## 1.1.1 and 1.1.2 - Curricular Planning and Implementation 2019-20

Sr	Details	Pg. no
1	Supporting documents for 1.1.1	1
2	Supporting documents for 1.1.2	54

### **PART B**

**Criterion 1 - Curricular Aspects** 

**Key Indicator – 1.1 Curricular Planning and Implementation** 

1.1.1 - SUPPORTING DOCUMENTS

## FR. Conceicao Rodrigues College of Engineering

## 1.1.1 Supporting Documents

Sr.No.	Document Name	Page No.
1	Executive Committee Constitution Circular.	3
2	Minutes of Executive Committee.	4
3	Department Advisory Board formation Circular.	6
4	Minutes of Department Advisory Board.	8
5	Program Assessment Committee formation Circular.	17
6	Minutes of Program Assessment Committee.	20
7	Sample Lesson Plan. (CO, Mappings, Tools, Content Beyond	23
	Syllabus, CG, Lecture/ Lab plans)	
8	Sample Guest Lectures proofs/Activity for Content Beyond	42
	Syllabus and Curriculum Gap.	
9	Sample Excel CO Attainment calculation.	43
10	Final Year Project Assessment	48
11	Sample Academic audit report.	49

#### SAMPLE- CIRCULAR EXECUTIVE COMMITTEE MEETING

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Fr. Agnel Ashram, Bandstand, Bandra (West), Mumbai - 400 050.

Ref .: CRCE / 2019 / 424

Date: October 14, 2019.

#### NOTICE

To.

The Executive Committee Members

A meeting of the Executive Committee is scheduled on Wednesday, 16<sup>th</sup> October 2019 at 10.30 AM in the Conference Room (Fifth Floor) to discuss the following matters.

#### **AGENDA**

- 1. Academic Matters
- 2. Readiness for NAAC Visit

Any other matter with the permission of the Chair.

All the members are requested to attend.

(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL

1. Dr. V.S. Jorapur, HOD - Production Engg.

Dr. Sapna Prabhu, HOD – Electronics Engg.

3. Dr. B.S. Daga, HOD - Computer Engg.

4. Dr. Jagruti Save, HOD - Info. Tech.

5. Dr. Hemant Khanolkar, HOD - Hum. & Sci.

6. Dr. S.K. Surve, Dean - Academics

7. Dr. D.V. Bhoir, Dean - Students Affairs

8. Dr. Bhushan Patil, Dean - Research & Development 6

9. Dr. V.S. Bilolikar, Examination Cell Incharge

8. Mr. Mahesh Sharma, Training & Placement Officer 2

10. Mr. Chandrashekhar Shetty, Registrar

#### SAMPLE- MINUTES EXECUTIVE COMMITTEE MEETING

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

MINUTES OF THE EXECUTIVE COMMITTEE MEETING HELD ON 20<sup>TH</sup> JULY 2019 IN THE CONFERENCE ROOM (FIFTH FLOOR) AT 10.00 AM

#### MEMBERS PRESENT:

1. Dr. Srija Unnikrishnan (In the Chair)

2. Dr. V.S. Jorapur

3. Dr. Sapna Prabhu & Aar

4. Dr. B.S. Daga

5. Dr. Jagruti Save

6. Dr. Hemant Khanotkar

7. Dr. D.V. Bhoir

8. Dr. S.K. Surve

9. Dr. Bhushan Patil

10. Mr. Mahesh Sharma

Principal welcomed the members.

Principal briefed members that the main agenda of the meeting is to take follow-up on the agenda items discussed in the previous HODs and Deans meeting held on 29<sup>th</sup> June 2019.

The following discussions were held:

#### Item No.1: Project based learning

Principal told members to implement Project based learning at all levels possible – individual subjects, Mini Projects, Dept. wise projects. She said that the objective behind the concept of project based learning it is to engage or get maximum students involved in Projects, thereby enhancing their learning and placement prospects.

Dr. Sapna Prabhu commented that through Project Cell, some projects have been initiated for the E-Yantra competition. Groups of 4 students each from SE & TE classes have been formed and they are assigned the mentors.

Dr. Jagruti Save, informed that many mini-projects are going on in the IT Dept. The third year students are engaged in 4 hours separate project which was started during their second year. Under this project, students have developed 2 modules for website which can facilitate easy data collection. The project is still going on. The problem statement for second Year students is yet to be given. Many students are doing NPTEL courses and internships.

#### Item No.2: Innovative experiment for each lab. course

For every lab course, each student group can design and implement one innovative experiment, related to the subject. The respective faculty can guide the students. The best innovative experiment subjectwise / yearwise / department wise can be given recognition.

#### Item No.3: Academic Monitoring

 HODs will follow up the Lesson plan, Tutorial/Practical plan submitted by faculty.

- Principal apprised members about the change in FE term commencement date, as the CAP round reporting has been extended. Induction Programme, spread across the year, should be held as specified by the University. Institute should award certificates to all students on successful completion of the Induction Programme, based on their report and presentation. Dr. Hemant Khanolkar read out the schedule of the Induction Programme. Principal told Dr. Khanolkar to prepare an action plan, work out the logistics and keep records of the programmes for issue of certificates.
- Dr. Khanolkar informed that FE Results have been declared and the overall passing percentage of students is 74%. He read out subjectwise and branchwise passing percentages. Student from Production Engg. branch, Mr. Amit Dubey, stood overall first.
- It was decided to hold FE faculty meeting on the coming Monday. Chapter
  wise notes are to be prepared by faculty for first year students. Hard copy
  as well as soft copy of the notes can be given to first year students.
- Principal told that faculty members should start doing attendance entries from 19<sup>nd</sup> July 2019.

#### Item No.4: Effective use of laboratory slots

- Principal expressed concern that the Lab sessions are not effectively
  utilised. Placement companies had mentioned about the poor Practical
  knowledge and experience of students. The tendency of
  copying/downloading codes/expt. design should be curtailed. Teachers
  should give multiple and challenging problems to students in the same
  batch, so that students find solutions on their own. If required, internet can
  be disabled during specific lab sessions.
- HODs can identify good departmental projects which can be preserved and students re-imbursed, with proper bills. Project competitions can be held department-wise.

There was no other item for discussion.

Principal thanked members for attending the meeting and their active participation.

(Dr. SRIJA UNNIKRISHNAN) PRINCIPAL

#### Copy to:

- Rev. Fr. Peter D'Souza, Local Superior for information
- 2. Rev. Fr. Valerian D'Souza, Director for information
- 3. Dr. V.S. Jorapur 4. Dr. Sapna Prabhu 5. Dr. B.S. Daga
- 6. Dr., Jagruti Save 7. Dr. Hemant Khanolkar 8. Dr. D.V. Bhoir
- 9. Dr. S.K. Surve 10. Dr. Bhushan Patil 11. Dr. V.S. Bilolikar
- 12. Mr. Mahesh Sharma 13. Mr. C.B. Shetty

#### SAMPLE- CIRCULAR DEPARTMENT ADVISORY BOARD MEETING

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Fr. Agnel Ashram, Bandstand, Bandra (west), Mumbai 400050

Department of Computer Engineering

Ref/: CRCE/COMPS/2018\_19/DAB/5

Date: 18th June 2019.

#### CIRCULAR

The Fifth meeting of Departmental Advisory Board(DAB) is scheduled to be held on 26th June 2019 in Computer Lab 6th floor at 10.00AM

#### Agenda

- 1. Review of Previous DAB Minutes of Meeting.
- 2. To get inputs from experts about the actions to be taken with reference to the NBA committee feedback.
- 3. To discuss the assessment of the attainment of Program Outcomes, Program Specific Outcomes.
- 4. To discuss about Quality Improvement on academic processes.
- 5. To establish Centre of Excellence.
- 6. To promote internship opportunities for students.

Dr B.S. Daga

Head Of the Department,

Department of Computer Engineering,

Fr. Conceicao Rodrigues College of engineering

#### Members:

- 1) Dr. Srija Unnikrishnan (Principal, Fr.C.R.C.E.)
- 2) Dr. B.S.Daga (H.O.D. Computer Dept, Fr.C.R.C.E.)
- 3) Dr Narendra Shekhokar (Academic Expert, H.O.D. DJS College of Engineering)
- 4) Ms. Ipsita Bhattacharya (Industry Expert-Business Analyst at JPMorgan Chase & Co., Corporate Social Responsibility Manager at Trishul (NGO), Director of Strategy at Annadhan)
- 5) Mr. Mohak Gogri (Senior Software Engineer at Mobileum Technologies, Mumbai, Alumni, Fr.C.R.C.E.)
- 6) Mr. Ruben Monteriao (Software Development Engineer, Media.net, Alumni, Fr.C.R.C.E.)
- 7) Ms. Meryl Martis(Associate Software Engineer, BNP Paribas ISPL, Alumni, Fr.C.R.C.E.)
- 8) Prof. Swati Ringe (Program Co-Ordinator, Computer Department, Fr.C.R.C.E)
- 9) Prof. Sujata Deshmukh (Computer Department, Fr.C.R.C.E.)

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

Fr. Agnel Ashram, Bandstand, Bandra (west), Mumbai 400050 Department of Computer Engineering

Ref/: CRCE/COMPS/2018\_19/DAB/5

Date: 26<sup>th</sup> June 2019.

#### DAB MEETING ATTENDANCE

The Fifth meeting of Departmental Advisory Board(DAB) is scheduled to be held on  $26^{th}$  June 2019 in Computer Lab  $6^{th}$  floor at 10.00AM.

#### Agenda

- 1. Review of Previous DAB Minutes of Meeting.
- To get inputs from experts about the actions to be taken with reference to the NBA committee feedback.
- 3. To discuss the assessment of the attainment of Program Outcomes, Program Specific Outcomes.
- 4. To discuss about Quality Improvement on academic processes.
- 5. To establish Centre of Excellence.
- 6. To promote internship opportunities for students.

#### Members:

1) Dr. Srija Unnikrishnan (Principal, Fr.C.R.C.E.)

2) Dr. B.S.Daga (H.O.D. Computer Dept, Fr.C.R.C.E.)

1

3) Dr Narendra Shekhokar (Academic Expert, H.O.D. DJS College of Engineering)

Millar

- 4) Ms. Ipsita Bhattacharya (Industry Expert-Business Analyst at JP Morgan Chase & Co., Corporate Social Responsibility Manager at Trishul (NGO), Director of Strategy at Annadhan)
- 5) Mr. Aditya Desai (Senior Software Engineer at BNP Paribas, Mumbai, Alumni, Fr.C.R.C.E.)
- 6) Mr. Ruben Monteriao (Software Development Engineer, Media.net, Alumni, Fr.C.R.C.E.)

7) Ms. Meryl Martis(Associate Software Engineer, BNP Paribas ISPL, Alumni, Fr.C.R.C.E.)

8) Prof. Swati Ringe (Program Co-Ordinator, Computer Department, Fr.C.R.C.E)

9) Prof. Sujata Deshmukh (Computer Department, Fr.C.R.C.E.)

Jhr.

#### **SAMPLE- MINUTES DEPARTMENT ADVISORY BOARD MEETING**

# FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering 2019-2020 Minutes of Meeting of DAB

Ref/: CRCE/COMPS/2019 20/DABM/5

Date of meeting: 26<sup>th</sup> June 2019, Venue: 603 Lab

First Prof. Daga welcomed all the members and discussed the agenda of the meeting . Then he started with presentations. Further he discussed about vision and mission of institute and department. Following are points discussed in the meeting during the presentation of Prof. Daga

#### Agenda

- To get inputs from experts about the actions to be taken with reference to the NBA committee feedback.
- 2. To discuss the assessment of the attainment of Program Outcomes, Program Specific Outcomes.
- To discuss about Quality Improvement on academic processes.

#### Discussion and Action:

- 1) Curriculum gap and Content Beyond syllabus
  - Prof. Daga added that for academic year 18-19, department has communicated the curriculum Gap to BOS chairman, Computer. But there is no proper format from university side
  - Prof. Shekokar added that there should be credits or marks for value addition courses in aliened with AICTE curriculum.
  - Ms. Ipsita Bhattacharya suggested that alumni can guide about topics for content beyond syllabus which is industry specific.
- 2) Research paper writing- in discussion following strategies are suggested to improve paper writing for students
  - i. Collaborative assignment for paper presentation during Practical session for Second year ( project based learning)
  - ii. Review paper writing in TE students and one paper on Mini project.
  - iii. Paper presentation compulsory for BE projects.

- To motivate students for paper writing Full paper presentation amount/charges and expenses sponsorship by college.
- Need to create awareness about paper presentation among the students.
- Need of plagiarism checker software for Paper and assignment
- 3) Consultancy, funded project and Centre of excellence
- No funded projects because there is no proper dedicated research lab in the department.
  - Motivate the students to do External final year projects- final year projects with industry or company – take problem definition from different companies
  - Target small companies for Final year projects
  - Develop some dedicated labs for consultancy projects according expertise of faculties and market analysis.
- 4) other issues- suggested by members
  - Need to develop techno-managerial skill in students leadership skills
  - College to college collaboration to get more exposure to the students

  - Need to improve college visibility- suggested to involve many companies in fragmag (college magazine and add messages from CEO of different companies. and in this way we can get more sponsorships for the events.
  - Motivate students to add project contents on Github and add the handle in resume, to watch clear coding video
  - Question paper analysis- not/less attempted questions
  - strong students Harder assignments
  - Internship-
  - Departmental newsletter
  - include case study in subjects

B. s. Daga.

Following members were present in the meeting

Sr. No.	Name of DAB Member	
1	Dr. Narendra Shekokar	H.O.D. Computer Department, D.J. Sanghavi
	- SHCKOKAP	College of Engineering, Mumbai
2	Ms. Ipsita Bhattacharya	
3		Business Analyst at JPMorgan
	Mr. Mohak Gogri	Senior Software Engineer at Mobileum
		Technologies
4	Mr. Ruben Monteriao	Software Development Engineer, Media.net
5	Ms. Meryl Martis	Associate Software Engineer, BNP Paribas
6	Dr. B. S. Daga	HOD, Computer engineering, FRCRCE, Bandra
7	Dr. S. K. Surve	Dean Academics, FRCRCE, Bandra
8	Dr. Sujata P. Deshmukh	Program Coordinator, FRCRCE, Bandra
9	Prof. Swati Ringe	PAC committee member, FRCRCE, Bandra

gest

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

	FR. CONCEICAO RODRIGUES COLLEGE CA
	Department of Computer Engineering
	Form for DAB meeting
	Academic Year 2019-20
	Date: 26 <sup>th</sup> June 2018 Time: 10:00 am
	Venue: Computer Lab 603
<b>3:</b>	Suggestions by DAB Committee Members
u-	
	1) Suggestion for improvements given by the review of NBA Report
(	PEO, PSO, POs and Cos mapping and attainment need to be well understood by the
1	faculty and applied objectively to improve the teaching – learning.
1	- co should be well define by faculty, need to discuss with incluse before starty crapts. Co-po mapping with incluse before starty crapts. Co-po mapping weed to Review by domain expert my subject.
	There is no provision for continuous improvement based on feedback from different stakeholders.
	Please add your suggestion to improve this point
	Need to take feedback from Employer (Resourts).
G	The curriculum gaps need to be identified properly and curriculum difficulties should be brought to the notice of affiliating university.
	Please add your suggestion to improve this point  clericulum gap need to address by Twilibrate  Taken good initiative to Cammus, ate
	> There is not much happening beyond syllabus.
	Please add your suggestion to improve this point. Please Give the name of subject and advanced
	Loun Esca & NPTEL Courses. Courses.
	Courses.

-	
>	Industry-Institute interaction is mostly limited to expert talks. It should be improved to have
	hands-on experience and working on live projects.
	Pl add your suggestion to improve this point
2)	Suggestion for Center of excellence
1)	Please suggest the area for Center of excellence
	· · · · · · · · · · · · · · · · · · ·
2)	Please suggest the Hardware and software configuration for suggested Center of excellence  - For ML, GPU have H/W is right.
	- Fer ML, apu base H/W is required.
	- Fer ML, apu base H/W is required.
3)	
3)	- For ML aPV have H/W is required.  New labs suggestions collaborate with Lelush's like  TCS, Inforgsis or IIT for new leab Schip.  Please suggest the industries for Industrial visit.
3)	- For ML GPV base H/W is required.  New labs suggestions collaborate with Lolumbius like TCS, Inforgisis or IIT for new leab Schip.  Please suggest the industries for Industrial visit.  Purity Industries Wisit Shrehut should get apporthinities to learn 5/W dev. life cycle
3)	- For ML GPV have H/W is required.  New labs suggestions Collaborate with Identity like  TCS, Inforgis or IIT for new Leeb Schip.  Please suggest the industries for Industrial visit.  Purity Industries Wisit Shedut should get apporthinities to learn 5/W dev. life cycle  Other suggestions.
3)	- For ML GPV base H/W is required.  New labs suggestions collaborate with Lolumbius like TCS, Inforgisis or IIT for new leab Schip.  Please suggest the industries for Industrial visit.  Purity Industries Wisit Shrehut should get apporthinities to learn 5/W dev. life cycle

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

Department of Computer Engineering
Form for DAB meeting
Academic Year 2019-20
Time: 10:00 am
Date: 26 <sup>th</sup> June 201 <u>9</u>
Venue: Computer Lab o03  Suggestions by DAB Committee Members
1) Suggestion for improvements given by the review of NBA Report
Society and attainment need to be well attainmen
faculty and applied objectively to improve the teaching - learning.  Howe an idea of the walenge statements  Please add your suggestion to improve this point weed life walenge statements.
Please add your suggestion to improve this point used in seal life challenge source
Be a part of linked In ambanadur programs where students will get
the state of the s
> There is no provision for continuous improvement based on feedback from different stakeholders.
at the second se
Have a dedicated group of Board Members from corporate preferre
Please add your suggestion to improve this point  Have a dedicated group of Bhard Members from corporate preferance  courge among to keep meeting department head & design a curriculum mat
should help students to bridge the got
> The curriculum gaps need to be identified properly and curriculum difficulties should be brought
to the notice of affiliating university.
Please add your suggestion to improve this point
Take up some online courses from coursera for example: Machine learning by
standard university) These seally help-to improve knowledge and make studen
industry ready, apart from having industry ready cortificates
> There is not much happening beyond syllabus.
Please add your suggestion to improve this point. Please Give the name of subject and advanced
topics for it.   > Trite lectures farm IIT for 2 to 3 days courses
Encourage industry experts to talk about up coming
bugging topics and train students
3) conduct carification course works hops over the semeste
break for interested students ( &g. Python)
y Introduce concepts like Agile software perelopment model
as industry thives on it.

Pladd your suggestion to improve this point Maintain profiles on Linked In Research Coate.  Pladd your suggestion to improve this point Maintain profiles on Linked In Research Coate.  Mould be educated to students and encouraged to collaborate?  Nith pushing PhD faculty and help each other in the research domain.  Start research eight from Ind year and build on to final year.  Industry-Institute interaction is mostly limited to expert talks. It should be improved to have
hands-on experience and working on live projects.
Pladd your suggestion to improve this point  Boot camps, astification course based workshops  Use allies whe Github and start having all your projects  We online for any one-to go and see your more live  Teach and based concepts for putting applications live  2) Suggestion for Center of excellence
1) Please suggest the area for Center of excellence  Big Data, Analytics, Machine learning, Der Opes wing Kubernetes,  Annazon web Services, Tallean could be encouraged for  Annazon web Services, Tallean could be encouraged for  Making students industry ready and were company forward.  2) Please suggest the Hardware and software configuration for suggested Center of excellence  The parke the bandwidth (net work) for usual connectivity  Highlight partical application in industry for algorithms  (eg. Hash used for credit cased)  Interduce tools (industry wide) for each Surject
3) New labs suggestions
get the IT paels in Pune & Bargalore . Infasys in mysore in yantra Poole Thank, Quinnoz (mumbai), JP Margan (kalina)
5) Other Suggestions  > Focus on techno managerial skills such as Fintech based work and collaborate with Barclay, margan stanley, It margan.  > Create prefiles on code they and other reputed voding danking platforms to show case in profile.
Name of DAB member: I psitar Rhattacharya Sign: Ipsitar Rhattacharya
Leach out to stortups for 2nd/3ndyear computer/IT projects  Target IT companies for college events sponsoronips so that a  etter network is weated to velp in placements  invite companies to publish tech arbides in Fragmag to collaborate with research we created with ScanWritr Online editor  multiple knowledge shill g https://www.scanwritr.com/hnologies

## Department of Electronics and Computer Science

#### FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

Fr. Agnel Ashram, Bandra, Mumbai 400 050

#### Minutes of the Meeting

Meeting: Departmental Advisory Board (DAB)

Date and Time: September 21, 2019 at 11.00am

Location: Conference Room, First floor (101)

#### In Attendance:

Dr. Sapna Prabhu, HOD, ECS Department, Fr. CRCE

Mr. Parag Doshi, Director, Chenao Information & Software Services Ltd.

