## 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:

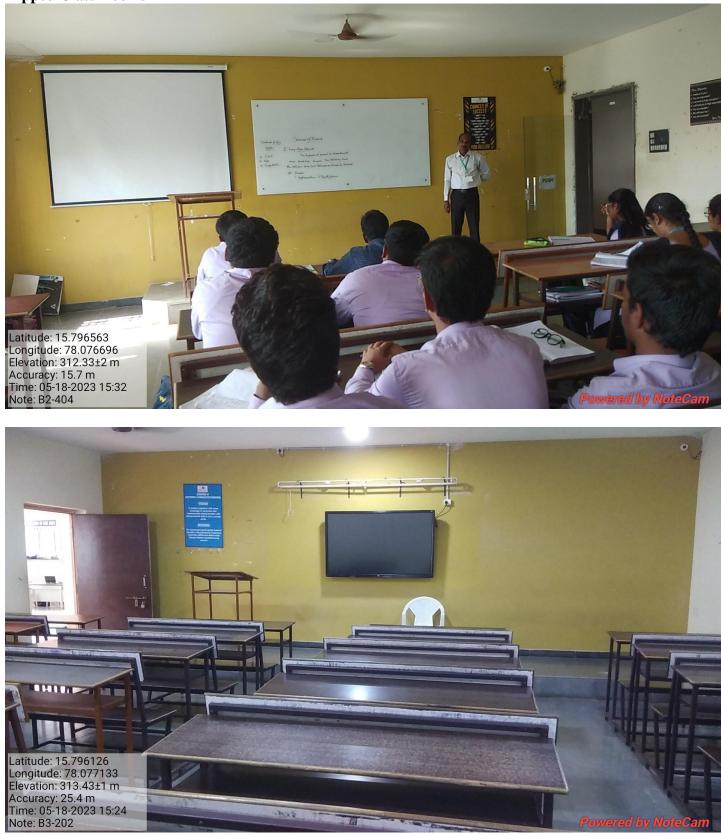
More and more students participating in Coding and IoT design competitions.

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



1.1 **Smart Class Room** 

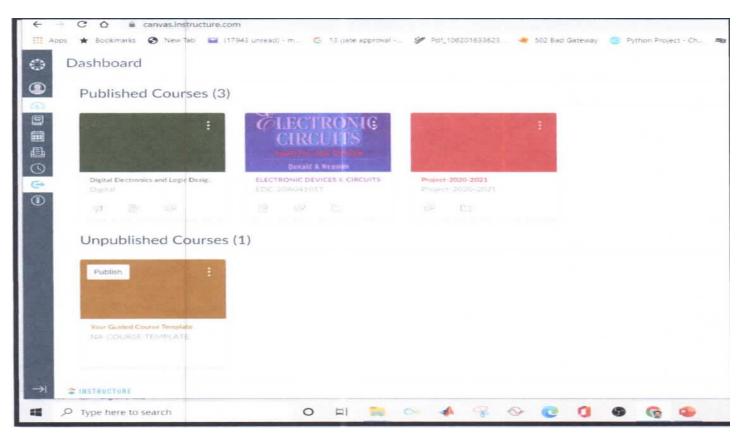


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## 2. ICT Supporting Learninga) Microsoft Teams

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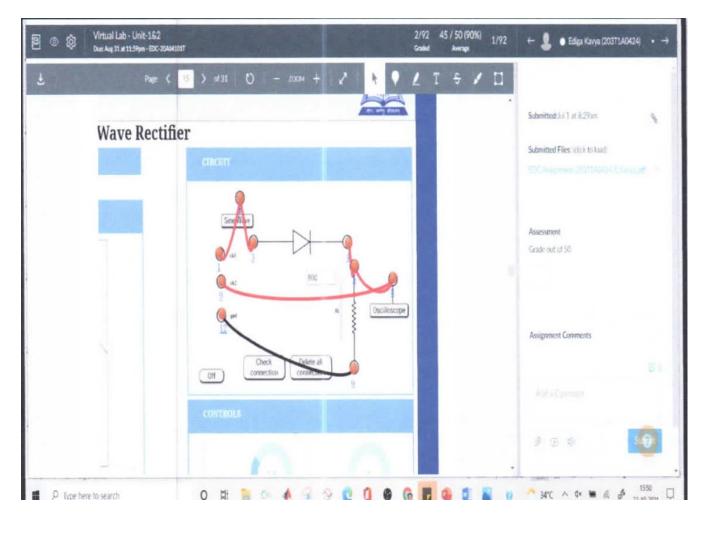


