

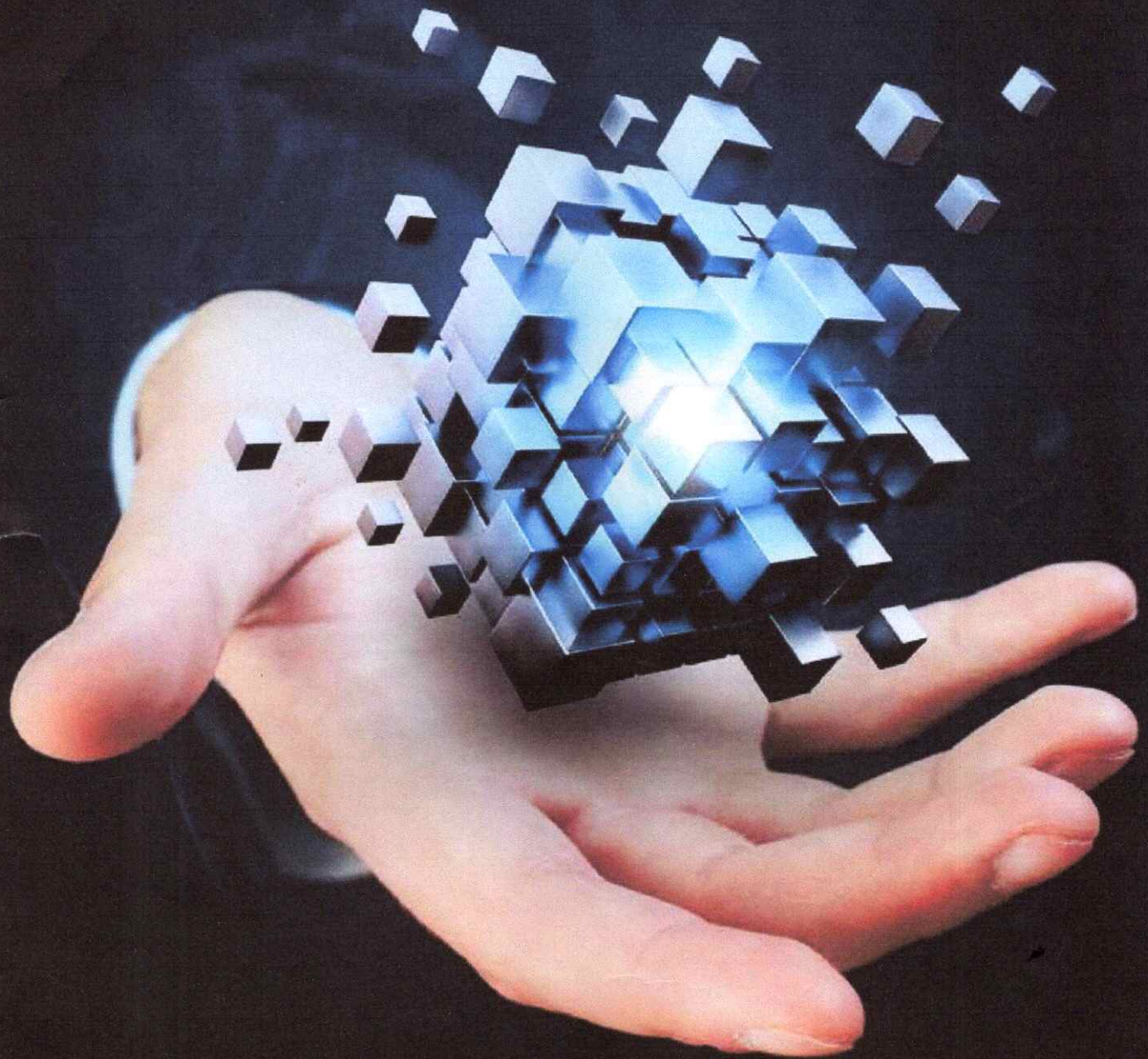


**NARASARAOPETA**  
**ENGINEERING COLLEGE**  
**(AUTONOMOUS)**

# **ERP Document**



# ERP Document Management



## CoE Process Flow Index

### Stages:

- Initial Setups
- Pre examination
- During examination
- Post examination

#### 1. Regulation:

- a. Create Passing conditions of the exam subject.
- b. Classify the graduation class details.
- c. Configure the grading system followed.
- d. Mapping the Regulation and passing condition to the exam subject.

#### 2. Student Admission:

- a. Create Admission schedule with regulation mapping.
- b. Admit the student to the program

#### 3. Rule Configuration:

##### a. Exam rule configuration:

- i. Set the exam rule condition for each program.

##### b. Promotion rule configuration:

- i. Set the promotion rule condition for each program

#### 4. Subject Mapping:

- a. Configure the Mandatory subject for the each semester.
- b. Configure the group of elective papers for the semester.
- c. Select the elective papers in set elective screen

#### 5. Grading system:

- a. Create the different grades and configure in the grade system.

### Pre examination:

#### 6. Define examination:

- a. Create the examination name for internal, external and final in examination screen.





- b. Configure the subjects for internal, external and final in define exam screen.

**7. Exam application:**

- a. Generate the exam application for
  - i. Regular only
  - ii. Arrear only
  - iii. Regular and Arrear

**8. Examination Fees:**

- a. Generate the Examination fees for each student automatically.

**9. Automatic Time Table:**

- a. Configure the dates and gaps for examination.
- b. Generate the Automatic time table.

**10. Hall ticket:**

- a. Mark the ineligibility student.
- b. Generate the hall ticket for eligible student.

**During Examination:**

**11. CoE Reports:**

- a. Session based report.
- b. Nominal roll report. Answer cover report.
- c. Missing entry report etc...

**12. Seating Allocation:**

- a. Create the seating allocation for each subject.
- b. Generate the various reports ( Index report, Question paper index, attendance sheet and layout report)

**13. Bundle management (Exam Attendance sheet):**

- a. Generate the exam attendance sheet
- b. Generate the bundle number.

**14. Exam Attendance:**

- a. Mark the exam attendance for each subject.
- b. Mark the exam malpractice student.

**15. Answer Script Cover:**

- a. Dummy number label format.
- b. Answer sheet front cover.
- c. Manually mapping the Dummy number by scanning barcode.





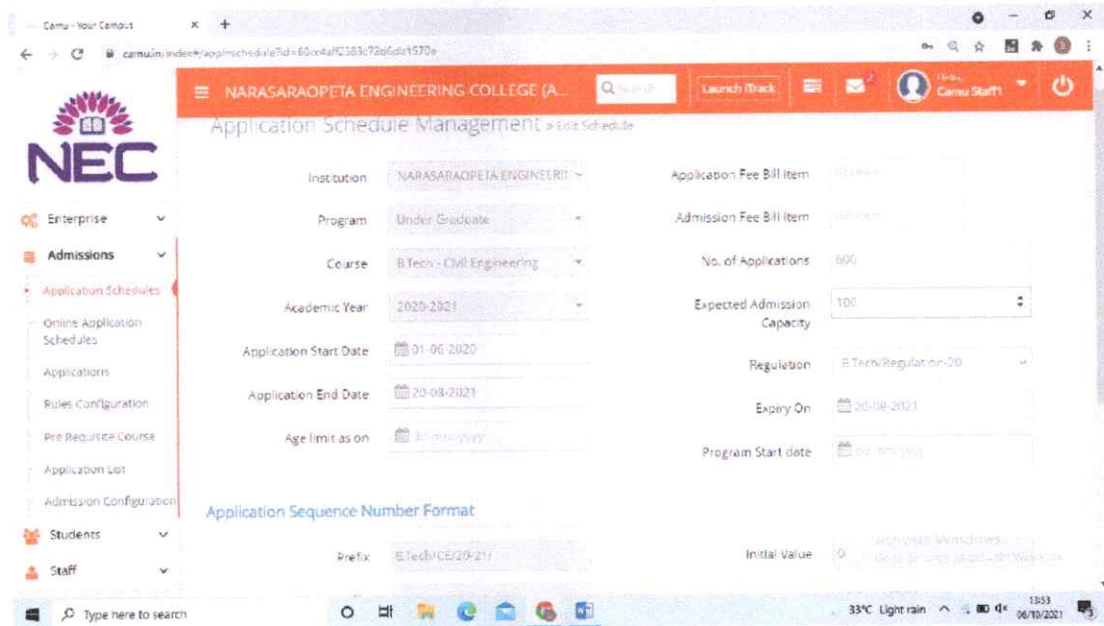
**Post Examination:**

- 16. Evaluation Sheet:**
  - a. Various type of evaluation sheet can be generated.
- 17. Dual mark Entry:**
  - a. Single operator mark entry and New cover number generation.
  - b. Dual operator process.
- 18. Finalize the Terminal examination and result process:**
  - a. Identify the missing mark entry.
  - b. Finalize the examination.
  - c. Generate the Result
- 19. Result Summary ( Passing board reports):**
  - a. Generate the Declaration report.
  - b. Generate the result summary for passing board with subject level moderation.
- 20. Moderation:**
  - a. Program level moderation.
    - i. Program level with maximum Subject pass.
  - b. Subject level Moderation.
    - i. Subject level with maximum subject pass.
- 21. Result announcement:**
  - a. Result publish to student through MYCAMU.
- 22. Revaluation process:**
  - a. Revaluation request.
  - b. Revaluation result process.
- 23. CGPA calculation:**
  - a. Schedule the CGPA process for the examination.
- 24. Mark statement:**
  - a. Generate the mark statement for the each examination.
- 25. Consolidate statement | Degree Statement:**
  - a. Configure the Course completion details for each courses in course completion screen.
  - b. Generate the degree certificate.
  - c. Generate the Consolidate report.
- 26. Student promotion rule process:**
  - a. Promote the student next semester or make graduate.



## CoE Process flow and Screen Chat

1. Admit the student based on the regulation which is followed in the university.

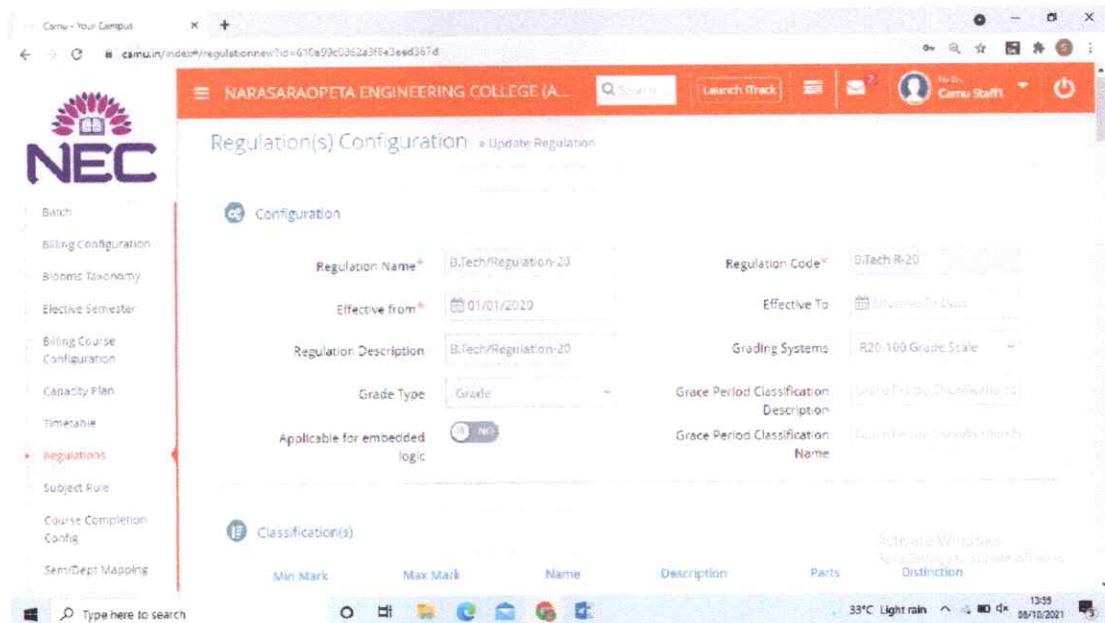


The screenshot shows the 'Application Schedule Management' page in the NEC system. The left sidebar contains navigation options like 'Enterprise', 'Admissions', 'Students', and 'Staff'. The main content area is titled 'Application Schedule Management' and includes a search bar and a 'Launch Track' button. Below this, there are several form fields for configuring an application schedule:

- Institution:** NARASARAOPETA ENGINEERING COLLEGE (A...)
- Program:** Under Graduate
- Course:** B.Tech - Civil Engineering
- Academic Year:** 2020-2021
- Application Start Date:** 01-06-2020
- Application End Date:** 20-08-2021
- Age limit as on:** 15-09-2021
- Application Fee Bill Item:** 000000
- Admission Fee Bill Item:** 000000
- No. of Applications:** 500
- Expected Admission Capacity:** 100
- Regulation:** B.Tech/Regulation-20
- Expiry On:** 20-08-2021
- Program Start date:** 01-09-2021

At the bottom, there is a section for 'Application Sequence Number Format' with fields for 'Prefix' (B.Tech/CE/20-21/) and 'Initial Value'.

2. Configure the rules of regulation in the system such as Subject passing conditions, Course Classification, System of examination ( Mark or Grade) etc...



The screenshot shows the 'Regulation(s) Configuration' page in the NEC system. The left sidebar contains navigation options like 'Batch', 'Billing Configuration', 'Blotoms Takeaway', 'Elective Semester', 'Billing Course Configuration', 'Capacity Plan', 'Timesahie', 'Regulations', 'Subject Rule', 'Course Completion Confa', and 'Sem/Diapt Mapping'. The main content area is titled 'Regulation(s) Configuration' and includes a search bar and an 'Update Regulation' button. Below this, there are several form fields for configuring a regulation:

- Regulation Name:** B.Tech/Regulation-20
- Regulation Code:** B.Tech-R-20
- Effective from:** 01/01/2020
- Effective To:** 31/08/2021
- Regulation Description:** B.Tech/Regulation-20
- Grading Systems:** R20-100 Grade Scale
- Grade Type:** Grade
- Grace Period Classification Description:** (Grade) Pass (Classification)
- Grace Period Classification Name:** (Grade) Pass (Classification)
- Applicable for embedded logic:**

At the bottom, there is a table for 'Classification(s)' with columns for 'Min Mark', 'Max Mark', 'Name', 'Description', and 'Parts'.

