

# Yearly Status Report - 2019-2020

Ρ	Part A			
Data of the Institution				
1. Name of the Institution	FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING			
Name of the head of the Institution	Dr. Srija Unnikrishnan			
Designation	Principal			
Does the Institution function from own campus	Yes			
Phone no/Alternate Phone no.	+912267114101			
Mobile no.	9869005457			
Registered Email	srija@frcrce.ac.in			
Alternate Email	crce@frcrce.ac.in			
Address	Fr. Agnel Ashram, Bandstand, Bandra (West)			
City/Town	Mumbai			
State/UT	Maharashtra			
Pincode	400050			

2	. Institutional Sta	tus				
ŀ	Affiliated / Constitue	nt		Affiliated		
٦	ype of Institution			Co-education		
L	Location Financial Status			Urban		
F				Self finance	d	
Name of the IQAC co-ordinator/Director Phone no/Alternate Phone no. Mobile no.			Dr. Sunil Su	rve		
			+91226711431	3		
			9167635546			
F	Registered Email			surve@fragne	l.edu.in	
ŀ	Alternate Email			crce@frcrce.	ac.in	
3	. Website Addres	S		I		
Web-link of the AQAR: (Previous Academic Year)			<u>http://frcrce.ac.in/index.php/academics/naac/naac-19-20/category/97-extended-profiles1920?download=600:parta-3-previousagar</u>			
	. Whether Acader ne year	nic Calendar pre	pared during	Yes		
	f yes,whether it is u /eblink :	ploaded in the insti	tutional website:	http://www.frcrce.ac.in/index.php/acade mics/academic-calendar		
5	. Accrediation De	tails				
	Cycle	Grade	CGPA	Year of	Vali	dity
				Accrediation	Period From	Period To
	1	B++	2.9	2019	11-Mar-2020	10-Mar-2025
6	. Date of Establis	hment of IQAC		10-Jan-2017		
7	. Internal Quality	Assurance Syste	m			
		Quality initiatives	s by IQAC durina t	he year for promotir	ng quality culture	
Quality initiatives by IQAC during the year for promoting quality culture         Item /Title of the quality initiative by       Date & Duration       Number of participants/ beneficiaries						

IQAC		
IPR & IP Management for Innovation and Start-ups	23-Jan-2020 1	156
Idea validation, Business Opportunity Identification and Business Model Development	05-Aug-2020 1	50
IIC-National Innovation contest	06-Jun-2020 15	85
Women in Entrepreneurship	12-Apr-2020 1	75
Internship Expo 2020	29-Feb-2020 1	80
Idea Competition	22-Jan-2020 1	150
Advanced Deep Learning Workshop	15-Dec-2019 5	55
	<u>View File</u>	

# 8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Departmen t/Faculty	Scheme	Funding Agency	Year of award with duration	Amount			
Fr. CRCE	AICTE quality improvement scheme	AICTE	2020 2	248300			
<u>View File</u>							

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	<u>View File</u>
10. Number of IQAC meetings held during the year :	1
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<u>View File</u>
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Project Based Learning

Research Publication by students

## <u>View File</u>

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

	A chinements (O transmission
Plan of Action	Achivements/Outcomes
Promoting research culture among students	In academic year 2019-20, 43 papers published by the students
Promoting Innovation, entrepreneurship:	24 Project teams to participate in Innovation Challenge Design Contest (IICDC) project competition
View	<u>w File</u>
14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	21-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Currently, part of MIS is implemented. Following modules are implemented: Staff Personal Information: Staff members can view leave records, attendance, salary slips, etc. They can update their personal information like publications, achievements, etc. Student database: Students data can be updated by office staff. The classwise list can be downloaded by teachers. Examination Module: Faculty can update student attendance, unit test marks,

Part B

### **CRITERION I – CURRICULAR ASPECTS**

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Fr. Conceicao Rodrigues College of Engineering (FR.CRCE) faculty members contribute in framing the syllabus as members/coordinators of Board of Studies (BOS) and syllabus revision committees. 1. Executive Committee (EC) approves the Institute Academic Calendar prepared on the basis of the University Academic Calendar, at the beginning of the semester. This calendar includes semester wise schedule for Institute-level Curricular, Co-curricular and extracurricular activities. 2. Departmental Academic Calendar is prepared by adding timeline and schedule for department-level activities and events like Lesson Plan Submission, final year project evaluation, Faculty Development Programs(FDPs), Industrial Visits, PAC meetings, DAB meeting. 3. Program Assessment Committee (PAC) at department level plans and monitors academic activities for effective curriculum delivery. 4. Faculty prepares Lesson Plan consisting of Course Outcomes (COs), CO-PO-PSO Mappings, Targets, Tools used for attainment, Curriculum Gaps, Content beyond Syllabus and detailed Lecture Plan/Lab Plan. PAC reviews the lesson plans. The Plans are discussed in the class and uploaded on the website for reference. 5. Regular classroom teaching is supplemented with Guest Lectures, Seminars, Assignments, Quizzes, Tutorials, Case Studies, hands-on-sessions, Mini projects, Industry visits, Internships, Online resources, NPTEL lectures. Learning Management System (MOODLE) is used by faculty and students. 6. Class teachers and HODs monitor regular academic activities. 7. All faculty members conduct course exit survey and calculate CO attainment for their subjects. Remedial actions are taken as required. 8. Internal Assessment tests are conducted, and mid-term academic progress report with attendance is conveyed to the parents. Advanced and slow learners are identified, and necessary actions are taken wherever applicable. 9. Periodic Final Year Project evaluation is organized by the Project Coordinator for continuous assessment of the project work. 10. Term work assessment is done based on continuous evaluation of student performance in laboratory/tutorials and assignments. 11. End Semester examinations are conducted by the University. 12. Mid-term and End-term feedback is collected from students. Mid-term feedback is taken by the HODs from approximately 20 percent randomly selected students. End-term feedback is collected online based on the parameters like depth and breadth of syllabus covered, how well the subject delivered, effective time utilization of time during the lecture, real-life examples used, etc. 13. Academic audit is conducted every academic year to evaluate curriculum delivery on parameters like course plan, teaching and learning methods, evaluation rubrics, lab experiments, attainment tools, CO Attainment. 14. Departmental Advisory Board (DAB) evaluates the department's performance and recommends steps for curriculum enhancement and infrastructure improvement. 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
NIL	NIL	27/09/2021	0	NIL	NIL