Mr. Mustafa Fatakadawala, Tata Consultancy Services Ltd.

Mrs. Rupali Hirlekar, Larsen & Toubro Infotech Ltd.

Dr. D.V. Bhoir, PAC member, Electronics Department, Fr. CRCE

Prof. K. Narayanan, PAC member, Electronics Department, Fr. CRCE

Prof. Monica Khanore, PAC member, ECS Department, Fr. CRCE

Prof. Shilpa Patil, Programme Coordinator, ECS Department, Fr.CRCE

#### Agenda

- 1. To read out the minutes of the previous meeting
- Discussion on the scheme of the newly introduced course, B.E. in Electronics and Computer Science
- 3. Suggestions on building the infrastructure in view of the reframed course
- 4. Discussion on the further course of action in compliance with NBA
- 5. Any other matter with the permission of the Chair

Head of ECS Department, Dr. Sapna Prabhu who chaired the meeting, introduced and welcomed the new members. Prof. Shilpa Patil (Program Coordinator) read out the minutes of the previous meeting.

Dr. Sapna Prabhu informed all the members that the Department has been sanctioned by AICTE the change of undergraduate course from B.E. Electronics Engineering to B.E. Electronics and Computer Science. She briefed the members about the proposed scheme of ECS syllabus.

The DAB members agreed on the following suggestions in the proposed syllabus:

- 1. Inclusion of
  - i) Security of code and usability in Software Engineering subject
  - ii) Mobility in Operating Systems.
  - iii) Mean stack in 4th semester laboratory course,
  - iv) Design patterns in Object Oriented programming (JAVA)
  - One more subject on Cloud Computing in earlier semester (In place of Analysis of Algorithm)
  - vi) Mobile databases in DBMS
  - vii) Apache Server in Computer Networks
  - viii) Virtualization in COA
  - ix) UI technologies
- Unix operating system and Automata Theory are obsolete; hence can be removed from syllabus.
- Conducting industry expert talks to give the students perspective of the job requirements and conducting workshops to improve students' soft skills

Mr. Parag Doshi insisted that six months internship in the industry should be included in the syllabus that will give students exposure to the real life projects and industry working environment.

Mr. Mustafa informed about the AWS company for conducting certification courses in Cloud computing.

Regarding the infrastructure development, the DAB members expressed the need to connect the entire system to cloud, increase in bandwidth, more wifi points, availability of devices like tablets, ipad.

As Dr. Bhoir gave the overview of research projects going on in the department, Mr. Parag Doshi suggested that a team of faculty members may be formed to approve and give projects to students.

The meeting ended with vote of thanks by Dr. Sapna Prabhu.

#### **SAMPLE - CIRCULAR PROGRAM ASSESSMENT COMMITTEE**

FR.CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Fr. Agnel Ashram, Bandra, Mumbai 400 050
Department of Computer Engineering

Circula

14th January 2015

#### CIRCULAR

#### **Sub: Formation Programme Assessment Committee**

Programme Assessment Committee (PAC) has been constituted in the computer department. This Committee will review the Course Assessment Plans, Lecture Plans of the faculty members. The committee will review the unit test papers for the factors such as their correlation with the course outcomes, syllabus coverage and marking scheme availability. Constitution of PAC is as follows.

- 1. Prof. Merly Thomas, Member.
- 2. Prof. Swati Ringe, Program Coordinator.
- 3. Prof. Roshni padate, Member.

All the computer department faculty members are informed to submit their documents to the committee as and when asked for; as per the review schedule.

(DR. Sunil Surve)

H.O.D. Computer Dept.

Copy to: -

Prof. Merly Thomas

Prof. Swati Ringe

Prof. Roshni Padate

#### RECONSTITUTION OF PAC COMMITTEE-(2019-2020)

#### FR.CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Fr. Agnel Ashram, Bandra, Mumbai 400 050 **Department of Computer Engineering** 2019-20

Date: 01/06/2019

#### Reconstitution of PAC committee

PAC committee is reconstituted and following are the member of PAC committee.

- 1) Dr. B. S. Daga, HOD Computer
- 2) Dr. Sunil Surve, PAC member
- 3) Dr. Sujata P. Deshmukh, NBA coordinator
- 4) Prof. Swati Ringe, PAC member
- 5) Dr. Sujata P. Deshmukh, PAC member
- 6) Prof. Merly Thomas, PAC member
- 7) Prof. Roshani Padate, PAC member

Following are the responsibilities of PAC members

- 1) Lesson plan assessment as per NBA process (Syllabus, CO, CO-PO-PSO mapping, Rubrics, list of experiments, tool, scheme)
- 2) Curriculum Gap and content beyond syllabus
- 3) Test Paper question framing as per Course CO
- 4) Attainment calculations

Dr. B. S. Daga HOD Computer

#### **SAMPLE - CIRCULAR PAC MEETING (2019-2020)**

FR.CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Fr. Agnel Ashram, Bandra, Mumbai 400 050
Department of Computer Engineering

Ref/: CRCE/COMPS/2019\_20/PACM/3

Date: 12/02/2020

CIRCULAR PAC Meeting

To,
The Faculty Members,
The Department of Computer Engineering,

A PAC Meeting is scheduled to be held on 12/02/2020 at 01:30PM in the Staff Room

Date: 12/02/2020 Time: 01.30PM

Venue: Computer Lab 704 (7th floor)

#### Agenda:

- 1. CO Assessment Plan (CO Statements, Mapping, Lecture Plan, Rubrics, Tools)
- 2. Test1 Question papers: Correlation of question with CO
  - Subject coverage
  - Marking Scheme/Evaluation guidelines Prepared
- 3. Assignments Plan
- 4. Curriculum Gap

All the faculty members are requested to attend the meeting. Schedule is attached with this.

**SIGNATURE** 

Dr. Sujata Deshmukh Program Co-ordinator

#### **SAMPLE - MINUTES OF PAC MEETING**

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
Fr. Agnel Ashram, Bandra, Mumbai 400 050
Department of Computer Engineering

Ref/: CRCE/COMPS/2019\_20/PACMM/3

#### Minutes of PAC Meeting

Date: 12 Febuary 2020

Venue: Computer Lab 704 (7th floor)

Time: 1:30PM

Meeting was held by Program Assessment committee (PAC) with all the faculty members of Computer Engineering Department on  $02^{nd}$  August 2019.

Agenda:

ex

- 1. CO Assessment Plan presentation (CO Statements, Mapping, Lecture Plan, Rubrics, Tools)
- 2. Test1 Question papers: Correlation of question with CO
  Subject coverage
  Marking Scheme/Evaluation guidelines Prepared
- 3. Assignments: Mapping with CO with rubrics.

#### Discussion and Review was done during the meeting.

#### 1. CO Assessment Plan submission

Review done on the criteria:

CO Statements as per Blooms's Taxonomy,

CO-PO-PSO Mappings are present,

CO Assessment tools are present.

Rubrics are present for all tools of assessment.

Lecture Plan with teaching learning methods is prepared.

The faculties are suggested some modifications at various places in the CO assessment plan and informed to update their plans.

#### 2. Test1 Question papers

Review done on the syllabus portion for test Mapping of questions with CO and Evaluation guidelines are present.

#### 3. Assignments:

Review done on the Assignments for Mappings with CO and corresponding Rubrics.

SIGNATURE

Dr. Sujata Deshmukh Program Co-ordinator

C.C.: Dr. B. S. Daga,
Prof. Merly Thomas
Prof. Roshni Padate
Prof. Swati Ringe

#### Fr. Conceicao Rodrigues College of Engineering Department of computer Engineering 2019-20

PAC Review-meeting Schedule and Report

Date: 12 /02/20202

Sr.no	Faculty	Sign	Subject	Time	PAC Remark	PAC
SI.HO	Name					sign
	Dr. Sunil					
	Krishnaji					-
	Surve					3323
2	Dr. Brijmohan	1	SE	4:30	tgile Porcers based	100
	Satyanarayan Daga	15			Model suggested in	A,
3	Dr. Sujata	an	DWM	1:30pm	use sans tool case	1,00
	Deshmukh	1	1000		study Lesson Plan is evaluated with all contents	An.
4	Mrs. Merly		DC	1:45	Co. Po. Pso mospling Olesson	an.
	Thomas	- als		pm	Plan, phactical Plans, Restorer.	2
	Puthiyadom	Om	773			
5	Ms. Roshni	1	GG	2:00	Co-po mapping, Assessment, Rubble Lecture plane - practical plan	Alah
	Suresh	pour		pm	All present	
	Padate	1	HMI	4:15pm	Co-po mapping, Assessment plan	Anh.
		porher			Publice, Lecture Plan, Practices	- Wh
6	Mrs. Kalpana		er-	2:15	co-po wapping, Lab plan, Tutord	A
1	Prasanna	1. Span	CP	pm	Dlace Lockes a place non 1	Juli-
	Deorukhkar	Max.			Tools, Publice - All present	1
7	Mrs. Swati		NLP	2:30	CO-PO mapping Assessment Plan	
	Mukul Ringe			pm		
		125			Practical fiel, Evaluation cultivist Pages - All pregent	IN
		18	OSTL		CO - DO Mannin A -	1 pr
		100 M			High of his Lab plan,	Thele
					- All in course fil	11.00

dulle for

	8	Mrs. Ashwini	Afansar	AOA	2:45	New Questin Pobe added
	8	Amit Pansare	Micor		pm	Suggest to include  From Confire Centrication &  Harretten Burbum HackerRank.
		Mrs. Dipali		CP	3:00	as no was Black accoment man
	9	Yogesh Koshti	Mosh		pm	Luberie, Test papers solutions
		Mrs. Supriya	X	SPCC	3:15	CO-PO mapping, Assessment plan And
	10	Shivanath	1		pm	Rubeice, Lecture / Practical plan (1 new experient)
		Kamoji			1	
	-	Mrs. Monali		CP	3:30	As enpresion Record!
	11	Nitesh Shetty	M		pm	45%
	12	Mr. Sunil	-	CSS	3:45	CO-PO, ASO mapping, Assessment Plan of Rubeies, technic plan, Praekal plan of hat of experients. Suggestion: Add Co, PO 11 mapping of
eri,	12	Dilip	25%.		pm	hat of explunents.
		Chaudhari	W.			Suggishand: Add Co, PO 11 mapping &
	13	Mr.		OS	4:00	co-po, tools, reans rubnes
		Mahendra	/		pm	present. List of exply.  Present me lineline present
		Chandrasingh	X			
		Mehra				Suggested - raise target

#### SAMPLE - CO ASSESSMENT PLAN

#### FR. Conceicao Rodrigues College Of Engineering

Father Agnel Ashram, Bandstand, Bandra-west, Mumbai-50
Department of Computer Engineering
S.E. (Computer) (semester III)
(2019-2020)

Course Outcomes & Assessment Plan

Subject: Digital Logic Design and Analysis (Course Code CSC302)

Credits-4

#### Syllabus:

#### 1. Number Systems and Codes:

Introduction to number system and conversions: Binary, Octal, Decimal and Hexadecimal number Systems, Binary arithmetic: addition, subtraction (1"s and 2"s complement), multiplication and division. Octal and Hexadecimal arithmetic: Addition and Subtraction (7"s and 8"s complement method for octal) and (15"s and 16"s complement method for Hexadecimal). Codes: Gray Code, BCD Code, Excess-3 code, ASCII Code. Error Detection and Correction: Hamming codes.

#### 2. Boolean algebra and Logic Gates

Theorems and Properties of Boolean Algebra, Boolean functions, Boolean function reduction using Boolean laws, Canonical forms, Standard SOP and POS form. Basic Digital gates: NOT, AND, OR, NAND, NOR, EXOR, EX-NOR, positive and negative logic, K-map method 2 variable, 3 variable, 4 variable, Don't care condition, Quine-McClusky Method, NAND-NOR Realization.

#### 3. Combinational Logic Design

Introduction, Half and Full Adder, Half subtractor Full Subtractor, Four Bit Ripple adder, look ahead carry adder, 4 bit adder subtractor, one digit BCD Adder, Multiplexer, Multiplexer tree, Demultiplexer, Demultiplexer tree, Encoders Priority encoder, Decoders, One bit, Two bit, 4-bit Magnitude Comparator, ALU IC 74181.

#### 4. Sequential Logic Design:

Introduction: SR latch, Concepts of Flip Flops: SR, D, J-K, T, Truth Tables and Excitation Tables of all types, Race around condition, Master Slave J-K Flip Flops, Timing Diagram, Flip-flop conversion, State machines, state diagrams, State table, concept of Moore and Mealy machine. Counters: Design of Asynchronous and Synchronous Counters, Modulus of the Counters, UP- DOWN counter, Shift Registers: SISO, SIPO, PIPO, PISO Bidirectional Shift Register, Universal Shift Register, Ring and twisted ring/Johnson Counter, sequence generator.

#### 5. Introduction to VHDL

Introduction: Fundamental building blocks Library, Entity, Architecture, Modeling Styles, Concurrent and sequential statements, simple design examples for combinational circuits and sequential circuits

#### 6. Digital Logic Families

Introduction: Terminologies like Propagation Delay, Power Consumption, Fan in and Fan out, current and voltage parameters, noise margin, with respect to TTL and CMOS Logic and their comparison

#### Course Objectives (optional):

- 1. To introduce the fundamental concepts and methods for design of digital circuits and a pre-requisite for computer organization and architecture, microprocessor systems.
- 2. To provide the concept of designing Combinational and sequential circuits.
- 3. To provide basic knowledge of how digital building blocks are described in VHDL.

#### **Course Outcomes:**

Upon completion of this course students will be able to:

CSC302.1: Perform number system and code conversions. (Comprehension)

CSC302.2: Design combinational circuits. (Apply)

CSC302.3: Design sequential circuits. (Apply)

CSC302.4: Design and implement a solution for a simple real world problem based on the learned concepts of digital Logic design. (Analyze , Apply)

#### Mapping of CO and PO/PSO

Relationship of course outcomes with program outcomes: Indicate 1 (low importance), 2 (Moderate Importance) or 3 (High Importance) in respective mapping cell.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	(Engg	(Ana)	(De	(inve	(tools)	(engg	(Env)	(Eth)	(ind	(com.)	(PM)	(life
	Know)		sign)	stiga)		Soci)			Team)			Long)
CSC302.1	3											
CSC302.2	3	2	3		1							
CSC302.3	3	2	3		1							
CSC302.4	3	3	3		3				2	2		
Course	3	2.6	3		1.6				2	2		
To PO												

CO	PSO1	PSO2
CSC302.1	3	
CSC302.2	3	
CSC302.3	3	
CSC302.4	3	
Course to PSO	3	

#### Justification

PO1: All COs are mapped to PO1 because engineering graduates will be able to apply the knowledge of mathematics & Digital electronics fundamentals to solve complex engineering problems.

Level 3 - The course demands mathematical concept to be applied to solve given problems. Also basic knowledge of digital electronics and fundamental of computer system is required.

PO2: CSC302.2, CSC302.3 and CSC302.4 are mapped to PO2 because the students analyze the given problem statement before designing the actual circuit.

Level 2 – CSC302.2 & CSC302.3 Before designing any circuit for the given problem, students perform basic level of pre-analysis. (Analysis Includes identifying inputs - outputs, deriving truth table, minimization of output expression, Identify method for minimization, identify components to be used)

Level 3 – CSC302.4 – In order to provide a solution to a real world chosen problem, students design and then analyze the behavior of a circuit. Here students do rigorous analysis to obtain the desired output.

PO3: CSC302.2, CSC302.3 and CSC302.4 are mapped to PO3 because the students design the digital circuits and implement them using hardware components.

Level 3: Because the course involves designing of various combinational and sequential circuits, students actually design the circuit and implement it in laboratory.

#### PO5:

CSC302.2 and CSC302.3 are mapped to PO5 because students use advance tool such as VHDL to analyze the basic combinational and sequential circuit.

Level 1 -Since basic analysis is done using VHDL.

**CSC302.4** maps to PO5 because the students use various tools for example VHDL, Arduino Uno various actuators and sensors etc. to simulate/implement a real world problem.

Level 3 - Since students translate real world problem to digital network and analyze the circuit using various tools; the nature of the problem is more complex here.

PO9: CSC302.4 is mapped to PO9 because the students work in a team to design and implement a solution for a chosen real world problem.

Level 2 - Since it's a mini project that give them first level of experience of being in a team; not rigorous team work is involved. Hence level is 2.

PO10: CSC302.4 is mapped to PO10 because the students explain mini project by demonstrating the project and also submit written report for the same.

Level 2 - basic level of presentation skills and written skills are expected.

**PSO1**: All COs are mapped to PSO1 because the graduates will be able to apply knowledge of Digital Electronics to simulate the real world problem.

#### **Course Outcomes Target:**

Upon completion of this course students will be able to:

CSC302.1: Perform number system and code conversions. (Comprehension)

CSC302.2: Design combinational circuits. (Apply) CSC302.3: Design sequential circuits. (Apply)

CSC302.4: Simulate real world problems using VHDL. (Analyze & Apply)

#### Target:

CSC302.1: 2.5 CSC302.2: 2.5 CSC302.3: 2.5 CSC302.4: 2.5

#### **Previous Years' Achievements**

CO	Year 2018-19	Year 2017-18
CSC302.1	1.88	2.36
CSC302.2	2.2	2.2
CSC302.3	2.36	2.04
CSC302.4	3	2.44

#### **CO Assessment Tools:**

CSC302.1: Perform number system and code conversions

Direct Methods(80%): Test 1 + Module Test 1 + Quiz1 + UniExamTh + UniExam Pr

CO1dm = 0.2T1 + 0.2 MT+ 0.2 Q1 + 0.2UTh + 0.2 UPr

InDirect Methods(20%): Course exit survey

CO1idm

CSC302.1 = 0.8\*CO1dm + 0.2\*CO1idm

Direct Methods	Weightage	Target	Date	Marks
Test 1	0.2	65% students will score minimum 65%		Q-1 (08M)
		marks (i.6. 6 or more out of 10)		
Module Test1	0.2	70% students will score minimum 70%	4 <sup>th</sup> week of July	10M
		marks (i.e. 7 or more out of 10)		
Quiz1	0.2	65% students will score minimum 70%	4 <sup>th</sup> week of July	20M
		marks (i.6. 14 or more out of 20)		
Uni Theory	0.2	60% students will score minimum 60%		80M
exam		marks (i.6. 48 or more out of 80)		
Uni. Practical	0.2	60% students will score minimum 70%		25M
Exam		marks (i.6. 17.5 or more out of 25)		

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#### CSC302.2: Design combinational circuits.