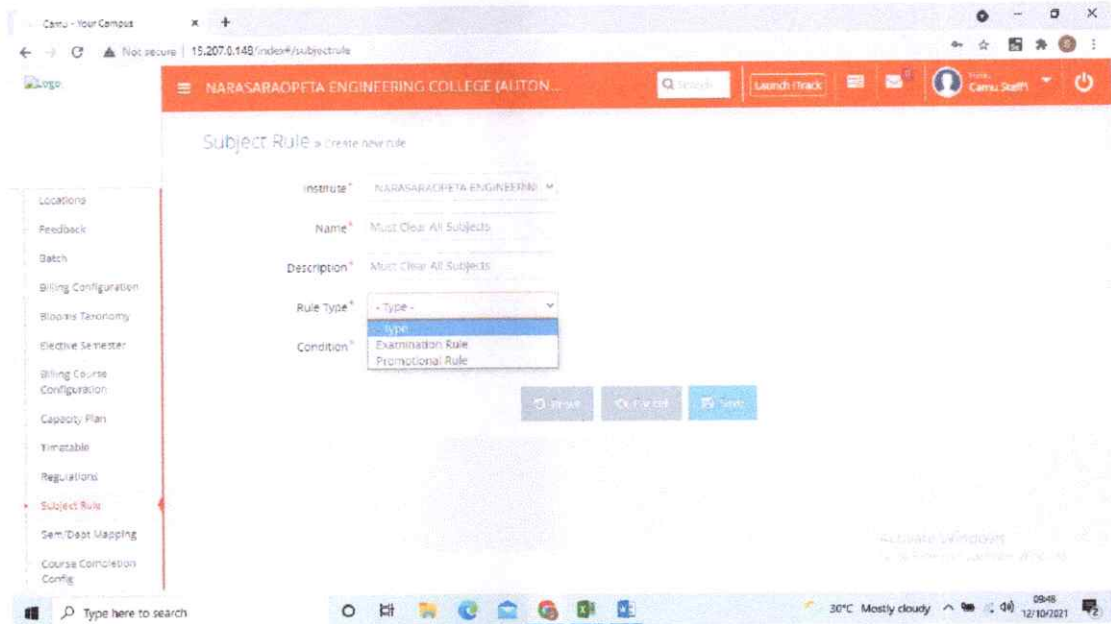
  
**IQAC**

  
**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
**NARASARAOPET - 522**  
**Guntur (Dist), A.P.**



### 3. Configure the Promotion rules and examination rules in the system.

i)



**Subject Rule** > create new rule

Institute: NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

Name: Must Clear All Subjects

Description: Must Clear All Subjects

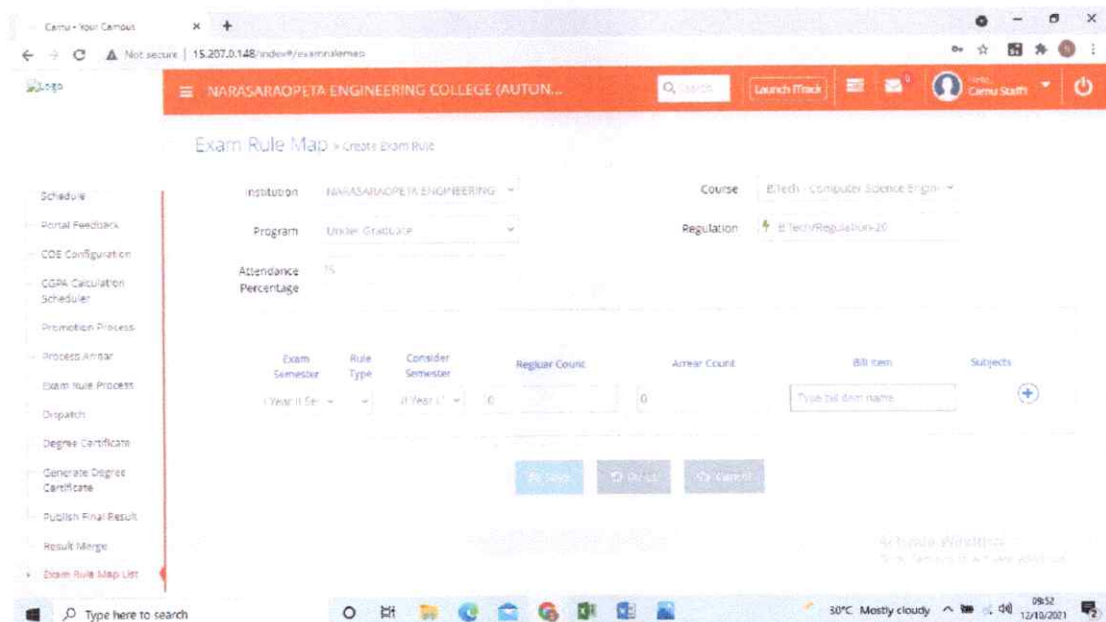
Rule Type: **Examination Rule**

Condition: **Examination Rule**

Buttons: Save, Cancel, Type

Left sidebar menu items: Locations, Feedback, Batch, Billing Configuration, Blooms Taxonomy, Elective Semester, Billing Course Configuration, Capacity Plan, Timetable, Regulations, **Subject Rule**, Sem/Dept Mapping, Course Completion Config.

ii)



**Exam Rule Map** > create Exam Rule

Institution: NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

Course: B.Tech - Computer Science Engineering

Program: Under Graduate

Regulation: B.Tech/Regulation-20

Attendance Percentage: 75

Exam Semester	Rule Type	Consider Semester	Regular Count	Attnear Count	Bill Item	Subjects
1 Year II Sem	1 Year I Sem	0	0		Type bill item name	+

Buttons: Save, Cancel, Create

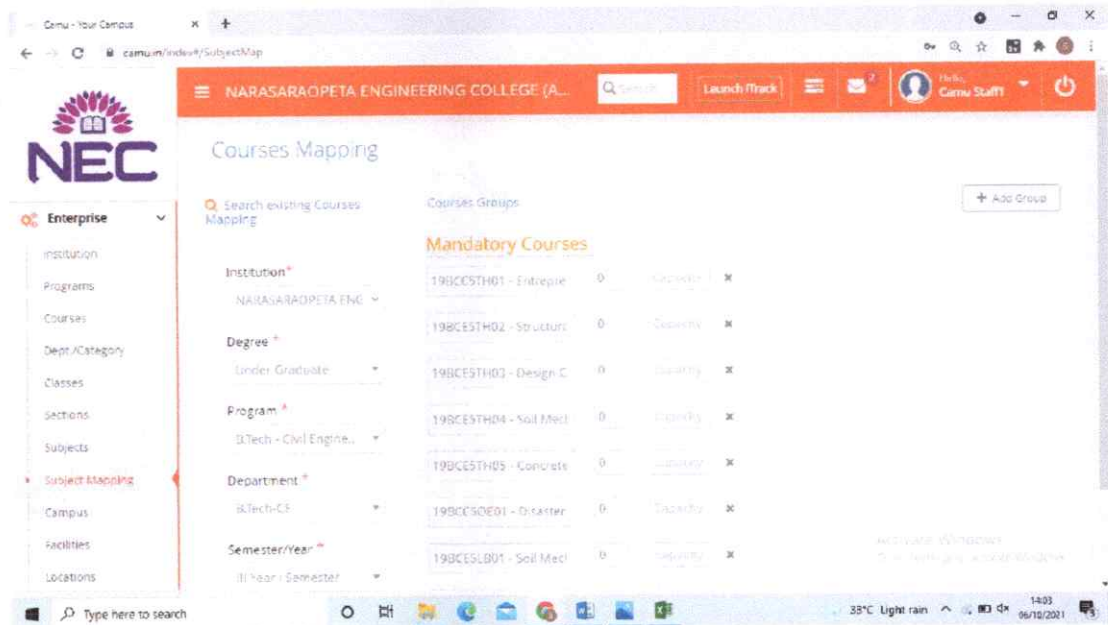
Left sidebar menu items: Schedule, Portal Feedback, COE Configuration, CGPA Calculation Scheduler, Promotion Process, Process Annual, Exam Rule Process, Dispatch, Degree Certificate, Generate Degree Certificate, Publish Final Result, Result Merge, **Exam Rule Map List**



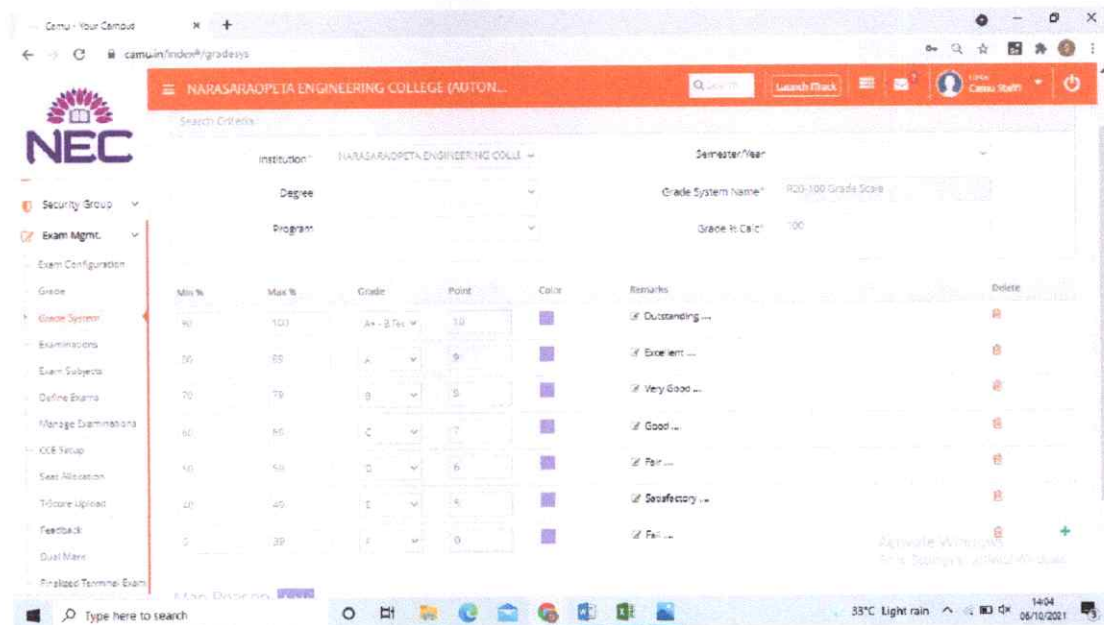
**IQAC**

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**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)**  
**NARASARAOPETA - 522 001,**  
**Guntur (Dist.), A.P.**

4. Configure the subjects for each semester and their elective papers.



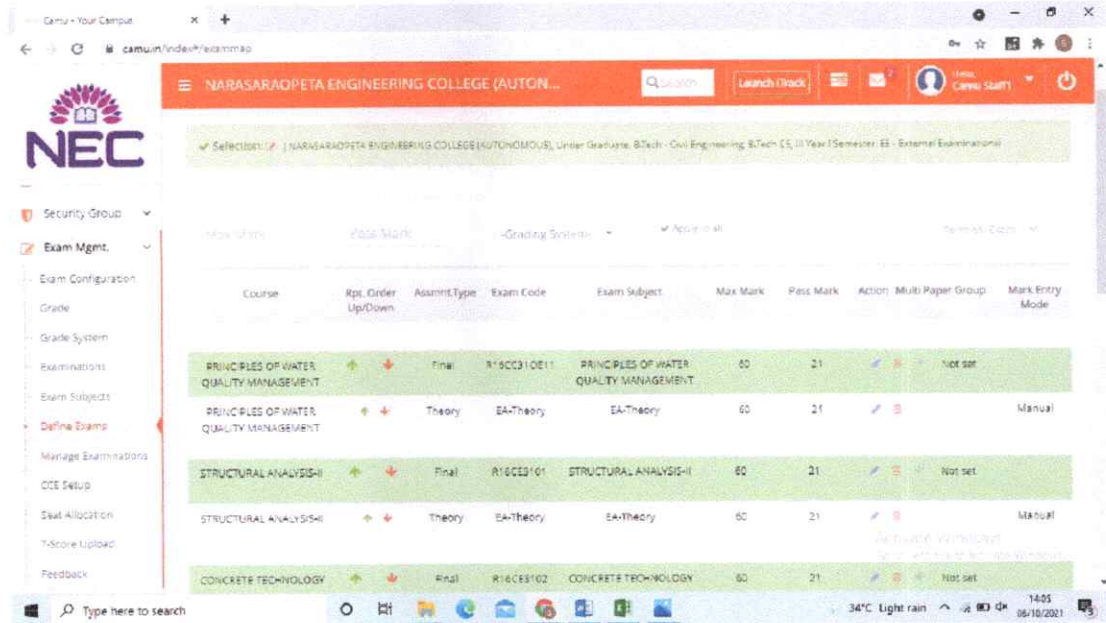
5. Configure the Grade system classification.



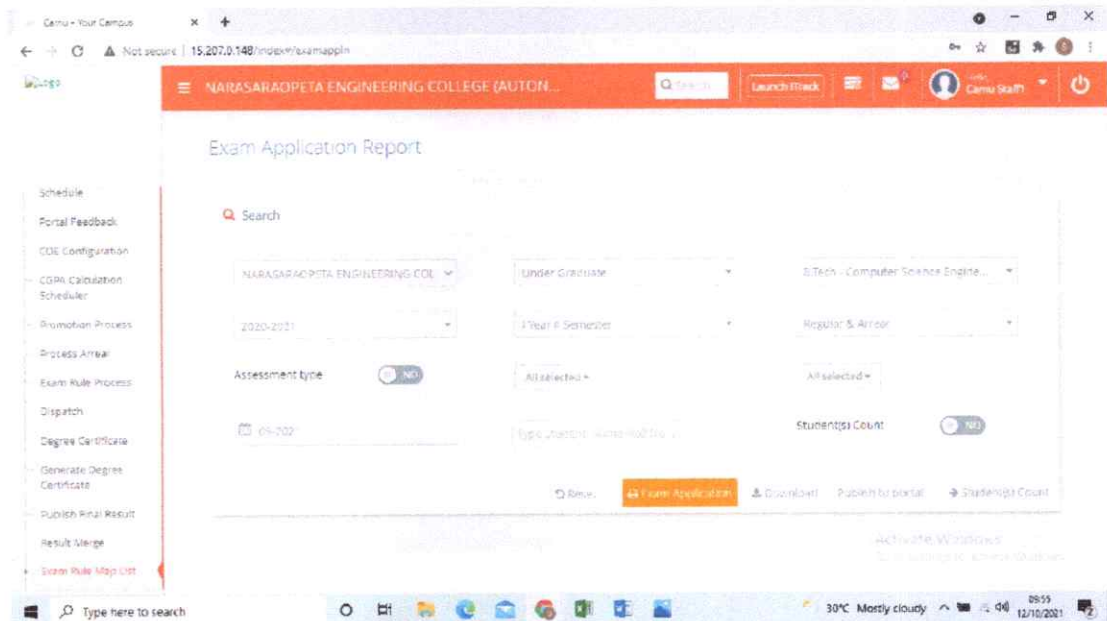
  
**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
**NARASARAOPETA - 522 207**  
**Guntur (Dist.), A.P.**



6. Configure the Subjects to conduct the internal examination and semester examination.



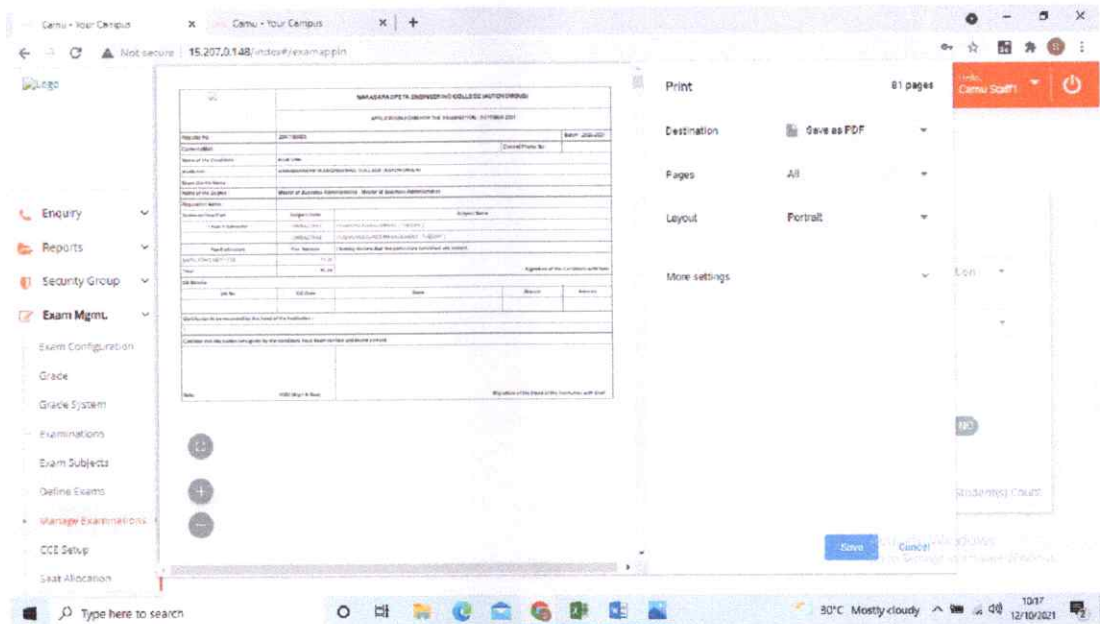
7. Generate the exam application for the eligible student.  
i).



