

1.4.1 and 1.4.2 - Stakeholder feedback, action taken report, Alumni exit survey and Graduate exit survey

2020-21

Sr	Details	Pg. no
1	Stakeholder feedback and action taken report	3
2	Graduate exit survey	21
3	Alumni survey	23

**Action taken on Graduate Exit Survey,
Alumni Feedback and Teacher Feedback
And
Sample Analysis of Graduate Exit Survey,
Alumni Feedback**

Contents

Sr.No	Topics	Page No
1	Action Taken on Action Taken on Student, Parents, Teacher Feed back	3
2	Recommendation for curricular enhancement in next subject revision for Information Technology.	4
3	Recommendation for curricular enhancement in next subject revision for Computer Engineering.	5
4	Recommendation for curricular enhancement in next subject revision for Electronics Engineering.	6
5	Recommendation for curricular enhancement in next subject revision for Production Engineering.	7
6	Executive Council Report	8
7	Governing Council report	12
8	College Development Committee Report	17
9	Sample of Graduate Exit & Alumni survey	21
10	Sample of End Semester Feedback of Teacher.	26
11	Sample of Academic Audit Report	27

Note: Due to Pandemic action taken is carried out only for Governing Council report & College Development Committee Report. And other reports same as 2019-20.

Fr. Conceicao Rodrigues College of Engineering
Fr. Agnel Ashram, BandStand, Bandra (W), Mumbai, Maharashtra
400050

Action Taken on Student, Parents, Teacher Feed back

<u>Sr. No</u>	<u>Attributes</u>	<u>Action Taken</u>
1	Utility of courses covered in the program to perform industry jobs and pursue higher studies. And adequacy of the syllabus to upgrade hardware and software skills	Curriculum gap is identified by the consultation with the academic and industry experts and suggestion for inclusion in next syllabus revision are conveyed to the university of Mumbai to enrich students with more practical knowledge.
2	Enhancement of technical and analytical skills to cope with advanced tools/ simulations used in the industry	Many technical events /workshops /seminars /guest lecturers/industrial visits are organized in college to refine technical knowledge of students.
3	Relevance of skills and knowledge acquired during execution of practicals, BE projects and mini projects in Industry and adequacy of current Industry-Institute interaction	Real Life projects and assignments, project based learning, alumni seminar, mini projects, technical session on core subjects like competitive coding, advance programming, simulation on arena are given to students to enhance their technical skill.



A handwritten signature in blue ink, consisting of stylized letters and a horizontal line.



SOCIETY OF ST. FRANCIS XAVIER, PILAR'S
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to University of Mumbai)

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Website : www.frcrce.ac.in • Email : crce@fragnel.edu.in

Ref.: CRCE / 2019 / 198

आचार्य
२०
१५/५/१९
अनुक विभाग

Date: May 8, 2019.

To
The Chalmrman,
Board of Studies, Information Technology,
University of Mumbai, Attention to Academic Authority

Subject: Recommendations for Curriculum Enhancement in next revision.

Respected Sir,

The Department of Information Technology have collected feedback from stakeholders of out institute about their recommendations for curriculum enrichment.

Our Suggestions accordingly are as follows.

1. Syllabus should include compulsory internship that will help students to experience the real job environment.
2. Syllabus should be practical based
3. TE elective subjects should include practical sessions.
4. Wireless Sensor network- Instead of Mini Project experiment have to be kept on protocol implementation in NS-2

Some Topics can be added with respect to the subjects as follows.

Subject	Topic Suggested.
Computer Organization and Architechure	Cache Simulator
Data Mining and Business intelligence	Data mining and business analysis tools
Wireless Sensor Networks	WSN protocols
Software Engineering with Project Management	Quality Management, Human Resource Management
Cloud Computing and Services	Cloud Network

This is our suggestion keeping in view of industrial requirements.

Thanks and Regards,


(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL





SOCIETY OF ST. FRANCIS XAVIER, PILAR'S
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
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मुंबई विद्यापीठ
 सहायक कुलसचिव
 आयुक्त, संगणक विभाग
 २०
 १५/५/१९
 आचक विभाग

Date: May 7, 2019.

Ref: CRCE / 2019 / 196

To
 The Chairman,
 Board of Studies, Computer Engineering,
 University of Mumbai,

Subject: Recommendations for Curriculum Enhancement in next revision:

Respected Sir,

The Department of Computer Engineering have collected feedback from stakeholders of our institute about their recommendations for curriculum enrichment.

Our Suggestions accordingly are as follows.

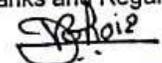
1. Database Management Systems subject can be there in the SE (Sem III).
2. Dataware housing and Mining subject can be there in TE (Sem V).
3. Big Data Analytics and Deep Learning can be compulsory subject.
4. Some topics can be included in curriculum like Block chain, DevOps, Virtual Reality, Docker(Kubernetes), Cloud(AWS, S3), Spring framework, Spring Boot.

Some Topics can be added with respect to the subjects as follows.

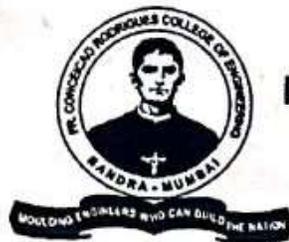
Subject	Topic Suggested.
Data Structure	Heap Memory Allocation. Real life application for every data structure.
Human Machine Interface	Mini Project , Technical Paper study as Lab assignment. Ethics in HMI
Soft Computing	One Chapter on "Deep Learning", Mini project as Lab work.
Cryptography and Systems Security	Current trends in security like cloud security, Big Data Security.
Systems Prog. & Compiler Construction	Introduction to NLP.
Digital Logic Design Algorithms	Introduction to IOT, Mini Project on Digital Circuits / IOT
DBMS	One chapter on Distributed Databases
Web Technologies	Java technologies like Jdbc, Spring Framework, MVC architecture Javascript technologies like Node.js, Meanstack, Angular JS, Reactjs
Computer Organisation Architecture	Branch Prediction and Control unit design in detail with respect to advanced processors
Advance Algorithm	Need to have Lab Exposure.
Object Oriented Prog. Methodology	Run time Polymorphism
Big Data Analytics	SPARK, ML Library for Big Data, Kafka, Rabbit MQ

This is our suggestion keeping in view of industrial requirements.

Thanks and Regards,


 (DR. SRIJA UNNIKRISHNAN)
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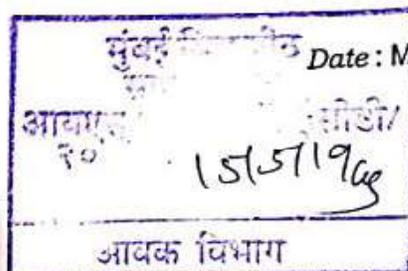
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Ref.: CRCE / 2019 /208

To
The Chairman,
Board of Studies, Electronics Engineering,
University of Mumbai,



Date : May 14, 2019.

Subject: Recommendations for Curriculum Enhancement in next revision.

Respected sir,

The Department of Electronics Engineering, have collected feedback from stakeholders of out institute about their recommendations for curriculum enrichment.

Our Suggestions accordingly are as follows.

1. Syllabus should include compulsory internship that will help students to experience the industrial environment.
2. Syllabus should have scope to upgrade both hardware and software skills.
3. Syllabus should have relevance to current Industry developments
4. Linear Control System should include practical sessions.
5. Need to incorporate devices/technology currently used.
6. Laboratory should be upgraded as per industrial norms.

Some Topics can be added with respect to the subjects as follows.

Subject	Topic Suggested.
Computer Organization and Architecture	Cache Simulator
Linear Control System	Need to have Lab Exposure.
Database Management System	Introduction to Big Data

This is our suggestion keeping in view of industrial requirements.

Thanks and Regards,

(DR. SRIJA UNNIKRISHNAN)
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SOCIETY OF ST. FRANCIS XAVIER, PILAR'S

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

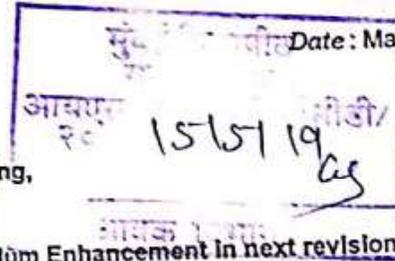
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Ref: CRCE / 2019 / 197



To
The Chalm,an,
Board of Studies, Production Engineering,
University of Mumbai,

Subject: Recommendations for Curriculum Enhancement in next revision

Respected Sir,

The Department of Production Engineering have collected feedback from stakeholders of our institute about their recommendations for curriculum enrichment.

