G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous)

Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade | Accredited by NBA (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.

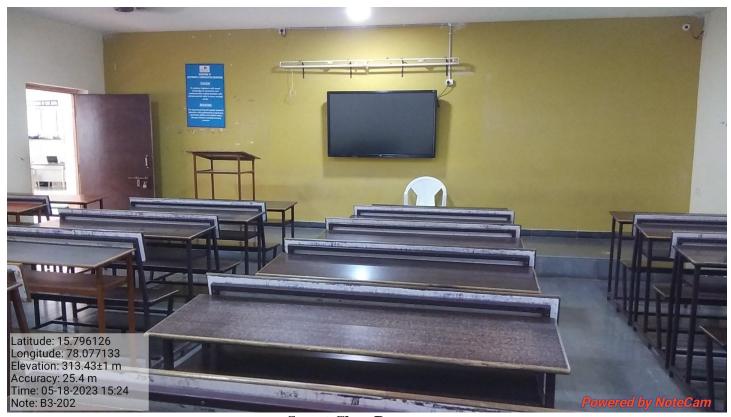
Students developing IT & Engineering products for solving existing problems or for new applications

Problems encountered and Resources required.

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

1. Flipped Class Rooms





Smart Class Room

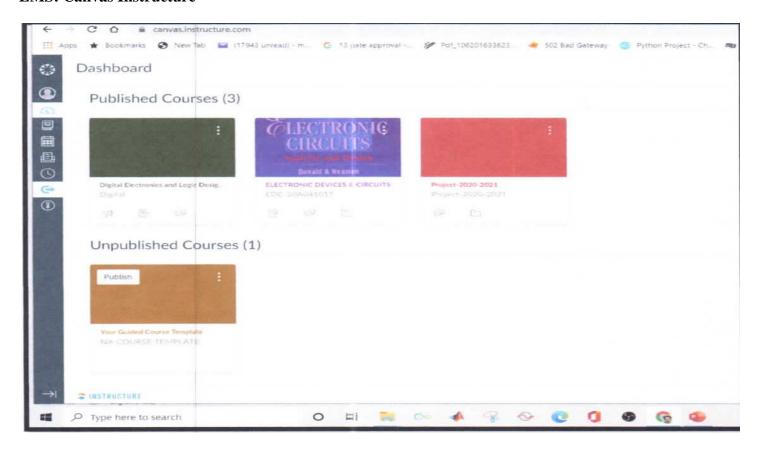


2. ICT Supporting Learning

a) Microsoft Teams

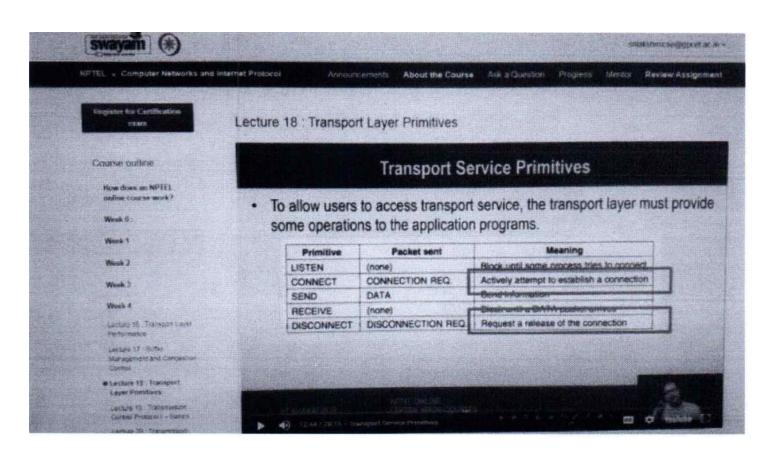


LMS: Canvas Instructure

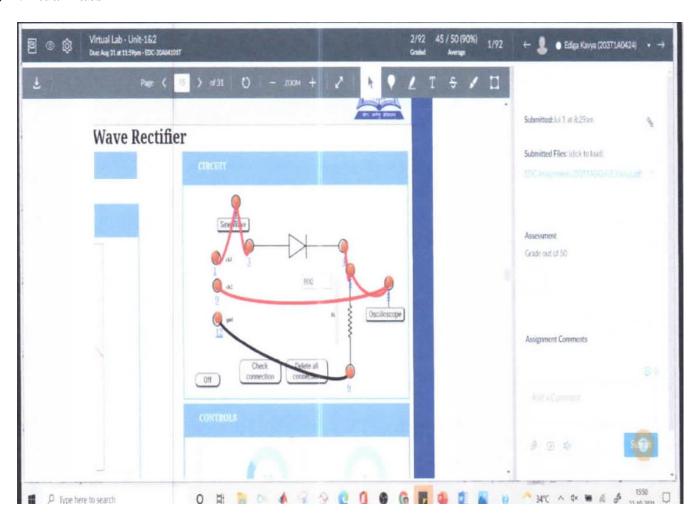


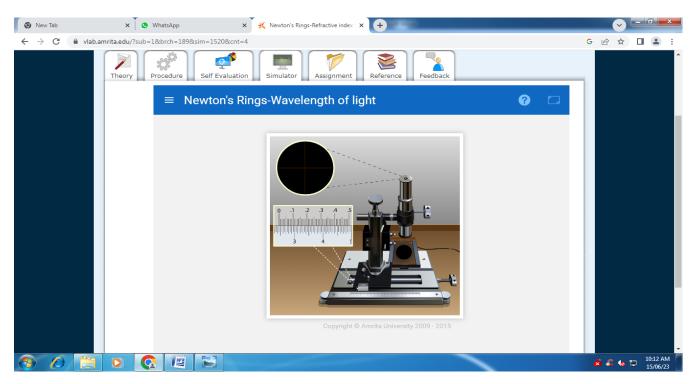
b) NPTEL/Swayam Videos





c) Virtual Labs





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INSTITUTIONAL BEST PRACTICES

Department of Electronics and Communication Engineering Academic Year 2021-22

Faculty Using ICT Tools

S No	Class	Topic Delivered using ICT Tools	Subject	Name of the Faculty	
1	=	Rectifier	Electronic Devices and Circuits	Dr T Tirupal	https://www.youtube.com/watc
2	II	BJT construction and working	Electronic Devices and Circuits	Dr T Tirupal	bjt construction and working
3	П	Signal Transmission through Linear Systems	Signals and Systems	Dr N Ramamurthy	https://www.youtube.com/watc