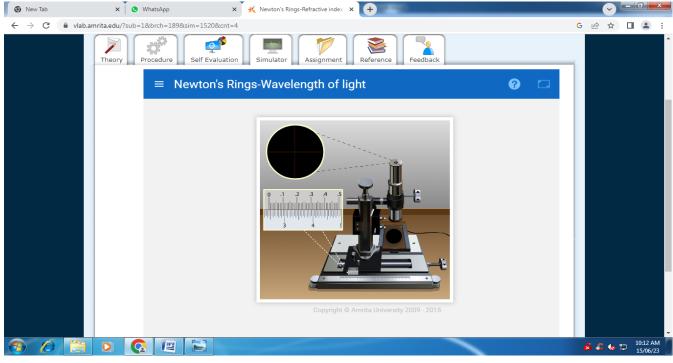
#### b) NPTEL/Swayam Videos



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#### 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	П	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	Π	Signal Transmission through Linear Systems	Signals and Systems	Dr N Ramamurthy	https://www.youtube.com/watc
4	Π	Maxwell Equation	Analog Communication Systems	T Suman	https://www.youtube.com/watc
5	П	vestigial sideband modulator	Analog Communication Systems	T Suman	https://www.youtube.com/watc
6	II	Memory elements and their excitation functions SR	Digital Logic Design	B Eramma	https://www.youtube.com/watc
7	111	Logic Gates	CMOS VLSI Design	Dr. SANDIP SWARNAKAR	https://www.youtube.com/watc
8	==	Radiation from Small Electric Dipole	Antennas & Wave Propagation	Dr K C T Swamy	https://www.youtube.com/watc
9	111	Induction convolation 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	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

Title of the Practice: <u>e- Governance</u>

#### **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 ofdigital 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 <u>www.gpcet.ac.in</u>.

#### **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	ERP Modules (Digital campus)
3	Support	ERP Home page (gpcet.ac.in)
		ERP Modules (gpcet.ac.in)
4	Examination	ERP Login page
4	Examination	ERP GPCET Portal

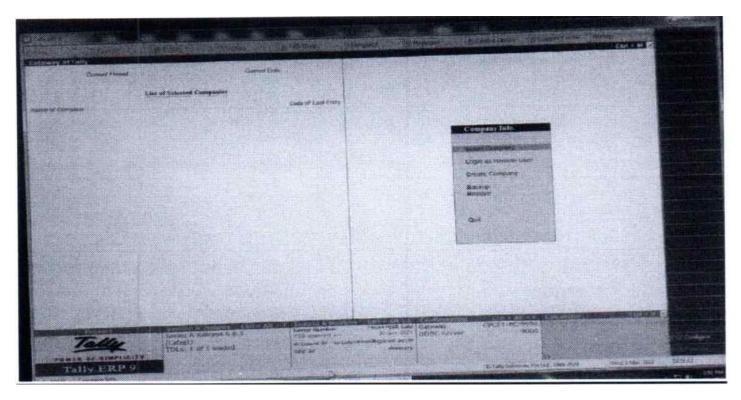
## **Concept (Bio Metric)**

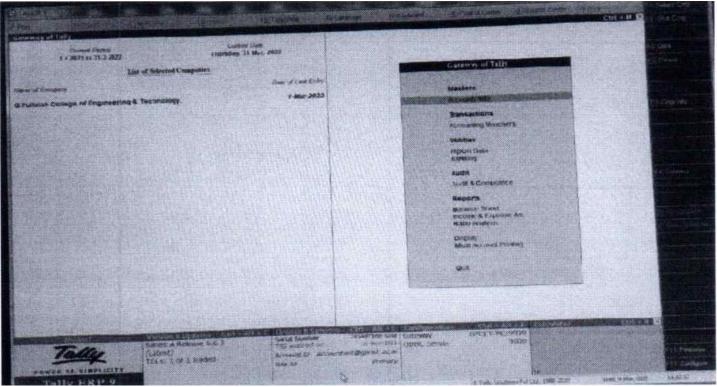
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Concept Home page & Login page

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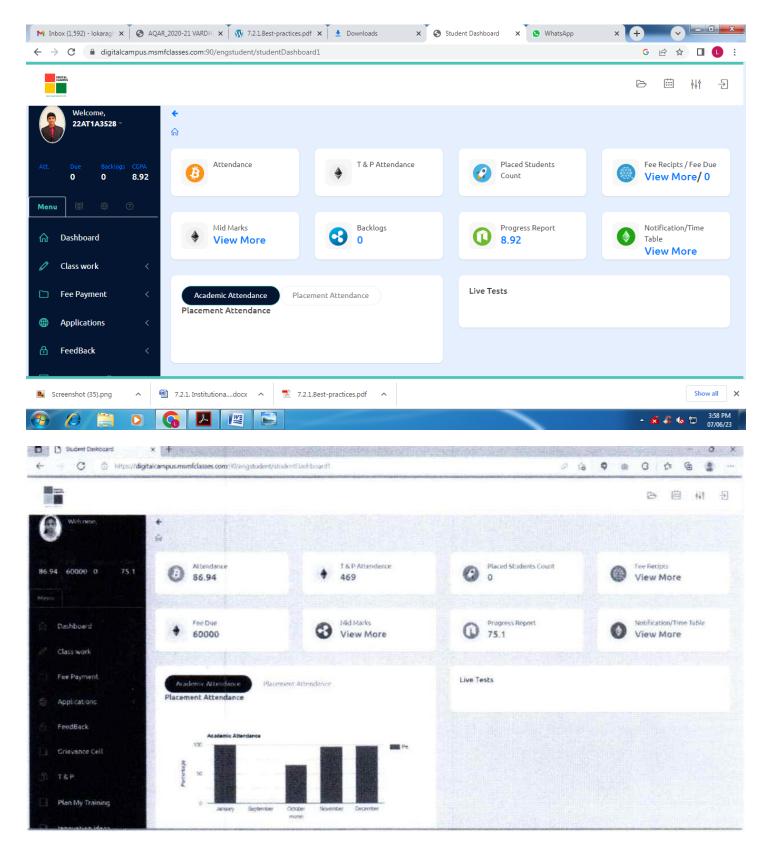