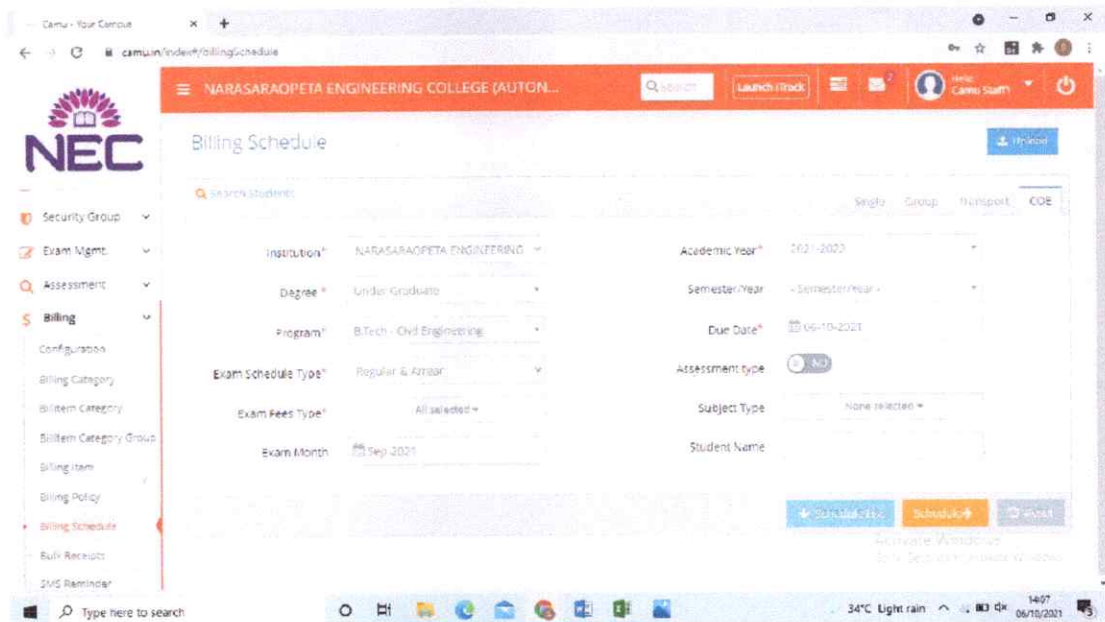
*[Handwritten Signature]*  
**IOAC**

*[Handwritten Signature]*  
**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)**  
**NARASARAOPETA - 522 001**  
**Guntur (Dist.), A.P.**

ii)



8. Schedule CoE Exam Fees for the student to pay the exam application fees.



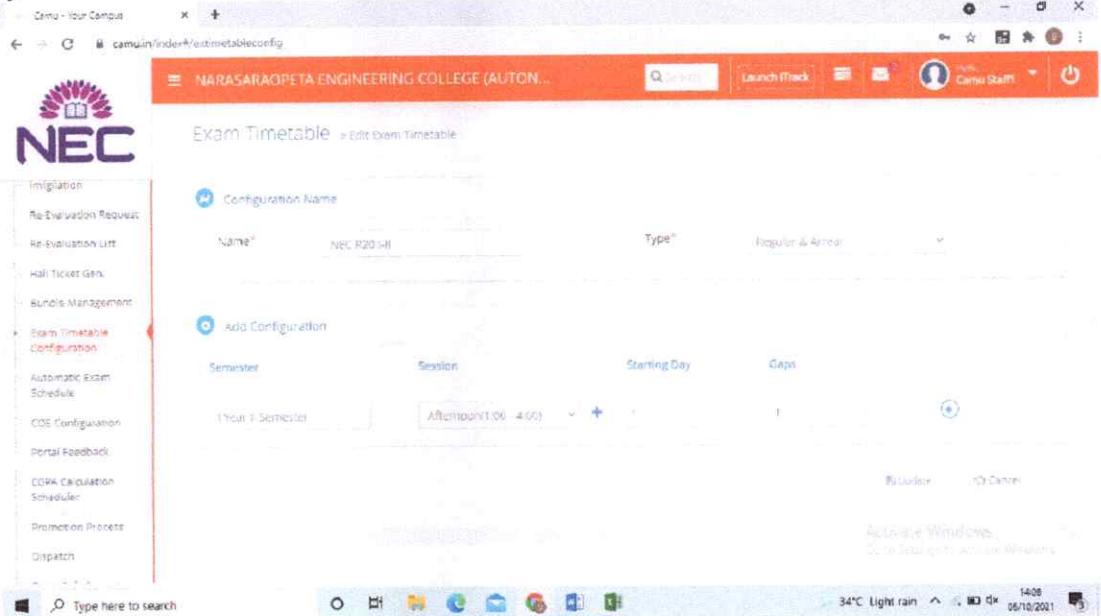
  
**IQAC**

  
**Principal**  
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**(AUTONOMOUS)**  
**NARASARAOPETA - 522 604**  
**Guntur (Dist.), A.P.**



9. Configure the Automatic Time table and schedule the timetable automatically for regular and arrear papers.

i)



**Exam Timetable** > Edit Exam Timetable

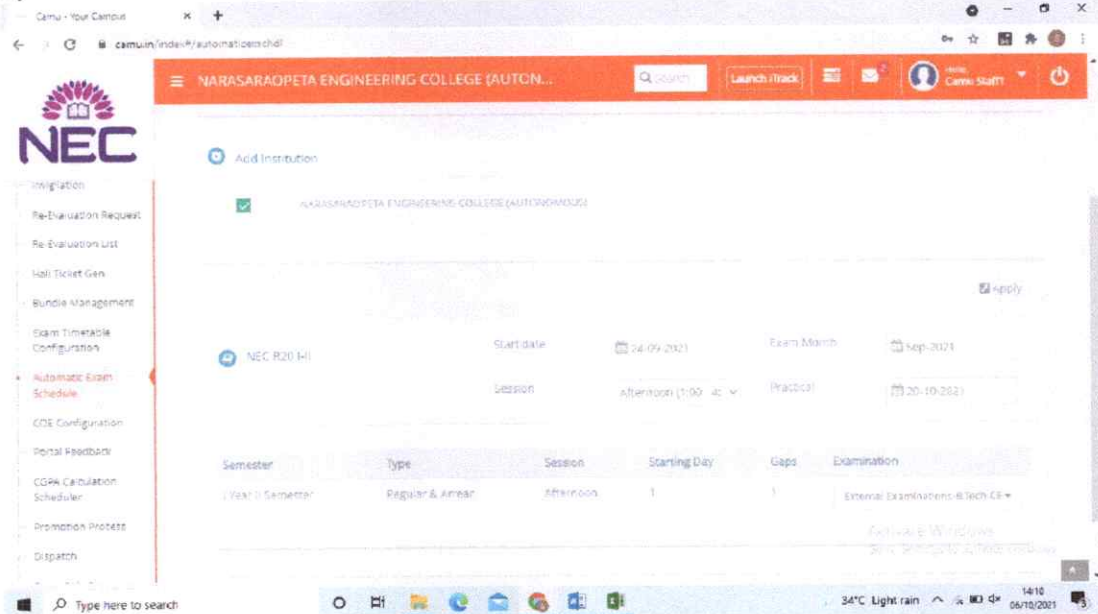
Configuration Name

Name: NEC R20-III      Type: Regular & Arrear

Add Configuration

Semester	Session	Starting Day	Gaps
1 Year 1 Semester	Afternoon (1:00 - 4:00)	1	1

ii)



Add Institution

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

Apply

NEC R20-III

Start date: 24/09/2021      Exam Month: Sep-2021

Session: Afternoon (1:00 - 4:00)      Practical: 20-10-2021

Semester	Type	Session	Starting Day	Gaps	Examination
1 Year 1 Semester	Regular & Arrear	Afternoon	1	1	External Examinations - B.Tech CE+

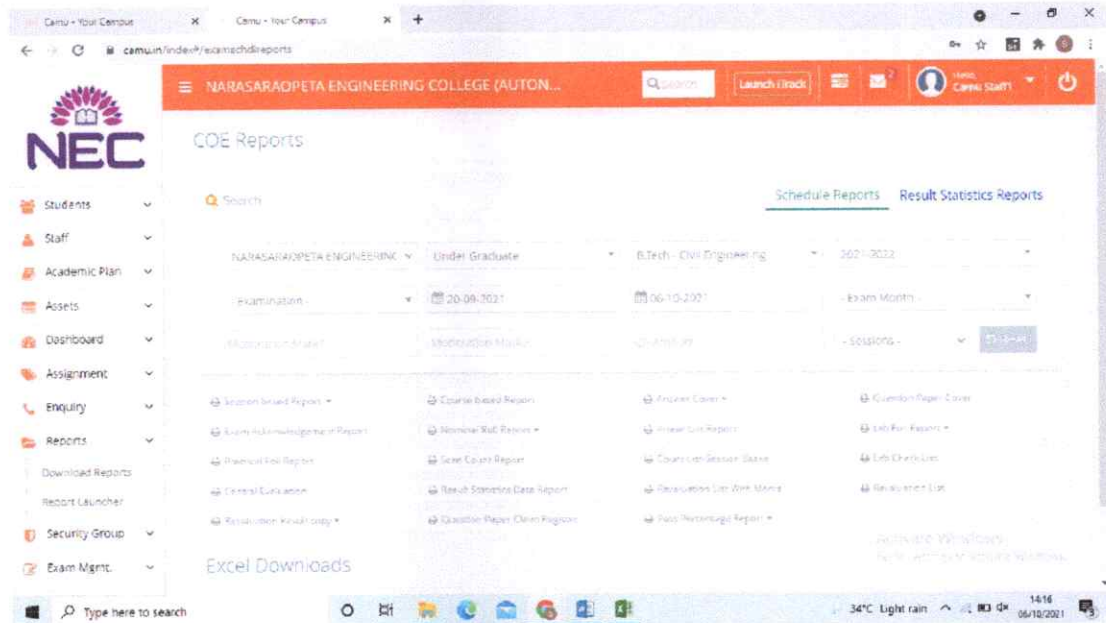
*[Handwritten Signature]*

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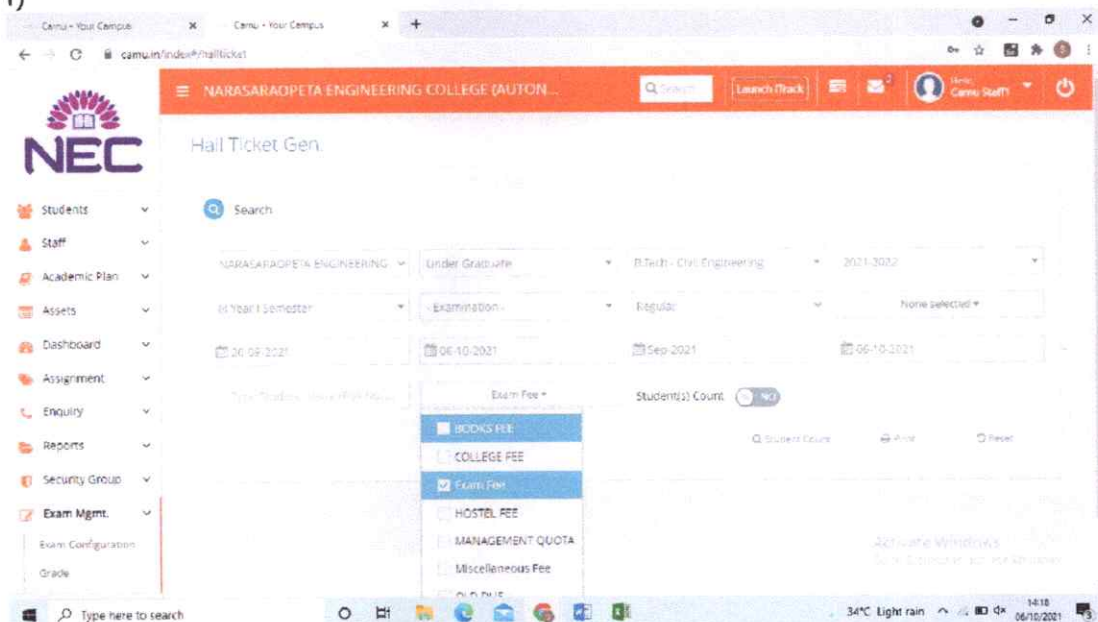
**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
**NARASARAOPET - 522 001**  
**Guntur (Dist.), A.P.**

10. Various examination timetable reports can be generated from the system like Session report course report, nominal report etc...



11. Hall ticket will be generated for the candidate who paid the examination fees.

i)

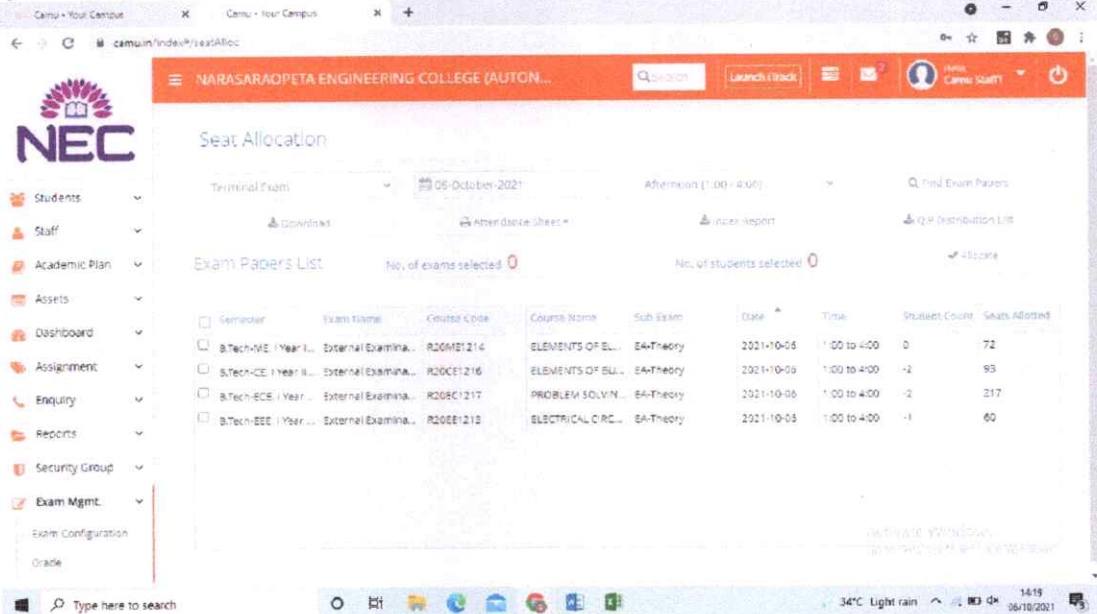


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(AUTONOMOUS)  
NARASARAOPET - 522 001.  
Guntur (Dist.), A.P.



