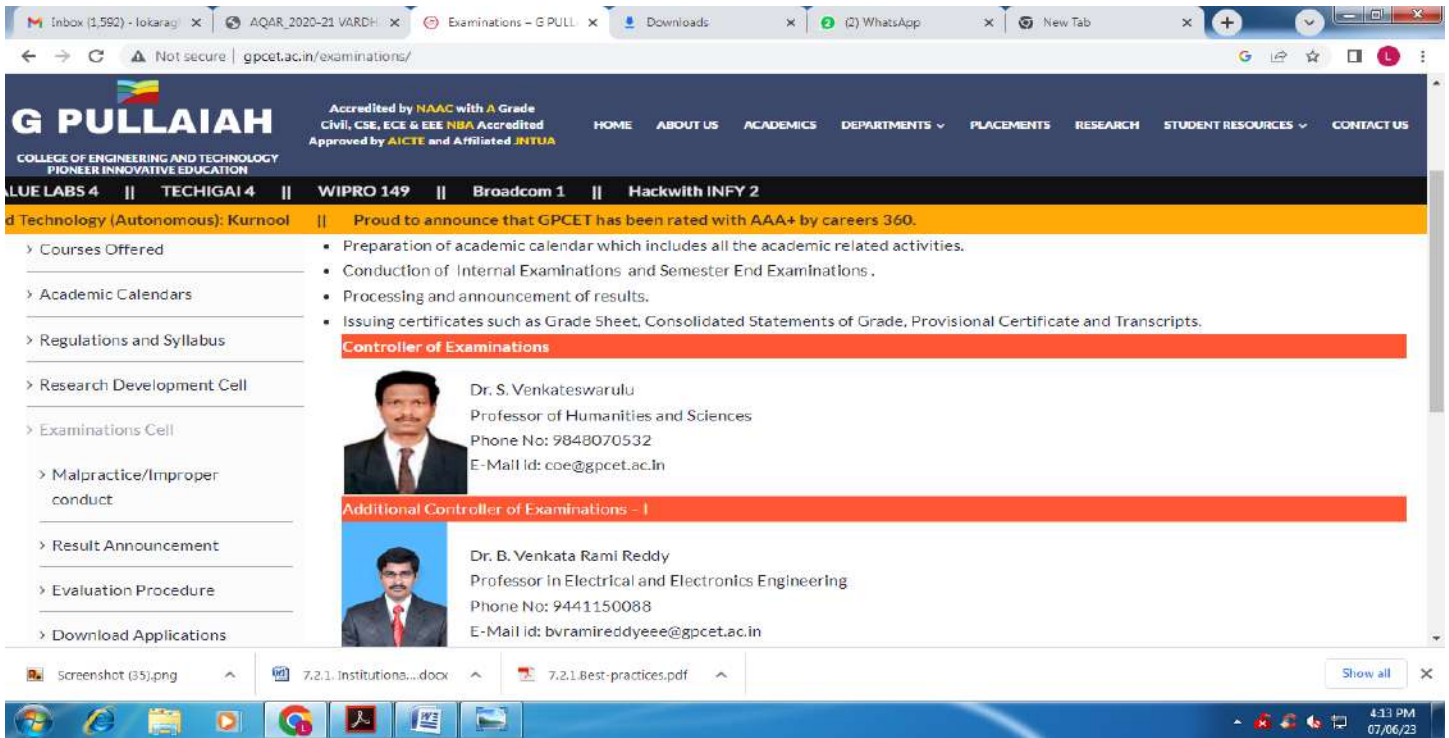
Faculty Information Portal

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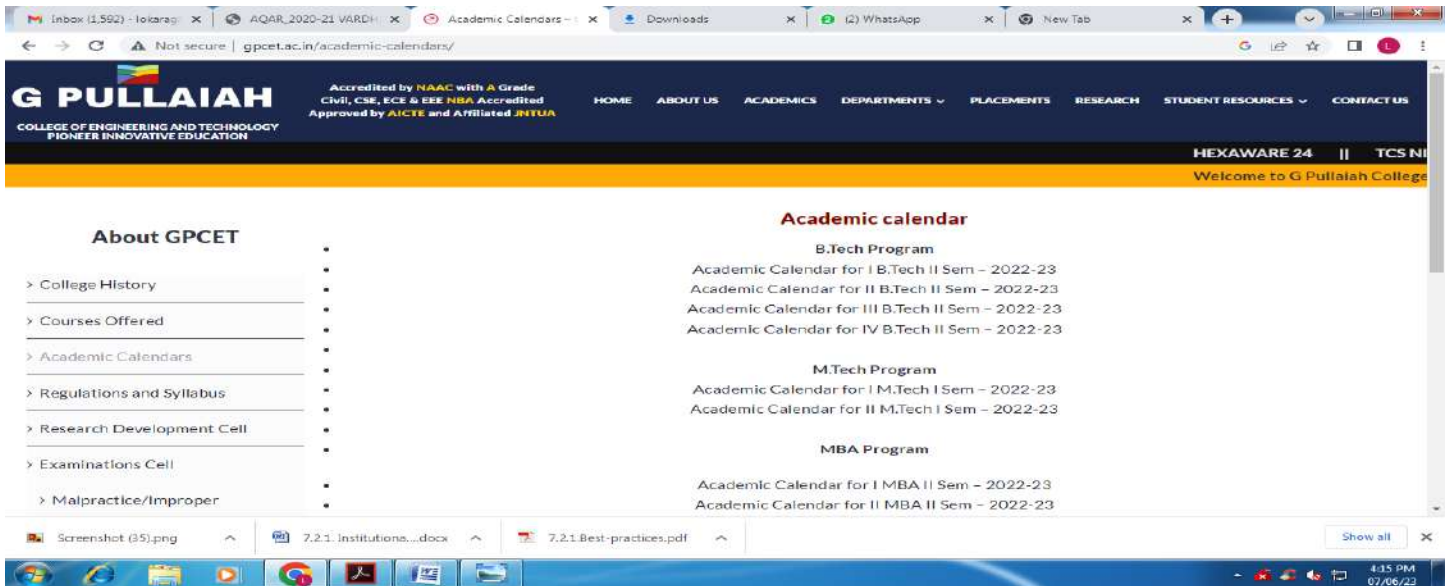
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GPCET – MODULES

EXAMINATION



The screenshot shows the 'Examinations' page of GPCET. The header includes the college logo, accreditation details (NAAC A Grade, AICTE approved), and navigation links. A sidebar on the left lists various categories like 'Courses Offered', 'Academic Calendars', and 'Regulations and Syllabus'. The main content area features a list of activities: 'Preparation of academic calendar...', 'Conduction of Internal Examinations...', 'Processing and announcement of results.', and 'Issuing certificates...'. Below this, it lists the 'Controller of Examinations' as Dr. S. Venkateswarulu and the 'Additional Controller of Examinations - I' as Dr. B. Venkata Rami Reddy, with their respective titles, phone numbers, and email addresses.



The screenshot shows the 'Academic Calendars' page of GPCET. The header is similar to the previous page. The main content area is titled 'Academic calendar' and lists the academic calendars for three programs: 'B.Tech Program' (I, II, III, and IV semesters), 'M.Tech Program' (I and II semesters), and 'MBA Program' (I and II semesters). A sidebar on the left provides navigation options under 'About GPCET'.

Home Page


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- > LearnTech Innovation
- > Self Learning
- > Innovatia - The Makers' Forge
- > Innovation and Entrepreneurship
- > Medical Center
- > Student Clubs
- > Scholarships

Self Learning

"LEARNING IS NOT ATTAINED BY CHANCE, IT MUST BE SOUGHT FOR WITH ARDOR AND ATTENDED TO WITH DILIGENCE." - ABIGAIL ADAMS

Curriculum for B.Tech Students at GPCEF:

Taskbar: Screenshot (85).png, 7.2.1.Institutions....docx, 7.2.1.Best-practices.pdf, Show all

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- Download Duplicate Marks Memo
- Download Application for CONSOLIDATED GRADES MEMORANDUM (CGM) / PROVISIONAL CERTIFICATE (PC)

Left sidebar menu:

- Governing Body
- Academic Council
- Policy Documents
- Mandatory Downloads
- Regulations and Syllabus
- Examinations
- Admission/Entrance/Placement
- Download Applications
- Academic Calendar

Footer: FIND US ON FACEBOOK Useful Links G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY

Students Portal

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Utility of ICT tools by the faculty

The following are the details of ICT tools being employed by the faculty in order to improve the Teaching and learning process