4	II	Maxwell Equation	Analog Communication Systems	T Suman	https://www.youtube.com/watc
5	Ш	vestigial sideband modulator	Analog Communication Systems	T Suman	https://www.youtube.com/watc
6	П	Memory elements and their excitation functions SR	Digital Logic Design	B Eramma	https://www.youtube.com/watc
7	III	Logic Gates	CMOS VLSI Design	Dr. SANDIP SWARNAKAR	https://www.youtube.com/watc
8	III	Radiation from Small Electric Dipole	Antennas & Wave Propagation	Dr K C T Swamy	https://www.youtube.com/watc
9	III	Inductionconvolation codes	Digital Communication Systems	Ms.S.Fowzia Sultana	https://www.youtube.com/watc
10	III	Linear applications of op-amps	Linear Integrated Circuit Applications	G Rama Rao	https://www.youtube.com/watc
11	IV	Photo detector noise	Optical Fiber Communication	K Uma Maheswari	https://www.youtube.com/watc
12	IV	various fiber attenuation losses	Optical Fiber Communication	K Uma Maheswari	https://www.youtube.com/watc

	13	IV	gunn diode characteristics	Microwave Engineerig	G Rama Rao	https://www.youtube.com/watc
14	14	IV	discrete cosine transform	Digital Image Processing	T Suman	https://www.youtube.com/watc
	15	IV	RF system design concepts	RF Imaged Circuits	Ms.S.Fowzia Sultana	https://www.youtube.com/watc

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.