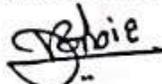
Our Suggestions accordingly are as follows.

Some Topics can be added with respect to the subjects as follows.

Subject	Topic Suggested.
Material Science and Engineering	Diffusion, Shape Memory Alloys, Glasses, Polymers, Wood
Production and Operations Management	Service Aspect of business operations
Economic, Finance, Accountancy and Costing	Financial Statement and Analysis of Service/ IT industries Aspect of Personal Finance
Production Tooling	3D Modelling of Models
Applied Thermodynamics	Flow in Open Channel
Industrial Robotics	Practical Application of Sensor
Engineering Drawing	Intersection of Curve of Cylinder to Cylinder Solid Modeling and Simple Assembly in Software
Design of Metal and Mould Forming Technology	Injection Moulding

This is our suggestion keeping in view of industrial requirements.

Thanks and Regards,


f (DR. SRIJA UNNIKISHNAN)
PRINCIPAL



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

MINUTES OF THE EXECUTIVE COMMITTEE MEETING HELD ON
16TH NOVEMBER 2018 IN THE BOARD ROOM (GROUND FLOOR) AT 02.00 PM
.....

MEMBERS PRESENT:

1. Dr. Srija Unnikrishnan (In the Chair)
2. Mr. D.S.S. Sudhakar
3. Dr. D.V. Bhoir
4. Dr. S.K. Surve
5. Ms. Sundry Prabavathy
6. Dr. V.S. Bilolikar
7. Dr. Bhushan Patil
8. Dr. Sapna Prabhu
9. Dr. V.S. Jorapur

Principal welcomed the members.

Principal read out the minutes of last meeting held on 6th October 2018. She told HODs to take up all pending works in the Dept. staff meeting and fix time-lines for the same in the Dept. academic calendar.

The following matters were discussed:

Item No.1: Review of the current Semester

- Members reviewed the current attendance rule. They remarked that students took the cover of remedial classes, for not maintaining regular attendance.
- In cases where re-tests for UT were given, the IA score should be the minimum passing mark.
- Principal enquired about the overall attendance and performance of first year students and members responded that it was better than last year. She said that students having capability but failing in Unit Tests, should be guided and given re-test to keep up their confidence level. This will reduce the number of admission cancellations, especially in Production and Electronics.
- Termwork and Internal Assessment marks entry will be online. Final entry of the same will be done after the approval from respective HOD.
- Principal mentioned that the range of TW and IA marks should be scaled up, on par with other colleges, with no compromise on the amount and quality of practical work done by students. Students should be made to put in efforts and rewarded.
- Members said that our SE, TE and BE students' performance in Orals, and Practical exams was satisfactory and better than that observed in other peer colleges.

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Item No.2 : Next Semester

- Uniform 75% attendance rule, with no provision for make-up through remedial classes, will be followed in the next semester. Constant follow up by class teachers and HODs should be done to identify defaulters in the beginning of the semester and keep them regular. Serious defaulter cases will be considered individually.
- It was decided to implement a more practical oriented teaching. Before the time-table is finalised, HODs will identify practical oriented subjects and allocate more lab hours for those subjects. Faculty can use good videos, case studies and explore innovative methods to give practical / industrial exposure to students in their subjects.
- Duration of theory lecture will be reduced to 45 min, taking note of the attention span of students. Subjects with 4 hours per week, will have 5 periods of 45 minutes each. As far as possible (lab allotment permitting), time-table will have 5 periods in the morning session and practicals in afternoon.
- Members discussed the placement scenario and the challenge in getting students placed in the coming years. This year, TCS did not visit any campus. They conducted national level aptitude tests, followed by interviews in their offices. Similar procedure might be adopted by Accenture next year. In general, the placement process is becoming very competitive. Hence, it is very necessary that our students get the correct orientation and training from second year itself.
It was decided to arrange placement training of one week for sixth semester students and if possible, for fourth semester also. This should include the necessary skill set training.
- Students should be encouraged to give GATE examination. For the same, refresher classes for GATE relevant subjects can be planned in the Dept. Academic calendar.
- Dr. Surve suggested that each faculty can assign projects to students in his/her area of interest, involving second and third year students. 2 hrs time slot can be allotted for the same and based on their performance, some credit marks can be assigned and included in Term Work. The logistics of the scheme should be worked out at the dept. level.
Dr. Surve explained that Computer department has formed groups of 5 students and a mini project is allotted to each group, under the mentorship of one faculty member. The same faculty member will be the academic mentor for those students and will track their performance.
- Dr. Bilolikar suggested increase in the no. of working hours, by extending the college timings up to 6.30 pm, in order to avoid the constraints of infrastructure availability. However, members did not find it viable as majority of the students are from Vasai-Virar areas and have difficulty in travelling by train during the evening peak hours.
- Next semester, all dept.s will target to publish departmental newsletter

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Item No.3 : AQIS applications from departments

Principal said that Electronics and IT dept.s have applied for STTP under AQIS. Computer and Production Engg. dept. HODs said that they are targeting to apply for MODROB.

Item No.4 : Faculty internships

Faculty internship, in rotation, will be mandatory. HODs should identify two faculty members from their respective departments, who will be going for internship, this summer. The duration of internship can be from minimum 2 weeks to maximum 2 months, depending on the company's requirements. If the company is located outside Mumbai, the minimal expenditure of stay and commuting can be considered for reimbursement, with prior approval from management.

Dr. Surve mentioned that Bennet University is ready to take faculty on internship. The expenditure involved is to be found out.

Item No.5 : Other matters

- Principal enquired with Prof. S. Prabavathy regarding the updation of H&S departmental website, to which she responded that the same has been done.
- It was decided to order soft boards, in each dept., for the display of posters of student projects and other achievements. Each dept. will order the same as per the measurements of the identified area, for prominent display of the above material.
- Students should be informed well in advance, of the requirement to submit a poster of the project.
- For the Governing Council report (April 2019), each dept. will submit a departmental report with the achievements, infrastructure additions, programmes organised, publications etc.
- For ICAC3 19, the core committee has been formed. Ground work for application to ACM, for publication of Conference Proceedings, is in process.
- Dr. Sapna enquired about the responsibilities of the newly constituted Institutional Brochure committee. Principal replied that in addition to the preparation of Prospectus for 2019, the committee will follow up and ensure the updation of website and also prepare institute promotional material, as required.
- Principal told Dr. Bilolikar to remove the event "We are the world" from Euphoria. Though the screening committee edits the same, the unedited version gets uploaded on YouTube.
- Dr. Bhushan Patil suggested measures to improve the rating of our college website. Good videos showing infrastructure, college events, video lectures by faculty etc. can be uploaded.

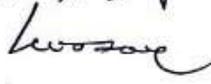
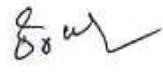
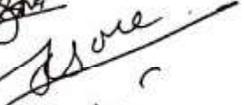
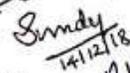
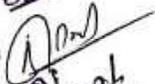
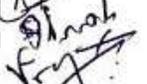
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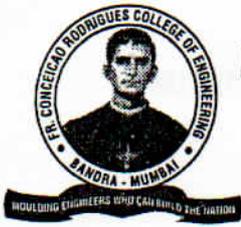
- Dr. Jorapur expressed the necessity of installing AC in Exam Cell, as parents visiting and waiting in the exam cell for Transcripts, Certificates, Marksheets etc., often complain. He also suggested that Exam Cell and Placement centre can be brought to the 1st floor, adjacent to College office.
- Members enquired about improvement of canteen facilities and Xerox centre, which students consider as their lifeline. Principal informed that the lobby area at the diploma entrance will be developed as additional canteen area. Xerox centre will soon be developed opposite the current canteen.