12. Every date and session examination Seat allocation will be done in the system and generate the various reports.

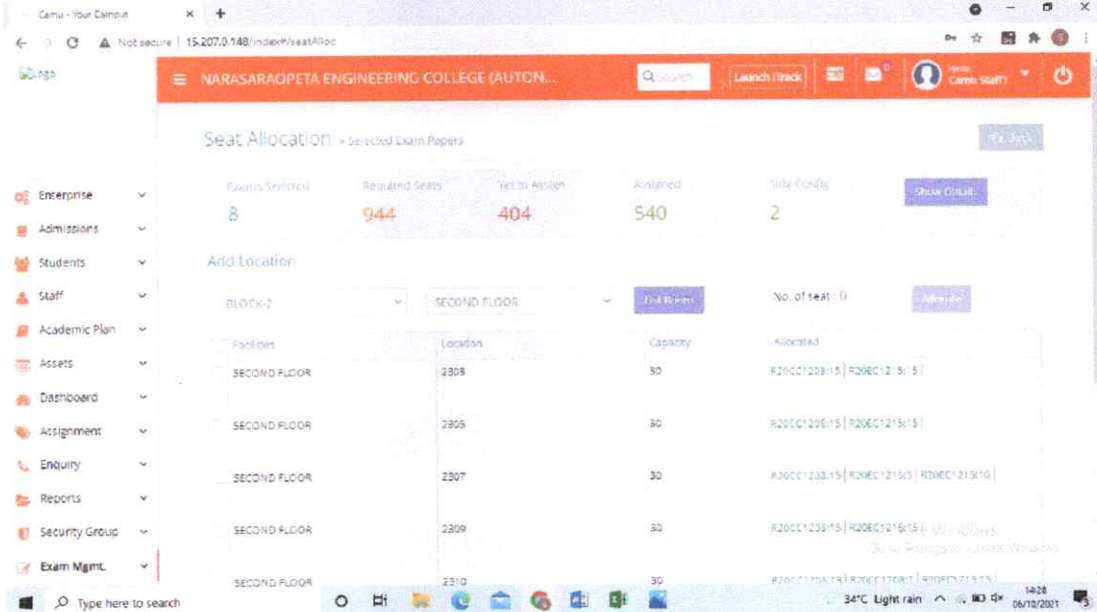
i).



The screenshot shows the 'Seat Allocation' page for NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS). The interface includes a sidebar with navigation options like Students, Staff, Academic Plan, and Exam Mgmt. The main content area displays 'Exam Papers List' with a table of exam details.

Semester	Exam Name	Course Code	Course Name	Sub Exam	Date	Time	Students Count	Seats Allotted
<input type="checkbox"/>	B.Tech-VE / Year I...	R20ME1214	ELEMENTS OF EL...	EA-Theory	2021-10-06	1:00 to 4:00	0	72
<input type="checkbox"/>	B.Tech-CE / Year II...	R20CE1216	ELEMENTS OF BU...	EA-Theory	2021-10-09	1:00 to 4:00	-2	93
<input type="checkbox"/>	B.Tech-ECE / Year...	R20EC1217	PROBLEM SOLVING...	EA-Theory	2021-10-06	1:00 to 4:00	-2	217
<input type="checkbox"/>	B.Tech-EEE / Year...	R20EE1213	ELECTRICAL CIRCUITS...	EA-Theory	2021-10-05	1:00 to 4:00	-1	60

ii)



The screenshot shows the 'Seat Allocation' page with a summary of exam papers and a table of locations. The summary indicates 8 exams selected, 944 required seats, 404 seats yet to be assigned, 540 seats assigned, and 2 seats left.

Exams Selected	Required Seats	Yet to Assign	Assigned	Seats Left
8	944	404	540	2

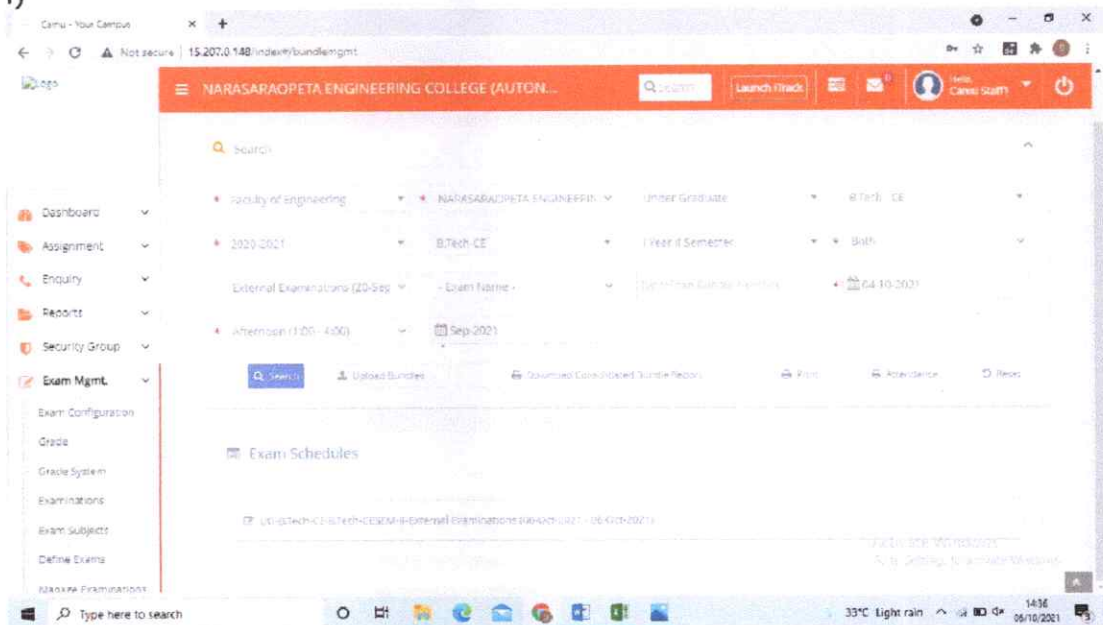
Location	Capacity	No. of Seats
BLOCK-2 SECOND FLOOR	30	0
SECOND FLOOR	30	0
SECOND FLOOR	30	0
SECOND FLOOR	30	0
SECOND FLOOR	30	0
SECOND FLOOR	30	0

  
**IOAC**

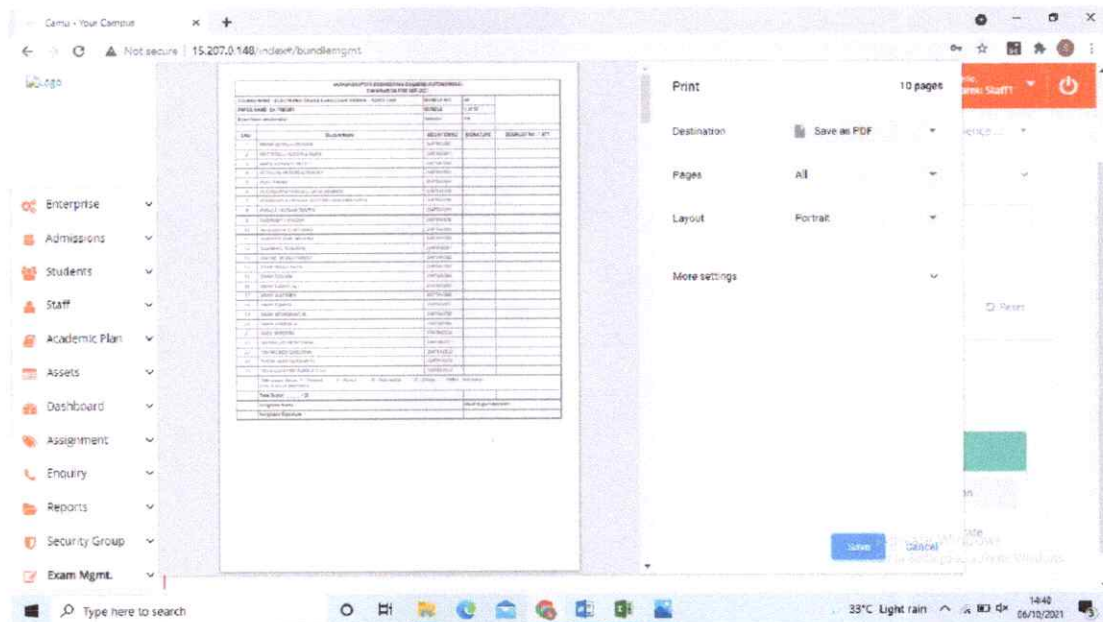
  
**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
**NARASARAOPETA - 522 601,**  
**Guntur (Dist.), A.P.**

13. Examination Attendance sheet will be generated with the bundle number for the eligible candidate to marking the attendance.

i)



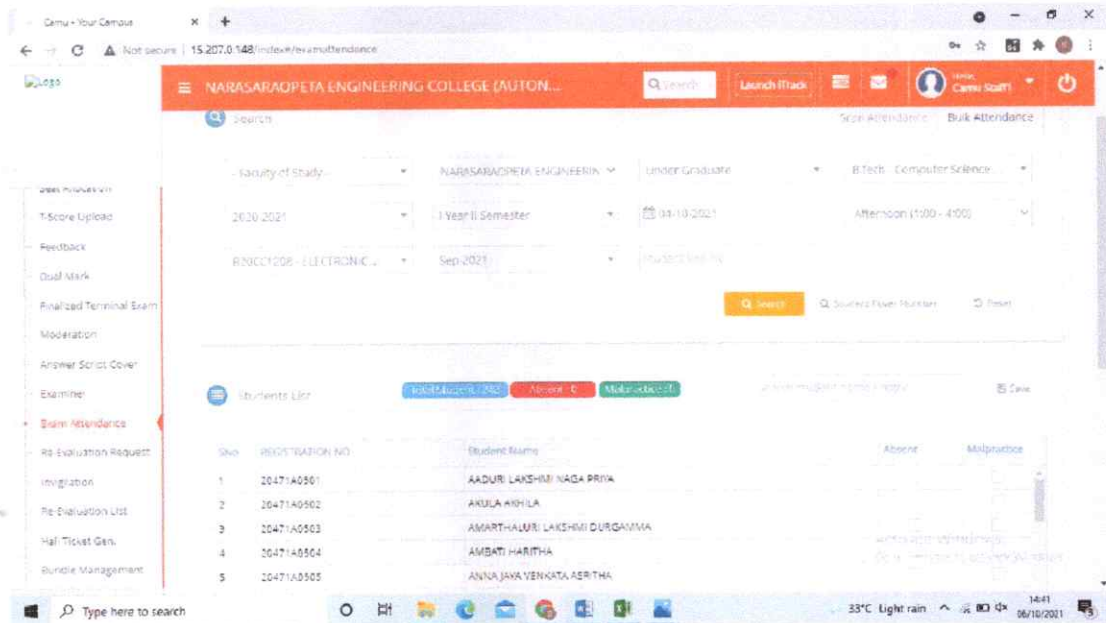
ii).



*M. G. V.*  
Principal  
NARASARAOPETA ENGINEERING COLLEGE  
(AUTONOMOUS)  
NARASARAOPET - 522 604  
Guntur (Dist.), A.P.



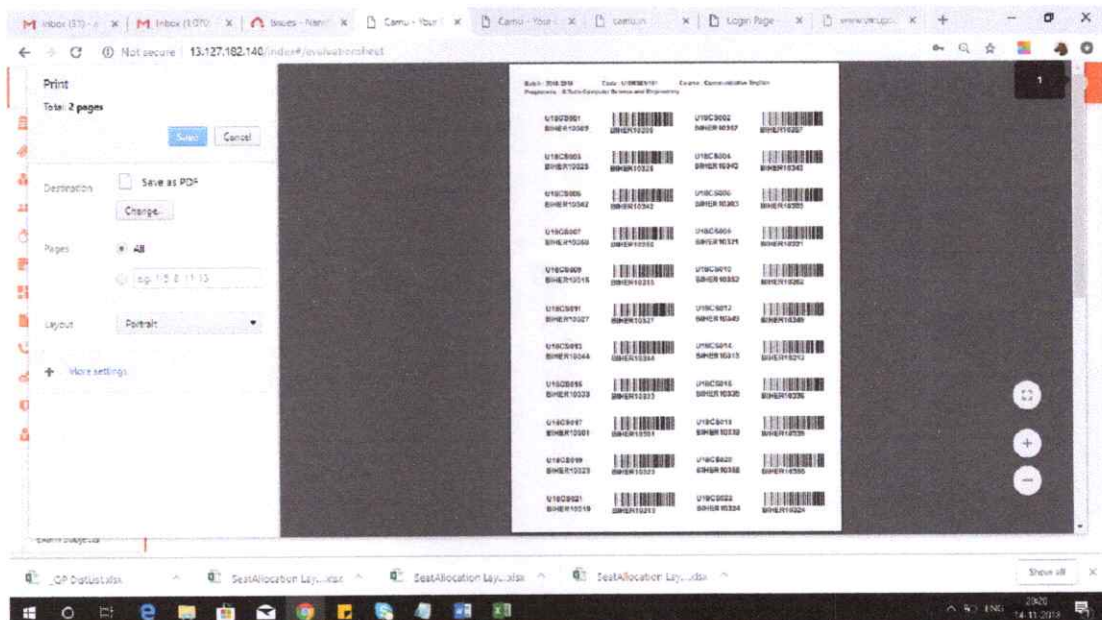
#### 14. Marking the exam attendance and Malpractices.



#### 15. Generate the dummy number ( with Barcode) for the eligible candidates.

1. Dummy number label format.
2. Answer sheet front cover.
3. Manully mapping the Dummy number by scanning barcode.

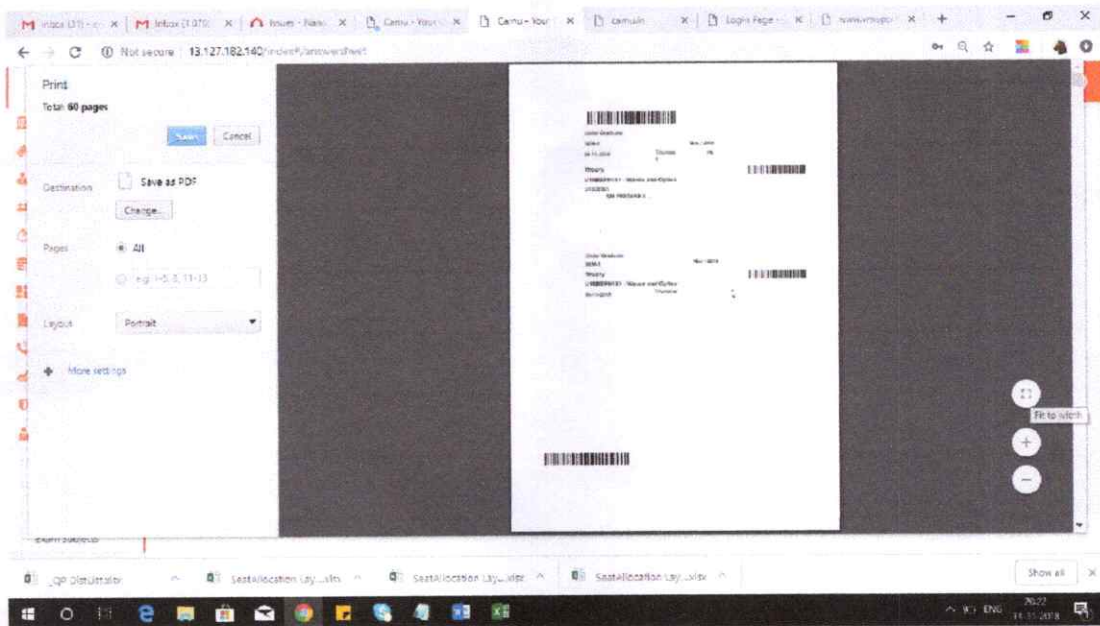
i)