.1 - New programmes/courses intro	duced during the academic year	
Programme/Course	Programme Specialization	Dates of Introduction
BE	Information Technology	01/07/2019
BE	Computer Engineering	01/07/2019
BE	Electronics Engineering	01/07/2019
BE	Production Engineering	01/07/2019
BE	First Year all Branches Engineering	01/07/2019
	<u>View File</u>	
.2 – Programmes in which Choice B iated Colleges (if applicable) during t	ased Credit System (CBCS)/Elective c the academic year.	ourse system implemented at the
Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Production Engineering	01/07/2019
BE	Electronics Engineering	01/07/2019
BE	Computer Engineering	01/07/2019
BE	Information Technology	01/07/2019
.3 – Students enrolled in Certificate/	Diploma Courses introduced during th	e year
	Certificate	Diploma Course
Number of Students	411	Nil
– Curriculum Enrichment		
	transferable and life skills offered durir	ng the year
Value Added Courses	Date of Introduction	Number of Students Enrolled
Grooming for Placements	24/05/2020	161
By Industry Experts		
	<u>View File</u>	
.2 – Field Projects / Internships unde	er taken during the year	
	Programme Specialization	No. of students enrolled for Field
Project/Programme Title		Projects / Internships
Project/Programme Title BE	Computer Engineering	51
	Computer Engineering Electronics Engineering	
BE		51
BE BE	Electronics Engineering	51 35
BE BE BE	Electronics Engineering Production Engineering	51 35 60
BE BE BE BE	Electronics Engineering Production Engineering Information Technology	51 35 60
BE BE BE	Electronics Engineering Production Engineering Information Technology <u>View File</u>	51 35 60
BE BE BE BE - Feedback System .1 – Whether structured feedback re	Electronics Engineering Production Engineering Information Technology <u>View File</u>	51 35 60 41
BE BE BE BE - Feedback System	Electronics Engineering Production Engineering Information Technology <u>View File</u>	51 35 60

A	lumni	Yes	
Ρ	arents	Yes	

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

For each program, we collect students, teachers, parents, graduate and alumni exit surveys. We analyze the feedback and try to emphasize more on the following areas: The curriculum gap is identified by the academic and industry experts, and suggestion for inclusion next syllabus revision are convey to the University of Mumbai to enrich students more practical knowledge. The internship has been recommended/ suggested to gain industrial exposure. Many Technical events/conferences/seminars/workshops/guest lectures and industrial visits are organized in college to refine students technical knowledge. Teachers are trained to adopt new technologies which can be implemented to improve teaching-learning. Students are encouraged to take mini projects/B.E projects on live problems. Infrastructural and laboratory changes/upgrades are made on a regular basis. Action Taken on Teachers Feedback At the end of every academic year, each faculty receives online feedback filled by students for the subjects taught during the current year. If faculty feedback is unsatisfactory, then the following actions are taken by the faculty and higher authorities. The teacher submits remedial action on the feedback to the higher authorities. HOD and PAC members discuss the lesson plan to see the depth and breadth of the subject covered. HOD and Dean of Academics observe the lectures and monitor weekly attendance reports. The faculty conducts group discussions, quizzes, brainstorming sessions during lecture hours to hold attention and encourage independent thinking. Real-life projects and assignments are given to students to enhance independent thinking and logical reasoning. HOD approves the grading sheet and collects midterm feedback from students about their learning experience and unbiased assessment of student's performance and term work.

## **CRITERION II – TEACHING- LEARNING AND EVALUATION**

## 2.1 – Student Enrolment and Profile

2	2.1.1 – Demand Ratio during the year								
	Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled				
	BE	Production Engineering	12	552	3				
	BE	Electronics and Computer Science	12	552	12				
	BE	Computer Engineering	24	552	23				
	BE	Mechanical Engineering	12	552	8				
	ME	Mechanical Engineering	Nill	Nill	Nill				
			<u>View File</u>						
2	.2 – Catering to Stud	lent Diversity							
2	2.2.1 – Student - Full tir	me teacher ratio (currer	nt year data)						

		in the institution (UG)	in the institution (PG)	available in the institution teaching only UG courses	institution	teaching both UG and PG courses			
	2019	1116	11	58	4	Nill			
2	2.3 – Teaching - Learning Process								

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), Elearning resources etc. (current year data)

	Number of Teachers on Roll	Number of teachers using ICT (LMS, e- Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
	62	33	15	17	4	20
View File of ICT Tools and resources						

View File of E-resources and techniques used

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring in educational institutes involves informal communication, face-to-face, between the teachers (mentors) and the students (mentees). Mentoring not only helps to monitor the academic progress of the students but also ensures their overall wellbeing. Mentor system started in Fr. CRCE from the academic year 2015-16. Each mentor takes care of approximately 20 students from SE to BE. For the students newly admitted in the first year, a faculty preferably teaching the subject in both the semesters is assigned mentorship. Usually, one faculty mentors a group of 20 to 25 students. Hence typically a class of sixty students can have two to three mentors. The syllabus revised in the academic year 2019-20, has introduced one senior student, preferably form third year (Semester-V) from same department/stream as an additional mentor for these students. Teacher Mentors keep track of academic progress attendance of the students and also addresses personal problems, if any, faced by the students in the first year of engineering. While student mentors can prove to be a helpful guide in every walk of college life and also help new entrants to cope up with the professional studies. Mentoring with minimum one session in a month is conducted during semester by the faculty mentors. Teacher mentor maintains all the records and updates the information regularly. Fr. CRCE follows an online mentoring system where the mentors can track the students' academic progress and attendance status. In certain cases, the student can be referred to the Principal, Head of the Department, Dean Academics or Counsellor to seek guidance/intervention. In the higher semesters, a dedicated time slot is allotted in the timetable for mentoring session. Students meet their mentors once a week or more often as per need. During the interaction, the mentors record the observations about the mentees' needs, strengths, weaknesses, grievances and doubts, etc and try to help them to overcome the problems and boost their confidence. Objectives of Mentoring 1. To keep track of the academic progress and attendance status of the student. 2. To understand the students' strengths, weaknesses, capabilities and needs. 3. To help them overcome their fears and shortcomings and boost their morale as well as use their strengths to excel in his/her objectives. 4. To refer specific cases to the Principal, Head of the Department, Dean Academics or Counsellor for special assistance required.

						•			•
	Number of students enrolled in the institution		Number of fulltime teachers			Mentor : Mentee Ratio			
	1116		40			1:28		1:28	
2	2.4 – Teacher Profile and Quality								
2	2.4.1 – Number of full ti	me teachers ap	pointed	during the	year				
	No. of sanctioned positions	No. of filled po	sitions Vacant positions		ositions	Positions filled during the current year		~ 1	No. of faculty with Ph.D
	55	62		N	i11		Nill		17
	2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )								
	Year of Award	Name of	full time	e teachers	Des	signation	ignation N		ame of the award,

	receiving awards from state level, national level, international level		fellowship, received from Government or recognized bodies
Nill	nil	Nill	nil
	View	, File	

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester- end/ year- end examination
BE	3148246	8	17/10/2020	13/11/2020
BE	3148246	7	26/11/2019	21/01/2020
BE	3184245	8	17/10/2020	13/11/2020
BE	3184245	7	26/11/2019	21/01/2020
BE	3184346	8	17/10/2020	17/11/2020
BE	3184346	7	26/11/2019	01/01/2020
BE	3184606	8	17/10/2020	31/10/2020
BE	First year	1	29/11/2019	02/10/2020
ME	3184612	1	17/12/2019	01/03/2020
		View File		