**Tally Home Page** 

## **GPCET Software**

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**Digital campus (Home Page)** 

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## **Digital campus – MODULES**

## **SMART CAMPUS**



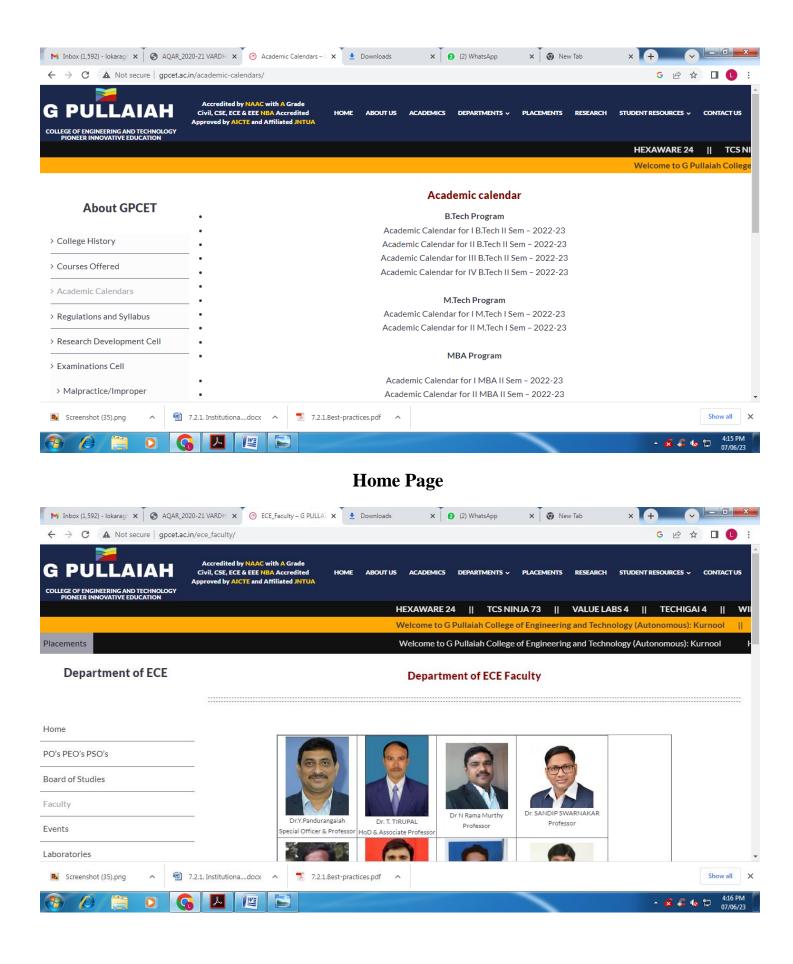
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**GPCET – MODULES** 

## **EXAMINATION**

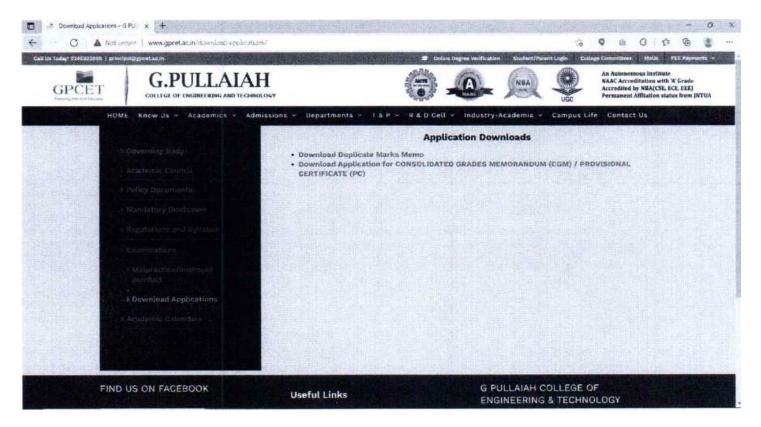
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#### **Faculty Information Portal**

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Student Resources	Self Learning			
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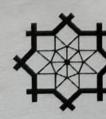


**Students Portal** 

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No.:

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Dated 19-Jan-2021



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

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Indian Rupees Thirteen Thousand Five Hundred Seventy Only Received with thanks from : G. PULLAIAH COLLEGE OF ENGG. & TECH. [DELNET MEM NO. IM-6533] NANDIKOTKUR ROAD KURNOOL-518452 The sum of

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

Remarks

By

00199595604 19-Jan-2021 13,570.00

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



\*\*₹ 13,570.00/-



## 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.

INT UNIVERSIT EGIS FEB 2021 27 ANTHAPURAMU

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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

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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.

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

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