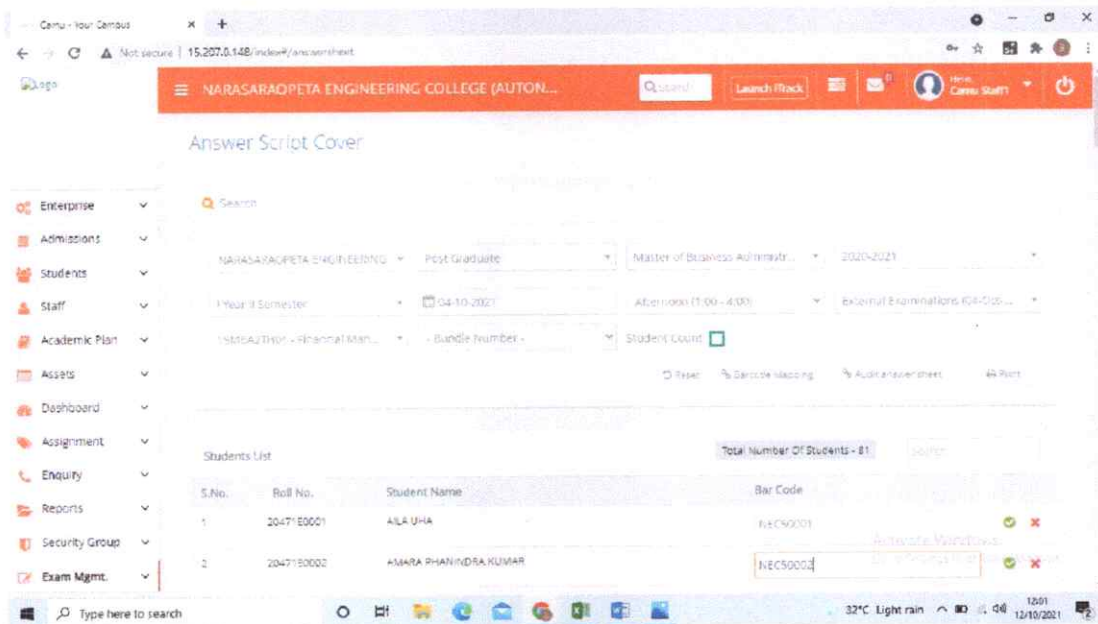
*[Handwritten Signature]*  
**IOAC**

*[Handwritten Signature]*  
**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
**NARASARAOPETA - 522 604**  
**Guntur (Dist.), A.P.**

ii)



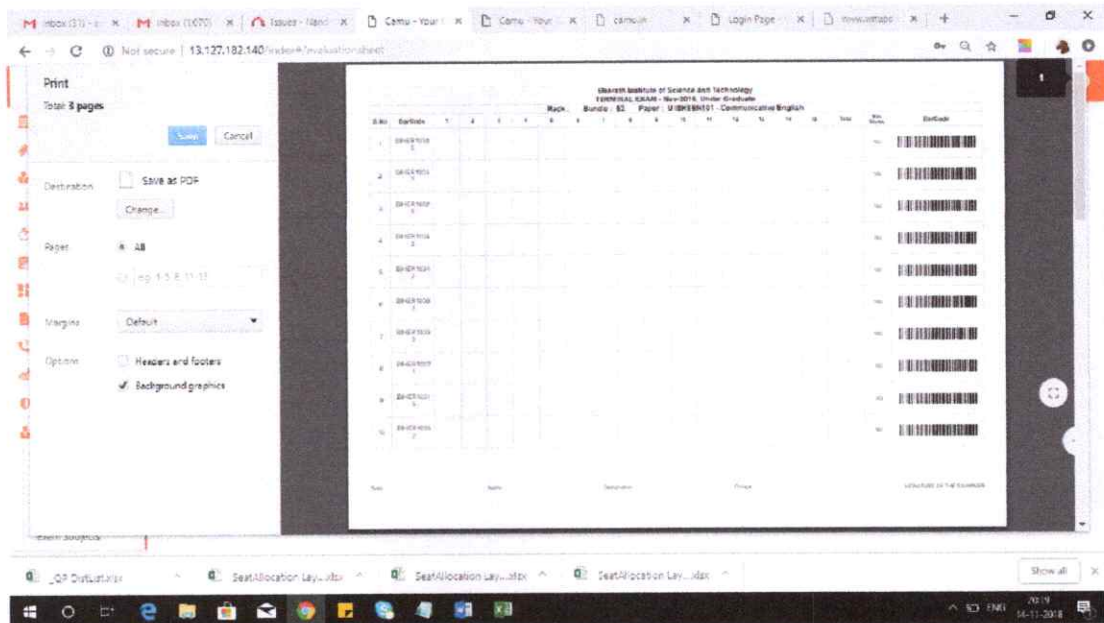
iii)



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 NARASARAOPETA - 522 604,  
 Guntur (Dist.), A.P.



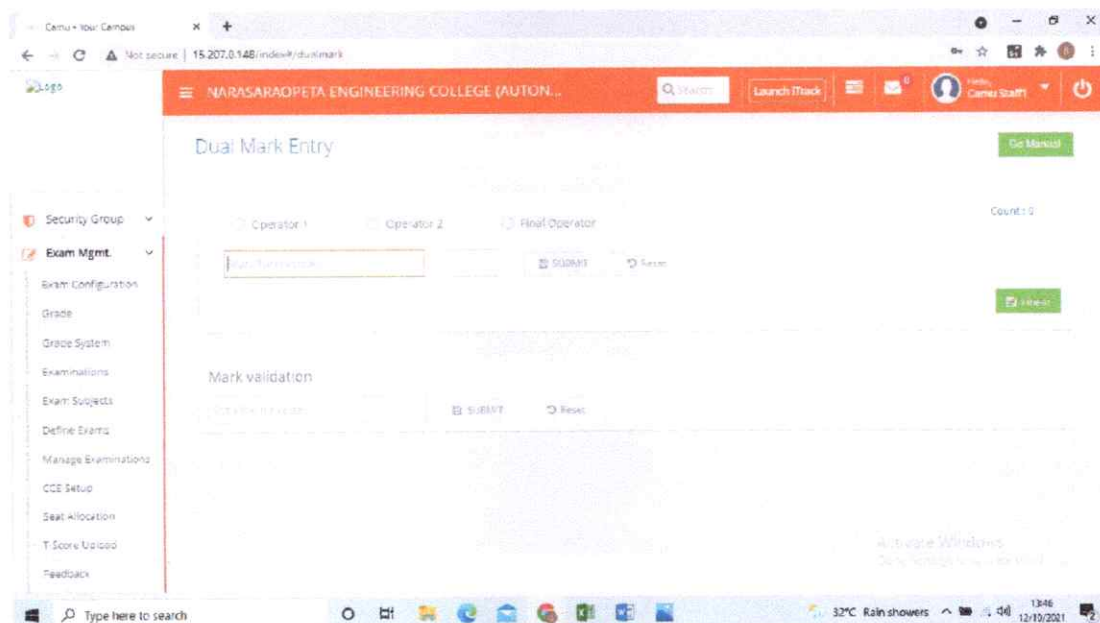
16. Evaluation sheets will generated for the each bundle numbers to evaluate the papers to enter the marks.



17. Enter the marks in the system with two methods

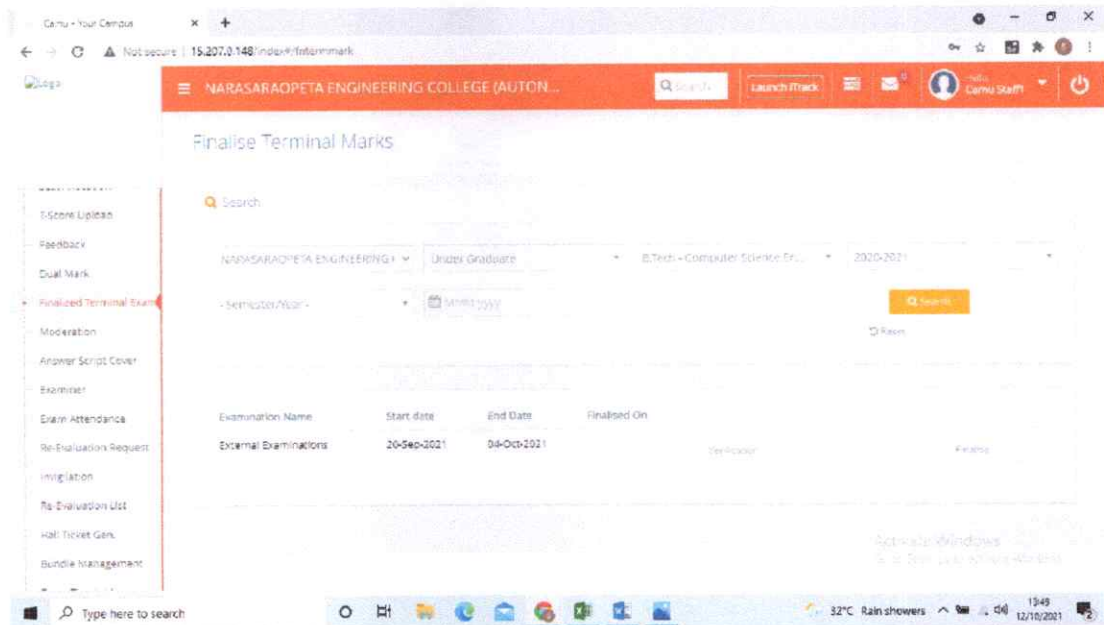
1. Dual Operator
2. Single operator ( Recording the evaluator names for each bundle)

i)

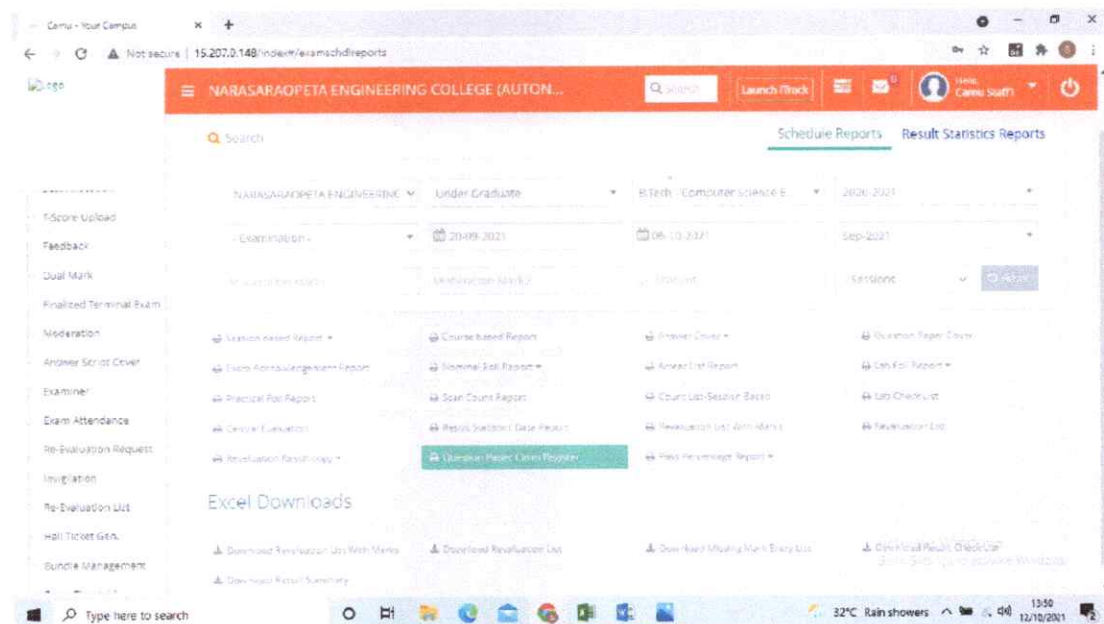


*Mky*  
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(AUTONOMOUS)  
NARASARAOPETA - 522 001  
Guntur (Dist.), A.P.

**18. Finalize the mark entry and publish the results.**



**19. Result summary reports will generate for passing board meeting.**



**20. Moderation will apply to the students**

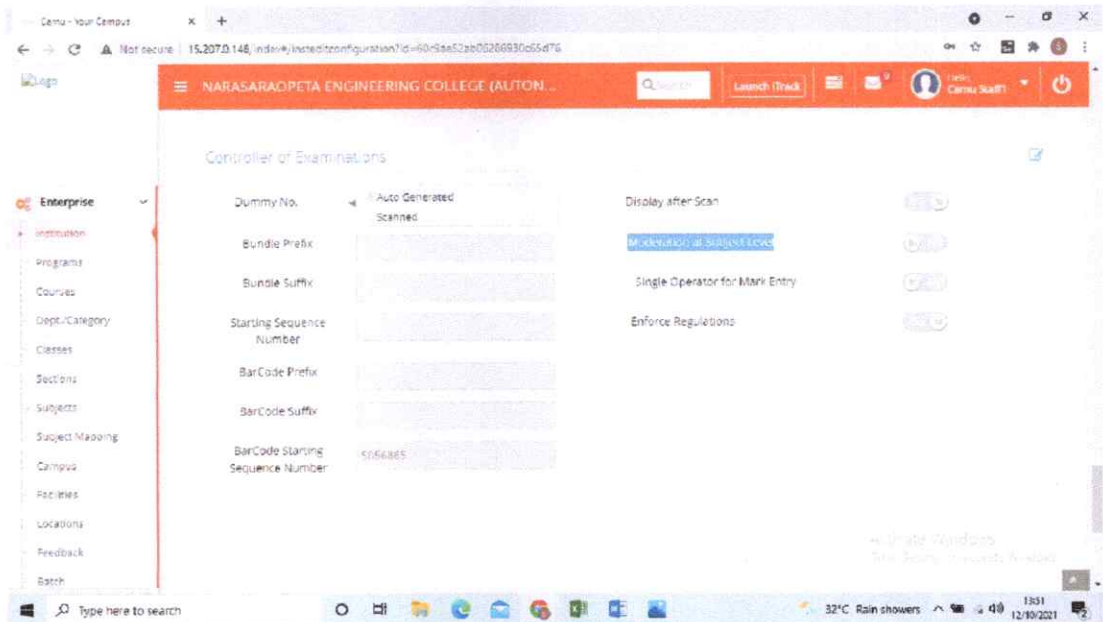
1. Course level moderation.
2. Subject level Moderation.



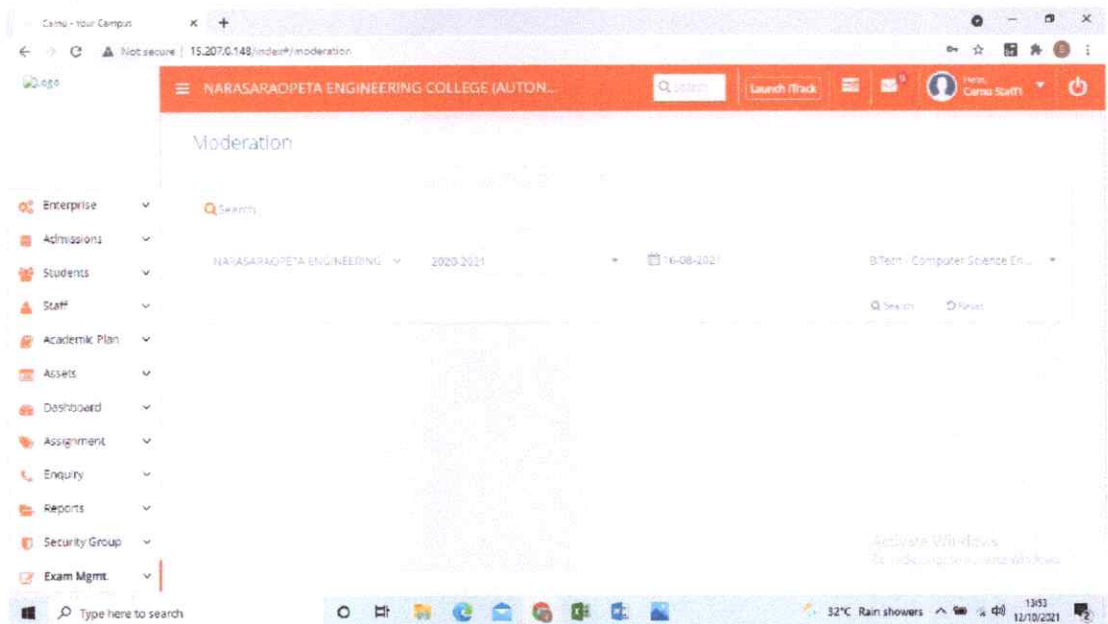
  
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**(AUTONOMOUS)**  
**NARASARAOPET - 521 101**  
**Guntur (Dist.), A.P.**

- 3. Subject level with maximum subject pass.
- 3. Course level with maximum Subject pass.

i)



ii)