Direct Methods(80%): (Test1+Test2) + Lab + Assignment1 + UniExamTh + UniExam Pr

CO2dm = 0.2T1 + 0.2Lab + 0.2A1 + 0.2UTh +0.2UPr

InDirect Methods(20%): Course exit survey

CO2idm

CSC302.2 = 0.8\*CO2dm + 0.2\*CO2idm

Direct	Weightage	Target	Date	Marks
Methods				
Test	0.2	60% students will score minimum 60% marks (i.6. score 9 or more out of 15)	T1-14/8/19	<b>18M</b> Q-2(8)+Q-3(4) in T1 & Q-1 (6M) T2
Lab	0.2	70% students will score minimum 70%	Exp 1 to 7 &	80M
		marks.(i.e score 56 or more out of 80)	Exp 11	
Assignment1	0.2	70% students will score minimum 70% marks (i.6. score 07 or more out of 10)		10M
Uni Theory exam	0.2	60% students will score minimum 60% marks (i.6. 48 or more out of 80)		80M
Uni. Practical Exam	0.2	60% students will score minimum 70% marks (i.6. 17.5 or more out of 25)		25M

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#### CSC302.3: Design sequential circuits.

Direct Methods(80%): Test2 + Module Test 2 + Lab + UniExamTh + UniExamPr

CO3dm = 0.2T2 + 0.2M2 +0.2Lab + 0.2UTh + 0.2UPr

InDirect Methods(20%): Course exit survey

CO3idm

CSC302.3 = 0.8\*CO3dm + 0.2\*CO3idm

Weightage	Target	Date	Marks
0.2	60% students will score minimum 60% marks	T2- 15/10/19	14M
	(i.6. score 9 or more out of 15)		[Q2(6) + Q3(8)] in T2
0.2	70% students will score minimum 70%	EXP 8,9,10 &	40M
	marks.(i.e score 28 or more out of 40)	12	
0.2	60% students will score minimum score 60%	1 <sup>st</sup> week of	20M
	marks (i.e. score 12 or more out of 20)	October	
0.2	60% students will score minimum 60% marks		80M
	(i.6. 48 or more out of 80)		
0.2	60% students will score minimum 70% marks		25M
	(i.6. 17.5 or more out of 25)		
	0.2 0.2 0.2	0.2 60% students will score minimum 60% marks (i.6. score 9 or more out of 15)  0.2 70% students will score minimum 70% marks.(i.e score 28 or more out of 40)  0.2 60% students will score minimum score 60% marks (i.e. score 12 or more out of 20)  0.2 60% students will score minimum 60% marks (i.6. 48 or more out of 80)  0.2 60% students will score minimum 70% marks	0.2 60% students will score minimum 60% marks (i.6. score 9 or more out of 15)  0.2 70% students will score minimum 70% EXP 8,9,10 & marks. (i.e score 28 or more out of 40)  12  0.2 60% students will score minimum score 60% arks (i.e. score 12 or more out of 20)  0.2 60% students will score minimum 60% marks (i.e. score 12 or more out of 20)  0.2 60% students will score minimum 60% marks (i.6. 48 or more out of 80)  0.2 60% students will score minimum 70% marks

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<u>CSC302.4:</u> Design and implement a solution for a simple real world problem based on the learned concepts of digital Logic design.

Direct Methods(80%): MiniProject , lab

CO4dm = 0.2 Lab + 0.8 MP

InDirect Methods(20%): Course exit survey

CO4idm

CSC302.4 = 0.8\*CO4dm + 0.2\*CO4idm

Direct Methods	Weightage	Target	Date	Marks
Lab	0.2	70% students will score	Exp. 3-12	100M
		minimum 70% marks.(i.e		
		score 14 or more out of 20)		
Mini Project	0.8	60% students will score	Submission:	15M
		minimum 70% marks.(i.e	1 <sup>st</sup> and 2 <sup>nd</sup> week of	
		score 10.5 or more out of October		
		15)		

#### **Content Beyond Syllabus:**

Introduction to IoT

#### **Curriculum Gap:**

Indicator	Poor	Average	Good	Excellent

- Introduction to 8085 Processor to get better and practical applications of registers and ALU.
- In order to understand current applications, trends and new directions in logic design following topics shall be covered.

Sr.No.	Curriculum gap contents	Action Plan	
1	Introduction to IOT	Self-learning online resource is provided on	
		Moodle and flip class room activity.	

### List of Experiments with CO mapping

Sr. No	Title	СО
1.	To study and verify the truth table of various logic gates using ICs and realize Boolean expressions using gates.	CSC302.2
2.	To realize basic gates using universal gates.	CSC302.2
3.	To realize arithmetic circuits i) Half adder ii) Full adder iii) Half subtractor iv) Full subtractor.	CSC302.2
4.	To realize binary to gray code and gray code to binary converter.	CSC302.2
5	To realize parity generator and detector.	CSC302.2
6.	To Study multiplexer IC and realization of full adder using multiplexer IC	CSC302.2
7.	To realize 2 bit magnitude comparator.	CSC302.2
8.	Study of flip-flops using IC's	CSC302.3
9.	To realize shift registers using flip flops	CSC302.3
10.	To realize asynchronous 3 bit up counter.	CSC302.3
11	To realize combinational circuit using VHDL	CSC302.2
12.	To realize basic Sequential circuit using VHDL	CSC302.3
13.	Mini Project – Design and Implement a real world problem using learned concepts of digital Electronics	CSC302.4

## **Rubrics for Experiments:**

Analysis of problem and Circuit optimization (2)	More than two session late (0) Failed to do proper analysis, Very complex circuit(0.5)	Two sessions late (1)  Analysis done. The circuit is structured but unnecessary lengthy (1.5)	One session late (1.5) N.A.	Early or on time (2) Detailed analysis done. The circuit is structured and efficient.(2)
Output (4)	Failed to implement a complete design. Partial implementation. No output (1)	Hardware implementation done but failed to show output due to some error. (2)	Hardware implementation done.  Output shown but some of the test cases not working. (3)	Expected output shown. All test cases verified.  (4)
PostLab Assignment (2)	Not able to solve(0)	Able to solve 25% (1)	Able to solve 50%(1.5)	Able to solve all questions(2)

#### **Rubrics for the Mini Project:**

Mini project that covers design and implementation of important Digital circuits' concepts of the course, is allotted to the students in groups. The requirements will be announced in advance and discussed in class. The students' progress on their project will be discussed in the practical session and faculty office. Finally at the time of submission the students will present the demonstration of their project in lab session and submit a report for the same.

Indicator	Poor	Average	Good	Excellent
Timeline Maintains project deadline (2)	More than two session late (0.5)	Two sessions late (1)	One session late (1.5)	Early or on time (2)
Completeness Complete all parts of project (3)	< 40% complete (1)	~ 60% complete (2)	~ 80% complete (2.5)	100% complete(3)
System Design (3) Block diagram And circuit realization	NA	Designed circuit with basic gates (2)	Designed with NAND or NOR but not minimum (2.5)	Correct Designed with NAND or NOR Logic (3)
Report Submission(2)	N/A	Submitted one session late (1)	Partial steps are followed (1.5)	All steps are followed and well documented (2)

#### Schedule of mini project submission:

Stages of mini project	Date of submission
Project topic submission	16-Sep-2019
Analysis submission	23-Sep-2019
Design Submission	30-Oct-2019
Implementation	Second week of October

## Rubrics for Assignments:

Indicator	Very Poor	Poor	Average	Good	Excellent
Timeline (2)	Assignment not submitted (0)	More than one week late (0.5)	Two weeks late (1)	One week late (1.5)	Early or on time (2)
Organization (2)	N/A	Very poor readability and not structured (0.5)	Poor readability and somewhat structured (1)	Readable with one or two mistakes and structured (1.5)	Very well written and structured without any mistakes (2)
Solution (3)	N/A	All solutions incorrect (0)	More than 50% Solutions are incorrect (1)	20-30% solutions incorrect (2)	All problems solved correctly (3)
Depth and breadth discussion (3)	N/A	None in evidence; superficial at most (0.5)	Minor points/inform ation may be missing and discussion is minimal (1)	Discussion centers on some of the points and covers them adequately (2)	Information is presented in depth and is accurate (3)

#### **Assignments:**

#### **ASSIGNMENT 1:**

Date of Assignment: 30-08-2019

Date of submission: 12-09-2019

**Date of submission: 12-09-2019** Year: 2019-2020

Maps to CSC302.2: Design Combinational circuits

#### Real world problems:

**Q-1** A step in space vehicle checkout depends on 4 sensors s1, s2, s3 and s4. Circuit is properly working if sensors s2 and at least two of the other three sensors are at logic 1. Implement the system.

Q-2 Design a circuit with 4 inputs that has outputs with a binary value equal to the number of inputs that are HIGH.

**Q-3** Design a combinational logic circuit with a single output that will serve as an "auto buzzer circuit in a car. The circuit should output a HIGH signal (to sound a buzzer) for each of the following conditions:

- 1) A driver's DOOR is open and the KEYS are in the ignition.
- 2) If the SEAT is occupied and the SEATBELTS are not buckled and the KEYS are in the ignition.

Determine the truth table for the circuit described above. Determine the minimal circuit and draw it using NAND gates only.

[Hint: A – Door (1 - open , 0 - closed) , B – KEYS (1 – in ignition , 0 – Not in ignition), C – SEAT (1- occupied, 0 not occupied), D – SEAT BELT (1 – buckled, 0 – not buckled)]

Q-4 A bank wants to design an alarm system for its safety. The alarm will sound.....

- 1) If bank is open (B=1) and there is a robbery (R=1) , alarm at bank (BA=1) and police station (PA=1) will sound
- 2) If bank is closed (B=0) and there is a robbery (R=1), alarm will sound at police station only (PA=1).
- 3) If there is a fire (F=1) while the bank is open (B=1), the alarm will sound in the in the bank (BA=1) and fire station (FA=1).
- 4) If there is fire (F=1) while the bank is closed (B=0), alarm will sound at fire station (FA=1) only.

Determine the truth table and design the circuit using basic gates (AND, OR, NOT, EXOR etc).

#### Design problems:

- Q-5 Design 4- bit BCD subtractor using 4-bit parallel adder (IC 7483).
- Q-6 Design BCD to seven segment display decoder.
- Q-7 Design a combinational logic circuit that will multiply two 2-bit numbers.
- **Q-8** Simplify using Quine's McCluskey method.  $F(A,B,C,D) = \Sigma m(0,1,4,5,9,10,12,14,15) + \Sigma d(2,8,13)$ .

[04]

Verify your answer using KAMP.

Q-9 Design 32:1 MUX using 4:1 MUX. How many MUX do you need?

Q-10 Design 24-bit magnitude comparator using IC 7485.

**Q-11** Implement following Boolean function using 4:1 MUX.  $F(A,B,C,D,E) = \Sigma m(0,1,2,3,6,8,9,10,13,15,17,20,24)$ 

#### **Module Test 1:**

Class: S.E. Comp (Sem III) Date: 26-07-2019
Subject: DLDA Time: 11:00 to 12:00

Maps to CO1: Perform number system conversion

#### Set-1

Q-1 Convert decimal number 576.24 into Binary, ,octal, base 9 and Hexadecimal. [04]
Q-2 Construct Hamming code for 1010 using odd parity. [04]
Q-3 Convert (-89) into equivalent signed magnitude, 1'complement and 2'scomplement form [04]
Q-4 Perform subtraction using 2's complement. (62)<sub>10</sub> –(99)<sub>10</sub> [04]
Q-5 Perform subtraction using 16's complement [04]
i) (CB1)<sub>16</sub> – (971)16
ii) (426)<sub>16</sub> – DBA)<sub>16</sub>

#### Set -2

- Q-2 Construct Hamming code for 1010 using even parity. [04]
  Q-3 Convert (-80) into equivalent signed magnitude, 1'complement and 2'scomplement form [04]
  Q-4 Convert (47.3)<sub>10</sub> to Gray code [04]
  Q-5 Perform Following [04]
  - i) addition of (34)8 and (62)8.
  - ii) Perform (289)<sub>H</sub> (1AD)<sub>H</sub> without converting to any other base.

Q-1 Convert decimal number 1762.46 into Binary, octal , base 7 and Hexadecimal.

#### **Module Test 2:**

Brach/ Semester: Computer/III Date: 09-10-2019
Course: DLDA (CSC302) Duration: 1 Hr.

Q-1 Implement following logic function using 8:1 Mux. [06]

 $F(A,B,C,D) = \Sigma m(1,3,5,10,11,13,14)$ 

Q-2 Design Mod – 6 asynchronous counter. Also draw timing diagram. [07]

Q-3 Design MOD-6 synchronous counter using T flipflops. [07]

OR

Q-3 Design synchronous counter for the following sequence

0-> 1 -> 3 -> 4 -> 6 -> 0

## FR. Conceicao Rodrigues College Of Engineering

Father Agnel Ashram, Bandstand, Bandra-west, Mumbai-50
Department of Computer Engineering
S.E. (Computer) (semester III)

Lesson Plan: Digital Logic Design And Analysis

Semester III Year: 2019-20 Modes of Content Delivery:

i	Class Room Teaching	V	Self Learning Online Resources	lx	Industry Visit
ii	Tutorial	vi	Slides	X	Group Discussion
iii	Remedial Coaching	vii	Simulations/Demonstrations	xi	Seminar
iv	Lab Experiment	viii	Expert Lecture	xii	Case Study

Lect. No.	Portion to be covered	Planned date	Actual date	Content Delivery Method/Lea rning Activities	Refere nce materi al
	MODULE 1: Number Systems and Codes				
1.	Introduction to the subject, Revision of Binary, Octal, Decimal and Hexadecimal number Systems.	1/7/19	1/7/19	Class Room Teaching	i
2	Number system conversion and Numerical on number system conversion	3/7/19	3/7/19	Class Room Teaching	i
3	Number system conversion and Numerical on number system conversion	4/7/19	4/7/19	Class Room Teaching	i
4	Binary Arithmetic: Binary Addition and Subtraction (1's complement and 2's complement)	5/7/19	5/7/19	Class Room Teaching	i
5	Multiplication & Division	8/7/19	8/7/19	Class Room Teaching	1
6	Octal and Hexadecimal arithmetic	10/7/19	10/7/19	Class Room Teaching	1
7	Codes: Gray, BCD, Excess 3 , ASCII Code	11/7/19	11/7/19	Class Room Teaching	1

8	Error Detection and correction codes:	12/7/19	12/7/19	Class Room	i, iv
	Hamming codes :			Teaching	
	MODULE 2:Boolean Algebra and Logic Gat	AC			
9	Theorem and properties of Boolean algebra.	16/7/19	16/7/19	Class Room	i
	Boolean functions and function reduction	20,7,20	20,7,20	Teaching	`
	using Boolean laws.				
10	Canonical forms: SOP ,POS	17/7/19	17/7/19	Class Room Teaching	l,iv
11	Basic Digital gates: NOT , AND , OR , NAND , NOR , EXOR , EX-NOR, positive and negative logic. NAND-NOR Realization	18/7/19 (cancelled due to talk)	19/7/19	Class Room Teaching [Video1]	i, iv
				[TPS activity]	
12	K-map method 2 variable, 3 variable, 4 variable, Don"t care condition	19/7/19	22/7/19	Class Room Teaching	i, iv
13	K-map method 2 variable, 3 variable, 4 variable, Don"t care condition.	23/7/19	23/7/19	Class Room Teaching	i, iv
14	Solving more problems using K-Maps and	24/7/19	24/7/19	Class Room Teaching [TPS activity]	i, iv
15	Quine-McClusky Method, NAND-NOR Realization.	25/7/19	25/7/19	Class Room Teaching	i, iv
16	Quine-McClusky Method Quine-McClusky Method. NAND-NOR Realization.	26/7/19	25/7/19	Class Room Teaching	i, iv
17	Module Test1 -1	30/7/19	26/7/19		
	Module 3: Combinational Logic Design				
18	Introduction to combinational logic, Half Adder , Full Adder	31/7/19	30/7/19	Class Room Teaching	i
19	Half Subtractor , Full subtractor	1/8/19	31/7/19	Class Room Teaching	i
20	Four Bit Ripple adder, look ahead carry adder, 4 bit adder subtractor	2/8/19	2/8/19	Class Room Teaching	I
21	Code converters : Binary to Gray, Gray to Binary, BCD to Binary, Binary to BCD	6/8/19	6/8/19	Class Room Teaching, Lab	i, iv

				Experiment	
22	Code converters: BCD to EX-3, EX-3 to BCD	7/8/19	7/8/19	Class Room Teaching	i, iv
23	One digit BCD Adder, One digit BCD Subtractor	8/8/19	8/8/19	Class Room Teaching	i
24	Encoders, Priority encoder, Decoders	9/8/19	9/8/19	Class Room Teaching	i, iv
25	Multiplexer, Multiplexer tree	20/8/19	20/8/19	Class Room Teaching, Lab Experiment	i, iv
26	Demultiplexer, Demultiplexer tree	21/8/19	21/8/19	Class Room Teaching	i, iv
27	One bit, Two bit, 4-bit Magnitude Comparator, ALU IC 74181.	22/8/19	22/8/19	Class Room Teaching, Lab Experiment	i, iv
	Module 4: Sequential Logic Design			'	
28	Introduction: SR latch , Concepts of Flip Flops: SR, D, J-K, T,	23/8/19	23/8/19	Class Room Teaching [video2]	I
29	Truth Tables and Excitation Tables of all types, Race around condition	27/8/19	27/8/19	Class Room Teaching, Lab Experiment	I
30	Master Slave J-K Flip Flops, Timing Diagram,	28/8/19	28/8/19	Class Room Teaching	1
31	Flip-flop conversion	29/8/19	29/8/19	Class Room Teaching	i, iv
32	Shift Registers: SISO, SIPO, PIPO, PISO	30/8/19	1/9/19	Class Room Teaching	i, iv
33	Bidirectional Shift Register	11/9/19	13/9/19	Class Room Teaching	i, iv
34	Universal Shift Register	12/9/19	17/9/19	Class Room Teaching, Lab	i, iv

				Experiment	
35	Ring and twisted ring/Johnson Counter	13/9/19	18/9/19	Class Room Teaching	i, iv
36	State machines, state diagrams, state tables. Concept of Moore and Mealy machine.	17/9/19	18/9/19	Class Room Teaching	i, iv
37	Counters: Design of Asynchronous Counters	18/9/19	19/9/19	Class Room Teaching, Lab Experiment [Video3]	i, iv
38	Counters: Design of Synchronous Counters	19/9/19	20/9/19	Class Room Teaching	i,iv
39	Modulus of the Counters	20/9/19	24/9/19	Class Room Teaching	i,iv
40	UP- DOWN counter	24/9/19	25/9/19	Class Room Teaching	i,iv
41	Sequence generator.	25/9/19	26/9/19	Class Room Teaching	i,iv
	Module 5: Introduction to VHDL	1	1		
42	Introduction: Fundamental building blocks Library, Entity	26/9/19	3/10/19	Class Room Teaching, slides	iii,v
43	Architecture, Modeling Styles	27/9/19	3/10/19	Class Room Teaching, slides	iii,v
44	Concurrent and sequential statements.	30/9/19	4/10/19	Class Room Teaching, slides	iii,v
45	simple design examples for combinational circuits, simple design examples for Sequential circuits.	1/10/19	4/10/19	Class Room Teaching, Lab Experiment	iii,v
	Module 6: Digital Logic Families				
46	Introduction: Terminologies like Propagation Delay, Power Consumption, Fan in and Fan	3/10/19	9/10/19	Class Room Teaching	1

	out , current and voltage parameters, noise				
	margin,				
47	Comparison of TTL and CMOS Logic	4/10/19	9/10/19	Class Room	1
				Teaching	
48	Flipped class room activity for ½ an hour and	5/10/19	11/10/1	Class Room	
			9	Teaching	
	University Question papers Solution for ½ an				
	hour				

Resource	Topic	Source	Туре
Video1	Transistors and	https://www.youtube.com/watch?v=SW2Bwc17_wA	You tube
	Boolean logic		
Video2	RS Flip Flop	https://www.youtube.com/watch?v=pv3MZMoo0	You tube
Animation			
Video3	Introduction	https://www.youtube.com/watch?v=iaIu5SYmWVM	You tube
	to counter		

## Text Books/ Reference Books:

## TextBooks:

## **Text Books:**

- 1. R. P. Jain, "Modern Digital Electronics", Tata McGraw Hill.
- 2. Yarbrough John M., "Digital Logic Applications and Design", Cengage Learning
- 3. J. Bhasker." VHDL Primer", Pearson Education

## Reference Books:

- 4. M. Morris Mano, "Digital Logic and computer Design", PHI.
- 5. Douglas L. Perry, "VHDL Programming by Example", Tata McGraw Hill.
- 6. Donald p Leach, Albert Paul Malvino, "Digital principles and Applications", Tata McGraw Hill.