#### <u>View File</u>

2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institute being affiliated to Mumbai University adheres to the evaluation method prescribed by the university in the syllabus. However, the institute has brought some reforms in some components of evaluation. A choice based scheme of syllabus was introduced by the university in 2016. As per the scheme, the evaluation system, adopted by the institute, has two components viz. 1. CIE 2. End Semester Exam (ESE) The weightage given (for UG and PG): CIE-20 ESE- 80 Term work- 25 As specified by the Mumbai University, the institute conducts two class tests for UG and PG students. The test marks are averaged and are available on the ERP for the students and for use by the exam cell. The model answers of the test papers are also available in the archive for the reference of the students. According to this scheme, the students are required to make mini projects in specific subjects every semester. The mini projects are evaluated based on predefined rubrics. Some new tools were added for the evaluation of mini projects. At least two assignments are given to the students during the semester and evaluated based on predefined rubrics. In some subjects, tutorials are introduced and evaluated regularly. The term work marks allotted are available to the exam cell on the ERP. The progress of the final year projects of UG is reviewed during the term periodically and evaluated by teams of teachers. The marks allotted are considered while allotting the term work marks.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The institute being affiliated to the Mumbai University, designs its college academic calendar semester wise based on the academic calendar of the university, clearly specifying the dates of various academic, co-curricular, and extracurricular activities to take place during the term. This calendar

includes dates proposed by the university for the commencement, conclusion of the present semester, commencement of the next semester and is notified prior to the commencement of the term. College strictly adheres to the specified dates. Accordingly, the dates for the unit tests and other co-curricular and extra-curricular activities are planned and strictly followed. The unit tests (UT) are conducted on the dates reflected in the academic calendar. The dates for uploading the UT question papers and model answers on ERP are strictly followed by the teachers. The evaluation of the test papers is finished in the stipulated time and marks uploaded on the ERP. After every test, the UT marks and the cumulative attendance are conveyed to the parents. The schedule for Assignments and laboratory experiments is included in the lesson plan and practical plan, respectively and conducted as per the schedule. As a part of the internal assessment, the departments conduct final year project demonstration and progress review according to the academic calendar of the department. The oral and practical exams are conducted every semester within the dates stipulated by the university.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://frcrce.ac.in/index.php/academics/naac/naac-19-20/category/91-2-teachinglearning-and-evaluation1920?download=585:2-6-student-performace-and-learningoutcomes

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
3184606	BE	Production Engineering	57	57	100
3184376	BE	Electronics Engineering	66	66	100
3184245	BE	Computer Engineering	78	78	100
3148246	BE	Information Technology	76	76	100
3184612	ME	Mechanical Engineering	2	2	100
3184376	ME	Electronics Engineering	2	2	100
		View	<u>/ File</u>		

2.6.2 - Pass percentage of students

# 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://frcrce.ac.in/index.php/academics/naac/naac-19-20/category/91-2-teachi
ng-learning-and-evaluation1920?download=583:student-satisfaction-survey-onoverall-institutional-performace

.1 – Resource Mob							
B.1.1 – Research fund	ls sanctioned and	d receiv	ed from var	ous agencie	es, indu	stry and other o	rganisations
Nature of the Project	Duration	l	Name of thage	-		otal grant Inctioned	Amount received during the year
Minor Projects	1		Mu Unive	mbai rsity		0.3	0.3
Minor Projects	1		Mu Unive	mbai rsity		0.25	0.25
Minor Projects	1		Mu: Unive:	mbai rsity		0.25	0.25
Minor Projects	1		Mu Unive	mbai rsity		0.3	0.3
Minor Projects	1		Mu Unive	mbai rsity		0.4	0.4
Minor Projects	1		Mu Unive	mbai rsity		0.25	0.25
Minor Projects	1		Mu Unive	mbai rsity		0.25	0.25
Minor Projects	1		Mu Unive	mbai rsity		0.3	0.3
			View	/ File			
<b>.2 – Innovation Ecc</b> 3.2.1 – Workshops/Se ractices during the ye	eminars Conducte ear	ed on In			ts (IPR)	) and Industry-A	
Title of worksho	•		Name of	•			Date
Idea validation Opportun Identificat Business Develop	nity ion and Model		All Depa	rtments		05/	08/2019
IPR IP Man forInnovation ups			All Depa	rtments		23/	01/2020
3.2.2 – Awards for Inr	ovation won by I	nstitutio	n/Teachers	Research s	cholars	/Students during	g the year
Title of the innovation	Name of Awa	ardee	Awarding	Agency	Dat	e of award	Category
NIL	NIL		N	IIL		Nill	NIL
			No file	uploaded	•		
3.2.3 – No. of Incubat	ion centre create	d, start-	ups incubat	ed on camp	us durir	ng the year	
Incubation	Name	Spon	sered By	Name of		Nature of Star	t- Date of
Center				Start-u	ıр	up	Commencemen

 Center
 Start-up
 up
 Com

 NIL
 NIL
 NIL
 NIL
 NIL

Nill

3.3 – Research Publications and Awards

3.3.1 – Incentive	to the teachers	who receive reco	gnition/a	awards				
S	State		Natio	onal		Internatio	onal	
	0		0	)		0		
3.3.2 – Ph. Ds aw	varded during the	e year (applicabl	e for PG	College	e, Research Cen	ter)		
١	lame of the Dep	artment			Number of	of PhD's Awarde	d	
Pı	roduction De	epartment				1		
3.3.3 – Research	Publications in	the Journals noti	fied on l	JGC wel	osite during the	year		
Туре	Туре De			Numl	per of Publication		npact Factor (if any)	
Internat	cional	Productio Engineerin			7		0.44	
Internat	cional	Electroni Engineerin			2		0.38	
Internat	ional	Computer Engineerin			3		0.33	
Internat	cional	Information Technology			16		0.59	
Internat	cional	Humanities Science	and		1	0.38		
			View	<u>r File</u>				
Elect	Departmer	nt uter Science	2		Numbe	er of Publication 7		
Pr	oduction En	gineering			10			
C	omputer Eng	ineering		11				
In	formation T	echnology		3				
	Humanities	Science		2				
			<u>View</u>	<u>/ File</u>				
.3.5 – Bibliometr /eb of Science or			last Aca	ademic y	vear based on av	verage citation in	dex in Scopus	
Title of the Paper	Name of Author	Title of journal	Yea public		Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding se citation	
Using Ve getable- oil based Sustainabl e Metal Working Fluids to promote Green Manu facturing	Dr.Vasim Shaikh	Internat ional Journal of Manufactur ing, Materials and Mechanical Engineerin g (IJMMME)	2	020	5	Fr. Conceicao Rodrigues College of Engineerin g	5	