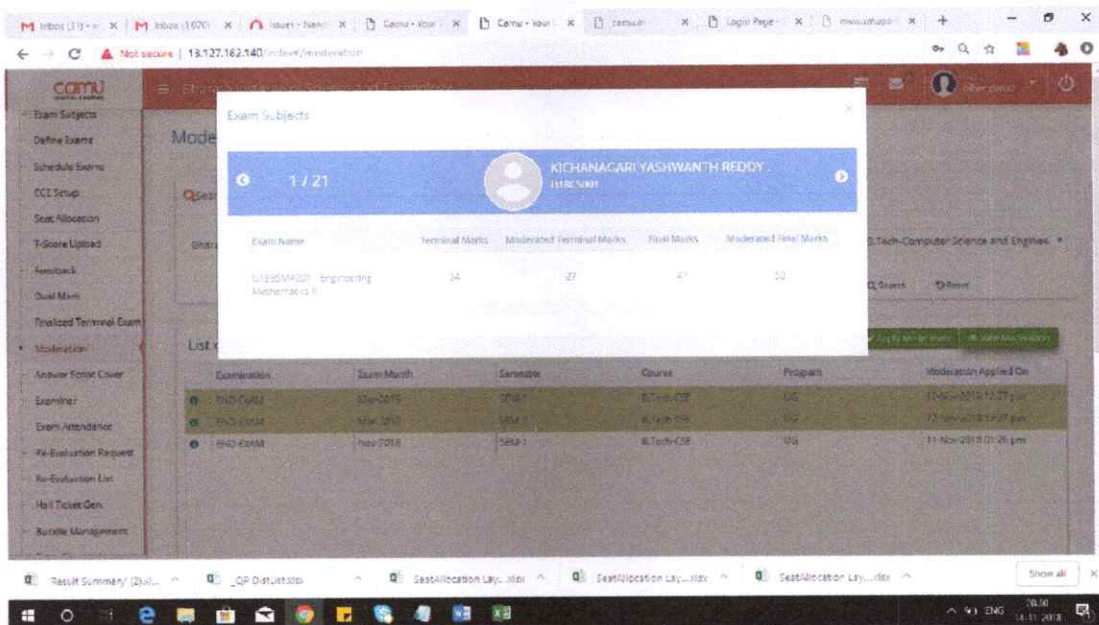


  
**IQAC**

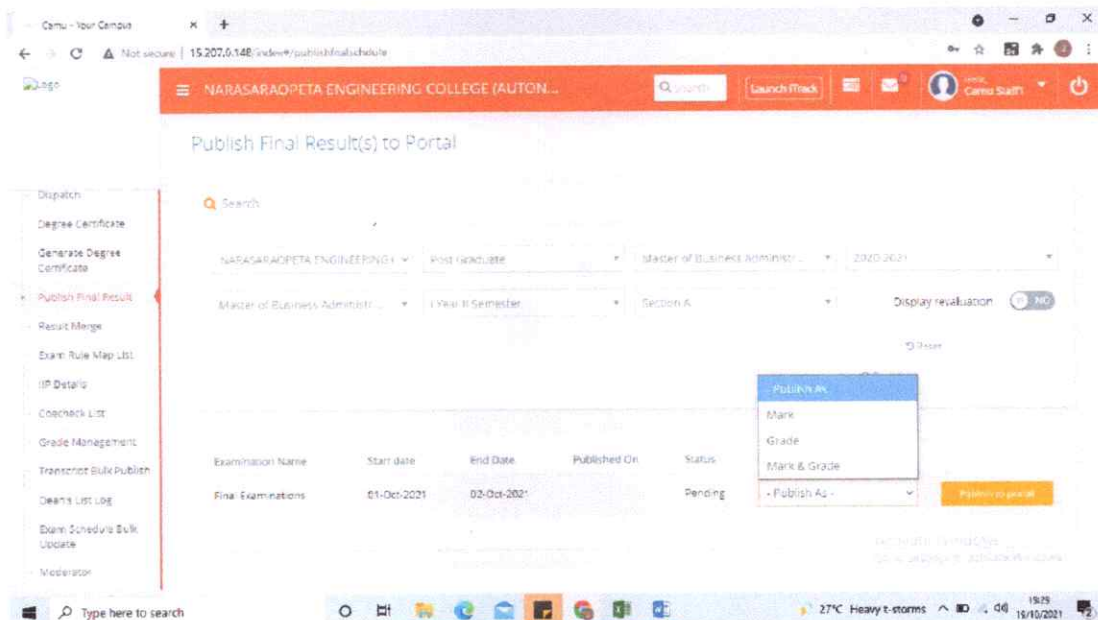
  
Principal  
NARASARAOPETA ENGINEERING  
(AUTONOMOUS)  
NARASARAOPET - 522 004  
Guntur (Dist.), A.P.



iii)



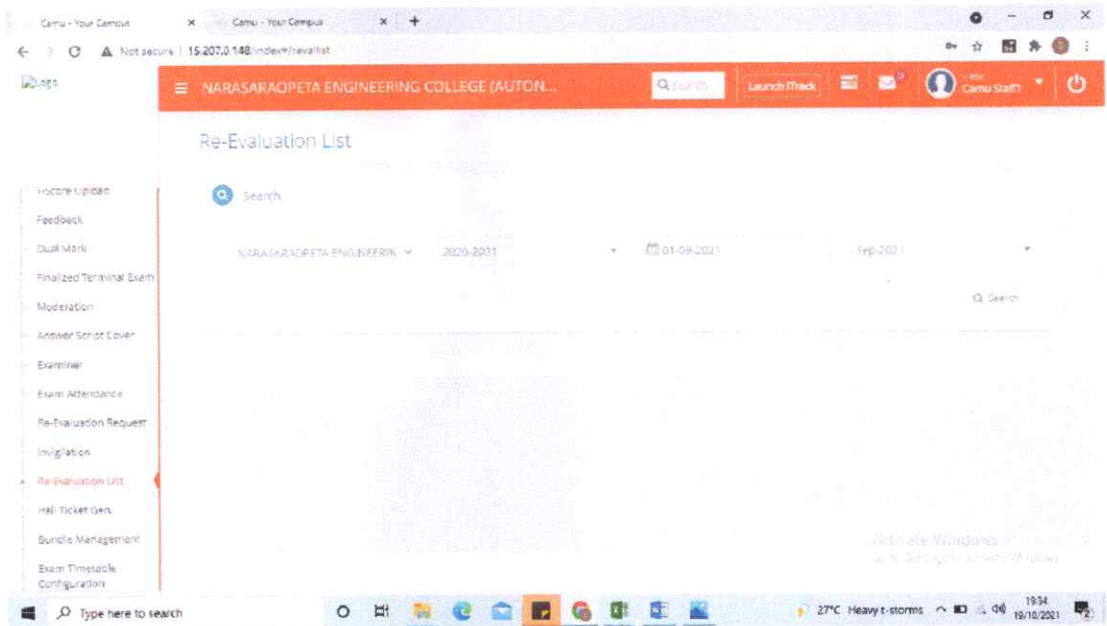
21. Announce the result to student in Mycamu Portal, various results report will be generated in the system.



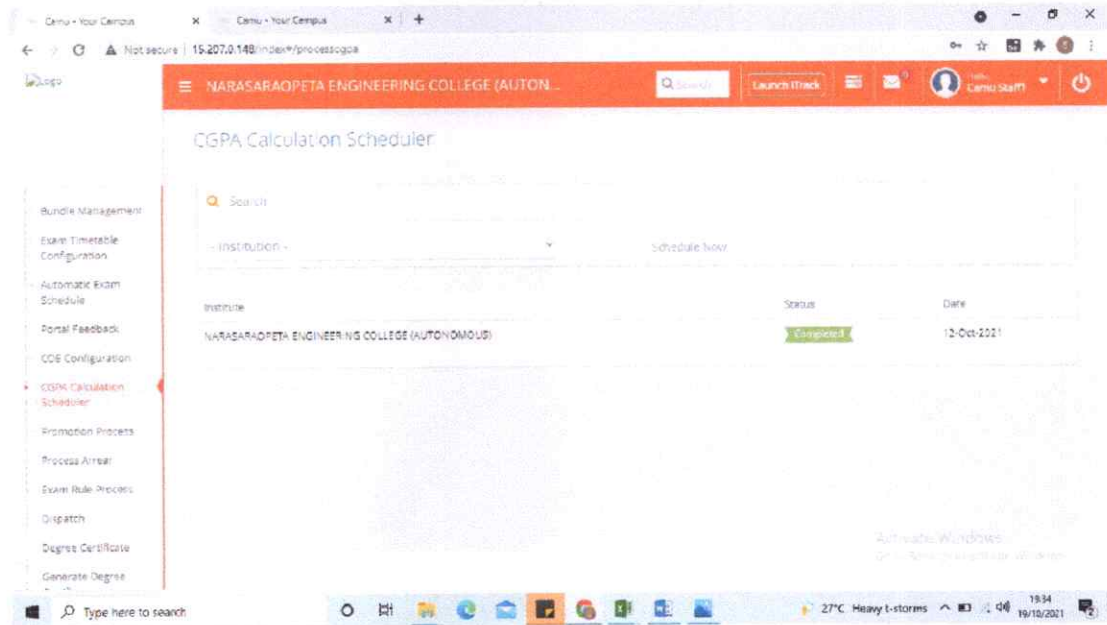

**IQAC**

*M. Jay*  
**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
**NARASARAOPET - 522 004,**  
**Guntur (Dist.), A.P.**

22.Revaluation request and revaluation results will carried out.



23.CGPA will generated for the announced results.

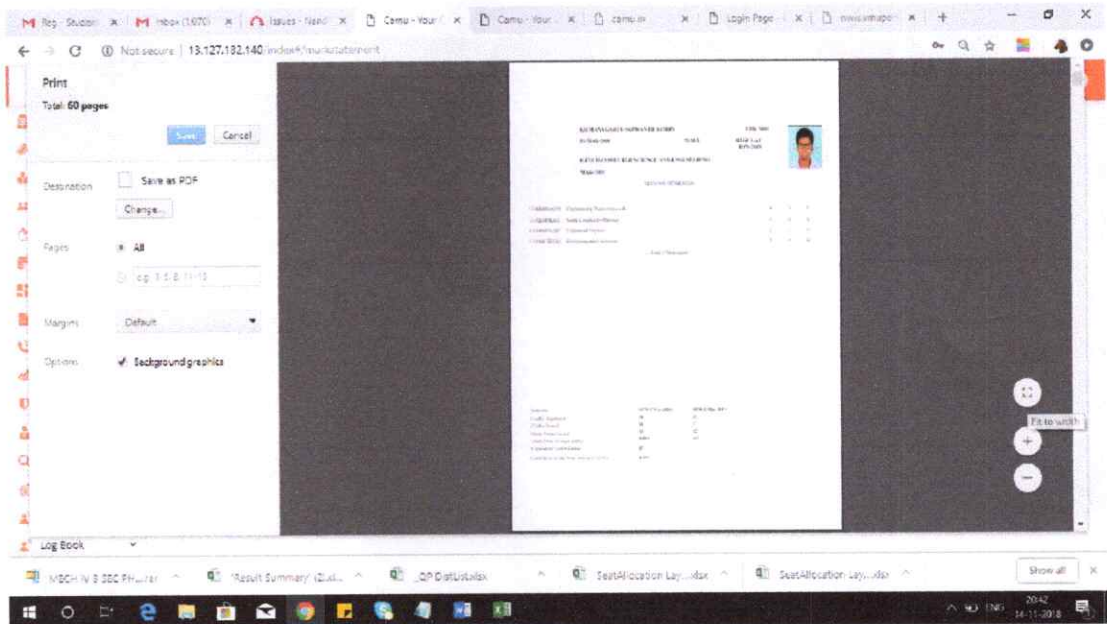


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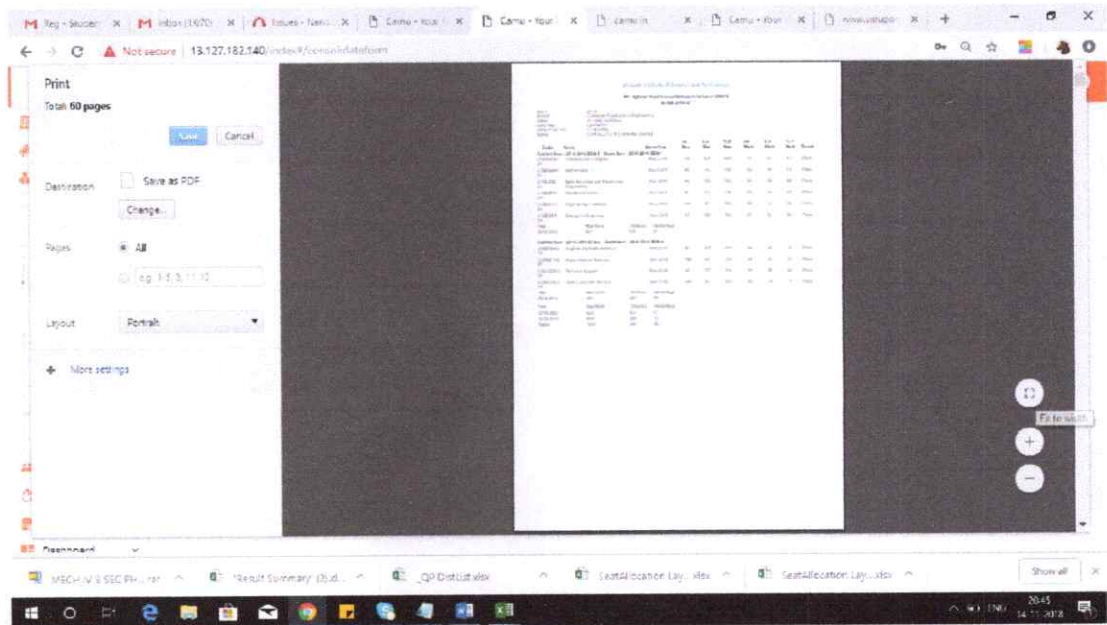

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**Principal**  
**NARASARAOPETA ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
**NARASARAOPET - 520 001**  
**Guntur (Dist.), A.P.**

24. Mark statement and consolidated marks statements, provisional mark statements and degree certificate can be generated in the system.

i) Mark Statement:



ii) Consolidate report:



  
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**(AUTONOMOUS)**  
**WARASARAOPET - 520 002**  
**Guntur (Dist.), A.P.**



Consolidated Mark Statement (1).pdf 1 / 51

SANJOY MUNSHI  
AARUPADA VEEDU INSTITUTE OF TECHNOLOGY, CHENNAI  
(Civil Engineering)

M21620009  
Male  
May-2016

BE&TECH-2012-CBOS-FT  
20-Dec-1993  
English

3	342126.4	EMPHY PRACTICAL LAB	2	B	10	Nov-2015	7	342127.6	ESTIMATING AND COST ENGINEERING	4	A	7	Nov-2015
3	342123.1	ADVANCED ENGINEERING MATHEMATICS	4	B	8	Nov-2015	7	342127.2	ENGINEERING MANAGEMENT AND ETHICS	3	A	8	Nov-2015
3	342123.4	MECHANICS OF FLUIDS	4	A	8	Nov-2015	8	342128.1	PROJECT WORK	6	S	10	May-2016
3	342126.3	STRENGTH OF MATERIALS LAB (SURVEYING)	2	B	10	Nov-2015	8	342128.6	ELECTIVE - TRAFFIC ENGINEERING MANAGEMENT	2	B	8	May-2016
3	342122.6	ENGINEERING GEOLOGY	4	B	8	Nov-2015	8	342129.4	ELECTIVE - SPONGING IMPROVEMENT TECHNOLOGIES	2	A	8	May-2016
3	342123.6	MECHANICS OF SOLIDS	3	A	8	Nov-2015	8	342129.1	ELECTIVE - REPAIR AND REHABILITATION OF STRUCTURES	3	A	8	May-2016
3	342123.2	MECHANICS OF SOLIDS	4	A	8	Nov-2015	*** Saw Of Statement ***						
3	342122.9	BUILDING SCIENCE I	3	B	8	Nov-2015	Cumulative Grade Point Average : 8.561						
4	342124.1	NUMERICAL TECHNIQUES	4	C	7	May-2016	Classification : FIRST CLASS						
4	342124.1	HYDRAULIC ENGINEERING LAB	2	S	10	May-2016							
4	342124.0	CONSTRUCTION TECHNOLOGIES EQUIPMENT AND PRACTICES	3	B	8	May-2016							
4	342124.2	EMPHY PRACTICAL LAB - I	2	S	10	May-2016							
4	342124.9	MECHANICS OF SOLIDS - I	4	A	8	May-2016							
4	342124.0	APPLIED HYDRAULIC ENGINEERING	4	C	7	May-2016							
4	342124.1	ENVIRONMENTAL ENGINEERING - I	3	B	8	May-2016							
4	342124.9	SURVEYING - I	4	B	8	Nov-2015							