Year: 2019-20

## FR. Conceicao Rodrigues College Of Engineering

Father Agnel Ashram, Bandstand, Bandra-west, Mumbai-50
Department of Computer Engineering
S.E. (Computer) (semester III)

(2019-2020)

## LABORATOTY PLAN: DIGITAL SYSTEM LAB

#### Semester III

Sr.	Title	СО	Planned		Act	ual	
No			dates		da	tes	
	BATCH →			Α	В	С	D
1.	To study and verify the truth table of various logic gates using ICs and realize Boolean expressions using gates.	CSC302.2	3 <sup>rd</sup> week of July	17/7/19	16/7/19	15/7/19	15/7/19
2.	To realize basic gates using universal gates.	CSC302.2	4 <sup>th</sup> week of July	24/7/19	23/7/19	22/7/19	22/7/19
3.	To realize arithmetic circuits i) Half adder iii) Full adder iii) Half subtractor iv) Full subtractor.	CSC302.2	1 <sup>st</sup> week of August	31/7/19	30/7/19	29/7/19	29/7/19
4.	To realize binary to gray code and gray code to binary converter.	CSC302.2	2 <sup>nd</sup> week of August	7/8/19	6/8/19	6/8/19	6/8/19
5	To realize parity generator and detector. (New)	CSC302.2	4th week of August	21/8/19	20/8/19	20/8/19	20/8/19
6.	To Study multiplexer IC and realization of full adder using multiplexer IC.	CSC302.2	1st week of September	28/8/19	27/8/19	27/8/19	27/8/19
7.	To realize 2 bit magnitude comparator.	CSC302.2	1st week of September	28/8/19	27/8/19	27/8/19	27/8/19
8.	Study of flip-flops using IC's	CSC302.3	2 <sup>nd</sup> week of September	11/9/19	17/9/19	16/9/19	16/9/19
9.	To realize shift registers using flip flops	CSC302.3	2 <sup>nd</sup> week of September	18/9/19	17/9/19	24/9/19	24/9/19
10.	To realize asynchronous 3 bit up counter.	CSC302.3	3 <sup>rd</sup> week of September	25/9/19	24/10/19	30/9/19	30/9/19

11	To realize combinational	CSC302.2	3rd week of	9/10/19	1/10/19	7/10/19	7/10/19
	circuit using VHDL	CSC302.4	September				
12.	To realize basic Sequential	CSC302.3	4 <sup>th</sup> week of	9/10/19	1/10/19	7/10/19	7/10/19
	circuit using VHDL	CSC302.4	September				
13.	Mini Project	CSC302.4		Submission 2 <sup>nd</sup> week of October			

### SAMPLE - GUEST LECTURE (2019-2020)



## Web Design Lab

Expert lecture on BOOTSTRAP Subject In charge: Prof. Mahendra Mehra

Class: TE Computers

Semester: V

## Agenda?



Creating an effective web-based Resume for Placements.



Hosting the web-based resume on GitHub pages.

Benefits of GitHub Student Developer pack.

## PREREQUISITE: Basics of HTML, CSS and JAVASCRIPT

Date: Sunday, 2nd August 2020.

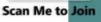
Time: 3:00 Pm to 4:00 Pm

Meeting ID: https://meet.google.com/zjp-mgrg-ynj

## "Creative solutions, creative results."



Mr. Rathil Patel Solution Engineer, Browserstack





www.frcrce.ac.in

## **SAMPLE - CO ATTAINMENT** (2019-2020)

#### FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering

SUBJECT: Digital Logic Design & Analysis (CSC302) BRANCH/SEMESTER: COMPUTER /III Academic Year: 2019-20

CSC302.1 : Perform number system and code conversions Target: 2.5

Assessment Tools	Weightage	NO. of successful students		Percentage	Level	Attainment
DIRECT METHODS						
		No. of students scoring >= 4.8 out of 8 in Q-1				
TEST	0.2	(T1)	60	84.51	3	0.6
60% students will score minimum 60% marks						
MODULE TEST1	0.2	No. of students scoring >=14 out of 20 in ass1	47	71.21	1	0.2
70% students will score minimum 70% marks						
QUIZ	0.2	No. of students scoring >=14 out of 20 in Quiz1	58	81.69	2	0.4
65% students will score minimum 70% marks						
UNI THEORY	0.2	No. of students acoring >= 48 out of 80	50	70.42	2	0.40
60% students will score minimum 60% marks						
UNI PRACTICAL	0.2	No. of students acoring >= 17.5 out of 25	70	98.59	3	0.6
60% students will score minimum 70% marks						
INDIRECT METHOD						2.2
Course Exit Survey	1	No. of students agree + strongly agree	65	1	3	3
75% students will score minimum 75% marks		No. of respondents = 65				
No. of students	71					

Levels	Test	QUIZ	Module Test	End sem exam(TH)	End sem exam(PR)	Survey
1 (Low)	60-69	65-74	70-79	60-69	60-69	75-80
2 (Medium)	70-79	75-84	80-89	70-79	70-79	81-85
3 (High)	80 and above	85 and above	90 and above	80 and above	80 and above	86 above

CO1 Attainment = 2.36

Target: 2.5

SUBJECT: Digital Logic Design & Analysis (CSC302) BRANCH/SEMESTER: COMPUTER /III

CSC302.2:\_Design combinational circuits

Academic Year: 2019-20

Assessment Tools	Weightage	NO. of successful students		Percentage	Level	Attainment
DIRECT METHODS						
		No. of students scoring >= 10.8 out of 18 in Q-				
TEST (T1+T2)	0.2	2(8)+Q-3(4) in T1 & Q-1 (6M) T2	47	66.20	1	0.2
60% students will score minimum 60% marks						
		No. of students scoring >=56 out of 80 in exp1-				
LAB	0.2	7,11	70	98.59	3	0.6
70% students will score minimum 70% marks						
ASSIGNMENT	0.2	No. of students scoring >=14 out of 20 in Quiz1	69	97.18	3	0.6
60% students will score minimum 70% marks						
UNITHEORY	0.2	No. of students acoring >= 48 out of 80	50	70.42	2	0.4
60% students will score minimum 60% marks						
UNI PRACTICAL	0.2	No. of students acoring >= 17.5 out of 25	70	98.59	3	0.6
60% students will score minimum 70% marks						
INDIRECT METHOD						2.4
Course Exit Survey	1	No. of students agree + strongly agree	65	1	3	3
75% students will score minimum 75% marks		No. of respondents = 65				
No. of students	71					

Levels	Test	ASSIGNMENT	LAB	End sem exam(TH)	End sem exam(PR)	Survey
1 (Low)	60-69	60-69	70-79	60-69	60-69	75-80
2 (Medium)	70-79	70-79	80-89	70-79	70-79	81-85
3 (High)	80 and above	80 and above	90 & above	80 and above	80 and above	86 above

CO2 Attainment = 2.52

SUBJECT: Digital Logic Design & Analysis (CSC302)

BRANCH/SEMESTER: COMPUTER /III

Academic Year: 2019-20

CSC302.3 : Design sequential circuits. Target : 2.5

Assessment Tools	Weightage	NO. of successful students		Percentage	Level	Attainment
DIRECT METHODS						
		No. of students scoring >= 9 out of 14 in Q2(6) +				
TEST (T2)	0.2	Q3(8) in T2	31	43.66	0	0
60% students will score minimum 60% marks						
		No. of students scoring >=28 out of 40 in				
LAB	0.2	exp8,9,10,12	70	98.59	3	0.6
70% students will score minimum 70% marks						
MODULE TEST2	0.2	No. of students scoring >=14 out of 20 in Quiz1	57	80.28	3	0.6
60% students will score minimum 70% marks						
UNI THEORY	0.2	No. of students acoring >= 48 out of 80	50	70.42	2	0.4
60% students will score minimum 60% marks						
UNI PRACTICAL	0.2	No. of students acoring >= 17.5 out of 25	70	98.59	3	0.6
60% students will score minimum 70% marks						
INDIRECT METHOD						2.2
Course Exit Survey	1	No. of students agree + strongly agree	65	1	3	3
75% students will score minimum 75% marks		No. of respondents = 65				
No. of students	71					

Levels	Test	Module Test	LAB	End sem exam(TH)	End sem exam(PR)	Survey
1 (Low)	60-69	60-69	70-79	60-69	60-69	75-80
2 (Medium)	70-79	70-79	80-89	70-79	70-79	81-85
3 (High)	80 and above	80 and above	90 & above	80 and above	80 and above	86 above

CO3 Attainment = 2.36

SUBJECT: Digital Logic Design & Analysis (CSC302)

BRANCH/SEMESTER: COMPUTER /III Academic Year: 2019-20

CSC302.4: Design and implement a solution for a simple real world problem based on the learned concepts of digital Logic design

Target: 2.5

Assessment Tools	Weightage	NO. of successful students		Percentage	Level	Attainment
DIRECT METHODS						
		No. Of students scoring 14 or more out of 20 in				
LAB	0.2	EXP 11,12	71	1.00	3	0.6
70% students will score minimum 70% marks						
MINI PROJECT	0.8					
65% students will score minimum 70% marks		No. of students score 10.5 or more out of 15 =	71	1.00	3	2.4
						3
INDIRECT METHOD						
Course Exit Survey	1	No. of students agree + strongly agree	64	0.98	3	3
		No. of respondents = 65				

Level	Lab	Mini Project	
1	70-79	65-74	
2	80-89	75-84	
3	90 & above	85 and above	

CSC302.4 Attainment = 3

SUBJECT: Digital Logic Design & Analysis (CSC302) BRANCH/SEMESTER: COMPUTER /III

Academic Year: 2019-20

СО	Description	Attainment
	Perform number system and code conversions	
CSC302.1	Control of the state of the sta	2.36
	Design combinational circuits	
CSC302.2		2.52
	Design Sequential circuits	
CSC302.3		2.36
	Design and implement a solution for a simple real world problem based on the learned	
	concepts of digital Logic design	
CSC302.4		3

## PO Attainment

CO Number	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attain
	Perform number system and code	3												3		
CSC302.1	conversions	,														2.36
CSC302.2	Design combinational circuits.	3	2	3	1									2		2.52
CSC302.3	Design sequential circuits.	3	2	3	1									3		2.36
CSC302.4	Design and implement a solution for a simple real world problem based on the learned concepts of digital Logic design	3	3	3	3					2	2			3		3
Total		12	7	9	5					2	2			11		
CO-PO MATRIX		3	2.33	3.00	1.67					2	2			2.75		
PO ATTAINMENT		1.92	2.77	2.6	2.86					3	3			2.55		

## **BE - FINAL YEAR PROJECT ASSESSMENT**

BE - PROJECTS - PLAN

## Fr. Conceicao Rodrigues College of Engineering

# Department of Computer Engineering 2019-2020

## Project Activity Schedule

**B.E Computer Engineering** 

B.E Computer Engineer		Class
Date/week	Activity	Class
First week of May/End	Project Idea Submission Notice for Students and faculty	TE -6
of April	Period for idea submission- Till 3July 2019	
BE-7 Activities	T	T
July 1/2 week	Project topic approval Presentation	BE-7
(08/072019)		1
July 3 / 4 week	Assigning guides to Project	
(24/07/2019)		1
August1/2 week	Final project problem definition with guide(with research	
(Till 03/08/2019)	Papers)- Assigning new topics to Rejected project topic based	
	on project idea submitted by faculties/ revision of Problem definition	
September 2/3 week	Mid term Presentation1 with research Papers and work	BE-7
(11/09/2019)	attempted 40%	
October 1/2 week	Mid term Presentation2 with work attempted 80%	BE-7
(05/10/2019)		
October 2/3week	Report submission and 100% work done	BE-7
	•	
As per university	Oral exam and TW report evaluation	BE-7
schedule	•	
BE-8 Activities		•
February 1 / 2 week	Mid term Presentation1-	BE-8
(10/02/2020)	1)Rough draft1 of research paper	
	2)Product features specifications with market research	
	3) Abstract submission to conferences or Journals	
March 1 / 2 week	Mid term Presentation2 -	BE-8
	1)Final draft2 of research paper	
	2)Product features Implementation	
	3) Final paper submission to conferences or Journals	
March 3 / 4week	1)Implementation /demo to guide- Possibility checking for	
	Product / Patent	
	2) Poster draft1	
March 4 week	1)Draft Report1 and Poster draft2 submission	BE-8
	2) Final product demo to Guide	
March 4 week	Draft Report2 submission- Revised demo to guide	BE-8
April 1 week	Final Report submission and final poster	BE-8
April 1 week	Poster submission	BE-8
As per university	Oral exam and TW Report evaluation	
schedule	300 (2000)	

## **SAMPLE - ACADEMIC AUDIT (2019-2020)**

Date: 03, July 2019

To,

The Principal,

FR.C.R.C.E., Bandra, Mumbai.

Subject: Request to sanction the honorarium for the member of Academic audit of Computer Department.

Dear Madam,

The department of Computer Engineering has rescheduled the Academic audit on 4th July 2019. So I request you to cancel the earlier approval to sanction the honorarium of Rs. 3000 and to consider the new revised remuneration of Rs. 5000 for the member mentioned below.

Sr.	Name of DAB Member	Designation	Amount
No. 1	Dr. Abhijit Joshi	Associate Professor, Comp Department, D.J. Sanghavi College Engineering, Mumbai	e of Rs.5000.00

Thanks and Regards,

(Prof. Sujata Deshmukh)

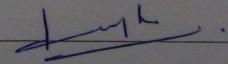
Coordinator, Computer Department.

2.1.1

## Audit Observations by Dr. A.R. Joshi dated 04-07-19

- 1. The target level needs to be revised at program level for attainment.

  The data of previous year results should be used to set the new target level.
- 2. Quality of assessment should remain constant across all the assessment tools used for a particular course. It should be the policy of the department as the college is trying for autonomy.
- 3. Quality Paper publication should be increased.
- 4. Journals/conferences/ projects competitionparticipation of students and faculties require to be increased.
- 5. More innovative methods for teaching learning processing should be used
- 6. The awareness of the processes and its implementation must be rigorous.
- 7. Use of Moodle for teaching material





SOCIETY OF ST. FRANCIS XAVIER, PILAR'S

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to University of Mumbai)

Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050. Phone: (022) 6711 4000, 67114101, 6711 4104 • Fax: 6711 4100 Website www.frcrce.ac.in • Email : crce@fragnel.edu.in

Ref.: CRCE / 2019

Date: July 4, 2019.

To, Dr. Abhijit Joshi Professor D.J. Sanghvi College of Engg. Mumbai

> Sub.: Thanksgiving for being an Expert for Department Audit - Computer Engineering Dept.

Dear Sir,

We are very much thankful to you for conducting the Audit of the Computer Engineering Dept. of our College today, 4th July 2019 successfully and giving your valuable feedback.

Thanking you once again.

Yours faithfully,

(DR. SRIJA UNNIKRISHNAN) PRINCIPAL

Ricer

## Fr. Conceicao Rodrigues College of Engineering

Computer Engineering Department Academic Audit Term 2019-2020

Name of the Faculty: Dr. Sunil Surve

Courses Taught: 1.(First Semester )Microprocessor

2. (Second Semester) Machine Learning

Sr.No.	Parameters to be verified	Very Good (4) Good(3) Adequate (2) Needs Improvement (1)	Remark
1	Lesson Plan and Execution	3	
2	Text and Reference	dy	
3	Resource material available to students	3	
4	Rubrics Created and followed for assessment	3	
5	Mapping of COs with POs and PSOs	3	
6	Delivery Mechanism	3	
7	Content Beyond Syllabus	4	
8	Quality of UT Question Paper	4	
9	Quality of Lab Manual		
10	Students Performance evaluation methods, analysis of assessment results and corrective measures.	5	
11	Methods adopted for improving performance of weak students	3	
12	Help rendered to students w.r.t. career/skill development	V	
13	Projects Guided		
14	Any administrative responsibility handled		

Audited By: 70. A.R. JOSH)

Sign: 47 7 [19

## **PART B**

**Criterion 1 - Curricular Aspects** 

**Key Indicator – 1.1 Curricular Planning and Implementation** 

1.1.2 - SUPPORTING DOCUMENTS

## FR. Conceicao Rodrigues College of Engineering

## 1.1.2 Supporting Documents

Sr.No.	Document Name	Page No.
1	Executive Committee Constitution Circular.	2
2	Minutes of Executive Committee.	3
3	Institute Academic Calendar.	6
4	Department Academic Calendar.	8
5	Sample Excel CO Attainment calculation.	10
6	Sample BE Project Assessment sheets.	13
7	Sample UT QP	27
8	Internal Assessment Report Card.	28
9	Sample Course Exit Survey.	29
10	Sample Mid Term Feedback	30

## SAMPLE- CIRCULAR EXECUTIVE COMMITTEE MEETING

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Fr. Agnel Ashram, Bandstand, Bandra (West), Mumbai - 400 050.

Ref .: CRCE / 2019 / 424

Date: October 14, 2019.

## NOTICE

To.

The Executive Committee Members

A meeting of the Executive Committee is scheduled on Wednesday, 16<sup>th</sup> October 2019 at 10.30 AM in the Conference Room (Fifth Floor) to discuss the following matters.

#### **AGENDA**

- 1. Academic Matters
- 2. Readiness for NAAC Visit

Any other matter with the permission of the Chair.

All the members are requested to attend.

(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL

1. Dr. V.S. Jorapur, HOD - Production Engg.

Dr. Sapna Prabhu, HOD – Electronics Engg.

3. Dr. B.S. Daga, HOD - Computer Engg.

4. Dr. Jagruti Save, HOD - Info. Tech.

5. Dr. Hemant Khanolkar, HOD - Hum. & Sci.

6. Dr. S.K. Surve, Dean - Academics

7. Dr. D.V. Bhoir, Dean - Students Affairs

8. Dr. Bhushan Patil, Dean - Research & Development 6

9. Dr. V.S. Bilolikar, Examination Cell Incharge

8. Mr. Mahesh Sharma, Training & Placement Officer 2

10. Mr. Chandrashekhar Shetty, Registrar

### SAMPLE- MINUTES EXECUTIVE COMMITTEE MEETING

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

MINUTES OF THE EXECUTIVE COMMITTEE MEETING HELD ON 20<sup>TH</sup> JULY 2019 IN THE CONFERENCE ROOM (FIFTH FLOOR) AT 10.00 AM

#### MEMBERS PRESENT:

1. Dr. Srija Unnikrishnan (In the Chair)

2. Dr. V.S. Jorapur

3. Dr. Sapna Prabhu & Aar

4. Dr. B.S. Daga

5. Dr. Jagruti Save

6. Dr. Hemant Khanotkar

7. Dr. D.V. Bhoir

8. Dr. S.K. Surve

9. Dr. Bhushan Patil

10. Mr. Mahesh Sharma

Principal welcomed the members.

Principal briefed members that the main agenda of the meeting is to take follow-up on the agenda items discussed in the previous HODs and Deans meeting held on 29<sup>th</sup> June 2019.

The following discussions were held:

## Item No.1: Project based learning

Principal told members to implement Project based learning at all levels possible – individual subjects, Mini Projects, Dept. wise projects. She said that the objective behind the concept of project based learning it is to engage or get maximum students involved in Projects, thereby enhancing their learning and placement prospects.

Dr. Sapna Prabhu commented that through Project Cell, some projects have been initiated for the E-Yantra competition. Groups of 4 students each from SE & TE classes have been formed and they are assigned the mentors.

Dr. Jagruti Save, informed that many mini-projects are going on in the IT Dept. The third year students are engaged in 4 hours separate project which was started during their second year. Under this project, students have developed 2 modules for website which can facilitate easy data collection. The project is still going on. The problem statement for second Year students is yet to be given. Many students are doing NPTEL courses and internships.