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


(Dr. SRIJA UNNIKISHNAN)
PRINCIPAL

Copy to:

1. Rev. Fr. Peter D'Souza, Local Superior – for information 
2. Rev. Fr. Valerian D'Souza, Director – for information 
3. Prof. D.S.S. Sudhakar 
4. Dr. S.K. Surve 
5. Dr. D.V. Bhoir 
6. Dr. Jagruti Save 
7. Ms. S. Prabavathy 
14/12/18
8. Mr. Mahesh Sharma 
9. Dr. V.S. Bilolikar 
10. Dr. Bhushan Patil 
11. Dr. Sapna Prabhu 
12. Dr. V.S. Jorapur 
13. Mr. C.B. Shetty 
14. Prof. Garima Tripathi 



SOCIETY OF ST. FRANCIS XAVIER, PILAR'S
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
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Ref.: CRCE/ 2021 / 098

Date : 3rd June 2021

39TH MEETING OF THE GOVERNING COUNCIL

Date and time of the Meeting : 5th June 2021, 11.00 AM

Mode : Online Zoom Meeting
(The Meeting link will be shared with you at the earliest)

AGENDA

S.No.	Item	Page No.
01	Confirmation of the Minutes of the 38 th Meeting held on 24 th April 2019	01 - 06
02	Discussion on the Action taken report on the minutes of the last meeting	07
03	Progress Report for the Academic Year 2019-20 & 2020-21 : a) Details of Admission and Enrollment : 2019-20 & 2020-21 b) Financial Assistance / Scholarships c) Results of University Examinations : May 2019 & May 2020 d) Placement details : 2019-20 & 2020-21 e) Co-curricular and Extra-Curricular activities / initiatives f) Minutes of the College Development Committee Meeting held on 3 rd December 2019 & 2 nd March 2021 g) Department Progress Reports h) Achievements	08 - 16 14 17 18 19 - 24 25 - 31 32 - 116 117 - 119
04	To consider and approve : a) Audited Account for the year ended 31.03.2019 & 31.03.2020. b) Budget for the year 2021-22	120 - 123 124 - 129
05	Approval of National Innovation and Start up Policy (NISP)	130 - 143
06	Any other matter with the permission of the Chair	


(DR. SRIJA UNNIKISHNAN)
PRINCIPAL




PRINCIPAL

**MINUTES OF THE 39TH MEETING (ONLINE) OF THE GOVERNING COUNCIL
HELD ON 5TH JUNE 2021 AT 11.00 A.M.
OF FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING**

Members Present:

1. Rev. Fr. Saturnino Almeida (In the Chair)
2. Rev. Fr. Peter D'Souza
3. Rev. Fr. Valerian D'Souza
4. Dr. P. A. Mahanwar Vice Chancellor's nominee
5. Dr. R. Sessa Iyer
6. Dr. S.M. Khot
7. Mr. P.N. Jumle
8. Mr. Pascal R. Lopes
9. Mr. George Menezes
10. Dr. Sunil K. Surve
11. Mr. Dileep C.C.
12. Dr. Srijia Unnikrishnan – Principal / Secretary

Chairman, Rev. Fr. S. Almeida, extended a hearty welcome to the members.

Rev. Fr. Peter D'Souza greeted members on the 'World Environment Day' and added that education should make students sensitive to ecology. He asked Principal to proceed with the agenda items.

Item No.1 : Confirmation of the Minutes of the 38th Meeting held on 24th April, 2019:

The minutes were mailed to the members, soon after the last meeting. Principal informed members that issues that needed follow up, are listed in Item No.2 i.e.: Action Taken Report.

The minutes of the meeting were approved.

Item No.2: Discussion on the action taken report on the minutes of the last meeting:

- Principal mentioned that closing marks of admitted students have improved after changes were made in the offered courses –Electronics and Computer Science in place of Electronics Engineering and Mechanical Engineering in place of Production Engineering.
- Since PG admissions were on the decline, we have closed M.E. in Electronics Engineering. We are continuing M.E. in Mechanical Engineering, to take care of continuity of Ph.D. affiliation.
- Regarding promotion of Internships, Principal said that even in the current situation, many students are pursuing online internships in reputed companies like TCS, UBS, Interactive Brokers, Carwale, Cognizant, Xoriant, Capgemni, Quantify, Accenture etc. Internship Expo is held every year where companies come to campus and students can approach companies of their interest for internships. This year, the expo was held online with participation from 15 companies.



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- Each department is developing one Centre of Excellence. Computer Engg. and IT in Machine Learning, Electronics and Computer Science in IOT and Mechanical Engg. in Robotics and Automation. MODROB grants will be used for the purchase of initial set ups.
- Principal mentioned that, through college, two firms - Bluestar and Stulz-CHSPL foundation is giving scholarship to students. Also, needy girl students are mentored and given graded financial support by NGO Katalyst.

Item No.3: Progress Report for the Academic Year 2019-20 & 2020-21:

a) Details of Admissions and Enrollment

- Principal explained the changes made in the UG Academic structure in the last two academic years. Two new courses were started – Mechanical Engg. in 2019-20 and Artificial Intelligence and Data Science in 2020-21. Electronics Engg. programme was changed to Electronics & Computer Science in 2019-20. Computer Engg. intake was increased to 120 from 60 in 2019-20, following the merger of Computer Engg. with IT. Production Engg. course was closed in 2020-21. From 2019-20, the UG intake is increased to 300 from 240. M. E. Electronics Engg. course is closed from 2019-20.

- Members noted that the closing marks of students admitted under CAP quota was high, across branches. Most of the first year vacant seats got filled in the next year Direct Second year admission. For Institute level seats, 554 and 738 candidates applied respectively in 2019-20 and 2020-21.

Following the trend across the country, only one seat each was filled in M.E. Mechanical Engg., in 2019-20 and 2020-21. There were no fresh Ph.D admissions in 2019-20 and 2020-21. Principal informed members that Ph.D admission process for the year 2021-22 has been initiated.

- Fee Regulatory Authority (FRA) had sanctioned increase in UG fees – Rs.1,46,500 (2019-20) and Rs. 1,50,000 (2020-21).

b) Financial Assistance / Scholarships:

In addition to Govt. and trust scholarships, in 2020-21, 23 students received industry sponsored scholarships, through college.

c) Results of University Examinations – May 2019 and May 2020

Principal presented the final year result analysis of May 2019 (offline exam) and May 2020 (online exam). Majority of the students had passed in First class with Distinction.

d) Placement details: 2019-20 & 2020-21

Placement statistics for 2019-20 & 2020-21 (till 31st May 2021) was presented. Principal added that the placement process for 2020-21 batch is in progress. As per the recruitment results from Browserstack received on 4th June, 4 students got selected with CTC of Rs.15.6 LPA. Another 5 companies are in the pipeline.



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Principal informed members that 3 students from the 2022 batch have already been placed.

Dr. Iyer suggested that in addition to maximum and minimum salary figures, median salary be also presented.

e) Extra Curricular and Co-curricular activities:

Gist of Technical, Sports, Cultural and Societal activities of the last two years was presented, highlighting major events. In 2020-21, the events were successfully held online, with wider participation from across the country.

f) Minutes of the College Development Committee Meetings held on 3rd December 2019 and on 2nd March 2021:

Principal apprised members that two CDC meetings were conducted after the last Governing Council meeting.

g) Department Progress Reports:

Department reports were presented, giving details of publications and NPTEL/Coursera certifications of faculty and students, FDPs and STTPs attended by faculty as well as Guest lectures, departmental activities and achievements.

Principal mentioned that to facilitate MOOC courses for faculty and students, college has taken Coursera Institutional membership and is an NPTEL nodal centre.

Counseling, Feedback and Appraisal:

Principal briefed members of the Counseling, Feedback and Appraisal mechanisms in place.

Dr. Khot suggested looking into 360degree feedback in view of 7th pay implementation.

Institute Innovation Council (IIC):

IIC-CRCE has been very active in 2019-20 and 2020-21, with focus on activities to create a vibrant local innovation ecosystem. In 2020-21, the chapter received 4.5 stars out of 5 for its annual performance, in the appraisal by MHRD.

h) Achievements 2019-20 and 2020-21

Principal presented the major achievements of the last two years – Extension of NBA accreditation till June 2023, NAAC accreditation, NIRF ranking among the top 300 Engineering institutes in the country, two first positions in Smart India Hackathon, rankings of project groups and individual faculty and student achievements.

Item No.4 : To consider and approve:

- i) Audited Accounts for the year ended 31-3-2019 & 31-3-2020
- ii) Budget for the year 2021-22

Principal requested Ms. Christina Simon, Finance officer, Fr. Agnel Complex, Bandra, to present the audited accounts of last two years and the proposed



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budget for 2021-22. She briefed members of the major heads of income and expenditure. For 2021-22, Rs. 4 lakhs has been earmarked for IIC activities and implementation of New Education Policy. Dr. Iyer suggested inclusion of Revised budget (as of in December).