Print  
Total: 36 pages

Destination: Save as PDF

Pages: All

Layout: Portrait

Log Book

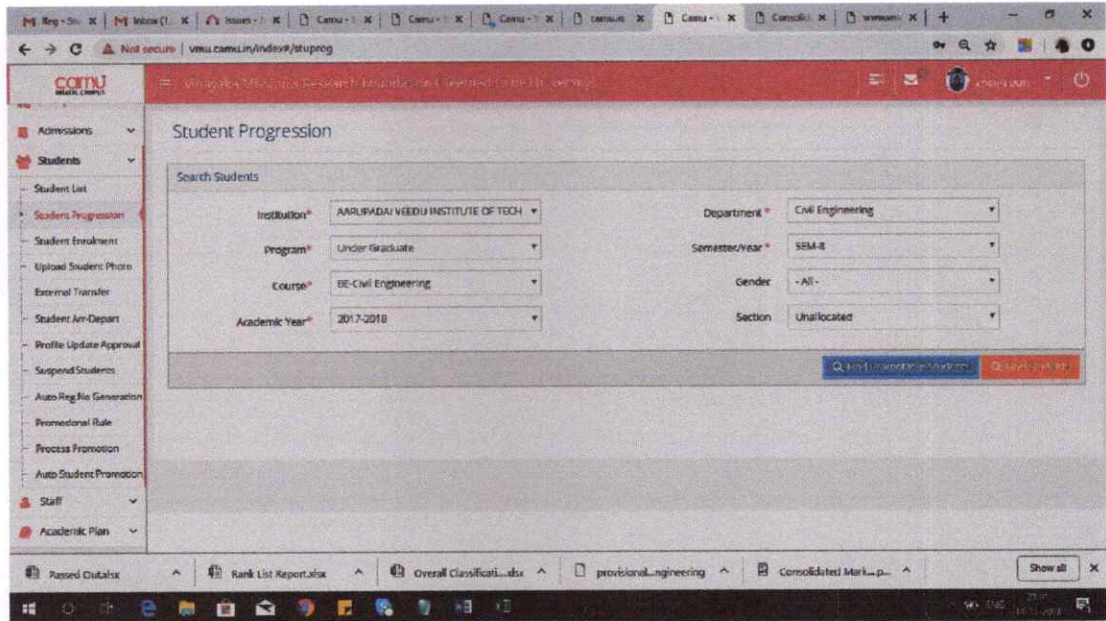
Faculty Of Engineering  
The Head of Management of the  
Pharvika Shreehari Education Foundation  
Ward 2, Main Street, Koda  
KOTA VENKATA VISHNU VARDHAN REDDY  
As In-charge of the Degree of  
Computer Science and Engineering  
In Yashwanth Science and Engineering  
Having been certified by duly appointed Examiners  
to have qualified to receive the name of the Registration holder  
March 2016

Min., Controller of Examinations Registrar, Warangal



  
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25. Automatic Student Promotion for the student to promote to next semester.



  
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Ref : BEES/NEC/265/18-19

Date : 06.03.2018

To:  
The Principal,  
Narasaraopeta Engineering College,  
Kotappakonda Road,  
Narasaraopet -522601,  
Guntur Dist., A.P.



*Complete*  
**AUTOMATION**  
*for*  
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Secured & Simplified Infrastructure  
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## SPECIFICATION – BEES Examination Tool

Sl No	Description
1	<p><b>BeeS Examination Tool for Autonomous Colleges with</b></p> <ol style="list-style-type: none"> <li><b>1. Pre-Examination</b> <ol style="list-style-type: none"> <li><b>1. Program Master With Branches And Sems</b> The programs with its branches and semesters will be created first time itself</li> <li><b>2. Student Master</b> Student's complete data will be stored in this interface with Personal Details, Academic Details and Admission details. This data can be used in other areas like Fee Collection, ID Card Printing, Sending SMS etc.</li> <li><b>3. Nominal Roll</b> Shows the list of students with details in the running semesters</li> <li><b>4. Batch wise Student List</b> Shows the list of students for each batch in different semesters</li> <li><b>5. Curriculum Master</b> Shows the list of students with details in the running semesters</li> <li><b>6. Curriculum Allotment</b> Allotting the curriculum studied by each student in different semesters. In case the student detains and rejoins with a student who is studying a new curriculum, the new curriculum will be allotted to the detainee student automatically</li> <li><b>7. Marks Setup</b> Marks Setup for different courses like max marks for theory, practical and project and pass percentage</li> <li><b>8. Subject/Course Master</b> Subject details with its full name, elective, replacement option and credits are maintained here</li> <li><b>9. Elective Subjects Allotment</b> The elective subjects will be allotted to the students in this interface</li> <li><b>10. Exam Fees Setup</b> Exam fees structure will be maintained here for regular exams and supplementary exams for the selected exam</li> <li><b>11. Exam Fee Collection Dates Setup</b> Examination master will be created with month and year of exam and with the dates of fee collection for regular and supplementary exams.</li> <li><b>12. Exam Time Table Master Setup</b> The parameters input for generating the exam time table automatically is given here</li> <li><b>13. Exam Time Table</b> The generated Exam Time Table will be displayed here. Will be displayed in the exam portal for each student's login.</li> <li><b>14. Bulk Photo Resizing</b> This option is used to compress the photos stored in database to display it in different printed formats like hall tickets, OMR Sheets etc.</li> </ol> </li> </ol>



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## 15. i) Online Student Application

The student can apply for his exam through this interface online (intranet). When he applies for supplementary exams his due subjects will be displayed and he can select only his due subject. The filled application form can be printed

## ii) Examination Application Form

Once the examination master is created, application forms will be generated for the respective courses and semesters for all the students with their supplementary subjects printed. The student can tick the supplementary subject he wants to attend, sign it and submit it to the counter.

## 16. Exam Fee Challan Generation

As soon as the student is submitted his application, Exam Fee Challan will be generated with his fee particulars. The challan will be printed individually for regular exams and for each semester supplementary exam for each student

## 17. Exam Fee Challan Confirmation

Once the student paid the fee in Bank and returns his challan copy to the examination fee counter, the challan will be confirmed in the system by an operator

## 18. Supplementary Data Checklist

Here the list of students registered for supplementary exam will be displayed. In the data checklist, the subjects registered will be displayed with the status of the parameters to be given as input for generating the Exam Fee Challan, Hall ticket and OMR Sheet properly

## 19. OMR Codes Generation

Here the secret codes for each student for each registered subject will be generated automatically based on the criteria given.

## 20. Blank OMR Codes Generation

Extra blank sheets will be generated for using as stand by solution, in case any sheet misplaced. This code can be re-linked at the time of marks scanning.

## 21. Clear OMR Codes

In case the code list is not generated in the required sequence there is an option for clearing the codes before printing the hall tickets and OMR sheets.

## 22. Exam Fee Dues List

The students who are not collected the challan and who are not submitted it back will be treated as due students and hall ticket will not be generated for them

## 23. Exam Fee Collection Report

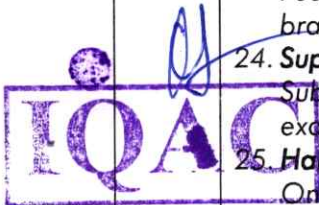
Fee collection statement will be printed based on date, counter, branch etc.

## 24. Supplementary Students List

Subject wise list of students who are registered for Supplementary exams is printed here.

## 25. Hall Ticket Printing

Once the application is submitted and exam fees is paid, the hall ticket can be printed in bulk or single. **Optional: Can be given online.**



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## 26. Seating Plan

Seating plan will be printed by giving few setups like room strength, how many branched to be allocated in one room, no. of members in row and columns etc.

## 27. OMR Sheets Generation

The OMR codes will be generated for the students who are applied for the exam and will be printed from the software with barcode.

## 28. Blank OMR Sheets Generation

Blank OMR sheets will be printed here.

## 2. Post-Examination

### 1. Exam Absentees Entries

Here the absentees in the exam will be entered so that, so that their code will not be displayed in the D-Forms.

### 2. Internal Marks Entry

Internal marks will be entered through this interface by selecting single or multiple subjects.

### 3. Supplementary Registration

The students who paid the supple fees will be treated as candidates registered for supplementary exam and there is no need of re-entry here.

### 4. OMR Scanning

The OMR sheets will be scanned and external marks will be stored to the software.

### 5. Results Processing

The results will be processed by merging internals and externals

### 6. Checklist Printing

The processed results with pass percentage of each branch will be printed without moderation

### 7. Moderation

The moderation interface will be given with choice to apply moderation marks for passing the 1 subject, 2 or 3 or with the different rules followed by institution. All the statements will be printed individually for comparison and finalization

### 8. Results Declaration

The processed results with any one of the moderation finalized by the committee will be declared and the results will be visible online(internet and intranet) to the students in their individual IDs.

### 9. Withheld students Results Declaration

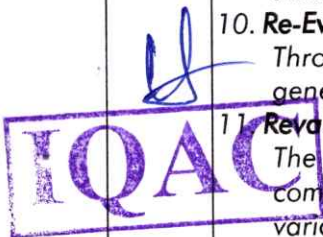
Through this interface the we can declare the results of the students who is done any malpractices etc.

### 10. Re-Evaluation Fees Collection

Through this interface challan for reevaluation fee will be generated for the selected subjects.

### 11. Revaluation Marks Entry (Scanning)

The revaluation sheets will be scanned here. The marks will be compared with the first valuation marks and if the percentage of variation is more than a particular percentage given, then the sheets may go for third valuation. If at all the third valuation is



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done, that marks will be declared as final.

**12. Re-Evaluation Results Processing**

Here the re-evaluation results are processed and declared.

**13. Re-Registration**

Here the student can re-register for any failed subject in the previous semesters with internal marks less than a particular percentage.

**14. Re-Registration Results Processing**

Here the re-registration results are processed and declared.

**15. Student Code list printing**

Here the code Vs. Hall Ticket No. will be printed for the examiners reference.

**16. Re-Evaluation Fee Details**

Here the Re-Evaluation registered Candidates list and fee collection details will be displayed.

**17. Marks Memo Printing**

Marks memo will be printed on the pre-printed stationary

**18. Tabular Sheets For Display**

Consolidated tabular display of marks for all the semesters for applying provisional certificate and OD from University

**19. Students Consolidated Mark Sheet**

Students consolidated marks sheet for print and for display online and offline

**20. Various Analysis Reports**

Analysis Reports like  
 Pass percentage for the selected exam  
 Consolidated marks statement for all students  
 Subject wise pass percentage  
 Toppers in each subject  
 Supplementary candidates etc.

**21. Posting The Results To Student Inbox**

Each student will have an individual user id and password and he can view his results from anywhere in the world by logging into the BET online package

**3. EVALUATION UPDATION IN BET PLUS**

**1. Unit Master Creation**

The no. of units considered for examinations of different courses can be maintained here . This master setup helps to handle the variation of no. of units to be studied in different subjects, different semesters and different courses.  
 Ex: Unit I, Unit II, etc.

**2. Question wise marks pattern creation**

This master setup is used to maintain the master pattern of questions. In this master pattern Unit Name (I,II,III etc.), Question No (1,2,3 etc.), and Question Part (a,b,c etc.) will be entered. Once this master pattern is created, it can be



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imported for any subject.

### 3. Subject marks pattern creation

Here the master pattern of questions will be imported, and the maximum marks of each question, blooms taxonomy level and program outcome level will be configured. This pattern has to be configured for every subject and every exam for each semester, branch and course, as the pattern and the outcome level may vary for each criteria.

### 4. Choice Master Setup

This is an input for the system, for calculating the final marks, when the student attempts both the questions, when asked to choose one answer. (Ex: First Choice, second Choice, Best, Least, Average, Cancel)

### 5. Choice Grouping

This interface is for grouping the questions as choice. This is an input for the system for recognizing, which 2 questions are coming as a choice. Based on this input, the system will calculate the final marks of the student, even if the student attempts, both the questions in the same choice. This grouping can be done either by a question with another question (Ex. 1 OR 2) or by a question part with another part of the question. (Ex: 1 (a) OR 1(b))

### 6. Bundle Generation

This interface is for generating the bundle no. for each subject. This is a tedious task after the examination. This task is made very easy with the bundle generation part of E-Valuation module. As soon as the booklets are reached the examination department, this task can be executed. Just clicking on the 'Generate Bundle No.s', button, the system will generate the bundle no.s with the inputs like prefix of bundle no. (this prefix can be used for recognizing the examination like..month& year, regular/supply, course etc.), Start no. of Bundles, and no. of booklets per bundle. Based on this criteria, automatically bundle no.s will be generated and serial no. of each booklet also will be generated. Now we can print the stickers which contains, Bundle No., SI No and Secret code of the booklet. If the booklet is printed manually, 2 stickers can be printed, for sticking on both parts (the identification part and valuation part) of the booklet. If the booklet is printed from software, 1 sticker can be printed and stuck on the valuation part of the first page of



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the booklet.

## 7. Sticker Generation

The sticker can be generated one at a time, in case of software printing, and all at a time, in case of manual booklet.

The sticker model is given below.

**1712110101**

**1/50**

**33605**

## 8. Bundling Work

This is the task executed in the examination section, after the bundle no.s generated.

The booklets can be segregated with the bundle no.s and in the order of Sl. No. given.

## 9. Valuator Remuneration Setup

Here the remuneration of valuator can be configured based on criteria like, per bundle or per booklet like that. With this data, we can analyse the money flow of examination section.

## 10. Valuator College Setup

Here the master data of colleges, from where the valutors are invited can be maintained. With this data, we can filter the valutors, college wise, when required.

## 11. Valuator Master Creation

Here the master data of valutors maintained with different details like, their qualification, designation, department, specialized subject, mobile no., email etc. This data can be used for filtering the valutors for each subject. The communication details are required for implementing security features like OTP, for sending the username, password etc.

## 12. Bundle Allotment to the Valuator

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Once the master data of valuator and bundles are ready, the bundles of each subject can be allotted to the valuator. In case of double valuation, each valuation can be allotted to different valuator, for different bundles.

### **13. Valuator Login Creation & Password**

Once the bundles are allotted to the valuator, the logins can be created. Based on the pre-defined criteria, the valuator login and password for each subject (in case multiple subjects are handled) and will be communicated to them. The valuator login can be controlled by pre-defining the start date and end date of login of the valuator.

### **14. SMS/Email Login & Password to Valuator**

The login details can be communicated to the valuator via email or mobile no. Both the options will be given to the user. The user can opt and send the message.

### **15. Valuator Login page in Browser**

The valuator login page will be opened in browser with a hardware security key inserted. The security of marks entry page is assured with a hardware key, secret login credentials, OTP (if required), login control based on dates and essential database security. The browser page will be encrypted with SSL certification.

### **16. Marks entry 1<sup>st</sup> Valuation**

This interface will act as the marks entry page for the valuator.