Diabetic Retinopath Y Screening Machine Learning for Hierar chical Cla ssificatio n	Dr. D V Bhoir	Internat ional Journal of Innovative Technology and Exploring Engineerin g	2019	2	Fr. Conceicao Rodrigues College of Engineerin g	2
Evaluating Resource Centric Behavior of Workloads and Perfor mance Analysis in CMPs due to Shared Resources	Dr. Sunil Surve	Internat ional Journal of Engineerin g and Advanced Technology	2019	1	Fr. Conceicao Rodrigues College of Engineerin g	1
HYBRID PHISHING SITE DETECTION	Prof. Nilesh Patil	Internat ional Journal of Advanced Science and Technology	2020	1	Fr. Conceicao Rodrigues College of Engineerin g	1
Prediction of Vertical Handover using Mult ivariate Regression	Prof. S. Prabhavath y,Dr. Srija Unni krishnan	Internat ional Journal of Innovative Technology and Exploring Engineerin g	2019	7	Fr. Conceicao Rodrigues College of Engineerin g	7
	-		<u>View File</u>			
		Publications du		-	-	)
Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Prediction of Vertical Handover using Mult ivariate Regression	Dr. Srija Unni krishnan	Internat ional Journal of Innovative Technology and Exploring Engineerin	2019	5	7	Fr. Conceicao Rodrigues College of Engineerin g

		g				
Using Ve getable- oil based Sustainabl e Metal Working Fluids to promote Green Manu facturing	Dr.Vasim Shaikh	Internat ional Journal of Manufactur ing, Materials and Mechanical Engineerin g (IJMMME)	2020	3	2	Fr. Conceicao Rodrigues College of Engineerin g
Diabetic Retinopath y Screening Machine Learning for Hierar chical Cla ssificatio n	Dr. D V Bhoir	Internat ional Journal of Innovative Technology and Exploring Engineerin g	2019	2	2	Fr. Conceicao Rodrigues College of Engineerin g
Evaluating Resource Centric Behavior of Workloads and Perfor mance Analysis in CMPs due to Shared Resources	Dr. Sunil Surve	Internat ional Journal of Engineerin g and Advanced Technology	2019	4	1	Fr. Conceicao Rodrigues College of Engineerin g
Prediction of Vertical Handover using Mult ivariate Regression	Prof. S. Prabhavath Y	Internat ional	2019	5	7	Fr. Conceicao Rodrigues College of Engineerin g
HYBRID PHISHING SITE DETECTION	Prof. Nilesh Patil	Internat ional Journal of Advanced Science and Technology	2020	1	1	Fr. Conceicao Rodrigues College of Engineerin g
Performa nce evaluation of various texture	Dr. Ketaki Joshi	Internat ional Journal of Computatio nal Vision	2020	1	Nill	Fr. Conceicao Rodrigues College of Engineerin

analysis techniques for		and Robotics				g
machine vi sion-based characteri						
sation of machined surfaces						
Contribu tion of factors such as machining parameters , MQL nozzle ori entation and Mql Nanofluid type on surface finish of turned steel workpieces using DOE approach	,Prof. D S S Sudhakar	Materials Science Forum Vol. 1019	2020	1	Nill	Fr. Conceicad Rodrigues College o Engineeri g
Converge nce and BER approx imation of HIC Detector for DS- CDMA System in Rayleigh Fading Multipath Environmen t	Prof.Mon ica Khanore	Internat ional Journal of Innovative Technology and Exploring Engineerin g (IJITEE)	2020	1	Nill	Fr. Conceicad Rodrigues College o Engineeri g
Performa nce evaluation of various texture analysis techniques for machine vi sion-based characteri sation of machined surfaces	Dr. Bhushan Patil	Internat ional Journal of Computatio nal Vision and Robotics	2020	1	Nill	Fr. Conceicad Rodrigues College o Engineeri: g

Number of Faculty	nternational	Natio	nal	State	Local
Attended/Semi hars/Workshops	ded/Semi 63 Nill Ni		Nill	Nill	
IALS/ WOLKSHOPS		View	File		
– Extension Activities		VICW			
4.1 – Number of extension	and outroach pro	grammas co	nductod in	collaboration with	inductry community of
n- Government Organisatio					
Title of the activities	Organising unit collaborating		particip	of teachers ated in such tivities	Number of students participated in such activities
Making of compost pit	NSS	;		4	60
Waste Management	NSS	;		4	58
Chinbai Beach clean up, Chinbai village,Bandra., 1st September 2019	NSS			4	77
Walk For Freedom, St.Stanislaus High School,Bandra(W), 2nd November 2019. Walk For Freedom, St.Stanislaus High School,Bandra(W), 2nd November 2019.	NSS			4	68
Ganpati Visarjan Cleanup at juhu beach, Mumbai	NSS	5		4	77
Blood Donation 1, FRCRCE,August 28th 2019	NSS			4	85
Kolhapur Flood elief Donation, 22 August 2019	NSS	5		4	38
Bottles for change, Bisleri,Andheri [east] 21st august 2019.	NSS	1		4	45
Tree plantation at Emerald Court Garden Mumbai(Andheri w) 5th JULY 2019	NSS	5		4	38
Climate change Workshop	NSS			4	50

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
nss	Leadership Training cap Certificate	Granted by University of Mumbai to our students Mr. Alden DSouza	1
NSS	Appreciation award for volunteering Mount Mary Fair, Bandra.	Brihan Mumbai Aayuktalaya, Mumbai awarded certificate of Appreciation	1

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS	NSS	Making of compost pit	4	60
NSS	NSS	Waste Management	4	58
NSS	NSS	Chinbai Beach clean up, Chinbai village ,Bandra., 21st September 2019	4	77
NSS	NSS	Walk For Freedom, St.Stanislaus High School,Ban dra(W), 2nd November 2019. Walk For Freedom, St.Stanislaus High School,Ban dra(W), 2nd November 2019.4	4	68
NSS	NSS	Ganpati Visarjan Cleanup at juhu beach, Mumbai	4	77
NSS	NSS	Blood Donation 1, FRCRCE,August 28th 2019	4	85
NSS	NSS	Kolhapur Flood Relief Donation, 22 August 2019	4	38