Principal

E- Governance screen shots Login Sheets:

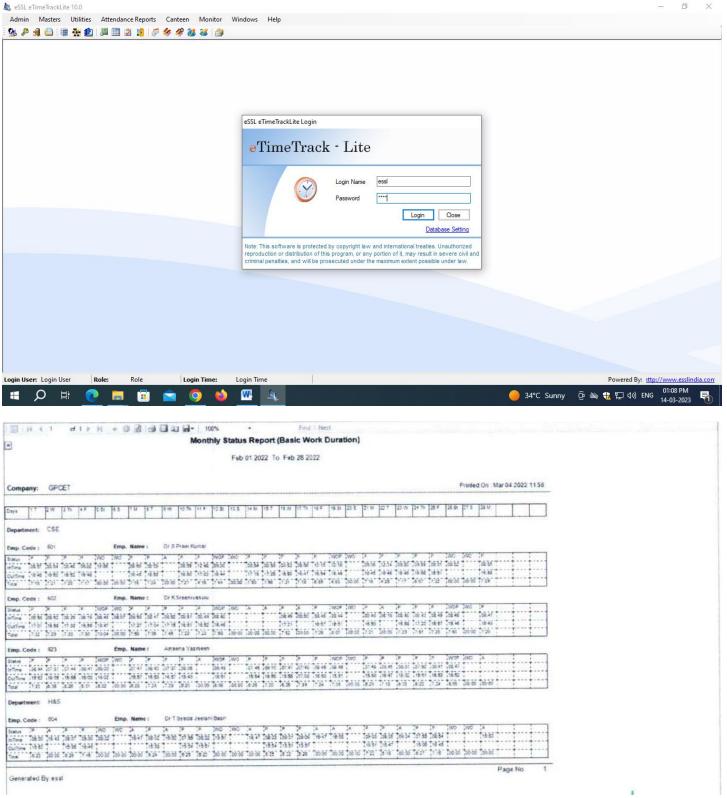
G Pullaiah College of Engineering and Technology has ERP software which covers the following areas of operation

The screen shots E- Governance software as follows

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

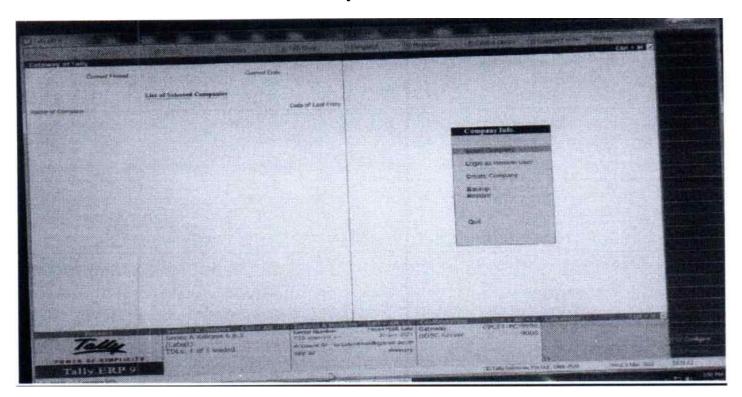
S No	E- Governance area	Screen shots Description
		ERP Home page
1	Administration	ERP Login page
		ERP Modules
2.	Finance and Accounts	ERP Home page (Tally)
2		ERP Login page (Tally)
	Student	ERP Login page (Digital campus)
3	Administration and Support	ERP Modules (Digital campus)
3		ERP Home page (gpcet.ac.in)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

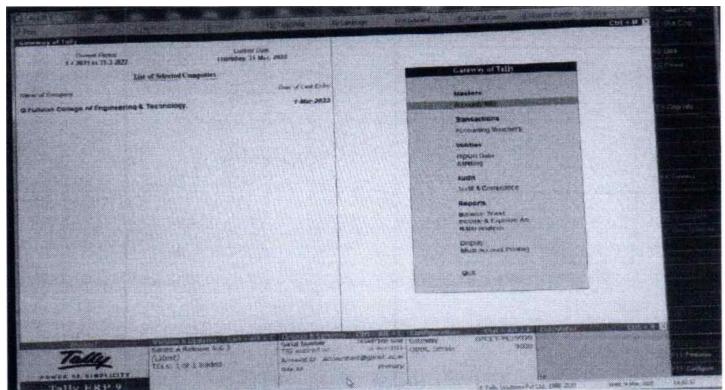
Concept (Bio Metric)