Once the valuator is logged in with the username and password given, he will be redirected to the Marks Entry Page. Based on the login, the system will recognize it as a first valuation or second valuation.

The valuator can reassure his login with the photo displayed on the top part of the marks entry page. The subject will be shown on the caption band.

The bundle No.s allotted to the valuator will be displayed in a list on the left part of the page. Once the bundle no. is selected, the booklet no.s (secret codes) will be displayed in another list in the allotted serial no. order. The valuator can pick the booklet no. for which the valuation is to be done. The selected bundle no. secret code and sl no. of the booklet will be displayed on the top part for a second verification. The Marks Entry Columns will be displayed on the subject

  
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allotted question pattern. The valuator can enter the marks attained in each question. Once the valuation for a booklet is completed, he can save the data for that booklet. Once the booklet valuation is done, the secret code will be removed from the top list and the it will be added to another list, with the total marks obtained in each unit. If the valuator wishes, he can re-verify the data which is entered in the bottom grid. He can make changes and save again. Once all the booklets of the selected bundle is valuated, the bundle can be finalized and froze. Once the bundle is froze, further verifications on the same bundle cannot be done by the valuator. It can be done only with the help of administrator. Once the bundle is finalized, a printout on the finalized bundle will be generated. This can be signed and submitted by the valuator to the examination section as a proof.

## 17. Marks entry 2<sup>st</sup> Valuation

This interface will act as the marks entry page for the valuator, for 2<sup>nd</sup> Valuation. The process is same as of 1<sup>st</sup> Valuation.

## 18. Valuation Status Check

This is a special interface for examination department head, for monitoring the status of valuations. This interface provides the information like, for each valuator, how many bundles are left over, in each bundle how many booklets are left over etc. It shows the status of both 1<sup>st</sup> valuation and 2<sup>nd</sup> valuation.

## 19. Scrutiny Report

This interface is designed for providing the scrutiny report on the 1<sup>st</sup> and 2<sup>nd</sup> valuation. It displays the entries which doesn't match in the 2 valuations. The mismatched bundle, booklet, and questions will be displayed in the report. The mismatch entries can be corrected by a super user with separate login and be finalized.

## 20. Verify Data Entry and Correction with Scrutiny Report

This interface will look similar to the 1<sup>st</sup> and 2<sup>nd</sup> Valuation Marks Entry interface. But in this interface, only the mismatch bundles will be displayed in the list. Once the bundle no. is selected, only mismatch booklet will be shown in the below list. The booklet can be selected, corrections can be done

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and saved. Once the data is finalized here, the entry part will be locked permanently.

## 21. Third Valuation Report Generation

Once the data is finalized after scrutiny, third valuation report can be generated. This report will be generated based on the criteria given by the college. If the 1<sup>st</sup> valuation and 2<sup>nd</sup> valuation difference, goes, beyond certain limit, this particular report will be generated.

## 22. Results Processing

Once the third valuation marks entered, the result processing can be done. The moderation/graffing rules can be implemented for result processing. Grade card, GPA & CGPA of the student for that particular exam will be generated with this process.

## 23. Blooms Taxonomy

Based on the initial setups, the blooms taxonomy reports can be printed based on different criteria like, student, branch, subject, course etc. This analysis can be printed individually for each student and can be displayed in E-portal also for student's reference.

## 24. Program Outcome

Based on the initial setups, the program outcome reports can be printed based on different criteria like, student, branch, subject, course etc. This analysis can be printed individually for each student and can be displayed in E-portal also for student's reference.

## 25. Analysis Reports

Different analysis reports can be generated based on different inputs. Some examples are given below

- a. Money Flow (Examination fee, fines, condonation fee etc. will be treated as income. The invigilator fee, valuator fee, and other expense will be treated as expenditure and the money flow will be created)
- b. Valuation Status Report
- c. Valuation Scrutiny Report
- d. Third Valuation Report
- e. Result Sheets
- f. Pass Percentage Analysis Report
- g. Moderation Analysis Report

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- h. Toppers List
- i. Blooms Taxonomy for Student/Branch/Course for current exam
- j. Blooms Taxonomy for Student for all exams together
- k. Program Outcome for Student/Branch/Course for current exam
- l. Program Outcome for Student for all exams Together
- m. Online display of results for student/parent
- n. Blooms taxonomy of student online
- o. Program outcome of student online

.....and many more

**Advantages of BET – Plus**

- 1. Secured Coding
- 2. Bundling at Ease
- 3. Valuator at End-Point
- 4. Valuation at High End Security
- 5. Question wise Marks
- 6. Bloom's Taxonomy
- 7. Course Outcome
- 8. Program Outcome
- 9. Student Outcome
- 10. Marks Posting controlled with Maximum Marks
- 11. Indications on marks entries varying from the regular average percentage
- 12. Monitoring of Valuation by Status Check
- 13. Simultaneous Verifications of Marks Entries from a superior level
- 14. Accuracy and Security is maintained at the higher end
- 15. Paperless, Effort less and Scanning less

4. **Online Payment for Exam fee  
Integrated with ATOM Gate way**

1. **Online fee payment:**

- 1.1 **Regular Fee Payment** (Here Students Can Pay their regular exam fees with secured features with acknowledgement)
- 1.2 **Supply Fee Payment** (Here Students Can Pay their supply exam fees with Supply fee payment with acknowledgement)
- 1.3 **Revaluation fee payment** (Here Students Can Pay their Revaluation fees with Revaluation fee payment with acknowledgement)
- 1.4 **Betterment fee payment** (Here Students Can Pay their Betterment fees with Betterment fee payment with acknowledgement)

  
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- 1.5 **Condo nation fee payment** (Here Students Can Pay their condonation fees with Condonation fee payment with acknowledgement)
- 1.6 **Script view fee payment** (Here Students Can Pay their script view fees with Script view fee payment with acknowledgement)
2. **Exam Time Tables:**
  - 2.1 **Internal Time Table** (Here Internal Timetables are displayed along with date and timings)
  - 2.2 **External Time Table** (Here External Timetables are displayed along with date and timings)
3. **Marks:**
  - 3.1 **External Semester Wise Marks** (Here students can view their semester marks by selecting semester)
  - 3.2 **Credit Register** (Total credits acquired by students will be displayed here)
  - 3.3 **Due Subjects** (Backlogs for the particular student will be displayed here)

**Notifications** (all notifications forwarded to students will be displayed here ex: regarding drive , fees notifications etc.)

## 5. Utilities

### 1. College Setup

A college master interface will be given for maintaining the college details like name, address, telephone, logo, college code etc.

### 2. Academic Year Creation

Whenever the academic year changes, new academic year is to be created through this interface

### 3. Financial Year Creation

Whenever the financial year changes, new financial year is to be created through this interface

### 4. User Creation (Offline)

Users are to be created for doing the operations in the software with different permissions through this interface. Even the edit, delete permission will be controlled here.

### 5. User Creation (Online)

Online users are created through this interface automatically who are the student users and the staff users who can view their performance, feedback etc. through online

### 6. Backup Of Data

The data backup is taken through this interface. This is a user controlled interface through which the latest backup of the database will be generated in '.BAK' formats. This backup is in non-editable format. This backup can be stored in external devices and can be restored if the existing data crashes or goes in a non-format.

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## 7. Promotions

For promoting the students from the current semester to the next semester. Here the reasons of detaining like attendance shortage or credit shortage can be maintained.

### 6. CBCS- Choice Based Credit System

1. Course Group Master
2. Course Master Common
3. Course Master Branch wise
4. Course Handling List/Faculty Mapping
5. Online Selection of Course for Each Student Login
  
6. Restriction of Max Credits and Max No. Subjects in Each Group
7. Letter Grades Integration
8. GPA Calculation on varying credits of the student
9. CGPA Calculation on varying credits of the student
10. Result Based on CGPA
11. Letter Grade for the Result
12. Incorporation of credits and result calculation, for the course studied in different college by the student

### 7. Examination Accounts – Income & Expenditure

1. **Payment Voucher for**
  - a. Question Paper Setting
  - b. Valuation
  - c. Re-Evaluation
  - d. Stationary Purchase
  - e. Other Expenditures
2. Receipt voucher will be generated automatically for all the fees collected through the software.
3. Income & Expenditure Statement



  
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S.NO	DESCRIPTION
1	<p><b>Web based BEES ERP software</b></p> <ol style="list-style-type: none"> <li>1. Admission Process</li> <li>1. Accounts Setup</li> <li>2. Fees setup</li> <li>3. Course master creation</li> <li>4. Branches creation</li> <li>5. Semesters creation</li> <li>6. Fee allotment for different academic years</li> <li>7. Counter creation</li> <li>8. Student profile creation</li> <li>9. Photos bulk updations</li> <li>10. Individual fee allotments and concessions management</li> <li>11. Regular fee collections</li> <li>12. Miscellaneous fee collections</li> <li>13. Provision for individual fee card with complete payment history</li> <li>14. 14. Fee collection with automatically generated receipts</li> <li>15. Student details report in more than 50 formats</li> <li>16. Fee collection report</li> <li>17. Fee Defaulters list</li> <li>18. Fee target &amp; collection analysis</li> <li>19. Transfer certificates</li> <li>20. Study &amp; Bonafide certificates</li> <li>21. Custodian Certificate</li> </ol> <p><b>2. Transport Management</b></p> <ol style="list-style-type: none"> <li>1. Centralized maintenance of transport data</li> <li>2. Bus details</li> <li>3. Route details</li> <li>4. Bus layout details</li> <li>5. Student Registration</li> <li>6. Bus seat allotment</li> <li>7. Bus fee collection</li> <li>8. Bus wise/Route wise student report</li> <li>9. Bus fee collection report</li> <li>10. Bus fee due report</li> <li>11. Seat availability report</li> <li>12. Bus fee analysis</li> </ol> <p><b>3. Hostel Management</b></p> <ol style="list-style-type: none"> <li>1. 1. Centralized maintenance of hostel data</li> <li>2. 2. Hostels details</li> <li>3. 3. Room details</li> </ol>



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4. Student Registration
5. Room allotment
6. Hostel fee collection
7. Hostel wise student report
8. Hostel fee collection report
9. Hostel fee due report
10. Room availability report
11. Hostel fee analysis
- 4. Academics**
  1. Attendance chart with daily & monthly details
  2. Record student exam attendance
  3. Monthly & cumulative attendance report
  4. Internal marks entries
  5. Parent report generation with attendance , marks & due subjects
  6. Performance analysis of the student details
    - i) Mobile application for attendance entry
    - ii) Windows mobile application for teachers for making the daily attendance entries of students
    - iii) Student feedback
    - iv) Student academic year performance notification
- 5. Payroll**

Payroll deal with the configuration of master data such as pay fields, PT slabs, Leaves, Employees etc.

  1. Through leaves allotment and pay allotment, the payroll master is configures for the employees.
  2. Tracking of employees details easily through Employee Roll
  3. Tracking Loans / Advance payments
  4. Employee ID cards generation with bar-coding
  5. Employees attendance maintenance with Data Entry/ ID card swiping/ Bio-metric System
  6. Automatic payroll generation with the basic entries made
  7. Reports such as pay statements, pay slips, PF statements, Bank statements, Professional / Income Tax statements
  8. Service Certificate generation
  9. Pending loans/advances
  10. Annual PF/Salary statements
- 6. Library**

Library module is integrated with the exclusive features such as

  1. Accession Register maintenance with call No as unique code, which avoids duplicated entries of common details of different Accession Numbers with one title
  2. Bar code generation for each Accession No
  3. Circulation of books using bar code.
  4. Raising of purchase order based on enquiries and Requisition.



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5. Purchase Analysis of books for different academic years.
6. Books verification with bar-code reading.
7. Periodicals master maintenance.
8. Tracking of periodicals incoming based on the subscription.
9. Back volume Register maintenance.
10. Special provision for tracking the details of books sent for binding  
Withdrawal of books, in case of missing.
11. A very special features of search Engine for books, CDs, Back  
volume Registers which can be individually loaded into each  
system and the students can access it from anywhere of the  
campus through intranet and search the availability of books  
based on basic entries such a as Title, Author, Publisher, Keywords  
etc .
12. Report on books details, Accession Register, Due Books, Purchase  
Analysis, Material Statistics etc.
13. Different queries on Enquiry, Purchase orders, Subscription,  
Pending Orders, Pending magazines, Subscription reminders,  
books on circulation/binding etc.

### 7. Examination Cell for JNTU Examinations

1. Curriculum Management
2. Examination Details Configuration
3. Exam Fees Configuration
4. Marks Distribution for different branches/semesters
5. Online Regular/Supplementary exam fees collection with a user-  
friendly interface where the users get on-hand information about  
the students current attendance percentage, due subjects, fees  
dues etc.
6. Direct external marks entries, or provision for importing data from  
an external database for different chances
7. Student performance based on different semester exams

### 8. Placement Cell

Admin Login

1. Company Master
2. Placement Announcements
3. Company Recruitment Process
4. Result Entry
5. Student Details for Placement
6. Company wise Placed Students
7. Placed and Unplaced Analysis
8. Company wise Analysis Report
9. Program wise Placement Analysis

Student Login

1. Placement Announcements
2. Company Profile



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- 3. Placement Fee Payment
- 4. Company Registration
- 9. MOBILE APP

Two different logins are available in mobile app

- I. FACULTY LOGIN
- II. STUDENT LOGIN

### I. FACULTY LOGIN FEATURES:

Every Faculty can login from here can view their respective details and academics when they registered

In faculty login we Have Following Modules

- 1. **Faculty class timetable** (In This We Displayed The Faculty timetable along with Details To Attend ex: Section , Semester)
- 2. **Basic Information**
  - 2.1 Personal Information
  - 2.2 Experience Information
  - 2.3 Qualification Information
  - 2.4 Communication Information
- 3. **ACADEMICS:**
  - 3.1 **Faculty Academic Calendar** (In This Complete year plan of faculty is displayed)
  - 3.2 **Student Details** (Here We display details of students)
  - 3.3 **Holiday details** (Academic year holiday list will be displayed)
  - 3.4 **Feedback details** (Here Faculty can review their performance throughout academic year)
- 4. **ATTENDANCE:**
  - 4.1: **Daily attendance** (Here Faculty can post student attendance from Mobile itself)
  - 4.2: **Attendance Register** (Complete Attendance Details of students )
  - 4.3 **Attendance shortage Report** (Faculty can review the attendance analysis )
  - 4.4: **Monthly Attendance Report**
  - 4.5: **Cumulative Attendance**

### II. STUDENT LOGIN FEATURES:

Note: Every Student can login from here and view their respective details and academics when they logged in

- 4. **Student timetable** (Here students current day classes Timetable is displayed)
- 5. **Student Attendance Percentage** (Attendance percentage will displayed of student till date)

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6. Student Subject Wise Attendance
7. Student Basic Information (here students can view their information)
8. CBCS Faculty selection (This Is New feature added for students to select their respective faculty for their particular subjects in academic year)
9. Online fee payment:
  - 9.1 Regular Fee Payment (Here Students Can Pay their regular exam fees from mobile itself with secured features with acknowledgement)
  - 9.2 Supply Fee Payment (Here Students Can Pay their supply exam fees from mobile itself with secured features with acknowledgement)
10. Exam Time Tables:
  - 10.1 Internal Time Table (Here Internal Timetables are displayed along with date and timings)
  - 10.2 External Time Table (Here External Timetables are displayed along with date and timings)
11. Marks:
  - 11.1 External Semester Wise Marks (Here students can view their semester marks by selecting semester)
  - 11.2 Credit Register (Total credits acquired by students will be displayed here)
  - 11.3 Due Subjects (Backlogs for the particular student will be displayed here)

Notifications (all notifications forwarded to students will be displayed here ex: regarding drive , fees notifications etc.)

Integrated with Bio-Metric software.

For BeeS Software Solutions Private Limited

*Bees*

Authorized Signature

*[Handwritten Signature]*



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