NSS		NSS		Bott]	les for		4		45
				char	nge,		-		
			I		Andheri				
				[east]					
	_			august					
NSS		NSS			ree		4		38
				plantat Emerald					
				Gar					
				Mumbai(					
				w) 5tł	JULY				
				20	19				
NSS		NSS		Cli	mate		4		50
			c	change V	lorkshop				
				<u>Viev</u>	<u>v File</u>				
5 – Collaboration	IS								
5.1 – Number of C	ollaborati	ve activiti	ies for res	search, fao	culty exchar	ige, stud	lent exch	ange duri	ng the year
Nature of activ	/ity	F	Participar	nt	Source of f	inancial	support		Duration
IEEE			105		All In	dia C	ouncil		2
Internation						echnic			
Conference					Educati	on (A	ICTE)		
Advances in									
Computing									
Computing Communicati									
	ion								
Communicati	ion			View	, File				
Communicati Control (ICA	ion AC3)				<u>v File</u>				
Communicati	Lon AC3) h institutio	 ons/indus	tries for i			training,	project w	vork, shar	ing of research
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th	ion AC3) h institutio he year			nternship,	on-the- job				1
Communicati Control (ICZ 5.2 - Linkages with	Lon AC3) h institutio	of the	Name				project w Durati		ing of research Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th	ion AC3) h institutio he year Title c	of the	Name partr instit	nternship, e of the nering ution/	on-the- job				1
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th	ion AC3) h institutio he year Title c	of the	Name partr instit indu	nternship, e of the hering ution/ ustry	on-the- job				1
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th	ion AC3) h institutio he year Title c	of the	Name partr instit indu /resea	nternship, e of the hering ution/ ustry irch lab	on-the- job				1
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th	ion AC3) h institutio he year Title c	of the	Name partr instit indu /resea with c	nternship, e of the hering ution/ ustry	on-the- job				1
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age	Name partr instit indu /resea with c det	nternship, e of the hering ution/ ustry irch lab contact tails	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit /resea with c det	nternship, e of the hering ution/ ustry urch lab contact	on-the- job	From	Durati		1
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit /resea with c def Vi	nternship, e of the hering ution/ ustry irch lab contact tails sions	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c det Vi. Soft Pvt. I	nternship, e of the hering ution/ ustry irch lab contact tails sions cware	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi. Soft Pvt. I handi Aus	nternship, e of the hering ution/ ustry irch lab contact tails sions sware itd. (C garh), scan	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi Soft Pvt. I handi Aus Acade	nternship, e of the hering ution/ ustry urch lab contact tails sions cware itd. (C garh), scan emy of	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with o def Vi. Soft Pvt. I handi Acade Infor	nternship, e of the hering ution/ ustry rch lab contact tails sions ware itd. (C garh), scan emy of mation	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi. Soft Pvt. I handi Acade Inform	nternship, e of the hering ution/ ustry irch lab contact tails sions ware itd. (C garh), scan emy of mation plogy (	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi Soft Pvt. I handig Acade Inform Techno Chandi	nternship, e of the hering ution/ ustry irch lab contact tails sions ware itd. (C garh), scan emy of mation plogy ( .garh),	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi. Soft Pvt. I handio Acade Inform Techno Chandi Micro	nternship, e of the hering ution/ ustry irch lab contact tails sions ware itd. (C garh), scan emy of mation plogy (	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi. Soft Pvt. I handi Aus Acade Infor Techno Chandi Micro Group,	nternship, e of the hering ution/ ustry irch lab contact tails sions ware itd. (C garh), scan emy of mation ology ( .garh), Turner	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi Soft Pvt. I handi Acade Inform Techno Chandi Micro Group, (Him	nternship, e of the hering ution/ ustry irch lab contact tails sions ware itd. (C garh), scan emy of mation plogy ( .garh), Turner Baddi achal esh),	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c det Vi. Soft Pvt. I handig Acade Infor Techno Chandi Micro Group, (Him Prada	nternship, e of the hering ution/ ustry irch lab contact tails sions ware itd. (C garh), scan emy of mation ology ( .garh), Turner Baddi achal esh), Kay	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi. Soft Pvt. I handi Aus Acade Inforn Techno Chandi Micro Group, (Him Pradu Aar Sh	nternship, e of the hering ution/ ustry rch lab contact tails sions ware itd. (C garh), scan emy of mation ology ( .garh), Turner Baddi achal esh), Kay awl	on-the- job	From	Durati	on To	Participant
Communicati Control (ICZ 5.2 – Linkages with illities etc. during th Nature of linkage	ion AC3) h institutio he year Title c linka	of the age ustry	Name partr instit indu /resea with c def Vi Soft Pvt. I handig Acade Inforn Techno Chandi Micro Group, (Him Pradu Aar Sh Indus	nternship, e of the hering ution/ ustry irch lab contact tails sions ware itd. (C garh), scan emy of mation ology ( .garh), Turner Baddi achal esh), Kay	on-the- job	From	Durati	on To	Participant

			(Himachal Pr adesh)(Field Trip)				
Part-Time	Inte	rnship	Indian School of Design Innovation (Field Trip)	11/03/2019	11/0	3/2019	5 staff members
Part-Time	Inter	rnship	SKS Enterprises	29/11/2019	10/03	1/2020	Faizan Jetpurwala
Part-Time	Inte	rnship	Blue Star	10/06/2019	21/0	6/2019	Ashish Kumar
Part-Time	Inter	rnship	Embedded Techno Solutions	16/12/2019	27/1	2/2019	Noel James
Part-Time	Inte	rnship	BSNL	16/12/2019	28/1	2/2019	Kar Sumanto
Part-Time	Inte	rnship	Pan Gulf Steel Company	18/12/2019	07/03	1/2020	Varun Babu
Part-Time	Inter	rnship	L T, Powai	05/12/2019	04/0	1/2020	Joel Paul
Part-Time	Inte	rnship	Classic Strips Pvt. Ltd	10/07/2019	09/1	0/2019	Alroy Pereira
Part-Time	Inter	rnship	HERBOLAB India Pvt Ltd, Mumbai.	06/06/2019	12/0	7/2019	Sakshi Dave
			<u>View</u>	<u>File</u>			
8.5.3 – MoUs signe ouses etc. during t		itutions o	f national, internatic	onal importance, oth	er univer	sities, ind	ustries, corporate
Organisatio	on	Date	of MoU signed	Purpose/Activities		stude	lumber of ents/teachers ated under MoUs
Hyfun	n	C	2/09/2019	Online plat for educat:		Nill	
Studentin	g Era	2	25/07/2019	Education Training			Nill
United	Way	2	4/07/2019	Volunteerin Mission Bl Project			Nill
Detrest	alb	1	4/10/2010	desist esti-			EO

<u>View File</u>

Social activities

# **CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**

# 4.1 – Physical Facilities

Rotract Club

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

14/10/2019

Budget allocated for infrastructure augmentation Budget utilized for infrastructure development