Concept Home page & Login page

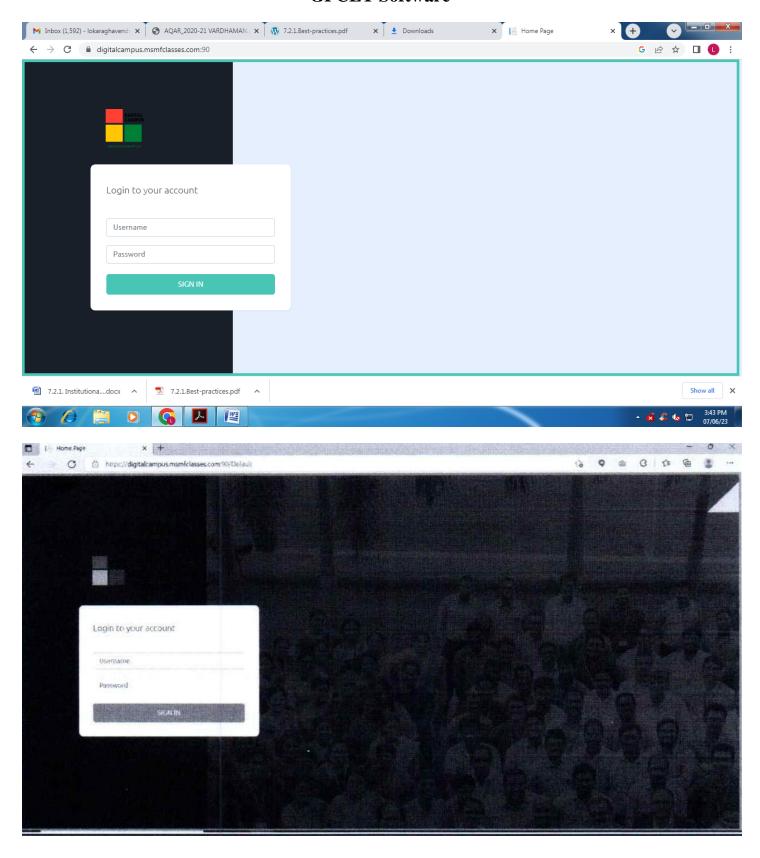
Tally Software

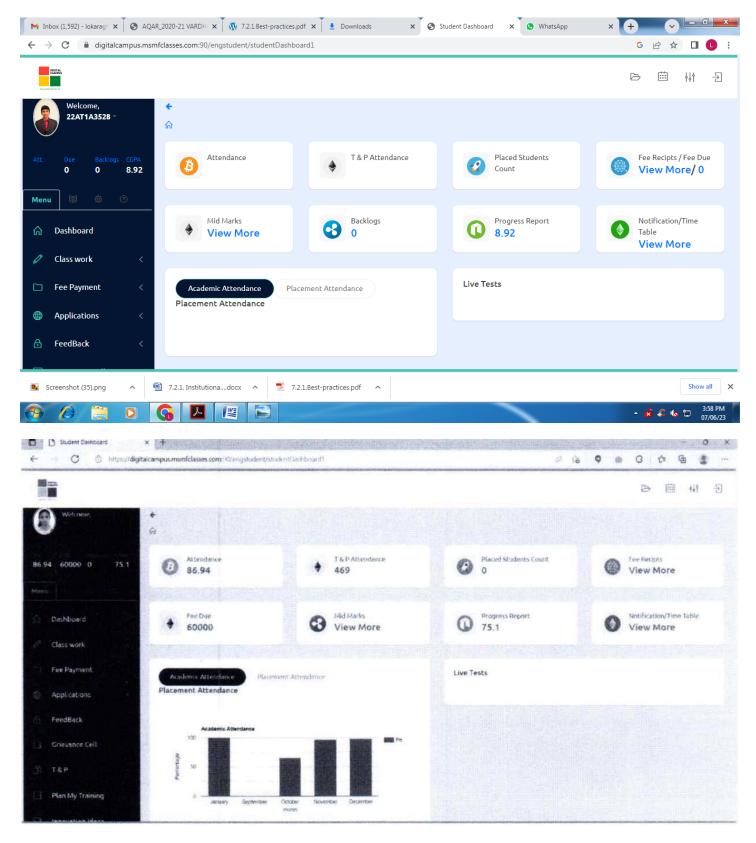