	Budget Estimates 2021-22 (Rs. in lakhs)
Revenue Income	2,020.00
Revenue Expenditure	2,108.74
Capital Expenditure	120.00

Item No.5: Approval of National Innovation and Start up Policy (NISP)

Principal invited Prof. Swati Ringe, NISP coordinator, to present the proposed NISP policy. She presented the recommended guiding framework for faculty and students. Dr. Mahanwar suggested extending laboratory facilities of the institute to start-ups, on chargeable basis. Prof. Swati said that she will include the same in the policy. Members approved the proposed NISP policy.

Item No.6: Any other matter with the permission of the Chair

Dr. Iyer enquired about eligibility for further NBA accreditation, since most of the courses are new. Principal replied that only Computer Engineering. will be eligible to apply for the same.

Principal mentioned that it is a matter of pride for CRCE that 1995 Computer Engineering. batch Alumni, Ms. Shareen Krasta Kitterman, recently became US Diplomat. A small video of Ms. Shareen, explaining her journey from her humble background to this position was played. Since the audio was not clear, Principal promised to share the same on mail to all members.

There were no other items for discussion.

Fr. Valerian made the concluding remarks and expressed gratitude to the members for their active participation and valuable inputs.

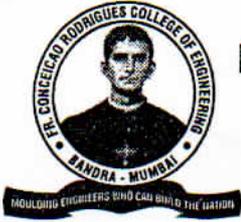
The meeting ended with Vote of Thanks to the Chairman and the members.


PRINCIPAL / SECRETARY


CHAIRMAN




PRINCIPAL



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, 6711 4101, 6711 4104 • Fax : 6711 4100

Website : www.frcrce.ac.in • Email : crce@fragnel.edu.in

Ref.: CRCE/ 2021 / 027

Date : February 12, 2021.

NOTICE

An online meeting of the College Development Committee is scheduled to be held on 2nd March 2021 at 2.30 p.m. to discuss the following matters.

Item No.	Agenda
1.	Approval of the minutes of the Local Management Committee meeting held on 3 rd December, 2019
2.	Academic Calendar for the current Semester
3.	Admission Details 2020-21
4.	Review of University Examinations Results – May 2020
5.	Achievements 2019-20 & 2020-21
6.	Extra-curricular and Co-curricular activities
7.	Staff Development 2019-20, 2020-21
5.	Placement details 2019-20, 2020-21
6.	Budget Estimates for the year 2021-22
7.	Any other items with the prior permission of the Chair.

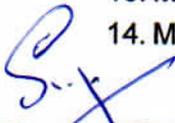
Any other items falling within the functions of the College Development Committee to be raised in the meeting should reach the undersigned at least two days before the meeting to be forwarded to the Chairperson. Only such items can be taken up for discussion.

The link for the meeting will be shared by 1st March 2021.


(DR. SRIJA UNNIKRIISHNAN)
PRINCIPAL

- Copy to:
1. Fr. Saturnino Almeida - Chairman
 2. Fr. Valerian D'Souza - Director, Fr. CRCE, Bandra / Secretary of the Management
 3. Dr. Sapna Prabhu - HOD, Nominated by the Principal (31.10.2022)
 4. Ms. S. Prabavathy - Representative of the Teachers (30.09.2021)
 5. Dr. Sunil Surve - Representative of the Teachers (31.10.2022)
 6. Ms. Garima Tripathi - Representative of the Teachers (31.10.2022)
 7. Mr. Xavier D'Souza - Representative of the Non-Teaching staff (31.10.2022)
 8. Dr. Shubha Pandit - Local member from field of Education (31.10.2022)
 9. Mr. James Maslamani - Local member from field of Industry (31.10.2022)
 10. Dr. Kushal Tuckley - Local member from field of Research (31.10.2022)
 11. Fr. Joe Pereira - Local member from field of Social Service (31.10.2022)
 12. Dr. Bhushan Patil - Co-ordinator, Internal Quality Assurance Committee (31.10.22)
 13. Mr. Kevin Ruffin - President of College Students Council (30.6.2021)
 14. Mr. Ninad Shetty - Secretary of College Students Council (30.6.2021)




PRINCIPAL

**MINUTES OF THE ONLINE MEETING OF THE
COLLEGE DEVELOPMENT COMMITTEE OF
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
HELD ON 2ND MARCH 2021 AT 02:30 PM**

.....

The following members were present:

1. Fr. Peter D'Souza (in the Chair)
2. Fr. Valerian D'Souza
3. Fr. Eleuterio Fernandes
4. Fr. Joe Pereira
5. Mr. James Maslamani
6. Dr. Kushal Tuckley
7. Dr. Shubha Pandit
8. Dr. Sapna Prabhu
9. Dr. Sunil Surve
10. Dr. Bhushan Patil
11. Ms. Sundry Prabhavathy
12. Ms. Garima Tripathi
13. Mr. Xavier D'Souza
14. Mr. Kevin Ruffin
15. Mr. Ninad Shetty
16. Dr. Srija Unnikrishnan – Member Secretary

Fr. Saturnino Almeida was unable to attend the meeting. In his absence, Fr. Peter D'Souza presided over the meeting. He greeted and welcomed all members to the meeting.

The meeting started with one minute silent prayer. Fr. Peter called upon the Principal to start the meeting by reading the minutes of the last meeting for approval by the committee.

Item No.1 : Approval of the minutes of the College Development Committee meeting held on 3rd December 2019:

Principal read out the minutes of the last College Development Committee meeting held on 3rd December 2019.

The minutes were approved by the members.

Item No.2 : Academic Calendar for the current semester:

Principal presented the Term arrangement for First year, Direct Second Year and the running even semester - IV, VI and VIII. Unit Test dates were also indicated.

She explained that since first year admissions were delayed due to the pandemic conditions, 1st and 2nd semester term period has been compressed. As per guidelines from University, one extra hour, than that prescribed in the syllabus, has been allotted for each subject in the time table, for coverage of the full syllabus. However, the end semester examination will be based only on the first five modules. Induction programme sessions have been started for first year. Semester III for Direct second year students, is being conducted in the evening on regular working days and full day on Saturdays. The syllabus for the same, except Applied Mathematics, has been compressed (by University) based on the coverage in Diploma course. These students are attending Semester IV along with the regular students.

.. 2/-



S.P.
PRINCIPAL

The next academic year is scheduled to start from 12th July 2021 for third and final years and from 23rd August 2021 for second year.

Principal mentioned that online classes are going on smoothly. Practicals are held through coding sessions, virtual labs and video recordings of experiments. Dr. Kushal Tuckley remarked that good videos of some experiments are available online.

Academic calendar, showing co-curricular and extra-curricular schedules, has not been prepared, as the feasibility of holding these events on campus, following COVID protocols, is being explored, based on Govt. orders. National level Debate, Hackathon as well as FDPs, Workshops and Seminars were held online in the last semester. Also, the annual TEDx CRCE talk series was held online on 7th November 2020, with six esteemed speakers - Mr. D. R. Kartikeyan, former Director of CBI, being one of them. The major events for this semester are:

1. Alumni meet (online) - 13th February 2021
2. Women's Day celebration - 12th March 2021
3. Inter-collegiate online technical festival CRESCENDO - 13th - 21st March 2021
4. 'Heart and Sole' marathon (virtual) by Rotract club, CRCE - 13th - 14th March 2021
5. Convocation (in batches) - 17th - 20th March 2021
6. FDPs, Webinars, Workshops, Career / Placement Guidance sessions

Item No.3 : Details of Admissions 2020-21:

Principal briefed members about the changes made in the Academic structure in the academic year 2020-21.

- i. New course of B.E. Mechanical Engineering with intake of 60.
- ii. Closure of B.E. Production Engineering course with intake 60.

Principal informed members that except few seats in Mechanical Engineering, seats of all other UG courses were filled. Also, fee proposal for the Academic year 2021-22 has been submitted to FRA for approval.

Item No.4 : Review of University Examination Results - May 2020:

Members reviewed the final year results of all UG courses. Principal commented that examinations were held online and the pass percentage is 100 across branches.

Item No.5 : Achievements 2019-20 & 2020-21:

Principal presented the major achievements of the institute in 2019-20 and 2020-21 (till December 2020), including the progress and rankings of the various project teams, participating in national and international level competitions.

Item No.6 : Extra-curricular and Co-curricular activities:

Principal apprised members of the Co-curricular and Extra-curricular events organized by the Departments, Student council and Student chapters in 2019-20 and 2020-21 till date. In 2020-21, the format of the events were evolved to suit online mode of conduction.