S No	Class	Branch	Topic Delivered using ICT Tools	Subject	Name of the Faculty	ICT tools used	LINKS
1	II	CE	Counters	Surveying	S Akhil Tej	Projector	https://www.youtube.com/watch?v=FH1gGMwG4Uk
2	II	CE	Concept	Hyduralic& Hyduralic Machinery	C G Mohan Babu	Projector	https://www.youtube.com/watch?v=eoXelDUn7UY
3	III	CE	Workabilty Concept	Concrete Technology	Dr S Vinay babu	Projector	https://www.youtube.com/watch?v=gxjifiRcPcoU
4	III	CE	Intersection Design	Transporati on Engineering	S Akhil Tej	Projector	https://www.youtube.com/watch?v=p6CG7NxeXPo
5	III	EEE	Loadflow solutions in power system	Power system Analysis	S.Sankara Prasad	Projector	https://www.youtube.com/watch?v=btSj4OqwZS4
6	III	EEE	Microprocessor block diagram and pindigram	Microprocessor and Microcontr ollers	Y.Sai Indira Priyadars hini	Projector	https://www.youtube.com/watch?v=0E0CLF1m2JQ
7	IV	EEE	Relays and generator protection using relays	Power system Protection	U.Chaitanya	Projector	https://www.youtube.com/watch?v=16VJyy23VcU
8	IV	EEE	load frequency control in power system	Power system Operation and Control	S.Sankara Prasad	Projector	https://www.youtube.com/watch?v=KQSQTl2EEa4
9	II	ECE	Power Amplifiers	Electronic Circuit Analysis	Dr.T.Tirupal	Projector	https://www.youtube.com/watch?v=PXLO8xDieo
10	II	ECE	Oscillators	Electronic Circuit Analysis	Dr.T.Tirupal	Projector	https://www.youtube.com/watch?v=XVS8Puf4tiw&list=PLwjK_iyK4LLCVdgBR30pSFVj-17TI_8ou
11	II	ECE	Feedback Amplifiers	Electronic Circuit Analysis	Dr.T.Tirupal	Projector	Feedback Amplifier Part-1 (Review of Feedback Concepts) - YouTube
12	II	ECE	Configarati on	Analog electronic circuits	B Eramma	Projector	https://www.youtube.com/watch?v=G-BvuL5IDLw
13	II	ECE	Rectifier	Electronic Devices	Dr T Tirupal	Projector	https://www.youtube.com/watch?v=yaUMBKjkOjg

				and Circuits			
14	II	ECE	Signal Transmission through Linear Systems	Signals and Systems	Dr N Ramamurthy	Projector	https://www.youtube.com/watch?v=cS4P8FDBNyM
15	II	ECE	Maxwell Equation	Analog Communication Systems	T Suman	Projector	https://www.youtube.com/watch?v=6WjEt8VRntY
16	II	ECE	Memory elements and their excitation functions SR	Digital Logic Design	B Eramma	Projector	https://www.youtube.com/watch?v=PW B3dn0azg8
17	III	ECE	Data Visualization using python	Python	Syed Ishrath Moin	Projector	https://youtu.be/yZTBMMdPOww
18	III	ECE	Gender roles and need of gender sensitisation	Gender Sensitisation	B.Venkatesu	Projector	https://en.wikipedia.org/wiki/Gender_role
19	III	ECE	Radiation from Small Electric Dipole	Antennas & Wave Propagation	Dr K C T Swamy	Projector	https://www.youtube.com/watch?v=qEdN0FRR5JM
20	III	ECE	Induction convolution codes	Digital Communication Systems	S Fowzia Sulthana	Projector	https://www.youtube.com/watch?v=GUPAwjz4XFo
21	III	ECE	Linear applications of op-amps	Linear Integrated Circuit Applications	G Rama Rao	Projector	https://www.youtube.com/watch?v=kiiA6WTCQn0&list=PLwjK_ikyK4LLDBB1E9MFbxGCEnmMMOAXOH
22	IV	ECE	Files	python for everyone	A.Sreevani	Projector	https://www.youtube.com/watch?v=ETvuSF-5qUo&list=PLI4OVrCFuY55ZrOMkfYNt7CQGEkskxJlj
23	IV	ECE	Modules and packages	python for everyone	N. Hari Priya	Projector	https://www.youtube.com/watch?v=Q1rRxNQXA4c
24	IV	ECE	Photo detector noise	Optical Fiber Communication	K Uma Maheswari	Projector	https://www.youtube.com/watch?v=_TP53xdr72Y
25	IV	ECE	various fiber attenuation	Optical Fiber Communication	K Uma Maheswari	Projector	https://www.youtube.com/watch?v=6gCofOzgk9I

			losses	ation			
26	IV	ECE	gunn diode characteristics	Microwave Engineerig	G Rama Rao	Projec tor	https://www.youtube.com/watch?v=C-byYQ0oH0M
27	IV	ECE	Discrete cosine transform	Digital Image Processing	T Suman	Projec tor	https://www.youtube.com/watch?v=mK9Avw7jX6E
28	IV	ECE	RF system design concepts	RF Imaged Circuits	Ms.S.Fow zia Sultana	Projec tor	https://www.youtube.com/watch?v=IXLIRNOIVNE&list=PLap02pkXxLatIFCO1_J3K2QbzrnVva95Z
29	III	CSE	google Co Lab	Machine learning	D Jayanaray ana Reddy	Projec tor	https://www.youtube.com/watch?v=6Xt6L115jSc
30	III	CSE	strategies in dataflow testing	Software testing	K.Lakshmi	Projec tor	https://www.youtube.com/watch?v=2R3iDMyl19E
31	III	CSE	Git	DevOps	Dr.M.Jahi r Pasha	Projec tor	https://www.youtube.com/watch?v=gPgRfE8r_Vg&list=PLJpiaORB7BtvFcavmdVk0aRJ5ErmMP6gZ
32	III	CSE	creational, structural and Behavioural patterns	Design Patterns	M.Sri Lakshmi	Projec tor	https://www.tutorialspoint.com/design-pattern/index.htm


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