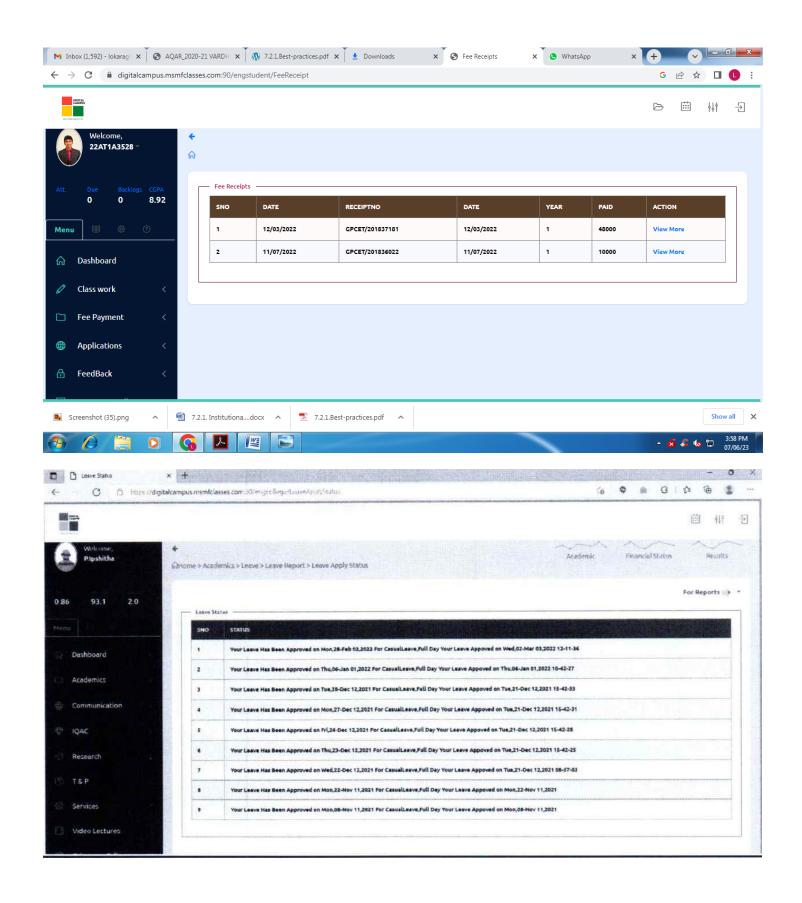
Tally Home Page

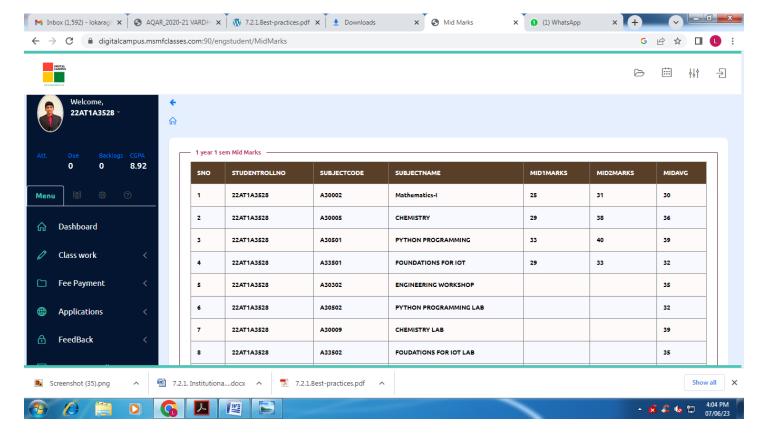
GPCET Software





Digital campus (Home Page)