The Institution Innovation Council (IIC) has been very active, organizing innovation and entrepreneurship oriented events.



S. J.
PRINCIPAL

.. 3/-

Item No.7 : Staff Development 2019-20, 2020-21:

Members went through the list of training programmes, FDPs, courses, workshops, conferences and seminars attended by the staff from April 2019 to February 2021. During lockdown, many faculty completed NPTEL, Coursera and other MOOC courses.

Item No.8 : Placement details 2019-20 & 2020-21:

Members were happy to note the good placement figures in 2020-21, in spite of the pandemic situation. They appreciated the efforts of the placement team in tapping available opportunities.

Item No.9 : Budget Estimates for the year 2021-22:

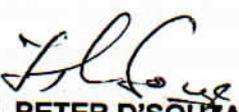
Members reviewed and approved the budget estimates for the year 2021-22.

Item No.10 : Any other item with the permission of the Chair:

- o Mr. Kevin, President of the college Student council, mentioned that online classes are going on smoothly, with students having the option of viewing recorded lectures for better understanding of the topics.
- o Mr. Kevin said that the Student council is grateful to the support from the management and college for the successful conduct of online events like debate - CRMD, release of annual college magazine Fragma, technical festival etc. The council asked the members' opinion in organizing few events on campus, for the benefit of the passing out batch.
Mr. James opined that in the current situation with the number of Corona cases on the rise, it is advisable to put safety first. Fr. Valerian said that decision on the same can be taken after few weeks, based on Govt. directives.
- o Mr. Kevin said that that some parents are facing financial difficulties and need help to pay fees. He suggested pooling resources from well placed parents and alumni to aid students in dire need. Principal said that if Student council can take the initiative in the same, college would lend full support. Dr. Sapna Prabhu added that she would be happy to facilitate connecting with alumni.
- o Fr. Joe Pereira said that his NGO is currently helping people suffering from the aftereffects of lockdown and also conducting de-addiction programs. Significant recoveries have been recorded from the subjects of these programs. He suggested forming groups to reach out to victims of addiction in colleges. Fr. Joe recommended following yoga protocols for upkeep of mental health.
Dr. Subha Pandit corroborated with Fr. Joe on taking the issue of substance addiction among youth very seriously.

The meeting ended with Vote of Thanks to the Chairman and the members.


(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL


(FR. PETER D'SOUZA)
CHAIRMAN OF THE MEETING




PRINCIPAL

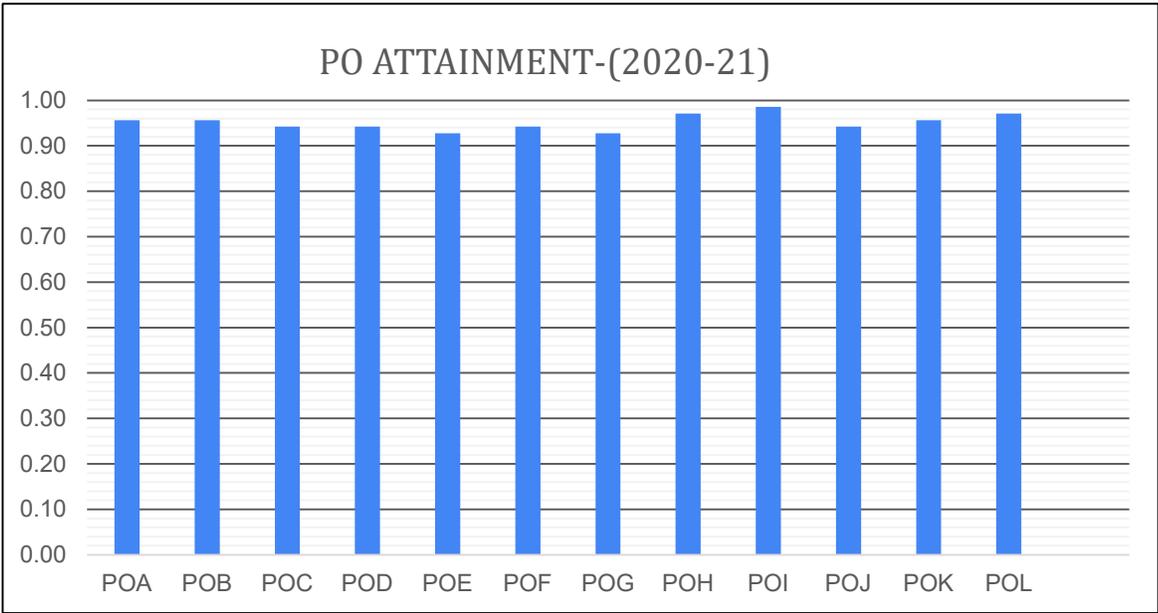
DEPARTMENT OF COMPUTER ENGINEERING

GRADUATE EXIT SURVEY - 2020-2021

	Not At All	2	Mode rately	4	Extre mely	Above Thres hold	Total Answ red	PO Attain ment	Level Attain ment
1.Do you feel you have acquired enough engineering knowledge to enable you to in an industry.	1	2	21	29	16	66	69	0.96	3
2. Do you think the program is affective in developing analytical and problem solving skills.	0	3	19	29	18	66	69	0.96	3
3.Have you acquired the potential to independently develop a solution for practical problem in discipline.	1	3	15	32	18	65	69	0.94	3
4.Are you in a position to solve a complex problem in your domain.	1	3	18	30	17	65	69	0.94	3
5.Have you used any modern tool / technology beyond curriculum (Projects, Seminars, in plant training, internships).	0	5	16	20	28	64	69	0.93	3
6.Are you in apposition to fulfill your social responsible as an engineer (like problems of community, water distribution, air pollution, computer literacy)	1	3	14	30	21	65	69	0.94	3
7.Are you able to develop a product / system which is environment friendly and green.	1	4	24	22	18	64	69	0.93	3
8.Are you aware of ethical valves required for your profession.	0	2	18	21	28	67	69	0.97	3
9.Are you comfortable working as a part of your project team.	0	1	13	26	29	68	69	0.99	3
10.How strong you are in your oral communication?	1	3	14	25	26	65	69	0.94	3
11.Are you able to work as a member and leader in a team, to manage projects and in multidisciplinary environments.	0	3	17	27	22	66	69	0.96	3
12.Are you eager to learn new technologies and explore new opportunities?	1	1	11	16	40	67	69	0.97	3
PSO									
PSO1:Are you self sufficient in applying fundamental computer science knowledge to address real world challenges/opportunities.	10	0	29	30	0	59	69	0.86	3
PSO2: Do you Design and implement computing systems of varying complexity in multidisciplinary scenarios that meet specified requirements with appropriate consideration relating to the following aspects: Architecture,Algorithm,Security	22	13	13	0	21	34	69	0.49	1

PO	PO ATTAINMENT
POA	0.96
POB	0.96
POC	0.94
POD	0.94
POE	0.93
POF	0.94
POG	0.93
POH	0.97
POI	0.99
POJ	0.94
POK	0.96
POL	0.97

TARGET LEVEL ATTAINMENT			
Graduate Exit Survey	low(1)	moderate(2)	Substantial(3)
	>41 to <60	61-75	>75



FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

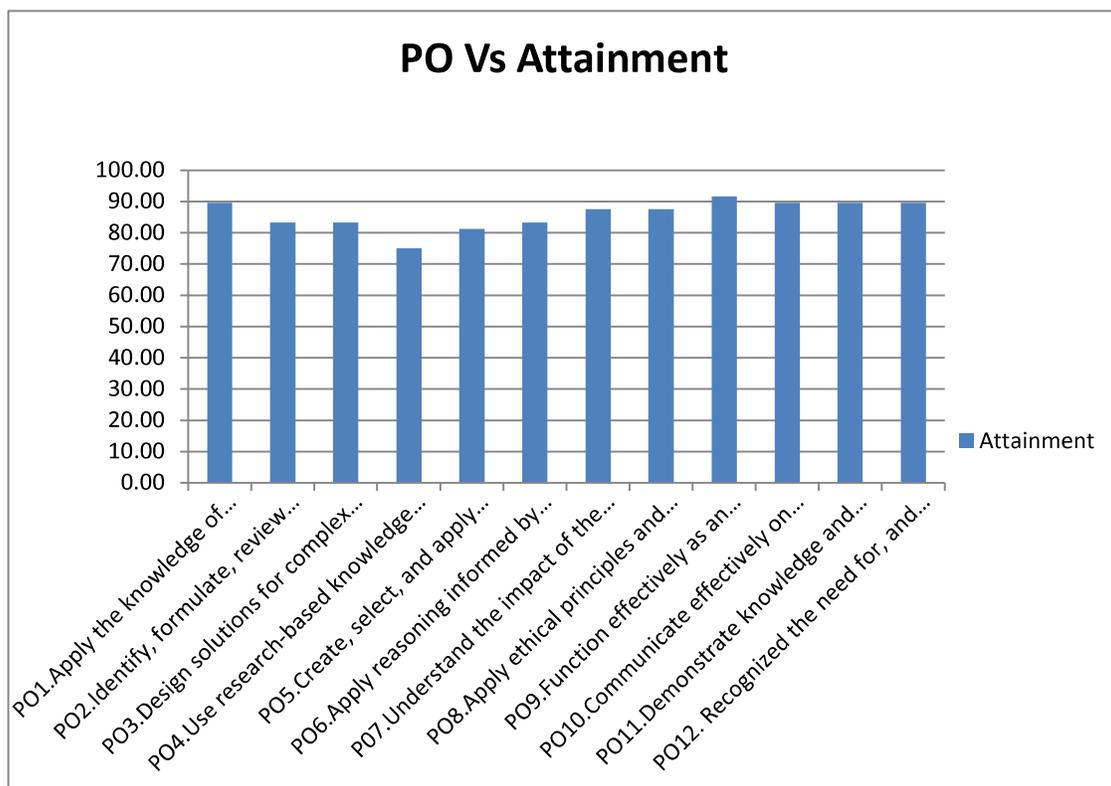
FR. AGNEL ASHRAM, BANDSTAND, BANDRA (W), MUMBAI,

Department of Information Technology

(Alumni Survey 2020-21)

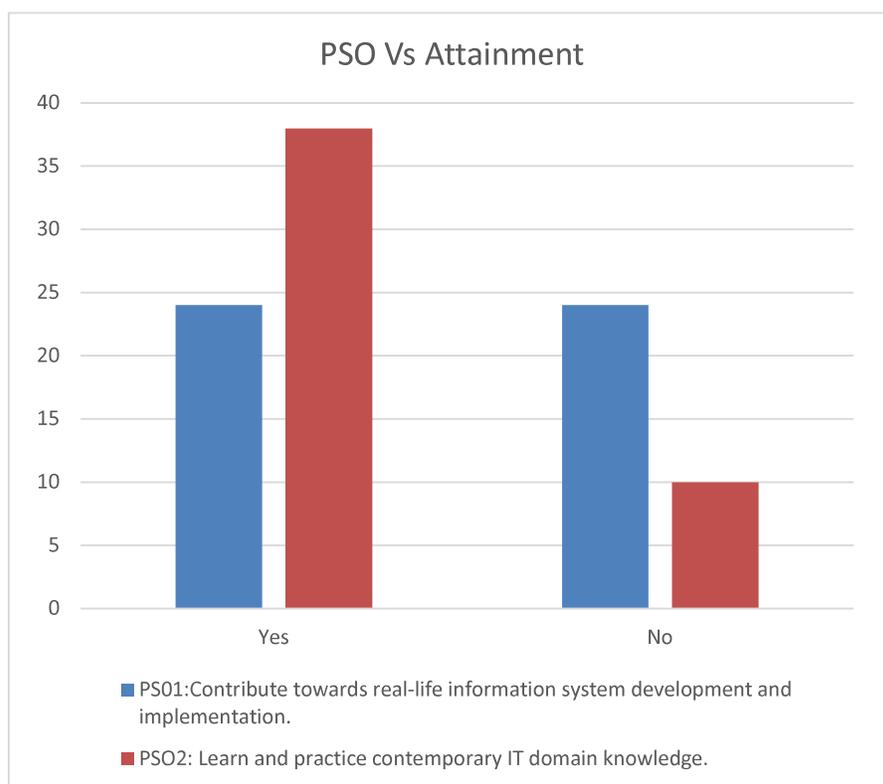
PO	Fully	Mostly	Somewhat	Not at all	Total Participants	% Response (for Fully)	% Response (for Mostly)	% Response (for Somewhat)	% Response (for Not At all)	Attainment
PO1.Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	8	20	15	5	48	16.67	41.67	31.25	10.42	89.58
PO2.Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	9	16	15	8	48	18.75	33.33	31.25	16.67	83.33
PO3.Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations	9	16	15	8	48	18.75	33.33	31.25	16.67	83.33
PO4.Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions	8	15	13	12	48	16.67	31.25	27.08	25.00	75.00
PO5.Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling of complex engineering activities with an understanding of the limitations	7	19	13	9	48	14.58	39.58	27.08	18.75	81.25
PO6.Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	10	17	13	8	48	20.83	35.42	27.08	16.67	83.33
P07.Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of,	5	20	17	6	48	10.42	41.67	35.42	12.50	87.50

and the need for sustainable development											
PO8.Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	13	20	9	6	48	27.08	41.67	18.75	12.50	87.50	
PO9.Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	21	15	8	4	48	43.75	31.25	16.67	8.33	91.67	
PO10.Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions	16	18	9	5	48	33.33	37.50	18.75	10.42	89.58	
PO11.Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments	13	20	10	5	48	27.08	41.67	20.83	10.42	89.58	
PO12. Recognized the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	22	16	5	5	48	45.83	33.33	10.42	10.42	89.58	



Alumni Survey(PSO Analysis)

PSO	Yes	No	Total Participants	%responses for Yes	%responses for No
PSO1:Contribute towards real-life information system development and implementation.	24	24	48	50.00	50.00
PSO2: Learn and practice contemporary IT domain knowledge.	38	10	48	79.17	20.83



End Semester Student Feedback [Jan - June 2021]	
Branch	Production Engineering
Semester	Sem-IV
Subject	MOULD AND METAL FORMING
Name of the Teacher	Dipali Bhise
No. of respondents	17
The Lectures Were Delivered With Authority And Excellent Communication Skill.	4.29
The Subject Was Covered With Apt Depth And Breadth.	4.53
The Real Life Problems And Applications Have Been Presented To Provide The Right Balance Between Theory And Practice.	4.59
The Teacher Effectively Used The Lecture Time.	4.41
The Teacher Has Good Ability To Hold Attention.	4.47
The Lectures Have Been Aimed At Encouraging Independent Thinking And The Ability To Apply Logical Reasoning.	4.35
The Teacher Is Punctual And Has Taken Sufficient Classes To Cover The Complete Syllabus.	4.59
The Teacher Has Been Unbiased In Assessment Of Student Performance And Term-Work.	4.47
Evaluated Term-Work, Assignments, Seminars Provided me a Prompt And Constructive Feedback.	4.47
The Teacher Has Provided Student Counseling Guidance Beyond Academic Requirement.	4.12
In My Opinion, The Overall Rating Of The Teacher Is Good.	4.47
Remarks:	
200	
220	

Fr. Conceicao Rodrigues College of Engineering
 Department of Information Technology
 Academic Audit – June 2018

Name of the Faculty: GARIMA TRIPATHI

Semester: VIII

Courses Taught: STORAGE NETWORK MANAGEMENT & RETRIEVAL

Sr.No.	Parameters to be verified	Very Good (5) Good (4) Adequate (3) Needs Improvement (1)	Remark
1	Lesson Plan	4	
2	Text and References	4	
3	Content Quality and depth	4	
4	Delivery Mechanism Teaching Methods used PPT, chalk, any other	4	
5	Content Beyond Syllabus	3	Arrange under lessons
6	Mechanism for Engaging Lab, New experiments added, Quality of Lab Manual	4	
7	Quality of Question Paper	4	
8	Rubrics Created 7.1 Lab 7.2 Test 7.3 Assignment 7.4 Quiz 7.5 Seminar/Presentation 7.6 Any other	4	Give more exposure out of syllabus or advanced topic
9	Mapping CO with PO	4	
10	Knowledge of Tools used in Labs	4	
11	Students' Performance evaluation methods analysis of assessment results and corrective measures.	4	
12	Method adopted for underperforming students	3	
13	Help provided to students w.r.t career/skill development	3	
14	How do you facilitate working collaboratively with your colleagues?	4	Interdisciplinary collaboration with co-teacher
15	Project Control	4	

Audit done by: Dr. Jyoti Joglekar

Sign: [Signature]
 27-06-2018

Date:

Graduate Exit Survey and Alumni Survey

Contents

Sr.No	Topics	Page.No
1	Graduate Exit Survey Sample	3
2	Alumni Survey Sample	7

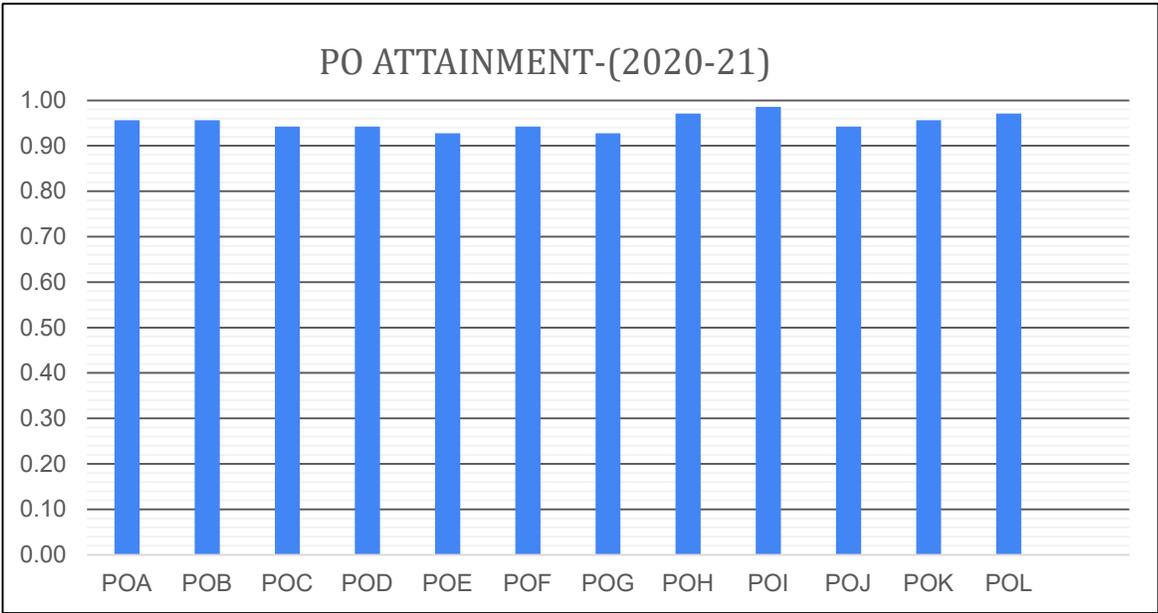
DEPARTMENT OF COMPUTER ENGINEERING

GRADUATE EXIT SURVEY - 2020-2021

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8.Are you aware of ethical valves required for your profession.	0	2	18	21	28	67	69	0.97	3
9.Are you comfortable working as a part of your project team.	0	1	13	26	29	68	69	0.99	3
10.How strong you are in your oral communication?	1	3	14	25	26	65	69	0.94	3
11.Are you able to work as a member and leader in a team, to manage projects and in multidisciplinary environments.	0	3	17	27	22	66	69	0.96	3
12.Are you eager to learn new technologies and explore new opportunities?	1	1	11	16	40	67	69	0.97	3
PSO									
PSO1:Are you self sufficient in applying fundamental computer science knowledge to address real world challenges/opportunities.	10	0	29	30	0	59	69	0.86	3
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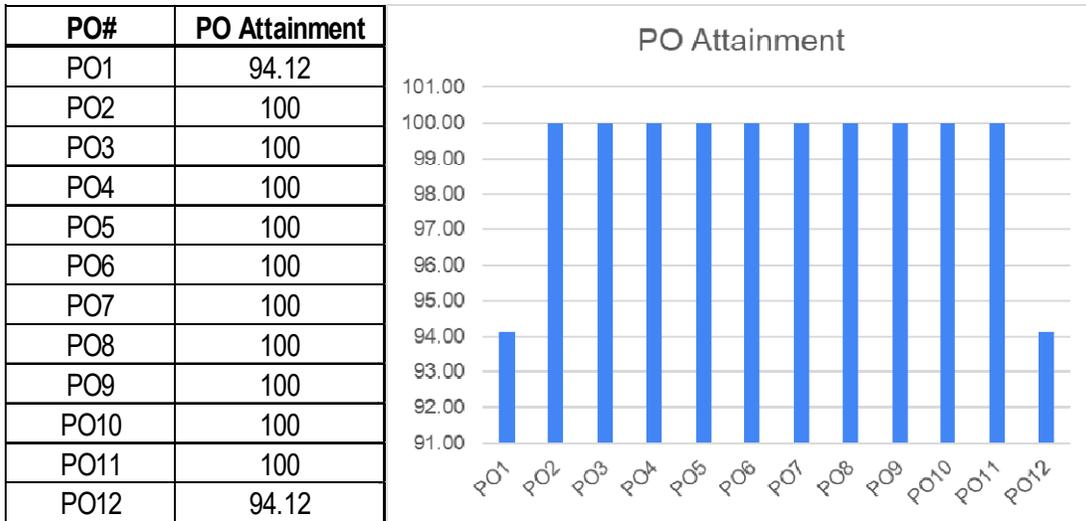
PO	PO ATTAINMENT
POA	0.96
POB	0.96
POC	0.94
POD	0.94
POE	0.93
POF	0.94
POG	0.93
POH	0.97
POI	0.99
POJ	0.94
POK	0.96
POL	0.97

TARGET LEVEL ATTAINMENT			
Graduate Exit Survey	low(1)	moderate(2)	Substantial(3)
	>41 to <60	61-75	>75



Graduate Exit Survey _Production& Mechanical Engineering 2020-21

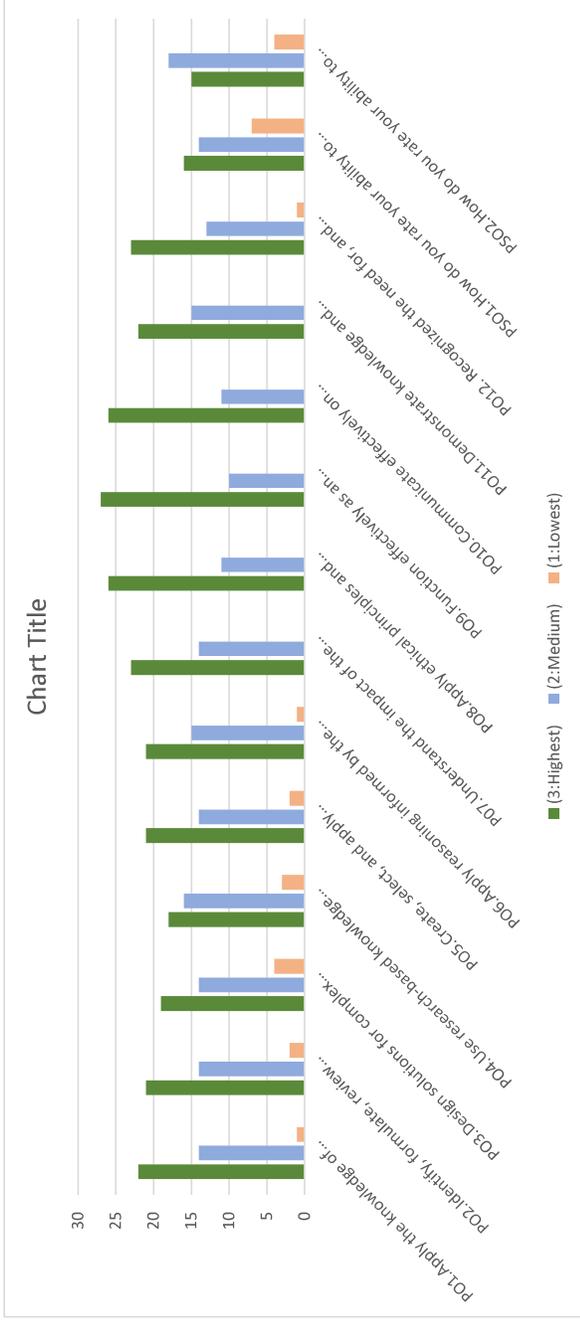
PO#	Graduate Attributes	To very high extent	To reasonably high extent	To reasonable extent	To limited extent	To some extent	Total Responses	Number of responses above target	Percentage of Responses above target	PO Attainment (on 3 point Scale)
PO1	I can apply principles of Science and Mathematics to solve problems in production engineering domain	7	7	2	1	0	17	16	94.12	3
PO2	I can sufficiently contribute to identify, formulate and solve engineering problems in Industry	6	8	3	0	0	17	17	100	3
PO3	I can sufficiently contribute to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.	7	8	2	0	0	17	17	100	3
PO4	I can design and conduct experiments, as well as analyze and interpret data	6	9	2	0	0	17	17	100	3
PO5	I can effectively use techniques, skills, and modern engineering tools necessary for engineering practice	8	8	1	0	0	17	17	100	3
PO6	I can understand the impact of engineering solutions in a global, economic, environmental and societal context	6	9	2	0	0	17	17	100	3
PO7	This course provided ability to participate in technical and professional societies for professional growth	6	8	3	0	0	17	17	100	3
PO8	I will follow professional and ethical responsibilities	8	9	0	0	0	17	17	100	3
PO9	This course helped me to function on multi-disciplinary teams	8	6	3	0	0	17	17	100	3
PO10	I can communicate effectively by oral presentations and prepare documents/Technical reports	7	10	0	0	0	17	17	100	3
PO11	I am confident to apply principles of management, Finance and Economics to my own work and as a leader in a team.	7	7	3	0	0	17	17	100	3
PO12	I recognize the need for life-long learning and pursuing higher studies.	6	9	1	1	0	17	16	94.12	3
PSO1	I can sufficiently contribute to identify, formulate and solve engineering problems in Industry And I can design and conduct experiments, as well as analyze and interpret data	7	8	2	0	0	17	15	88.24	3
PSO2	I can effectively use techniques, skills, and modern engineering tools necessary for engineering practice And This program helped me to use modern tools effectively in order to solve real life manufacturing problems	7	8	1	1	0	17	15	88.24	3