342.1

267.53

50

Facilities						Existing or Newly Added					
	C	Campus	s Are	ea		Existing					
	Se	mina	r Ha	lls				Exis	ting		
	C	lass	roo	ms				Exis	ting		
Semin	nar hall	s wit	th I	CT facil	lities			Exis	ting		
Cla	ssrooms	with	LCD	facili	ties			Exis	ting		
purcha		reate	r tha	: equipm an 1-0 ] nt year			1	Newly	Adde	d	
	L	abora	tori	.es				Exis	ting		
Cla	assroom	s wit	h Wi	-Fi OR	LAN			Ni	11		
					View	<u>v File</u>					
2 – Library	as a Lea	rning	Reso	urce							
2.1 – Librar		-			y Managem	ent Syste	m (ILMS)}				
	f the ILMS tware	;	Natur	e of autom or patial	nation (fully lly)		Version		Yea	ar of autor	nation
LI	BSuite			Partia	ally	20	07 versio	n		200	7
2.2 – Librar	y Services							•			
Library Service Typ	be	E	Existin	g		Newly Added Total					
Text Books	2	27313		247349	9 3	360	82621		27673	3 2	2556120
e-Book	s	4065		80240	) 4	065	120000	120000 8130		)	200240
Journal	ls	49		462635	5	45	110000		94		572635
e- Journals	5	155		569866	34 3	305	1005204		460	6	5703868
					<u>Viev</u>	<u>v File</u>					
raduate) SW earning Mar	AYAM oth	ner MO Systen	OCs   n (LM:	platform N S) etc	PTEL/NMEI	CT/any of	, CEC (under ther Governm	nent initi	atives	& instituti	onal
Name of t	the Teach	er	Na	me of the	Module	Platform on which module is developedDate of launching e- content				-	
Nil			Ni	1		Nil Nill					
					No file	uploade	ed.				
3 – IT Infra	structure										
3.1 – Techn	nology Upę	gradatio	on (ov	verall)							
I.3.1 – Technology Upgradation (overall)         Type       Total Co       Computer       Internet       Browsing         mputers       Lab       Centers				Compute Centers		Depart nts	B h	vailable andwidt (MBPS/ GBPS)	Others		
										,	

Added	0	0	0	0	0	0	0	0	0
Total	691	239	23	б	72	6	345	100	0
.3.2 – Band	dwidth avail	able of int	ernet connec	tion in the I	nstitution (L	eased line)			
100 MBPS/ GBPS									
.3.3 – Faci	lity for e-cor	ntent							
Nam	e of the e-c	ontent de	velopment fa	cility	Provide t	he link of th			entre and
						rec	cording fac	lity	
			codring fa rd - Reco		http://w	ww.frcro	ce.ac.in	/index.pl	hp/acade
	_		Running			<u>ac/naac-1</u>			
C	apabilit	les are	availabl	e		ure-and-l ad=512:4			
Op	en Sourc	e tools	CamStudi	o is	h	ttps://y	outu.be/	bmtmMqyw	<u>vqtc</u>
avaliab		bs for facult:	recording les.	videos					
		ecture 1			Facul	<u>ty can u</u>	upload s	ubject n	<u>otes on</u>
						_	<u>moodle</u>	_	
		PPTs			http://o	yan.frac	mel edu	in:2222	/moodle/
					<u>1100p · / / 0</u>	-		o?id=295	/ mooure/
		Blog	5						
					<u>http://f</u>	ragnelco	<u>ollegeli.</u> <u>om</u>	brary.bl	<u>ogspot.c</u>
A Mainte		0	Infrastructu						
omponent, Assigne	enditure inco during the y ed Budget o mic facilities	rear n E:	naintenance of xpenditure ind intenance of facilitie	curred on academic	Assigne	l academic ed budget o cal facilities	n Ex	penditure ir intenance c	ncurredon of physical
:	1569.1		45.1	1		342.1		267.	.53
orary, sport stitutional V	s complex, o Vebsite, pro	computers ovide link)		etc. (maxir	num 500 wo	ords) (inforn	nation to be	e available i	n
			intenance d out thr						
<ul> <li>Maintenance is carried out throughout the year and as and when required. The college has Maintenance Committee that oversees the maintenance of buildings, classrooms and laboratories. This committee ensures that the proposed expansion of infrastructure is in line with the academic growth of the institution.</li> <li>Faculty in-charge is assigned for maintenance of every floor. The maintenance coordinator conducts periodic checks to ensure the efficiency / working condition of the infrastructure. The Institute expands the infrastructure as per AICTE norms. In case maintenance of lab equipment arises, the concerned laboratory-incharge along with the laboratory assistant issues a maintenance request to the purchase committee through the section/Department head (HOD).</li> <li>Based on the request, the equipment maintenance work is assigned to third party equipment experts. These experts carry out the repair/maintenance of the equipment. The non-teaching staff is also trained in maintenance of science and computer equipment. Institute has appointed external agencies for maintenance</li> </ul>									

of infrastructure, equipment and other facilities such as lifts, fire extinguishers, fire systems, UPS, water purifiers, water coolers, photocopy machines, computer systems. Some of them are maintained through an annual maintenance contract. For maintenance by an external agency, quotations are called from multiple vendors and finalized by the purchase department. A purchase requisition is raised by the department, followed by purchase orders, invoice preparations etc. The Institute has a house keeping supervisor for overlooking the maintenance of cleanliness and minor repairs (sanitation) required on a day to day basis. Wash rooms and rest rooms are well maintained. Dustbins are placed on every floor. The housekeeping is outsourced. The office staff monitors their work and related maintenance issues. Minor maintenance of furniture items and metal fixtures is carried out by the workshop department and the minor electrical maintenance and AC maintainance is looked after by the Electrical Maintenance coordinator and his team. Classrooms, Staffrooms, Seminar halls and Laboratories, etc is cleaned and maintained regularly by Non - teaching staff assigned for each floor. Periodic requirements of repairs and maintenance is submitted by the HODs to the purchase officer, who then calls for the quotations thereafter the centralized purchase procedure is followed. The HODs monitors the workdone by the contractor and ensures smooth functioning of equipment, the final report of completion of work is handed over to the Principal. http://fragnel.edu.in/index.php/academics/naac/naac-19-20/category/9

3-4-infrastructure-and-learning-resources?download518:4

http://www.frcrce.ac.in/index.php/academics/naac/naac-19-20/category/93-4-infrastructure-and-learningresources

## **CRITERION V – STUDENT SUPPORT AND PROGRESSION**

#### 5.1 – Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	BLUESTAR, STULZ	15	983000
Financial Support from Other Sources			
a) National	EBC ,VJNT, SBC, OBC, MINORITY, SC ,ST ,TFW	206	12325181
b)International	Nill	Nill	Nill
	View	7 File	

<u>View File</u>

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft Skill Development	Nill	280	Dr. Joseph Rodrigues,Fr.CRCE, Bandra
Soft-skills Training for vernacular students of First year	Nill	15	Dr. Joseph Rodrigues,Fr.CRCE, Bandra
Life Skill-Yoga- FE-INDUCTION	22/08/2019	140	Ms. Meenakshi, Shaj Yoga mumbai