## Item No.2: Innovative experiment for each lab. course

For every lab course, each student group can design and implement one innovative experiment, related to the subject. The respective faculty can guide the students. The best innovative experiment subjectwise / yearwise / department wise can be given recognition.

## Item No.3: Academic Monitoring

 HODs will follow up the Lesson plan, Tutorial/Practical plan submitted by faculty.

- Principal apprised members about the change in FE term commencement date, as the CAP round reporting has been extended. Induction Programme, spread across the year, should be held as specified by the University. Institute should award certificates to all students on successful completion of the Induction Programme, based on their report and presentation. Dr. Hemant Khanolkar read out the schedule of the Induction Programme. Principal told Dr. Khanolkar to prepare an action plan, work out the logistics and keep records of the programmes for issue of certificates.
- Dr. Khanolkar informed that FE Results have been declared and the overall passing percentage of students is 74%. He read out subjectwise and branchwise passing percentages. Student from Production Engg. branch, Mr. Amit Dubey, stood overall first.
- It was decided to hold FE faculty meeting on the coming Monday. Chapter
  wise notes are to be prepared by faculty for first year students. Hard copy
  as well as soft copy of the notes can be given to first year students.
- Principal told that faculty members should start doing attendance entries from 19<sup>nd</sup> July 2019.

## Item No.4: Effective use of laboratory slots

- Principal expressed concern that the Lab sessions are not effectively
  utilised. Placement companies had mentioned about the poor Practical
  knowledge and experience of students. The tendency of
  copying/downloading codes/expt. design should be curtailed. Teachers
  should give multiple and challenging problems to students in the same
  batch, so that students find solutions on their own. If required, internet can
  be disabled during specific lab sessions.
- HODs can identify good departmental projects which can be preserved and students re-imbursed, with proper bills. Project competitions can be held department-wise.

There was no other item for discussion.

Principal thanked members for attending the meeting and their active participation.

(Dr. SRIJA UNNIKRISHNAN) PRINCIPAL

#### Copy to:

- Rev. Fr. Peter D'Souza, Local Superior for information
- 2. Rev. Fr. Valerian D'Souza, Director for information
- 3. Dr. V.S. Jorapur 4. Dr. Sapna Prabhu 5. Dr. B.S. Daga
- 6. Dr., Jagruti Save 7. Dr. Hemant Khanolkar 8. Dr. D.V. Bhoir
- 9. Dr. S.K. Surve 10. Dr. Bhushan Patil 11. Dr. V.S. Bilolikar
- 12. Mr. Mahesh Sharma 13. Mr. C.B. Shetty

# SAMPLE- INSTITUTE ACADEMIC CALENDAR ODD SEMESTER ( 2019-2020)

ACADEMIC CALENDAR (2019-2020) -ODD SEMESTER

8.6	U-24		IC CALENDAR (2019-2020) -ODD SEMESTER	Staff Notice
Month	Holidays	Extra/Co-curricular Events	Curriculum Plan	
July		July 3-13 - Football Tournment	July 1 - College reopens (SE, TE, BE)	July 5 - Faculty Meeting
Su M Tu W Th F Sa				
1 2 3 4 5 6				
7 8 9 10 11 12 13				
14 15 16 17 18 19 20				
21 22 23 24 25 26 27				
28 29 30 31				
August				
Su M Tu W Th F Sa				
	Aug 12 - Bakri Id	Aug 23 - Synergy	August 7 - FE opens	QP and Model Answer upload for Unit
4 5 6 7 8 9 10	Aug 15 - Independence Day			Test 1 (SE, TE, BE) : Link active between Aug 1-3
11 12 13 14 15 16 17	Aug 17 - Parsi New Year		Aug 13, 14 & 16 - Test 1 (SE, TE, BE)	Unit test 1 marks entry : Link active
18 19 20 21 22 23 24			August 18-13 - Mid Term Feedback (SE, TE, BE)	between Aug 18-20
25 26 27 28 29 30 31			August 19-23 - Induction Program	
September				
Su M Tu W Th F Sa				
	Sept 2-6 - Mid Term Break	Sept 13-14 - TeDx Saloni	Sept 11-13 - Mid Term Feedback (FE)	
8 9 10 11 12 13 14		Sept 27-28 - CRMD		7
15 16 17 18 19 20 21				
22 23 24 25 26 27 28				-
29 30				
October		<u> </u>		
Su M Tu W Th F Sa		<b>+</b>		
	Oct 2 - Mahatma Gandhi Jayanti	<del> </del>	Oct 14-16 - Test (FE, SE, TE, BE)	
1 2 3 9 3	Oct 2 - Ivianatina Gandin Jayanti	<del> </del>	Oct 14-10 - Test (12, 52, 12, 62)	QP and Model Answer upload for Unit
				Test (FE, SE, TE, BE): Link active between Oct 3-
6 7 8 9 10 11 12	Oct 8 - Dasara		Oct 18 - Submission (SE, TE, BE)	5
13 14 15 16 17 18 19	Oct 27 - Laxmi Poojan		Oct 14-18 -Feedback (SE, TE, BE)	Unit test 2 marks entry : Link active
20 21 22 23 24 25 26	Oct 28 - Diwali		Oct 18 - Defaulter List	between Oct 16-18
	Oct 29 - Bhaubeej		Oct 18 - Term Ends (SE, TE, BE)	
November				
Su M Tu W Th F Sa				
	Nov 10 - Id-E-Milad		Nov 4-8 - Prelims - Test 2 (FE)	QP and Model Answer upload for Unit
	Nov 12 - Guru Nanak Jayanti		Nov 11 - Submission (FE)	Test 2 (FE) : Link active between Oct 30-Nov 1
10 11 12 13 14 15 16		<u> </u>	Nov 1-11 -Feedback (FE)	Unit test 2 marks entry : Link active
17 18 19 20 21 22 23		<del> </del>	Nov 15 - Defaulter List	between Nov 11-14
24 25 26 27 28 29 30		<del> </del>	Nov 16 - Term Ends (FE & ME)	
December		<u> </u>	The second second	<u> </u>
Su M Tu W Th F Sa		<del> </del>		
	Dec 25 - Christmas	<del> </del>		
8 9 10 11 12 13 14	Dec 25 - Cillistillas	<del>                                     </del>		+
15 16 17 18 19 20 21		<del> </del>		+
22 23 24 25 26 27 28		-		+
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25 30 51			1	

## SAMPLE- INSTITUTE ACADEMIC CALENDAR **EVEN SEMESTER (2019-2020)**

M T W T F S   S   S   S   S   S   S   S   S   S			r	/lont	h			Holidays	Extra/Co-curricular Events	Curriculum Plan	Staff Notice
No.   Total   No.   Total   No.   Total   No.   Total   No.   No.   Total   No.									275.113		
	5	М			_	F	s				
Second College Responses   Jan 6 - College Respons   Jan 14 - Faculty Meeting   Jan 12   Jan 14   Jan 15   Jan 16   Jan 17   Ja					2	3	4		Jan 18-26 - Athlos		
12   13   14   15   16   17   18   19   20   21   22   23   24   25	5	6	7	8	9	10	11			Jan 6 - College Reopens	Jan 14 - Faculty Meeting
Tell	12	13	14	15	16	17	18				
February 2020	19	20	21	22	23	24	25				
No.   Total Process   Society   Feb   1 - Sports Day   Feb   1 - S	26	27	28	29	30	31		26 Jan - Republic Day			
No.   Total Process   Society   Feb   1 - Sports Day   Feb   1 - S											
2			Febr	uary	2020						
2   3   4   5   6   7   8   Maharaj Jayanti	S	М	Т	w	Т	F					
9 10 11 12 13 14 15								19 Feb – Chhatrapati Shivaji	Feb 1 - Sports Day		
Test			_		_			Maharaj Jayanti			
March 2020   March 2021   Mar					_				Feb 17, 18, 20 - Euphoria	The second secon	
March   Name										Test	1: Link active between Feb 15 - 22
Mark   T	23	24	25	26	27	28	29	21 Feb - Mahashivratri			
Mark   T			1 0000		000					-	
1			_		-						
8   9   10   11   12   13   14   10 Mar - Holi	5.		-		_						
15					_			No con the sale		Feedback	
22   23   24   25   26   27   28   25   26   27   28   25   27   28   25   27   28   25   28   25   27   28   29   30   31   2					_			10 Mar - Holi			Link Active between Feb 28 - Mar 7
April 2020   Apr									Mar 20-21 - Crescendo		
April   Apri				25	26	21	28	25 Mar - GudiPadva			
M	29	30	31								
M			Δ.	~:I 20	20						
1						-			+	Ann 1 12 Foodbook	OD and Madel Annuary unload for Hait Took 1
S   6   7   8   9   10   11   Apr 10 - Good Friday   Apr 4 - TedX Main Event   Apr 17 - TW Submission   Apr 18 - Defaulter List   Apr 18 - Defaulter List   Apr 18 - Defaulter List   Apr 18 - Term Ends   Link Active between Apr 9 - 15	-	IVI	_	200.00		-		Ans 6 Mahavirlavanti	+		
12   13   14   15   16   17   18   Apr 14 - Dr.Babasaheb   Apr 18 - Defaulter List   Apr 18 - Defaulter List   Apr 18 - Term Ends   Link Active between Apr 9 - 15	5	6	7		_				Apr 4 Tody Main Event	-	Link active between Mar 30 - Apr 2
19   20   21   22   23   24   25   25   27   28   29   30									Api 4 - Teux Main Event		Marks ontry for Unit Tost 1:
26 27 28 29 30											
Apr 20-30 - Oraly   Practical Exam   Practical Exam					_				+		Link Active between Apr 5 - 15
M					70.71						
M   T   W   T   F   S   May 1 - Maharashtra Din   May 7-25 - Theory   Examination (Regular)			M	av 20	20					Practical Exam	
1		NA				-	c				
3 4 5 6 7 8 9 May 7 - Buddha Pournima  Examination (Regular)  May 26-June 11 — Theory Examination (ATKT)  M T W T F S  1 2 3 3 4 5 6  7 8 9 10 11 12 13  14 15 16 17 18 19 20  21 22 23 24 25 26 27  28 29 30 Way 25 - Ramzan Id  May 26-June 11 — Theory Examination (ATKT)  May 26-June 11 — Theory Examination (ATKT)   1 1 2 1 3 4 5 6  7 8 9 10 11 12 13  14 15 16 17 18 19 20  21 22 23 24 25 26 27  28 29 30 Way 7 - Buddha Pournima  Examination (Regular)  May 26-June 11 — Theory Examination (ATKT)	-	IVI		VV				May 1 - Maharashtra Din		May 7.25 The second	
10 11 12 13 14 15 16	3	4	5	6	7						
17 18 19 20 21 22 23								iviay / - budding Pourining			
24 25 26 27 28 29 30 May 25 - Ramzan Id (ATKT)  1											
31	7.5							May 25 - Ramzan Id			
N T W T F S								Way 23 - Namzan iu		(GINI)	
N     T     W     T     F     S       1     2     3     4     5     6       7     8     9     10     11     12     13       14     15     16     17     18     19     20       21     22     23     24     25     26     27       28     29     30     8     8     10     11     12     13     10<										+	
N     T     W     T     F     S       1     2     3     4     5     6       7     8     9     10     11     12     13       14     15     16     17     18     19     20       21     22     23     24     25     26     27       28     29     30     8     8     10     11     12     13     10<			Jun	ne 20	20						
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		N4				-	c			-	
7     8     9     10     11     12     13       14     15     16     17     18     19     20       21     22     23     24     25     26     27       28     29     30     8     8     8     9     10     11     12     13     10	-	-	100	100		0.0				-	
14     15     16     17     18     19     20       21     22     23     24     25     26     27       28     29     30 <td< td=""><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	7										
21     22     23     24     25     26     27       28     29     30     30     30     30     30		_								+	
28 29 30					_						
Commencement of Next Term 6 <sup>th</sup> July 2020				nt of I	Next :	Term		6 <sup>th</sup> July 2020		1	