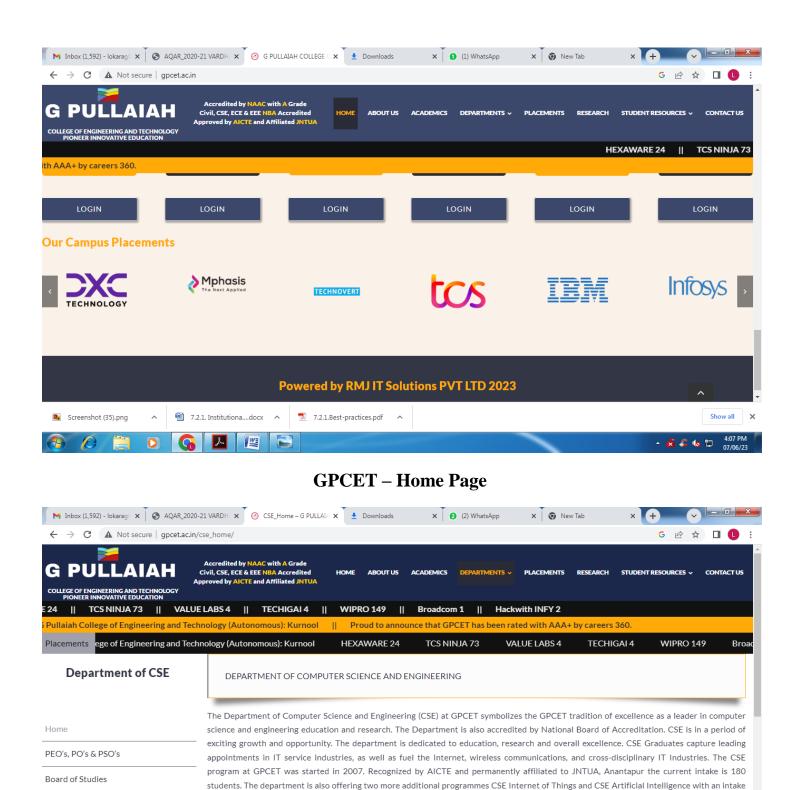




Digital campus – MODULES

SMART CAMPUS





of 60 students in each program.