Life Skill DAY	-		21/06/2019			Kandoi and din HTDC and Agan	Namratam S , the founder rector of the NGO, Mumbai Mrs. Mamta rwal ,Yoga .ctor, Mumbai
Language L Communicat Skills	cion	Nill		280		Dr. Joseph Rodrigues,Fr.CRCE Bandra	
Bridge cou ICT /Compu skills	ting		Nill	212			urses like L,COURSERA, Udeme
Remedial co	aching		Nill	19		Faci	ulty Members
Person Counselli			Nill	143		Rodrig	r. Joseph ues,Fr.CRCE, Bandra
Mentori	.ng		Nill	1116			ll faculty nembers
			View	<u>r File</u>			
5.1.3 – Students be institution during the	•	<sup>,</sup> guidance	or competitive exa	aminations and car	eer couns	elling offe	ered by the
Year	Name	of the	Number of	Number of	Numb		Number of
	sche	eme	benefited students for competitive examination	benefited students by career counseling activities	student have pa the comp	issedin	studentsp placed
2020	sche	reer	students for competitive	students by career counseling	have pa the comp	issedin	121
	Sche	reer elling	students for competitive examination	students by career counseling activities	have pa the comp งา	issedin 5. exam	
2020	Ca: Counse Compet	reer elling	students for competitive examination Nill 118	students by career counseling activities 428	have pa the comp งา	issedin b. exam ill	121
2020	Counse Counse Compet Examin	reer alling citive nation	students for competitive examination Nill 118 <u>View</u> sparency, timely re	students by career counseling activities 428 Nill 7 File	have pa the comp N:	ill 27	121 Nill
2020 2019 5.1.4 – Institutional	Can Counse Compet Examin mechanis gging case	reer alling citive nation sm for tran	students for competitive examination Nill 118 <u>View</u> sparency, timely re	students by career counseling activities 428 Nill 7 File dressal of student of	have pa the comp N:	ill s, Preven	121 Nill tion of sexual
2020 2019 5.1.4 – Institutional harassment and rac Total grievar	Can Counse Compet Examin mechanis gging case	reer alling citive nation sm for tran	students for competitive examination Nill 118 <u>View</u> sparency, timely re he year Number of grieva	students by career counseling activities 428 Nill 7 File dressal of student of	have pa the comp N:	issedin b. exam ill 27 s, Preven mber of da redre	121 Nill tion of sexual
2020 2019 5.1.4 – Institutional harassment and rac Total grievar	Counse Counse Compet Examin mechanis gging case nces receiv	reer alling citive nation sm for tran	students for competitive examination Nill 118 <u>View</u> sparency, timely re he year Number of grieva	students by career counseling activities 428 Nill 7 File dressal of student of ances redressed	have pa the comp N:	issedin b. exam ill 27 s, Preven mber of da redre	121 Nill tion of sexual ays for grievance
2020 2019 5.1.4 – Institutional harassment and rag Total grievar	Compet Compet Examin mechanis gging case nces receiv fill gression	reer alling citive nation sm for tran es during th ved	students for competitive examination Nill 118 <u>View</u> sparency, timely re he year Number of grieva	students by career counseling activities 428 Nill 7 File dressal of student of ances redressed	have pa the comp N:	issedin b. exam ill 27 s, Preven mber of da redre	121 Nill tion of sexual ays for grievance
2020 2019 5.1.4 – Institutional harassment and rag Total grievar 5.2 – Student Prog	Compet Compet Examin mechanis gging case nces receiv fill gression	reer alling citive nation or for tran es during the ved	students for competitive examination Nill 118 <u>View</u> sparency, timely re he year Number of grieva	students by career counseling activities 428 Nill 7 File dressal of student of ances redressed	have pa the comp N:	ssedin b. exam ill 27 s, Preven mber of da redre	121 Nill tion of sexual ays for grievance
2020 2019 5.1.4 – Institutional harassment and rag Total grievar 5.2 – Student Prog	Compet Compet Examin mechanis gging case nces receiv fill gression ampus pla	reer elling citive nation or for tran es during the ved cement du inpus per of ents	students for competitive examination Nill 118 <u>View</u> sparency, timely re he year Number of grieva	students by career counseling activities 428 Nill 7 File dressal of student of ances redressed	have pa the comp N: 2 grievances Avg. nur	issedin b. exam ill 27 s, Preven mber of da redre N mpus ber of ents	121 Nill tion of sexual ays for grievance
2020 2019 5.1.4 – Institutional harassment and rag Total grievar 5.2 – Student Prop 5.2.1 – Details of ca Nameof organizations	Compet Counse Counse Compet Examin mechanis gging case nces receiv fill gression ampus pla On ca Numb stude partici	reer elling citive nation or for tran es during the ved cement du inpus per of ents	students for competitive examination Nill 118 <u>View</u> sparency, timely re he year Number of grieva N: uring the year	students by career counseling activities 428 Nill dressal of student g ances redressed ill Nameof organizations	have pa the comp N: Sprievances Avg. nur Off ca Numb stude partici	issedin b. exam ill 27 s, Preven mber of da redre N mpus ber of ents	121 Nill tion of sexual ays for grievance essal ill Number of

2019	enrolling into higher education	graduated from	graduated from	institution joined	programm admitted to
	1	B.E	Computer	stevens institute of technolgy	Data Science master' program
2019	1	B.E	Computer	University of Arizona	Managem Informati system
2019	1	B.E.	Computer	Illinois Tech	master program Informati Technolog and Managemen
2019	1	B.E.	Computer	Stony Brook university	Comput Science
2019	1	B.E.	Computer	University of Texas at Dallas	"Maste: of Sciend in Comput Science
2020	1	B.E.	Computer	University of Florida	Departmo of Comput & Informati Science Engineeri
2020	1	B.E.	Computer	Rochester Institute of Technology	Comput Science, program
2020	1	B.E	Computer	Mays business school,Texas	Master Science program Managemen Informati Systems
2020	1	B.E	Computer	Stevens institute of technology	Data Science master' program
	ualifying in state/ nat Г/GATE/GMAT/CAT/	tional/ international		<b>u</b> ,	
	Items			f students selected/	qualifying
	GRE			19	

Any Other			7				
	<u>View</u>	<u>/ File</u>					
5.2.4 - Sports and cultural activities / c	2.4 – Sports and cultural activities / competitions organised at the institution level during the year						
Activity	Lev	vel	Number of Participants				
Sports and cultural	Intra	College	1013				
Sports and cultural	Inter	Collège	82				
Marathon-Sports	Nat	ional	41				
	View	<u>/ File</u>					