Dr. Srija Unnikrishnan

Principal

# SAMPLE- DEPARTMENT ACDEMIC CALENDAR ODD SEMESTER (2019-2020)

#### DEPARTMENT OF COMPUTER ENGINEERING ACADEMIC CALENDAR 2019-2020

Date   Controllum Plan   Staff Notice   Extra/Co-curicularEvents   Students Project Abstract   Intra-college Foot ball			2019-2020		
Jul 3-13   B   Students Project Abstract submission (till 3 July)   Hill 3 July   Hill 4 July   Hill 4 July   Hill 5   Hill 4 July   Hill 5   H	Dates	Curriculum Plan	Staff Notice	Extra/Co-	Student Bodies
Jul 3-13   B   Students Project Abstract submission (till 3 July)   Hill 3 July   Hill 4 July   Hill 4 July   Hill 5   Hill 4 July   Hill 5   H				curricularEvents	
Mail	Inl.1	College reonens (SF-RF)			
Students Project Abstract   Faculty Project Proposal Idea Submission (iii 3 July)   Iul 5   Iul 6   Departmental Faculty meeting   Project to pick paperoal Presentation   Iul 15   Lesson Plan with Lecture/Lab/ Assignment/Mini Project Plan Submission   PAC   Lab Manual Submission   PAC   PAC Meeting   Pacific Project Guides   Pacific Project Report Submission   Pacific Project Project Report Submission					
BE Students Project Abstract submission (till 3 July)				Intra-college Foot ball	
submission (cill 3 luly)	Jul 3				
			Faculty Project Proposal Idea Submission		
Jul 6		submisssion (till 3 July)	(till 3 July)		
Jul 15	Jul 5		Faculty meeting (college level)		
Jul 15	Jul 6		Departmental Faculty meeting		
Jul 15					
Assignment/Min Projects Plan Submission					
PAC   Lab Manual Submission   Jul 15   SE-TE Mentors List   Allocation of BP Project Guides   Jul 24   Allocation of BP Project Guides   Jul 30   UT1 Paper Submission to PAC	Jui 13				
Lab Manual Submission					
Mid term Feedback   Synergy					
Allocation of BB Project Guides	_		S AND ESTABLISHED AND REAL PROPERTY OF THE STATE OF THE S		
Mug 13   Paper Submission to PAC   PAC Meeting (Assessment of CO, CO-PO mapping, Jestson Plan)	Jul 15		SE-TE Mentors List		
Aug 1-3  Aug 2-3  Aug	Jul 24		Allocation of BE Project Guides		
Aug 1-3  Aug 2-3  Aug	Jul 30		UT1 Paper Submission to PAC		
Aug 1-3   Unit Test 1   CodeLabs:Algoholic 1.0	Aug 02				
Final project problem definition with guided with research Papers					
Aug 1-3  Aug 1-3  Aug 3  Aug 3  Aug 3  Aug 3  Aug 3  Aug 3  Aug 4-3  Aug 19-21  Aug 19-21  Aug 19-21  Aug 23  Aug 24  Aug 25  Aug 25  Aug 25  Aug 25  Aug 26  Aug 26  Aug 26  Aug 27  Aug 28  Aug 26  Aug 27  Aug 28  Aug 29  Aug 26  Aug 29  Aug 26  Aug 27  Aug 28  Aug 29  Aug 26  Aug 27  Aug 28  Aug 29  Aug 29  Aug 29  Aug 20					
Aug 1-3  Aug 3  Aug 3  Aug 3  Aug 10  Aug 13. Unit Test 1  Aug 19- 21  Aug 20  Aug 20  Aug 23  Aug 20  Aug 23  Aug 25  Aug 26  Aug 26  Aug 26  Aug 31  Aug 31  Aug 31  Aug 31  Aug 31  Aug 31  Aug 32  Aug 34  Aug 35  Aug 36  Aug 37  Aug 37  Aug 38  Aug 39  Aug 39  Aug 39  Aug 4-  Aug 26  Aug 31					
Aug 3  Aug 10  Aug 10  Aug 11, Unit Test 1  Aug 19-2  Interpretation 1 with research  Aug 20  Aug 23  Aug 24  Aug 25  Aug 26  Aug 26  Aug 31  Aug 31  Aug 31  Aug 31  Aug 31  Aug 32  Aug 34  Aug 35  Aug 35  Aug 36  Aug 37  Aug 37  Aug 38  Aug 39  Aug 39  Aug 30  Aug 30  Aug 30  Aug 30  Aug 31					
Aug 10 Aug 13 Aug 13 Aug 13 Aug 14 Aug 19 21	Aug 1-3	I			
Aug 10 Aug 13 Aug 13 Aug 13 Aug 14 Aug 19 Aug 19-21 Aug 19-21 Aug 19-21 Aug 19-21 Aug 23 Aug 24 Aug 25 Aug 25 Aug 26 Aug 26 Aug 26 Aug 31 Sept 2-6 Sept 7 Sept 27 Sept 27 Oct 1 Sept 27- Oct 1 UT2 Paper Submission to PAC , PAC Meeting OCt 3-5 UT2 Paper Submission to PAC , PAC Meeting OCt 7-18 OCt 7-18 Final Feedback OCt 1-4 OCt 7-18 Final Feedback OCt 1-4 OCt 1-4 OCt 1-4 OCt 1-4 OCt 1-7 OCt 1-1 OC			upload SE-BE (Link active Aug 1-3)		
Aug 13. Unit Test 1  Aug 19. 21 weak students. (Aug 19-21)  Aug 19-21 Mid Term Feedback  Aug 20  Aug 23  Aug 23  Aug 24  Aug 25  Aug 26  Mid term Presentation 1 with research Papers and work attempted 40%  Aug 31  Sept 2-6  Aug 31  Sept 7  Sep 23  Mid term Presentation 2 with work attempted 40%  Mid term Break  Sept 7  Sep 23  Mid term Presentation 2 with work attempted 40%  Mid term Presentation 2 with work attempted 40%  Aug 27  Mid term Presentation 2 with work attempted 40%  Mid Term Break  Sept 7  Sep 23  Mid term Presentation 2 with work attempted 40%  Mid Term Break  Sept 7-  TE PBL Progress Report  Oct 1-  UT2 Paper Submission to PAC, PAC Meeting  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 1-4  Oct 1-4  Remedial Classes  Oct 7  BE Project Report submission and 100% work shop  Oct 1-4  Remedial Classes  UT2 Marks entry (Link active Oct 17-22)  Oct 18  Oct 19  Oct 19  Oct 19  Oct 19  Term Work Submission  Oct 19  Oct 19  Oct 19  Oct 19  Term Work Submission  Oct 19	Aug 3				Mozilla : NodeJS and
Aug 13. Unit Test 1  Aug 19- 21  Aug 19-21  Aug 19-21  Aug 19-21 Mid Term Feedback  Aug 20  Aug 20  Aug 23  Aug 24-  Aug 25  Aug 25  Aug 26  Aug 26  Aug 27  Aug 31  Sept 2-6  Sept 7  Sep 23  Aug 4-  Sept 27- Oct 1  UT2 Paper Submission to PAC , PAC Meeting Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-7  Sep Pace Aug 25  Aug 26  Aug 27  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Remedial Classes  Oct 1-8  Oct 18  Oct 18  CO Attainment without results  Oct 18  Oct 19  Department Faculty Meeting  Oct 21  As per					MongoDB workshop
Aug 13. Unit Test 1  Aug 19- 21  Aug 19-21  Aug 19-21  Aug 19-21 Mid Term Feedback  Aug 20  Aug 20  Aug 23  Aug 24-  Aug 25  Aug 25  Aug 26  Aug 26  Aug 27  Aug 31  Sept 2-6  Sept 7  Sep 23  Aug 4-  Sept 27- Oct 1  UT2 Paper Submission to PAC , PAC Meeting Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-7  Sep Pace Aug 25  Aug 26  Aug 27  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Remedial Classes  Oct 1-8  Oct 18  Oct 18  CO Attainment without results  Oct 18  Oct 19  Department Faculty Meeting  Oct 21  As per	Aug 10				
Aug 13. Unit Test 1 Aug 19- 21 Wild Term Feedback Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 20 Aug 23 Aug 25 Aug 25 Aug 25 Aug 25 Aug 26 Aug 26 Aug 26 Aug 31 A					CodeLabs:Algoholic 1.0
Aug 20 Au	Δυσ 13	Unit Test 1			Code Edubing off one 1.0
Aug 20 Aug 20 Aug 20 Aug 20 Aug 20  Aug 23  Aug 23  Aug 24 Aug 25  Aug 26  Aug 26  Aug 26  Aug 27  Aug 27  Aug 27  Aug 28  Aug 28  Aug 29  Aug 29  Mid term Presentation1 with research Papers and work attempted 40%  Aug 26  Aug 27  Aug 27  Aug 28  Aug 29  Aug 20  Mid term Presentation2 with work attempted 40%  Aug 26  Aug 27  Aug 27  Aug 28  Aug 29  Aug 29  Aug 20  Mid term Presentation2 with work attempted 40%  Aug 20  Aug 20  Aug 21  Aug 21  Aug 21  Aug 21  Aug 21  Aug 22  Aug 21  Aug 21  Aug 22  Aug 21  Aug 22  Aug 21  Aug 21  Aug 22  Aug 21  Aug 21  Aug 22  Aug 21  Aug 26  Aug 27  Aug 27  Aug 28  Aug 28  Aug 29  Aug 20  Mid term Presentation2 with work attempted 40%  Mozilla:Ethical Hacking Seminar, Sept 27  Sept 27  TE PBL Progress Report  CRMD  Oct 1  UT2 Paper Submission to PAC, PAC Meeting Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 14  Oct 14  Oct 15  Oct 17  BE Project Report submission and 100% work done Oct 1-4  Oct 17-22  Oct 18  Oct 17-22  Oct 18  Oct 18  Oct 18  CO Attainment without results  Oct 18  Oct 18  Term End (SE TE BE)  Oct 21  As per			UT1 Manks autour UT1 Desult analysis List of		
Aug 23  Aug 24  Aug 25  Aug 26  Aug 27  Aug 27  Aug 28  Aug 29  Aug 29  Aug 29  Aug 29  Aug 29  Aug 29  Aug 20  Aug 21  Aug 20  Aug 20	_				
CodeLabs:Introduction to Python and Machine learning			weak students. (Aug 19-21)		
Aug 23  Aug 24 Aug 25  Aug 26  Aug 26  Aug 31  Sept 2-6  Sept 27  Sept 27  Oct 1  UT2 Paper Submission to PAC, PAC Meeting  Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 14  UT1 Paper Submission and 100% work done  Oct 1-4  Oct 17-22  Oct 1-4  Oct 17-22  Oct 18  Defaulters list  Oct 18  Oct 17  Department Faculty Meeting  Oct 21  As per	Aug 19-21	Mid Term Feedback			
Aug 24 Aug 25  Aug 26  Aug 26  Aug 31  Sept 2-6  Sept 7  Sept 27  Oct 1  UT2 Paper Submission to PAC . PAC Meeting  Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 14- Oct 14- Oct 14- Oct 14- Oct 14- Oct 17- Oct 17- Oct 17- Oct 17- Oct 18- Oct 17- Oct 19- Oct 10- Oct 10- Oct 10- Oct 11- Oct 11- Oct 11- Oct 11- Oct 12- Oct 13- Oct 13- Oct 14- Oct 15- Oct 15- Oct 15- Oct 15- Oct 17- Oct 15- Oct 17- Oct 15- Oct 17- Oct 15- Oct 18- Oct 1	Aug 20				CodeLabs:Introduction
Aug 24 Aug 25  Aug 26  Aug 26  Aug 31  Sept 2-6  Sept 7  Sept 27  Oct 1  UT2 Paper Submission to PAC . PAC Meeting  Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 14- Oct 14- Oct 14- Oct 14- Oct 14- Oct 17- Oct 17- Oct 17- Oct 17- Oct 18- Oct 17- Oct 19- Oct 10- Oct 10- Oct 10- Oct 11- Oct 11- Oct 11- Oct 11- Oct 12- Oct 13- Oct 13- Oct 14- Oct 15- Oct 15- Oct 15- Oct 15- Oct 17- Oct 15- Oct 17- Oct 15- Oct 17- Oct 15- Oct 18- Oct 1					to Python and Machine
Aug 24 Aug 25  Aug 24 Aug 25  Aug 26  Aug 31  Sept 2-6  Sept 27  Oct 1-1  Oct 3-5  Oct 3-5  Oct 4-1  Oct 7-18  Final Feedback  Oct 7-18  Final Feedback  Oct 17-22  Oct 18  Oct 17-22  Oct 18  Oct 21					
CSI Event 1, CodeLabs:Algoholic 2.0	Aug 23				
Aug 24 Aug 25 Aug 26 Aug 26 Aug 27 Aug 27 Aug 28 Aug 28 Aug 28 Aug 29 Aug 29 Aug 29 Aug 29 Aug 20 Aug 31 Sept 2-6 Sept 27 Sept 27 Oct 1 UT2 Paper Submission to PAC , PAC Meeting Oct 3-5 UT2 Question paper and model answer upload (Link active Oct 3-5) Oct 14- Unit Test 2 Oct 7-18 Final Feedback Oct 17- 22 Oct 1- 4 Oct 17- 22 Oct 18 Oct 18 Oct 18 Oct 19 Oct 18 Oct 21 Oct 2	71ug 23				CCI Essent 1
Aug 24- Aug 25  Aug 26  Mid term Presentation1 with research Papers and work attempted 40%  Aug 31  Sept 2-6  Sept 27  Sept 27- Oct 1  UT2 Paper Submission to PAC, PAC Meeting  Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 7-18 Final Feedback  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-4  Oct 1-7-22  Oct 1-8  Oct 1-7-22  Oct 1-8					The second secon
Aug 26 Aug 31 Sept 2-6 Sept 27 Oct 1 Oct 3-5 Oct 3-5 Oct 7-18 Final Feedback Oct 7- Oct 1-4 Oct 1-4 Oct 1-4 Oct 1-7-2 Oct 1-7-2 Oct 1-7-18 Final Feedback Oct 1-7-2 Oct 1-7-18 Final Feedback Oct 1-7-2 Oct 1-7-18 Oct 1-7-1					
Aug 26				Synergy	PUBG/Bombsquad
Aug 26  Mid term Presentation1 with research Papers and work attempted 40%  Aug 31  Sept 2-6  Sept 7  Sep 23  Mid term Presentation2 with work attempted 80%  Sept 27- Oct 1  UT2 Paper Submission to PAC, PAC Meeting  Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 1-4  Oct 7-18  Final Feedback  Oct 1-4  Oct 1-4  Remedial Classes  Oct 17-22  Oct 18  Oct 18  Oct 18  Oct 18  Oct 18  Oct 18  Oct 19  Department Faculty Meeting  Department Faculty Meeting  Mid term Presentation1 with research Modification (Aug 25)  Learning  Loarning  Learning  Loarning  L	Aug24-				CodeLabs: Practical
Aug 26  Aug 31  Sept 2-6  Sept 27  Sep 23  Mid term Presentation 2 with work attempted 80%  Sept 27- Oct 1  UT2 Paper Submission to PAC, PAC Meeting  Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 7-18  Final Feedback  Oct 7-18  Final Feedback  Oct 1-4  Oct 1-4  Remedial Classes  Oct 17-22  Oct 18  Oct 21  Oct 18  Oct 21  Oct 22  Oc	Aug25				approach to Machine
Aug 26  Aug 31  Sept 2-6  Sept 27  Sep 23  Mid term Presentation 2 with work attempted 80%  Sept 27- Oct 1  UT2 Paper Submission to PAC, PAC Meeting  Oct 3-5  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 7-18  Final Feedback  Oct 7-18  Final Feedback  Oct 1-4  Oct 1-4  Remedial Classes  Oct 17-22  Oct 18  Oct 21  Oct 21  Oct 21  Oct 21  Oct 21  Oct 21  Oct 18  Oct 18  Oct 21  Oct 22  Oct 23  Oct 24  Oct 24  Oct 25  Oct 26  Oct 27  Oc				Badminton (Aug 25)	Learning
Papers and work attempted 40%   IOT workshop   Mozilla: Ethical Hacking   Sept 2-6   Mid Term Break   Seminar,				(8)	
Papers and work attempted 40%   IOT workshop   Mozilla: Ethical Hacking   Sept 2-6   Mid Term Break   Seminar,	Aug 26		Mid town Procentation 1 with research		
Aug 31	Aug 20				
Sept 7 Sep 23 Mid term Presentation 2 with work attempted 80% Sept 27- Oct 1 UT2 Paper Submission to PAC, PAC Meeting UT2 Question paper and model answer upload (Link active Oct 3-5) Oct 7-18 Final Feedback Oct 7  Oct 1-4 Oct 1-4 Oct 1-4 Oct 1-4 Oct 1-7 Oct 18 Oct 18 Oct 18 Oct 18 Oct 18 Oct 18 Oct 21 AS per			Papers and work attempted 40%		rom
Sept 7 Sep 23 Mid term Presentation 2 with work attempted 80% Sept 27- Oct 1 UT2 Paper Submission to PAC, PAC Meeting UT2 Question paper and model answer upload (Link active Oct 3-5) Workshop  Oct 14- Unit Test 2 Oct 7-18 Final Feedback Oct 7 BE Project Report submission and 100% work done Oct 1-4 Oct 1-4 Oct 1-4 Oct 1-4 Oct 1-8 Oct 18 Term Work Submission Oct 18 Oct 18 Oct 18 Oct 18 Oct 18 Oct 18 Oct 17 Department Faculty Meeting AS per					
Sept 7 Sep 23 Mid term Presentation 2 with work attempted 80%  Sept 27- Oct 1 UT2 Paper Submission to PAC , PAC Meeting  Oct 3-5 UT2 Question paper and model answer upload (Link active Oct 3-5) Workshop  Oct 14 - Unit Test 2 Oct 7-18 Final Feedback Oct 7 BE Project Report submission and 100% work done Oct 1-4 Oct 17-22 Oct 18 Term Work Submission Oct 18 Defaulters list Oct 18 Oct 18 Term End (SE TE BE) Oct 21 AS per	Sept 2-6				0
Sept 27   TE PBL Progress Report   CRMD				Mid Term Break	Seminar,
Sept 27   TE PBL Progress Report   CRMD	Sept 7				
Attempted 80%   OOPM			Mid term Presentation2 with work		CodeLabs: Ouiz on
TE PBL Progress Report   CRMD	JCP 23	I			
Oct 3-5  UT2 Paper Submission to PAC , PAC Meeting  UT2 Question paper and model answer upload (Link active Oct 3-5)  Oct 14 - Unit Test 2  Oct 7-18 Final Feedback  Oct 7  BE Project Report submission and 100% work done  Oct 1-4  Remedial Classes  Oct 17-22  Oct 18 Term Work Submission  Oct 18 Defaulters list  Oct 18  Oct 18  CO Attainment without results  Oct 21  AS per	Cant 27		THE RESIDENCE OF THE PARTY OF T	CPMD	55111
UT2 Paper Submission to PAC , PAC Meeting			TE I DE Frogress Report	CIMID	
Oct 3-5         UT2 Question paper and model answer upload (Link active Oct 3-5)         Mozilla: 05 Oct Github Workshop           Oct 14 - Unit Test 2         Oct 7-18 Final Feedback         Workshop           Oct 7         BE Project Report submission and 100% work done         Work done           Oct 1-4 Remedial Classes         Oct 17-22         UT2 Marks entry (Link active Oct 17-22)           Oct 18 Term Work Submission         Oct 18 Defaulters list         CO Attainment without results           Oct 18 Term End (SE TE BE)         Department Faculty Meeting           AS per         Department Faculty Meeting	Oct 1				
Upload (Link active Oct 3-5)   Workshop					
Oct 14 - Unit Test 2         Department Faculty Meeting           Oct 7-18 Final Feedback         BE Project Report submission and 100% work done           Oct 1 - 4         Remedial Classes           Oct 17-22         UT2 Marks entry (Link active Oct 17-22)           Oct 18 Defaulters list         CO Attainment without results           Oct 18 Term End (SE TE BE)         Department Faculty Meeting	Oct 3-5				
Oct 14 - Unit Test 2         Department Faculty Meeting           Oct 7-18 Final Feedback         BE Project Report submission and 100% work done           Oct 1 - 4         Remedial Classes           Oct 17-22         UT2 Marks entry (Link active Oct 17-22)           Oct 18 Defaulters list         CO Attainment without results           Oct 18 Term End (SE TE BE)         Department Faculty Meeting			upload (Link active Oct 3-5)		Workshop
Oct 7-18 Final Feedback         BE Project Report submission and 100% work done           Oct 1-4         Remedial Classes           Oct 17-22         UT2 Marks entry (Link active Oct 17-22)           Oct 18 Term Work Submission         Oct 18 Defaulters list           Oct 18 Oct 18 Term End (SE TE BE)         CO Attainment without results           Oct 21 AS per         Department Faculty Meeting	Oct 14 -	Unit Test 2			
Detail   D					
Work done			RF Project Report submission and 1000/		
Oct 1 - 4         Remedial Classes           Oct 17-22         UT2 Marks entry (Link active Oct 17-22)           Oct 18 Term Work Submission         Oct 18 Defaulters list           Oct 18 Oct 18 Term End (SE TE BE)         CO Attainment without results           Oct 21 AS per         Department Faculty Meeting	Oct /				
Oct 17-22         UT2 Marks entry (Link active Oct 17-22)           Oct 18 Term Work Submission         Co Attainment without results           Oct 18 Oct 18 Term End (SE TE BE)         Co Attainment Faculty Meeting           Oct 21 AS per         Department Faculty Meeting	0				
Oct 18         Term Work Submission           Oct 18         Defaulters list           Oct 18         CO Attainment without results           Oct 18         Term End (SE TE BE)           Oct 21         Department Faculty Meeting           AS per         Description					
Oct 18         Defaulters list           Oct 18         CO Attainment without results           Oct 18 Term End (SE TE BE)         Department Faculty Meeting           AS per         Department Faculty Meeting			UT2 Marks entry (Link active Oct 17-22)		
Oct 18         CO Attainment without results           Oct 18 Term End (SE TE BE)         Department Faculty Meeting           AS per         Department Faculty Meeting	Oct 18	Term Work Submission			
Oct 18 Term End (SE TE BE) Oct 21 Department Faculty Meeting AS per	Oct 18	Defaulters list			
Oct 18 Term End (SE TE BE) Oct 21 Department Faculty Meeting AS per			CO Attainment without results		
Oct 21 Department Faculty Meeting AS per					
AS per			Department Faculty Mastins		
			Department racuity Meeting		
University  Fractical and Ural Exams   BE Project SEM VII Final Examination			DE D CEM VIII E		
	University	Fractical and Oral Exams	BE Project SEM VII Final Examination		

# SAMPLE- DEPARTMENT ACDEMIC CALENDAR EVEN SEMESTER (2019-2020)

#### FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING, BANDRA

ACADEMIC PLANNER: JANUARY-MAY 2019

5.4	F 4 10 1 1	0 : 1 - 51 -	04-27-N2'	0. 1 . 1 . 1
	Extra/Co-curricular Events	Curriculum Plan	Staff Notice	Student Bodies
Jan-01		College Reopens (for SE, TE & BE)		
Jan-05	Alumni Meet			
Jan-08		Faculty meeting		
Jan-08			Book Recommendations to central and departmental library	
Jan-16			Lesson Plan Submission to PAC	
Jan 18-25	Athlos		Lab Manual/Quiz submission	
Jan-18			Assignment formulation (1st and 2nd) with	
Jan-21			PAC Meeting, QP1/Assignments Submission	
Jan21-25			QP and Model Answer upload for Unit	
			test 1 : Link active between Jan 21 - Jan 25	
Jan-28			First mid term presentation(project)	
Jan-29				FE Coding Contest: Codelabs
Jan-31	Annual Sports day		Faculty Meeting(departmental)	
Feb-02			Follow up of defaulters' student by class teacher	
Feb 4,5,6		Unit Test 1 (FE,SE,TE,BE)		
Feb 6-12			UT 1 marks entry : Link active between Feb 6-12	
Feb-09				HTML and CSS workshop: MozillaCRCE
Feb 13-15	Euphoria			THIRE and COO WORKSHOP, MOZINGCING
Feb-18			Assignment 1 Evaluation (Tentative)	
Feb 18-22		Mid Term Feedback	,	
Feb-23	Convocation	make the in-residence of the control		
Feb-26			Follow up of defaulters' student by class teacher	
Feb-27			Assignment 2 Evaluation (Tentative)	
	Intercollegiate			
Mar-09	Hackathon			10. 10. P. 170. 17. 10. 10.
				Mozi Talk MozillaCRCE
Mar 15-16	Crescendo			Capture the flag(debugging), Image Capture: MozillaCRCE Counter Strike, Code Swapping:CSI Algoholic 4.0, Treasure Hunt : Codelabs
Mar-22			PAC meeting	
Mar-25			Internal BE Project presentation: 2nd stage	
Mar 25-29			QP and Model Answer upload for Unit test 2 : Link active between March 25-29	
Mar 30-31			toot E i Eliik dod to Bothooli ilidi oli Eo-Eo	Unscript Hackathon:MozillaCRCE, CodeLabs
Apr-02				
			Follow up of defaulters' student by class teacher	
April 8 9 10		Unit Test 2 (SE TE RE)	Follow up of defaulters' student by class teacher	
April 8,9,10		Unit Test 2 (SE, TE, BE)	Follow up of defaulters' student by class teacher	
April 8-12		FE Prelims	Follow up of defaulters' student by class teacher	
			UT 2 marks entry : Link active between April 10-	
April 8-12 April 8-16 April 10-15		FE Prelims Final FB (FE,\$E,TE,BE)		
April 8-12 April 8-16 April 10-15 Apr-15		FE Prelims	UT 2 marks entry : Link active between April 10- 15	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09		FE Prelims Final FB (FE,\$E,TE,BE)	UT 2 marks entry : Link active between April 10- 15 Internal BE Project Presentation: Final stage	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02		FE Prelims Final FB (FE,\$E,TE,BE)	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage Submission of soft copy of Black Book: a. rough draft	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02		FE Prelims Final FB (FE,\$E,TE,BE)	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage  Submission of soft copy of Black Book: a. rough draft  b. revised draft	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02 Apr-12 Apr-16		FE Prelims Final FB (FE,\$E,TE,BE)	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage  Submission of soft copy of Black Book: a. rough draft b. revised draft C. Final draft	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-02 Apr-02 Apr-12 Apr-16 Apr-18		FE Prelims Final FB (FE,SE,TE,BE)  Term WorkSubmission	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage  Submission of soft copy of Black Book: a. rough draft  b. revised draft	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02 Apr-12 Apr-16		FE Prelims Final FB (FE,\$E,TE,BE)	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage  Submission of soft copy of Black Book: a. rough draft b. revised draft C. Final draft	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02 Apr-12 Apr-16 Apr-18 Apr-20 Apr-22		FE Prelims Final FB (FE,SE,TE,BE)  Term WorkSubmission	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage Submission of soft copy of Black Book: a. rough draft b. revised draft C. Final draft Defaulter List  Termwork Sheet, Grading Sheet	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02 Apr-12 Apr-16 Apr-18 Apr-20 Apr-22 Apr-22 Apr-22-27		FE Prelims Final FB (FE,SE,TE,BE)  Term WorkSubmission  Term End	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage Submission of soft copy of Black Book: a. rough draft b. revised draft C. Final draft Defaulter List	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02 Apr-12 Apr-16 Apr-18 Apr-20 Apr-22		FE Prelims Final FB (FE,SE,TE,BE)  Term WorkSubmission	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage Submission of soft copy of Black Book: a. rough draft b. revised draft C. Final draft Defaulter List  Termwork Sheet, Grading Sheet	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02 Apr-12 Apr-16 Apr-18 Apr-20 Apr-22 Apr 22-27 April 22		FE Prelims Final FB (FE,SE,TE,BE)  Term WorkSubmission  Term End  External Practical + Oral	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage Submission of soft copy of Black Book: a. rough draft b. revised draft C. Final draft Defaulter List  Termwork Sheet, Grading Sheet April External oral exam (Project)  CO Attainment Submission (Current Sem	
April 8-12 April 8-16 April 10-15 Apr-15 Apr-09 Apr-02 Apr-12 Apr-16 Apr-18 Apr-20 Apr-22 Apr-22 Apr-22-27 April 22 onwards		FE Prelims Final FB (FE,SE,TE,BE)  Term WorkSubmission  Term End  External Practical + Oral	UT 2 marks entry: Link active between April 10- 15  Internal BE Project Presentation: Final stage Submission of soft copy of Black Book: a. rough draft b. revised draft C. Final draft Defaulter List  Termwork Sheet, Grading Sheet April External oral exam (Project)	