7.2.1.Best-practices.pdf

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VISION

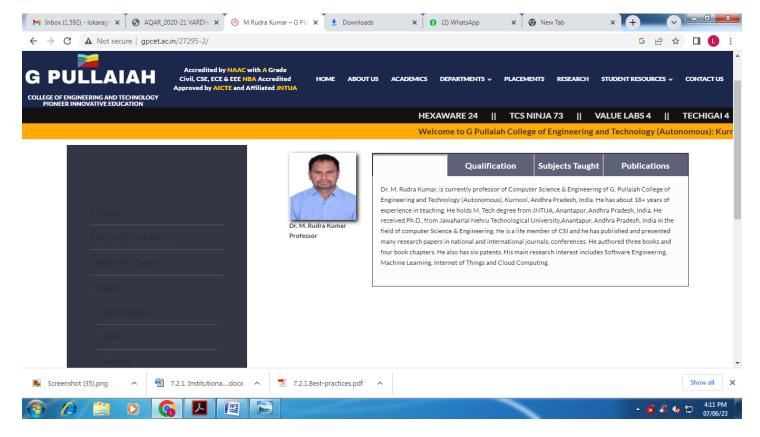
W

Faculty

> FDP

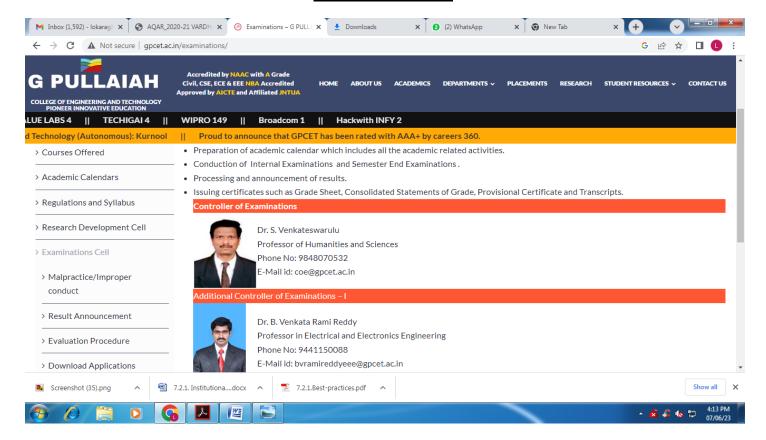
> Publications

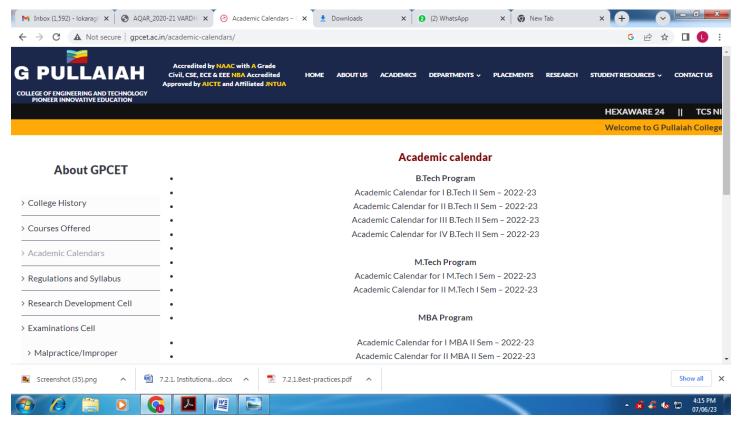
Screenshot (35).png



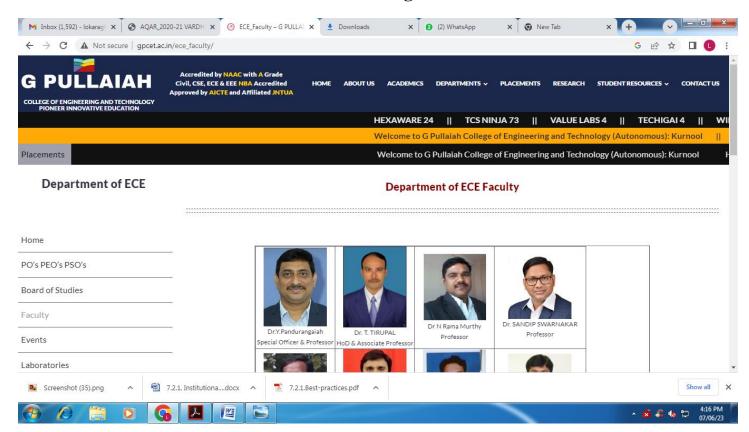
GPCET - MODULES

EXAMINATION



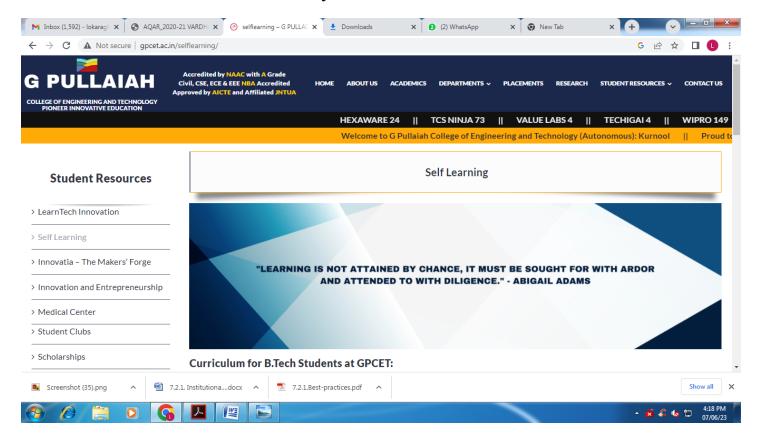


Home Page





Faculty Information Portal





Students Portal

No.: Receipt No./6305

DELNET- Developing Library Network

Jawaharlal Nehru University Campus Nelson Mandela Road, Vasant Kunj State Name: Delhi, Code: 07 New Delhi-110070