Target level Attainment			
	low(1)	Moderate(2)	Substantial(3)
Graduate Exit Survey	60- 70	70-80	80 above

ELECTRONICS DEPARTMENT - ALUMNI Survey - 2020-2021

Topic: How do you rate your ability to:	(3: Highest)	(2: Medium)	(1: Lowest)	No. Of Participants	% Response for 3 Highest	%Response for 2 Medium	% Response for 1 Lowest	% Attainment
PO1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	22	14	1	37	59.45945946	37.83783784	2.702702703	97.2972973
PO2. Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of engineering solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations	21	14	2	37	56.75675676	37.83783784	5.405405405	94.59459459
PO4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions	19	14	4	37	51.35135135	37.83783784	10.81081081	89.18918919
PO5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling of complex engineering activities with an understanding of the limitations	18	16	3	37	48.64864865	43.24324324	8.108108108	91.89189189
PO6. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	21	14	2	37	56.75675676	37.83783784	5.405405405	94.59459459
PO7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development	21	15	1	37	56.75675676	40.54054054	2.702702703	97.2972973
PO8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	23	14	0	37	62.16216216	37.83783784	0	100
PO9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	26	11	0	37	70.27027027	29.72972973	0	100
PO10. Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions	27	10	0	37	72.97297297	27.02702703	0	100
PO11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments	26	11	0	37	70.27027027	29.72972973	0	100
PO12. Recognized the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	22	15	0	37	59.45945946	40.54054054	0	100
PSO1. How do you rate your ability to provide optimal solutions for real-life problems based on the knowledge acquired in the field of Automation, Embedded Electronic Systems.	16	14	7	37	43.24324324	37.83783784	18.91891892	81.08108108
PSO2. How do you rate your ability to test and debug hardware and software for Electronic Systems.	15	18	4	37	40.54054054	48.64864865	10.81081081	89.18918919



PO	Attainment
PO1	97.297297
PO2	94.594595
PO3	89.189189
PO4	91.891892
PO5	94.594595
PO6	97.297297
PO7	100
PO8	100
PO9	100
PO10	100
PO11	100
PO12	97.297297
PSO1	81.081081
PSO2	89.189189

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

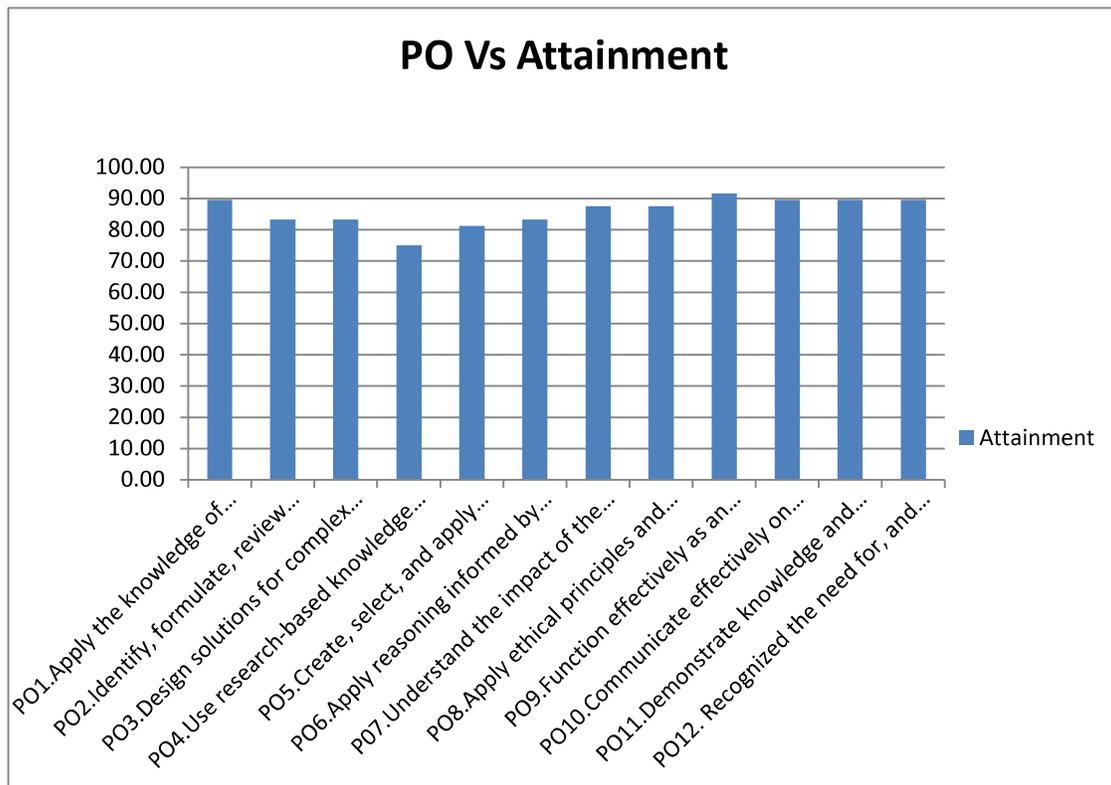
FR. AGNEL ASHRAM, BANDSTAND, BANDRA (W), MUMBAI,

Department of Information Technology

(Alumni Survey 2020-21)

PO	Fully	Mostly	Somewhat	Not at all	Total Participants	% Response (for Fully)	% Response (for Mostly)	% Response (for Somewhat)	% Response (for Not At all)	Attainment
PO1.Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	8	20	15	5	48	16.67	41.67	31.25	10.42	89.58
PO2.Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	9	16	15	8	48	18.75	33.33	31.25	16.67	83.33
PO3.Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations	9	16	15	8	48	18.75	33.33	31.25	16.67	83.33
PO4.Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions	8	15	13	12	48	16.67	31.25	27.08	25.00	75.00
PO5.Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling of complex engineering activities with an understanding of the limitations	7	19	13	9	48	14.58	39.58	27.08	18.75	81.25
PO6.Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	10	17	13	8	48	20.83	35.42	27.08	16.67	83.33
P07.Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of,	5	20	17	6	48	10.42	41.67	35.42	12.50	87.50

and the need for sustainable development											
PO8.Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	13	20	9	6	48	27.08	41.67	18.75	12.50	87.50	
PO9.Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	21	15	8	4	48	43.75	31.25	16.67	8.33	91.67	
PO10.Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions	16	18	9	5	48	33.33	37.50	18.75	10.42	89.58	
PO11.Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments	13	20	10	5	48	27.08	41.67	20.83	10.42	89.58	
PO12. Recognized the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	22	16	5	5	48	45.83	33.33	10.42	10.42	89.58	



Alumni Survey(PSO Analysis)

PSO	Yes	No	Total Participants	%responses for Yes	%responses for No
PSO1:Contribute towards real-life information system development and implementation.	24	24	48	50.00	50.00
PSO2: Learn and practice contemporary IT domain knowledge.	38	10	48	79.17	20.83