Dr. B.S. Daga

Head

Department of Computer Engineering

## **SAMPLE- CO ATTAINMENT CALCULATION**

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering

SUBJECT: Digital Logic Design & Analysis (CSC302)

BRANCH/SEMESTER: COMPUTER /III Academic Year: 2019-20

CSC302.1 : Perform number system and code conversions Target : 2.5

Assessment Tools	Weightage	NO. of successful students		Percentage	Level	Attainment
DIRECT METHODS						
		No. of students scoring >= 4.8 out of 8 in Q-1				
TEST	0.2	(T1)	60	84.51	3	0.6
60% students will score minimum 60% marks						
MODULE TEST1	0.2	No. of students scoring >=14 out of 20 in ass1	47	71.21	1	0.2
70% students will score minimum 70% marks						
QUIZ	0.2	No. of students scoring >=14 out of 20 in Quiz1	58	81.69	2	0.4
65% students will score minimum 70% marks						
UNI THEORY	0.2	No. of students acoring >= 48 out of 80	50	70.42	2	0.40
60% students will score minimum 60% marks						
UNI PRACTICAL	0.2	No. of students acoring >= 17.5 out of 25	70	98.59	3	0.6
60% students will score minimum 70% marks						
INDIRECT METHOD						2.2
Course Exit Survey	1	No. of students agree + strongly agree	65	1	3	3
75% students will score minimum 75% marks		No. of respondents = 65				
No. of students	71					

Levels	Test	QUIZ	Module Test	End sem exam(TH)	End sem exam(PR)	Survey
1 (Low)	60-69	65-74	70-79	60-69	60-69	75-80
2 (Medium)	70-79	75-84	80-89	70-79	70-79	81-85
3 (High)	80 and above	85 and above	90 and above	80 and above	80 and above	86 above

CO1 Attainment = 2.36

#### FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering

SUBJECT: Digital Logic Design & Analysis (CSC302) BRANCH/SEMESTER: COMPUTER /III

BRANCH/SEMESTER: COMPUTER /III Academic Year: 2019-20 CSC302.2: Design combinational circuits Target: 2.5

Assessment Tools Weightage NO. of successful students Percentage Level Attainment **DIRECT METHODS** No. of students scoring >= 10.8 out of 18 in Q-TEST (T1+T2) 0.2 2(8)+Q-3(4) in T1 & Q-1 (6M) T2 47 66.20 0.2 60% students will score minimum 60% marks No. of students scoring >=56 out of 80 in exp1-0.2 70 98.59 3 0.6 70% students will score minimum 70% marks ASSIGNMENT 0.2 No. of students scoring >=14 out of 20 in Quiz1 69 97.18 0.6 3 60% students will score minimum 70% marks **UNI THEORY** 0.2 No. of students acoring >= 48 out of 80 50 70.42 2 0.4 60% students will score minimum 60% marks UNI PRACTICAL 0.2 No. of students acoring >= 17.5 out of 25 70 98.59 3 0.6 60% students will score minimum 70% marks INDIRECT METHOD 2.4 65 3 Course Exit Survey 1 No. of students agree + strongly agree 1 75% students will score minimum 75% marks No. of respondents = 65 No. of students 71

_		The second secon				
Levels	Test	ASSIGNMENT	LAB	End sem exam(TH)	End sem exam(PR)	Survey
1 (Low)	60-69	60-69	70-79	60-69	60-69	75-80
2 (Medium)	70-79	70-79	80-89	70-79	70-79	81-85
3 (High)	80 and above	80 and above	90 & above	80 and above	80 and above	86 above

## **SAMPLE- CO ATTAINMENT CALCULATION**

#### FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering

SUBJECT: Digital Logic Design & Analysis (CSC302)

BRANCH/SEMESTER: COMPUTER /III Academic Year: 2019-20

CSC302.3 : Design sequential circuits. Target : 2.5

Assessment Tools	Weightage	NO. of successful students		Percentage	Level	Attainment
DIRECT METHODS						
		No. of students scoring >= 9 out of 14 in Q2(6) +				
TEST (T2)	0.2	Q3(8) in T2	31	43.66	0	0
60% students will score minimum 60% marks						
		No. of students scoring >=28 out of 40 in				
LAB	0.2	exp8,9,10,12	70	98.59	3	0.6
70% students will score minimum 70% marks						
MODULE TEST2	0.2	No. of students scoring >=14 out of 20 in Quiz1	57	80.28	3	0.6
60% students will score minimum 70% marks						
UNI THEORY	0.2	No. of students acoring >= 48 out of 80	50	70.42	2	0.4
60% students will score minimum 60% marks						
UNI PRACTICAL	0.2	No. of students acoring >= 17.5 out of 25	70	98.59	3	0.6
60% students will score minimum 70% marks						
INDIRECT METHOD						2.2
Course Exit Survey	1	No. of students agree + strongly agree	65	1	3	3
75% students will score minimum 75% marks		No. of respondents = 65				
No. of students	71					

Levels	Test	Module Test	LAB	End sem exam(TH)	End sem exam(PR)	Survey
1 (Low)	60-69	60-69	70-79	60-69	60-69	75-80
2 (Medium)	70-79	70-79	80-89	70-79	70-79	81-85
3 (High)	80 and above	80 and above	90 & above	80 and above	80 and above	86 above

CO3 Attainment = 2.36

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering

SUBJECT: Digital Logic Design & Analysis (CSC302)

BRANCH/SEMESTER: COMPUTER /III Academic Year: 2019-20

CSC302.4: Design and implement a solution for a simple real world problem based on the learned concepts of digital Logic design Target: 2.5

Assessment Tools	Weightage	NO. of successful students		Percentage	Level	Attainment
DIRECT METHODS						
	No. Of students scoring 14 or more out of 20 in					
LAB	0.2	EXP 11,12	71	1.00	3	0.6
70% students will score minimum 70% marks						
MINI PROJECT	0.8					
65% students will score minimum 70% marks		No. of students score 10.5 or more out of 15 =	71	1.00	3	2.4
						3
INDIRECT METHOD						
Course Exit Survey	1	No. of students agree + strongly agree	64	0.98	3	3
		No. of respondents = 65				

Level	Lab	Mini Project
1	70-79	65-74
2	80-89	75-84
3	90 & above	85 and above

## **SAMPLE- PO ATTAINMENT CALCULATION**

## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering

SUBJECT: Digital Logic Design & Analysis (CSC302)
BRANCH/SEMESTER: COMPUTER /III

Academic Year: 2019-20

СО	Description	Attainment
	Perform number system and code conversions	
CSC302.1	18 A	2.36
	Design combinational circuits	
CSC302.2		2.52
	Design Sequential circuits	
CSC302.3		2.36
	Design and implement a solution for a simple real world problem based on the learned	
	concepts of digital Logic design	
CSC302.4	a (Transport of St	3

## **PO Attainment**

CO Number	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attain
	Perform number system and code	3												3		
CSC302.1	conversions	3												3		2.36
CSC302.2	Design combinational circuits.	3	2	3	1									2		2.52
CSC302.3	Design sequential circuits.	3	2	3	1									3		2.36
	Design and implement a solution for a simple real world problem based on the	3	3	3	3					2	2			3		
CSC302.4	learned concepts of digital Logic design															3
Total		12	7	9	5					2	2			11		
CO-PO MATRIX		3	2.33	3.00	1.67					2	2			2.75		
PO ATTAINMENT		1.92	2.77	2.6	2.86					3	3			2.55		

## **SAMPLE - FINAL YEAR PROJECT ASSESSMENT**

BE - PROJECTS - PLAN

## Fr. Conceicao Rodrigues College of Engineering

# Department of Computer Engineering 2019-2020

## Project Activity Schedule

**B.E Computer Engineering** 

B.E Computer Engineeri		Class		
Date/week	Activity	Class		
First week of May/End	Project Idea Submission Notice for Students and faculty	TE -6		
of April	Period for idea submission- Till 3July 2019			
BE-7 Activities	T	T		
July 1/2 week	Project topic approval Presentation	BE-7		
(08/072019)		1		
July 3 / 4 week	Assigning guides to Project			
(24/07/2019)				
August1/2 week	Final project problem definition with guide(with research			
(Till 03/08/2019)	Papers)- Assigning new topics to Rejected project topic based			
	on project idea submitted by faculties/ revision of Problem			
	definition			
September 2/3 week	Mid term Presentation1 with research Papers and work	BE-7		
(11/09/2019)	attempted 40%			
October 1/2 week	Mid term Presentation2 with work attempted 80%	BE-7		
(05/10/2019)				
October 2/3week	Report submission and 100% work done	BE-7		
As per university	Oral exam and TW report evaluation	BE-7		
schedule				
BE-8 Activities		BE-8		
February 1 / 2 week	Mid term Presentation1-			
(10/02/2020)	1)Rough draft1 of research paper			
	2)Product features specifications with market research			
	Abstract submission to conferences or Journals			
March 1 / 2 week	Mid term Presentation2 -	BE-8		
	1)Final draft2 of research paper			
	2)Product features Implementation			
	Final paper submission to conferences or Journals			
March 3 / 4week	1)Implementation /demo to guide- Possibility checking for			
	Product / Patent			
	2) Poster draft1			
March 4 week	1)Draft Report1 and Poster draft2 submission	BE-8		
	2) Final product demo to Guide			
March 4 week	Draft Report2 submission- Revised demo to guide	BE-8		
April 1 week	Final Report submission and final poster	BE-8		
April 1 week	Poster submission	BE-8		
-				
As per university	Oral exam and TW Report evaluation			
schedule	CONTROL OF			

# SAMPLE - FINAL YEAR PROJECT ASSESSMENT MID-TERM PRESENTATION 1 : ODD SEM (2019-2020) FACULTY CIRCULAR

# Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E Computer Engineering

Academic year: 2019-20

Date: 22-08-2019

## CIRCULAR

All faculties of Computer engineering department are here by informed that First internal midterm project presentation for Major Project 1 is scheduled on Wednesday, 11<sup>th</sup> September 2019. Students are required to present detailed analysis, design, architecture of the proposed system and work done so far along with the timeline.

An Excel sheet has been shared on official E-mail ids, Kindly update the BE Project titles of your respective Groups.

Schedule for the presentation will be informed on 26th August 2019.

Dr. B.S. Daga

H.O.D

(Computer Engineering Department)

# SAMPLE - FINAL YEAR PROJECT ASSESSMENT MID-TERM PRESENTATION 1 : ODD SEM (2019-2020) STUDENT CIRCULAR

# Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E Computer Engineering

Academic year: 2019-20

Date: 22-08-2019

## NOTICE: Major Project1- First Mid Term Presentation

## **BE STUDENTS**

All students of B.E Computer engineering are hereby informed that Midterm presentation-1 of Final year Project has been scheduled on Wednesday, 11<sup>th</sup> September 2019, at 10:00am onwards. The detail schedule will be displayed on 26<sup>th</sup> August 2019. All students are required to meet Projects Guides weekly, and shows the project progress also finalize the project title which cannot be changed later.

Presentation must include following details of proposed Project:

- Introduction
- Literature review
  - o Background
  - o Literature Review (with citations)
  - o Summary of literature
  - o Research Gap
- Motivation
- Problem statement
- Objectives
- Scope / significance/relevance of System
- Applications and Existing system
- Proposed Architecture of system
- Methodology
  - Algorithms / Technologies /software specifications
  - o Hardware specification
- References (IEEE format)

NOTE: Pl. Bring hard copy of Main research Paper without fail and keep soft copy of all related Research papers in one folder.

Prof. Mahendra Mehra (Project coordinator)

Dr. B.S. Daga H.O.D

(Computer Engineering Department)

# SAMPLE - FINAL YEAR PROJECT ASSESSMENT MID-TERM PRESENTATION 1 : ODD SEM (2019-2020)

#### Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E. Major Project 1 FIRST MIDTERM PRESENTATION VENUE AND PANEL DETAILS Date: 11/09/2019 Time:10:00am onwards

PANEL 1: P	rof Swati	& Prof Roshini			
Group No.	Roll No	Name of Student	Project Title	Guide Name	venue
1	7968	Cajetan Rodrigues	Voice Enabled AI-based Drone for		
	7973	Vedant Sakhardande	Shipping and Delivery.		
	7918	Atharva Atre		Prof. Ringe Swati	
2	7949	Sharwari Marathe	Web Semantics	Pior. Kinge Swatt	
	8169	Rajesh Manjrekar			
	8171	Raksha Shetty			LAB NO 703
3	7966	Shreya Raut	Pimple detector and solution		10:00AM onwards
	7967	Renita Augustin	provider		
	7946	Hazel Lobo		Prof. Padate Roshni	
4	7921	Dhananjay Chobhe	Fire Detection and Extinguishment	FIOI. Fadate Rosilli	
	7962	Davina Pinto	System		
l		Aniket Tari			

#### Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E. Major Project 1 FIRST MIDTERM PRESENTATION VENUE AND PANEL DETAILS

Date: 11/09/2019 Time:10:00am onwards

Group No.	Roll No	Name of Student	Project Title	Guide Name	venue
5	7916	Aishwarya Sebin	Speech Assistance for the Deaf		
	7941	Gauri Jare			
	7972	Wencita Rodrigues		Deef December Walness	
6	7979	Deljin Jaison	Text summarisation	Prof. Deorukhkar Kalpana	
	7940	Sanjeev H.			
	8124	Shubham Ambilkar			
7	7922	Rochelle Cordeiro	Candidate interview evaluation		LAB NO 71
	7933	Brinel Dsouza			10:00AM onwards
	7978	Anol Kurian			onwards
8	7965	Karan Rao	Visual simultaneous localisation and		
	7917	Christo Aluckal	mapping	Dr. Daga B. S.	
	7627	Sumedh Deshpande			
9	7920	Juhi Checker	Job Role Prediction	]	
	7926	Sayali Deo			
	8160	Anne Rajan			

# SAMPLE - FINAL YEAR PROJECT ASSESSMENT MID-TERM PRESENTATION 1 : ODD SEM (2019-2020)

#### Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E. Major Project 1 FIRST MIDTERM PRESENTATION VENUE AND PANEL DETAILS

Date: 11/09/2019 Time:10:00am onwards

Group No.	Roll No	Name of Student	Project Title	Guide Name	venue
10	7944	Kartick Hariharan	AI-based GIS Mapping for Effective		
	7945	Ashley Lobo	Disaster Relief and		
	7947	Shawn Lopes	Recovery Operations	Dr. Deshmukh Sujata	
11	8167	Chinmay Gaonkar	Neural Voice Cloning	Prashant	
	8162	Sumedh Bhatkar			
	8170	Prema Pallan			LAB NO 70- 10:00AM onwards
12	7942	Jerome Nicholas	Lip reading App for the		
	7936	Kenrick Fernandes	deaf/dumb and also for		
13	7961	Nerissa Pereira	Diagnosis of Heart Disease	Prof. Thomas Merly	
	7923	Simran Dabreo	using Adaptive Network- Based Fuzzy Interference	The state of the s	
	7971	Linnet Rodrigues	ruzzy intererence		

#### Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E. Major Project 1 FIRST MIDTERM PRESENTATION VENUE AND PANEL DETAILS

Date: 11/09/2019 Time:10:00am onwards

Group No.	Roll No	Name of Student	Project Title	Guide Name	venue
14	7977	Yash Turkar	Indoor Navigation system		
	7928	Yashom Dighe	using RGB-D Imaging		
15	7975	Manish Singh	Mutual Fund Suggestions App	Dr. Surve Sunil	
	7932	Sunny Dodhiya			
					LAB NO 60
16	8164	Glen Dabre	Smart Exercise Monitoring System		10:00AM
	8163	Chris Carvalho			onwards
	7970	Lenis Rodrigues			
17	7931	Alphaeus Demonte	Vehicle Tracking	Prof. Kamoji Supriya	
	7938	Solomon Jose			
	7960	Clayton Pereira			

# SAMPLE - FINAL YEAR PROJECT ASSESSMENT MID-TERM PRESENTATION 1: ODD SEM (2019-2020)

#### Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E. Major Project 1 FIRST MIDTERM PRESENTATION VENUE AND PANEL DETAILS

Date: 11/09/2019 Time:10:00am onwards

PANEL 5: P	rof Sunil &	& Prof Dipali			
Group No.	Roll No	Name of Student	Project Title	Guide Name	venue
18	7924	Lenson Daniel	Music generation using Neural		
	7958	Aditya Patil	Network		
	7952	Alex Saji		Prof. Chaudhari Sunil	
19	7951	Aakash Mishra	IOT system for tyre safety	Troi. Chaddhair Suini	
	8125	Sarvesh Gupta			
	7954	Prabhu Anand			LAB NO 611
20	7919	Shreya Bhujbal	AI for Crime Prevention		10:00AM onwards
	7943	Nehal Kalnad			
	7976	Suyash Sreekumar		Prof. Koshti Dipali	
21	7957	Chinmay Paralkar	Sales Forecast App	FIOI. Koshu Dipan	
	8126	Kajal Sapkal			
	7963	Royston Pinto			

#### Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

B.E. Major Project 1 FIRST MIDTERM PRESENTATION VENUE AND PANEL DETAILS

Date: 11/09/2019 Time:10:00am onwards

Group No.	Roll No	Name of Student	Project Title	Guide Name	venue
22	7937	Simran Gadkari	Diabetic Retinopathy Detection		
	7950	Jenell Mathias			
	7959	Merlin Payapilly		Des C. Dessesson Aslandad	
23	7935	Leon Falcao	Topic to be confirmed with guide	Prof. Pansare Ashwini	
	7929	Macwill Dmello	consultation		
	7969	Kevin Rodrigues			
24	7925	Steve D'Costa	Topic to be confirmed with guide		
	7930	Ryan D'Mello	consultation	Prof. Mehra Mahendra	10:00AM
	7955	Joseph George		Prof. Mehra Mahendra	onwards
25	7953	Sohaa Mutsaddi	An AI based chatbot for medical		onwards
	7948	Shubham Mankar	assistance	assistance	
26	7956	Chaitanya	Success prediction of films at box		1
	7974	Suyash	office using ml		
	7964	Sankalp		Prof. Shetty Monali	
27	8168	Ofrin Lopes	Android app name : Total Guide	Pioi. Shelly Mohan	
	8161	Manthan Bhatkar			
	8165	Christina Daniel			

# SAMPLE - FINAL YEAR PROJECT ASSESSMENT MID-TERM PRESENTATION 1 : EVALUATION SHEET FORMAT

Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

#### First Mid Term Presentation Evaluation Sheet Academic year 2019-20

Class/Sem-B.E/SEM VII Presentation Date: 11<sup>th</sup> September 2019 Venue: Project Guide:

-		-
Comree	outcomes	Accessed.

Name

CO1: Practice the process of software project development in delivering successful IT projects.

CO2: Identify, summarize and analyze an appropriate literature and relate them to the problem in hand.

CO3: Design a solution to chosen problem using appropriate approach or methodology considering professional ethics and responsibility towards societal, Health, safety and legal issues.