Receipt

Received with thanks from: G. PULLAIAH COLLEGE OF ENGG. & TECH.

NANDIKOTKUR ROAD

KURNOOL-518452

[DELNET MEM NO. IM-6533]

: Indian Rupees Thirteen Thousand Five Hundred Seventy Only

The sum of

Remarks

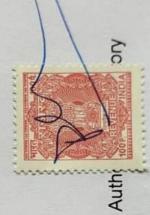
By

G. PULLAIAH COLLEGE OF ENGG. & TECH.; Union Bank of India (India)

000199595604 19-Jan-2021 Inter Bank Transfer

13.570.00

AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL MEMBERSHIP FEES FOR THE PERIOD 20.01.2021 TO 19.01.2022





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU -515002, ANDHRA PRADESH, INDIA

ACKNOWLEDGEMENT

RECEIPT OF PAYMENT TOWARDS JNTUA CONSORTIA FOR E-RESOURCES

This is to acknowledge the receipt of payment Rs. 14,750/- (Rupees Fourteen Thousand Seven Hundred and Fifty Only) from G.Pullaiah College of Engineering & Technology (Autonomous), Pasupala (V), Nandikotkur Road, Kurnool Dist-518 452. on date 11-01-2021 towards JNTUA Consortia for e-Resources for subscribing to the J-GATE Engineering & Technology with resource sharing facility for the year 2021.

2 7 FEB 2021 PROVINCE OF THE PURE AND THE PU

Signature of the Registrar with Seal

REGISTRAR J.N.T.U. Anantapur ANANTAPURAMU-515002



Access to J-Gate for G.Pullaiah College of Engineering and Technology(Autonomous)

1 message

support@jgateplus.com <support@jgateplus.com>

Tue, Feb 2, 2021 at 5:00 Pl

To: library@gpcet.ac.in, nsm@informaticsglobal.com, dirap@jntua.ac.in, shylaja@informaticsglobal.com

Hello B Durga prasad .,

Your access to J-Gate Discovery Platform is renewed.

Access Period: 1/2/2021 to 31/1/2022

Access Type: Subscription

Package Subscribed : Engineering & Technology

Access Credentials	Users	Library Admin
URL:	https://jgateplus.com/	https://jgateplus.com/admin
Username:	gpceuser	gpceadmin
Password:	gpceuser848814915	gpceadmin264033930

Please do not circulate LIBRARY ADMIN Access Credentials among end users.

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We understand that reasonably a lot of investment goes in to subscription of your library resources, therefore visibility and usage is a prime concern for the library. J-Gate helps to increase the usage and visibility of your library subscribed journal resources among your students, faculties and researchers.

- 1. Register All Your Static IPs in J-Gate for easy and authenticated access by users of your institution.
- 2. Integrate "Journal Discovery Search Box" in Your Library Website for visibility and easy accessibility of library subscribed resources. Refer the document "Search Box Guide" with Steps to integrate in your website.
- 3. Send all your Library Subscribed Journals/Book Series/Conference Proceeding Holding details to configure single platform discovery through J-Gate. Fill the attached Excel File "Library Holdings" and email to jcoordinator@-informaticsglobal.com

Please find attached a draft email for communicating J-Gate access to users on behalf of your library.

Email Address for Any Queries related to J-Gate: jcoordinator@informaticsglobal.com

We look forward to your earnest help and efforts towards increasing the usage and visibility of your library subscribed resources.