D	eliverables →	Clear understandi ng of goals and objectives (CO1)	Identific ation of constrai nts	SRS document	Identification of relevant Literature	Summarizatio n of results and findings of the overall literature review process (CO2)	Identificatio n of project phases (CO3)	Identification of tools and Technologies to be used	Identification of possible Problems at each stage and suggestion on prevention methods (CO3)	Total
MAR	KS DISTRIBUTION→	4M	4M	8M	6M	6M	10M	6M	6M	50M
Roll no	Student Name	Project Tit	le:							

# Panel members: Sign

## **SAMPLE - FINAL YEAR PROJECT ASSESSMENT** MID-TERM PRESENTATION 2: ODD SEM (2019-2020) **FACULTY CIRCULAR**

### Fr. Conceicao Rodrigues College of Engineering Department of Computer Engineering

**B.E Computer Engineering** 

Date: 25-09-2019

#### CIRCULAR

All faculties of Computer engineering department are here by informed that Second internal mid-term project presentation for Major Project 1 is scheduled on Saturday, 05th October 2019. Students are required to present Literature review, Architecture of the proposed solution and Implementation done so far along with the timeline.

Project guides are required to go through the title approval sheet which is attached along this circular and mark any discrepancies on the paper and sign the same also make a note of the students who attended the "Understanding software design workshop" on 23rd September 2019 for the groups under you.

Schedule of the presentation will be informed on 3rd October 2019.

Dr. B.S. Daga

(Computer Engineering Department)

Academic year: 2019-20

#### SAMPLE - FINAL YEAR PROJECT ASSESSMENT

### MID-TERM PRESENTATION 2 : ODD SEM (2019-2020)

#### **STUDENT CIRCULAR**



swati CRCE <swati@fragnel.edu.in>

#### Circular : BE Major Project 1- First Midterm Presentation (2nd-7th November 2020)

1 message

Mahendra Mehra CRCE <mahendra.mehra@fragnel.edu.in>
To: Computer Department <comp@fragnel.edu.in>

Mon, Oct 26, 2020 at 2:13 PM

Dear All

All faculties of the Computer Engineering department are hereby informed that the BE Computers, Major Project I, First Midterm Presentations are scheduled from 2<sup>nd</sup> November to 7<sup>th</sup> November 2020. A Judges panel consisting of two guides have been formed who will be evaluating the Project Progress. The guides in the panel will have to communicate with one another and fix a suitable date and time on or before 2<sup>nd</sup> November 2020 and convey the same to their project groups. Judges panel and teams list is attached below.

#### Students have been asked to prepare PPT consisting of following slides in the order given:

- Introduction
- Literature review
  - o Background
  - o Literature Review (with citations)
  - o Summary of literature
  - o Research Gap
- Problem statement
- Objectives
- Scope / significance/relevance of System
- · Applications and Existing system
- Proposed Architecture of system
- Methodology
  - o Algorithms / Technologies /software specifications
  - o Hardware specification
- References (IEEE format)

#### Demonstration of Work Done so far

Presentation schedule: 2<sup>nd</sup> – 7<sup>th</sup> November 2020 Platform for conducting presentations: Google Meet

Time per team: 20 Minutes

#### Note:

 Guides will have to fill a Grading sheet (Shared Excel Sheet) giving marks out of 50 to their respective teams after the presentation.

Link to the form: https://docs.google.com/spreadsheets/d/1U5bis9e1YHULZGyS1mtcziDxPIOqbkz3au8yVhxnHRk/edit?usp=sharing

2. Guides will have to save the recordings of the presentations conducted on google meet and share the link in a shared excel sheet of bimonthly report.

Regards
Prof. Mahendra Mehra
Assistant Professor,
Computer Engineering Department.
Fr.C.R.C.E
Bandra (West)
8149327826 / 7977664541



#### **SAMPLE - FINAL YEAR PROJECT POSTER**



#### **eFSI**

#### (E-Yantra Farm Setup Initiative, IIT Bombay)

Department of Computer Engineering,

Fr. Conceicao Rodrigues College of Engineering, Bandra, Mumbai,

Affiliated to Mumbai university

#### AIM

Initiative aims at setting up an automated agriculture project test bed to address real-world problems and hands-on learning for students to apply theory in a fun in a productive manner.

### **FLOW DIAGRAM**

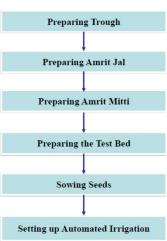


Figure 1: Flow Diagram

### Task 1: Preparing Through of HDPE

- 1. Cut the sheet of length 100cm.
- Make four crease marks along its length & breadth at a distance of 20 cm each from the edges
- 3. Make four crease marks at corners at an angle of 45 degrees. Make two 8mm holes using a drill machine at a distance of 10 cm from center on either sides and at distance of 5cm from the edge of the sheet. Repeat this on the other side of the sheet
- Fold the sheet along the crease marks to form a rectangular open box



#### Task 2: Preparing Amrit Jal

- Organic Jaggry (100gm) + Cow Urine (1L) + Cow Dung (1 kg) + Water (10L) slurry is created
- Stirring the slurry in clockwise direction (12 times), then in anti-clockwise direction (12 times)
- 2. Step 2 repeated slurry 3 times a day for the next 3 days
- After 3 days Dilute 11 liters of slurry into 100 liters of water which will create 111 liters of Apput Ial



#### Task 3: Preparing Amrit Mitti

- Mix 20 kg biomass into Amrut Jal and keep it standing for 24 hrs.
- 3 feet wide and 1 feet high from wet biomass Heap created
- Heap was created using layers of Biomass, soil and rock-dust (incase soil is less pores)
- 4. The layer present are as follows
  - ◆ Layer 1 Biomass
  - ♦ Layer 2: Soil
  - ◆ Repeat layer 1 & 2 up till layer 11
  - ◆ Layer 12: Rock dust
  - ◆ Apply pressure across heap
  - every 10th layer of biomass.
     Continue the above layering until you reach 1 feet



Task 5: Sowing Seeds

- One layer of soil approximately 2 inches is added
- 2. The seeds are Sown
  - Top the seeds with mulch heap with biomass to protect the seeds from birds.
- Pruning of 25% leaves (21 Days after germination and then after 42 days)
- 5. Some plants may start flowering, cut all plants 0.5inch from soil 5. and cut stem into 3-4 inch and keep it on heap for 3-4 days for 6. drying (63 Days after germination)



Task 4: Preparing Test Bed

- Approximately 60 layers have been created
- Heap is turned twice a week and Amrut Jal is sprayed to maintain moisture inside the heap
- Every 7 days add Amrut Jal and water to keep the heap moist.
- Turn the heap every 7 days for the next ONE month and add the Amrut Jal to keep the heap moist
- One layer of soil-approximately 2 inches added before sowing of seed
- After sowing top the seeds with mulch heap with biomass to protect the seeds from the birds



Task 6 : Setting up automated irrigation

- RaspPi Internet of things (IoT)
   Dashboard
- Setting WIFI router ,Sensors Light , Fan and Water Storage
- Connecting all with RaspPi and supplying power to it
- The sensors collect the data and send it to the cloud server with the help of Raspi and Hotspot The sensors data is displayed
- with the help of an android app The irrigation, light and fan are controlled by the Raspi based on the values from the sensors place inside the farm



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# SAMPLE - BE PROJECT ASSESSMENT FEEDBACK FORM FORMAT FOR EXTERNAL

3/16/2021

Fr.CRCE: BE Computer Major Project II External Examiner's Feedback

## Fr.CRCE: BE Computer Major Project II External Examiner's Feedback

	This is the Feedback form to be filled by External * Required	Examiner for	project g	roups under F	Prof. <mark>M</mark> onali	and Prof. Ashwini
1	. Email address *					
2	2. External Examiner Full Name *					
3	3. External Examiner's College Name *					
4	I. Contact No *					
https://doc	s.google.com/forms/d/1ZyaVyjprO6105ivYWdSl3Kx6t8n9VToWwbaCl8k	wixg/edit				
3/16/2021	Fr	CRCE: BE Com	puter Major	Project II Externa	al Examiner's F	Feedback
5.	1. Select the Project Evaluated *  Mark only one oval.  Prof. Shetty Monali: Selection of optimal :  Prof. Shetty Monali: Virtual mouse using the prof. Pansare Ashwini: RetinoDoc: A Dialogor Prof. Pansare Ashwini: Pothole detection PROJECT EVALUATION *	hand gestur petic Retinop	e oathy Det	ection App	nce	
	Mark only one oval per row.	5llant	0		D	
	Problem Statement	Excellent	Good	Average	Poor	
	Literature Survey					
	Usage of Modern Tool/Technology					
	Design(s) and Implementation					
	Result Analysis					
	Oral Presentation and Project Demonstration					
	Overall Feedback on work done by the Project Team		$\bigcirc$		$\bigcirc$	

https://docs.google.com/forms/d/1ZyaVyjprO6105ivYWdSI3Kx8t8n9VToWwbaCl8Kwixg/edit

3/16/2021		Fr.CRCE: BE	Computer Ma	ajor Project II E	xternal Exan	niner's Feedback	
7.	Any other Comment (Optional)						
8.	2. Select the Project Evaluated *						
	Mark only one oval.						
	Prof. Shetty Monali: Selection of optim	nal team bas	sed on pla	ayers perfor	mance		
	Prof. Shetty Monali: Virtual mouse usin	ng hand ges	sture				
	Prof. Pansare Ashwini : RetinoDoc: A D				рр		
	Prof. Pansare Ashwini : Pothole detect	tion using m	nobile sen	isor			
3/16/2021	Fr	:CRCE: BE Con	nputer Major I	Project II Extern	al Examiner's	Feedback	
9.	PROJECT EVALUATION *						
	Mark only one oval per row.						
		Excellent	Good	Average	Poor	_	
	Problem Statement		$\bigcirc$			_	
	Literature Survey					_	
	Usage of Modern Tool/Technology					_	
	Design(s) and Implementation					_	
	Result Analysis					_	
	Oral Presentation and Project Demonstration					_	
	Overall Feedback on work done by the Project Team		$\bigcirc$	$\bigcirc$	$\bigcirc$		
						_	
10.	Any other Comment (Optional)						

3/16/2021	Fr.C	RCE: BE Comp	uter Major Pr	oject II External	Examiner's F	eedback		
11.	3. Select the Project Evaluated *							
	Mark only one oval.							
	Prof. Shetty Monali: Selection of optimal team based on players performance							
	Prof. Shetty Monali: Virtual mouse using hand gesture							
	Prof. Pansare Ashwini : RetinoDoc: A Dia	betic Retino	pathy Det	ection App				
	Prof. Pansare Ashwini : Pothole detection	using mob	ile sensor	r				
12.	PROJECT EVALUATION *							
	Mark only one oval per row.							
		Excellent	Good	Average	Poor			
	Problem Statement					-		
	Literature Survey					-		
	Usage of Modern Tool/Technology					_		
	Design(s) and Implementation					-		
	Result Analysis					_		
	Oral Presentation and Project Demonstration					_		
	Overall Feedback on work done by the Project Team					_		
https://docs.god 3/16/2021 13.	ogle.com/forms/d/1ZyaVyjprO6105ivYWdSI3Kx8t8n9VToWwbaCI8k Fr.C Any other Comment (Optional)		outer Major F	Project II Externa	al Examiner's	Feedback	5/9	
14.	4. Select the Project Evaluated *  Mark only one oval.  Prof. Shetty Monali: Selection of optimal  Prof. Shetty Monali: Virtual mouse using  Prof. Pansare Ashwini: RetinoDoc: A Dia  Prof. Pansare Ashwini: Pothole detection	hand gestu betic Retino	re pathy De	tection App				

15.	PROJECT EVALUATION *					
	Mark only one oval per row.					
	Problem Statement	Excellent	Good	Average	Poor	
	Literature Survey					
	Usage of Modern Tool/Technology					
	Design(s) and Implementation					
	Result Analysis					
	Oral Presentation and Project Demonstration					
	Overall Feedback on work done by the Project Team	0	0	0	0	
16.	Any other Comment (Optional)					
1		Kwixg/edit CRCE: BE Comp	outer Major P	roject II Externa	l Examiner's Fed	rdback Please provide your NEFT details
1	Fr.S aminers NEFT DETAILS		outer Major P	rojeot II Externa	l Examiner's Fed	
1 Ex	Fr.C		outer Major P	roject II Externa	l Examiner's Fee	
1 Ex	Fr.S aminers NEFT DETAILS		outer Major P	roject II Externa	Examiner's Fee	
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Ex. 17. 18. 19.	aminers NEFT DETAILS  Account Holder Name *  Account No *		buter Major P	roject II Externa	l Examiner's Fee	

#### **SAMPLE - UNIT TEST QUESTION PAPER**

## Fr. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING. <u>Unit Test-II</u>

SEMESTER / BRANCH: VII / COMPUTER

SUBJECT: **Big Data Analytics**DATE: **16/10/2019**MAX. MARKS: 20
TIME: 11.30AM-12.30PM

CSDL07032.4: Interpret business models and scientific computing paradigms, and apply software

32.4: Interpret business models and scientific computing paradigms, and apply software tools for big data analytics. [B3: Application]

CSDL07032.5: Adapt adequate perspectives of big data analytics in various applications like Recommender systems, Social Media applications etc. [B3: Application]

## Q. 1. <u>Identify the algorithm and show the working</u> (any three) [CO4] (15 Marks)

- a) The sensor generates the continuous stream of data about temperature. If the temperature at any instant is above certain average temperature then that is represented as 1 otherwise 0. Count how many times the sensor reading was above the average temperature (number of ones) in the data stream in last k readings (bits) (k=20) using appropriate algorithm. 10110101011011 Then if the new bits 10111 arrive; Show change in the states of the buckets. Compare the Estimated answer with Actual answer and comment. What is the complexity of the applied algorithm?
- b) The University has the data set of all the professor profiles and their salary. All the data points are not normally distributed across the centroid. Identify the suitable algorithm for clustering such a big data set and explain its working with analysis.
- c) There are three web pages indicated as nodes n1 to n3. The random surfer may visit the pages using hyperlinks. This is represented using the adjacency matrix for a graph.

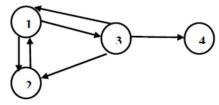
111

101

A = 0 1 0

Calculate the authority and hub scores for this graph using the suitable algorithm with k=2 and Identify the best authority and hub nodes.

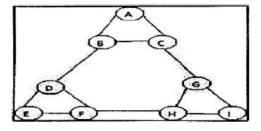
d) Compute the page rank of nodes (refer Fig Q1-d) with teleport factor 0.8. (Show two iterations). Does this network have dead ends and spider traps?



#### Q. 2. Answer any one question.

[CO5](05 Marks)

- a) Define content based recommendation systems. Using an example case study describe how it can be used to provide recommendations to users.
- b) The whaps-app network is shown in the graph (Refer fig Q2-b). Find all two level communities using a suitable algorithm using the edge betweenness factor.



#### SAMPLE - STUDENT REPORT CARD INTERNAL ASSESSMENT



## Fr. Conceicao Rodrigues College of Engineering

Fr Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400050 URL: www.fragnel.edu.in Ph: +912267114168 Mail: exam@fragnel.edu.in

#### STUDENT PERFORMANCE REPORT

Dear Parent,

Subject:

Performance report of Mr. / Ms. Gupta Hrithik Anil

Please find the performance report of your ward Gupta Hrithik Anil [Roll. No. 8542] after the 9 Weeks of classes and Internal assessment test - 1. We would like to inform you that minimum of 75 % overall attendance is required to become eligible for the Term End University Examination. Term End examination is expected to begin from third week of Nov, 2019. Internal assessment test(s) are separate passing heads and failure in the IA Test indicates failure in the Term End University examination. We request you to kindly help us in improving the student's performance by taking necessary steps possible from your end. This would strengthen our efforts in this regard.

We request you to get in touch with the Electronics Engineering Class teacher Prof. Heenakausar Pendhari to discuss & understand the performance of your ward.

Prof. Heenakausar Pendhari may be reached on Phone: +91-022- and e-Mail: heenak.pendhari@fragnel.edu.in

#### Attendance Report

Subject Name	Type	CC	AC	%Atten
Applied Mathematics - III	TH			48%
Digital Circuit Design	TH	29		49%
Electronics Instruments & Measurement	TH	18	8	45%
Electrical Network & Measurement Lab.	PR	5	3	60%
Electronic Devices & Circuits I Lab.	PR	5	2	40%
Applied Mathematics - III	TU	3	3	100%

Subject Name	Туре	CC	AC	%Atter
Electronic Devices & Circuits I	TH	28	15	54%
Electrical Network Analysis & Synthesis	TH	28	24	86%
Object Oriented Prog. Methodology Lab.	TH	13	8	62%
Digital Circuit Design Lab.	PR	5	4	80%
Object Oriented Prog. Methodology Lab.	PR	5	4	80%
		65204	200	

TH: Theory PR: Practical TU: Tutorial CC: Conducted Classess / Sessions AC; Attended Classess / Sessions NA: Not Applicable

Overall % attendance: 60 %

#### Internal Assessment Test Marks Report

Subject Name	Туре	Max Marks	Secured Marks	% Marks / Result
Applied Mathematics - III	TH	20	2	10% / Fail
Electronic Devices & Circuits I	TH	20	14	70% / Pass
Digital Circuit Design	TH	20	6	30% / Fail
Electrical Network Analysis & Synthesis	TH	20	NA 00	fail
Electronics Instruments & Measurement	TH	20	4	20% / Fail
Object Oriented Prog. Methodology Lab.	TH	0	0	0% / Fail

TH: Theory NA: Not Applicable

RISHMAN

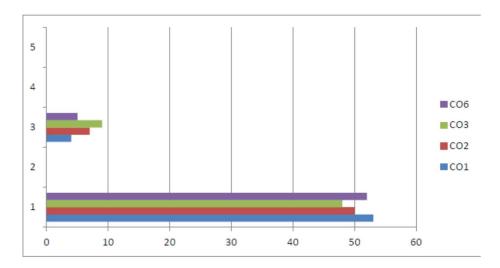
Head of Department

Class Teacher

Do not Print this document unless it is very necessary. Save Environment. Save Trees. e-Governace initiative - Fr. CRCE

### **SAMPLE - COURSE EXIT SURVEY**

FR.C.R.C.E									
	Department of Computer Engineering								
Subject:	Big Data	Analytics	(CSDLO70	32)	Year: 2	2019-2020			
			Course E	xit Surve	4				
Rating	5	4	3	2	1				
CO1	5	3	4						
CO2	5	0	7						
CO3	4	8	9						
CO4	5	0	7						
CO5	5	1	6						
CO6	5	2	5						



#### <u>SAMPLE - MID TERM FEEDBACK</u>

#### FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

## Department of Computer Engineering 2019-2020

#### Mid Term Feedback Report

To enhance the quality of teaching/learning process, midterm feedback was conducted across all the semesters' on19th August 2019 (Odd) & 28<sup>th</sup> February 2020- (Even). This was in addition to college level student's feedback. Following question were asked to students.

#### A) Subject wise teaching Learning feedback

Knowledge of the teacher on the subject
Clarity and understandability of teacher's explanation9 responses
Effectively used lecture time
Ability to hold attention
Speed of Presentation
Ability to encourage interaction
Accessibility outside the class
Engagement of all lectures according to time table on regular basis
Ability to be unbiased
Overall Teaching effectiveness of the teacher
Any Additional Information

#### B) Facilities/ activities

Lab facility	
Internet/Wifi Facilities	
Library Facilities	
Sports and cultural facilities and actives	
Students counseling, mentoring and Guidance	

#### C) Curriculum aspects, Carrier Guidance and overall development

	Seminars and workshops related with recent technological development
	Guidance for Placement, Higher studies and Entrepreneurship
1	Any specific remark on overall development

#### General Observation

- · Overall students were happy with the teaching/learning method.
- Lab facilities were observed well except for Internet speed and more Wi-Fi access points.
- · Library facilities were fairly good
- Proper guide lines on project based learning
- · Requested weightage in academic for house Internship
- Smart classrooms for effective teaching learning process

- Requested for industry internships and higher studies guidance, competitive programming
- Project Lab with facilities on machine learning

Subject wise feedback was communicated to the respective teacher to improve the process.

(Dr. B. S. Daga)

HoD ,Computer Engineering