# 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Secured 2nd Position	National	Nill	1	8314	Pranay Bagrecha
Secured 2nd Position	National	Nill	1	8321	Kevin Ruffin
110 meters Hurdle race in 14.26 seconds (1st position)	National	1	Nill	8292	Noronh Alden An:
110 meters Hurdle race in 14.64 seconds (2nd position) Khelo India	National	1	Nill	8292	Noronh Alden An:
Secured 1st Position in Annual Debate Com petition at XIT ,Mumbaio	National	Nill	1	8314	Pranay Bagrecha
	Secured 2nd Position Secured 2nd Position Il0 meters Hurdle race in 14.26 seconds (1st position) Il0 meters Hurdle race in 14.64 seconds (2nd position) Khelo India Secured 1st Position in Annual Debate Com petition	award/medalInternaionalSecured 2nd PositionNationalSecured 2nd PositionNational10 meters Hurdle race in 14.26 seconds (1st position)National110 meters Hurdle race in 14.64 seconds (2nd position)National110 meters (1st position)National110 meters (1st position)National110 meters (1st position)NationalSecured (2nd position) Khelo IndiaNationalSecured 1st Position in Annual Debate Com petitionNational	award/medalInternaionalawards for SportsSecuredNationalNill2ndPositionNationalPositionNationalNill2ndNational110PositionNational1metersNational1HurdleNational1race in14.2610(1stNational1position)National1functionNational1metersNational1functionNational1metersNational1functionNational1metersNational1functionNational1functionNational1functionNational1functionNationalNillfunctionNationalNillfunctionNationalNillfunctionNationalNillfunctionFositionFositionin AnnualFositionFositionpetitionFositionFosition	award/medalInternaionalawards for Sportsawards for CulturalSecured 2nd PositionNational NationalNill1Secured 2nd PositionNational NationalNill1110 meters Hurdle race in 14.26 seconds (1st position)National National1Nill110 meters Hurdle race in 14.26 seconds (1st position)National National1Nill110 meters Hurdle race in 14.64 seconds (2nd position)National National1Nillsecured race in 14.64 seconds (2nd position)National National1Nillfill position in Annual Debate Com petitionNational Nill11	award/medalInternationalawards for Sportsawards for CulturalnumberSecured 2nd PositionNationalNill183142nd PositionNationalNill18321Secured 2nd PositionNational1Nill832110 meters Hurdle race in 14.26 seconds (1st position)National1Nill8292110 meters Hurdle race in 14.64 seconds (2nd position)National1Nill8292110 meters Hurdle race in 14.64 seconds (2nd position)National1Nill8292110 meters Hurdle race in 14.64 seconds (2nd position)National1Nill8292110 race in race in 14.64 seconds (2nd position) Khelo IndiaNational1Nill8314Secured lst Position in Annual Debate Com petitionNationalNill18314

the institution (maximum 500 words)

1. Presence of an active Student Council: Student Council: Institute selects members of student council members as per Mumbai University norms. Committee members are selected by Director, Principal, and Dean (SA). The objective of the student council is to maintain a centralized governing body that addresses student concerns and involvement in academic, co-curricular extracurricular activities. Every student on the role of the institute is eligible to become a member of council and required to apply to become member of the student council. Institute has senior council and junior council with different responsibilities. It ensures participation of all students in the annual college cultural Sports and technical festival. Cultural: "Euphoria" is an annual social gathering which showcases talent of students through various cultural activities like dance, singing, fashion show, and modern art. "Paridhan" is an intercollegiate Dance competition organized by the students. Technical: The Council organizes "Crescendo", a technical extravaganza every year. Technical activities such as technical paper presentation, technical quiz, workshops, Robot War, Model Making, technical talks by eminent personalities are organized by the institute every year. Sports: The Council organizes "Athlos", a sports event every year with various sports events. Magazine: 'Fragmag' is our annual magazine published by the Magazine committee to express their talent in the form of articles, poetry etc. The committee members of various chapters'/Project teams are selected on the basis of profile Application submitted and interview Faculty In-charge and council members. 2. Representation of students on the academic committees: Class Representatives: The Class Representative brings forward any opinions, concerns and ideas from their classmates regarding their academic experience. Every class representative shall be chosen from each class to represent the class, during Student Council elections by voting mechanism. Training and placement representative (TPC): TPC acts as bridge between students and TP cell to enhance the overall placement activities. Student Chapters: Student Chapters are established for professional bodies such as ASME, CSI, Debsoc, eCell, ISTE, IEEE, ISTA, Literary Club, Mozilla, SAE, WIE, TEDx. They conduct activities in alignment with respective professional bodies such as Expert lectures, Industrial visits. Project Teams: The institute has formed different project teams like Robocon, Vaayushastra, Codelabs, Mavericks, to participate in different competitions at national and international level. Many of our teams won the awards at different levels. Social Clubs: NSS and Rotaract club organizes different events like Blood donation camp, yoga Day, donation drive, cleanliness drive, Marathon, Green Hands Project, NGO Sessions to sensitize students towards societal issues and community services 3. Representation of students on administrative committees: College Development Committee (CDC): Students' representation on this Committee facilitates overall development of institute and infrastructural growth from students' perspective. Internal Quality Assurance Cell: It ensures the institutional functioning towards quality enhancement. Internal complaint committee: It ensures prevention and prohibition of sexual harassment, Gender sensitization. Alumni Association: Alumni Association is in place to strengthen the relationship amongst alumni. Anti-Ragging committee: This committee ensures zero ragging incidents in the Institute. Women development Committee: WDC organizes different seminars for women in engineering. LINK: http://frcrce.ac.in/index.php/academics/naac/naac-1 9-20/category/94-5-student-support-and-progression?download497:5-3-2

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 - No. of enrolled Alumni:

5.4.3 – Alumni contribution during the year (in Rupees) :

635000

5.4.4 - Meetings/activities organized by Alumni Association :

The Institute established the Alumni Association in the Academic year 1993 -94. The Alumni committee is functional since 1994 with the objectives to promote and foster mutually beneficial interaction between Alumni and the Institute, to encourage the Alumni to take abiding interest in the process and development of Institute, to arrange and support placement activities for the students of Institute, to encourage the students of the Institute and members of the Association for research and development work in various fields, to mentor the students of the Institute for higher education, to guide the students of the Institute on self-employment to become entrepreneurs, to promote the Industry-Institute interaction and enhance students' employability. Citing the above objectives of Alumni Association, our Alumni contributes to the development and betterment of the Institute. Our students and Institute are benefited in various fields such as student placement, training, expert lectures, career guidance sessions and mentoring. Contribution from Alumni: Financial Contribution: Our Alumni contributes significantly to the development of the Institution through financial means. Our Alumnus from batch 1995, Mr. Suresh Balakrishnan has instituted a yearly scholarship of around 5 lakhs for deserving but economically-constrained students. This year, he had sponsored 5 lakhs. The entire Production batch of 1994 who donated around Rs.1.35 Lakhs towards facility development in our institute. Non - Financial Contribution: Expert speakers: Alumni are invited for guest lectures in their respective domains, as Keynote speakers for training programs, Career counseling seminars, etc. Curriculum enrichment: Alumni contribute for curriculum enrichment through their structured feedback on the curriculum in-order to keep pace with the recent advancements in industry. They also help us to mitigate the identified gaps through beyond-syllabus activities. TEdx, Euphoria Guest: Alumni are invited to grace as Guests of Honor for our Annual Cultural fest Euphoria and also as speakers for Tedx-CRCE. IQAC: Alumni are active members of Internal Quality Assurance Committee (IQAC) and their valuable inputs are used for quality enhancements. Placements Internship: There is an active contribution of our Alumni towards placements as well as student internships. DAB Governing Council: Alumni are also invited on the Department Advisory Board (DAB) of the various programs and also as a member of Governing Council of the Institute. They contribute by regularly attending meetings and give their inputs. Alumni committee has a networking portal Alma Connect. Alma Connect is a social network based on private alumni networks focused on helping an alum / student get trusted help from his/her alumni network. Link: http://frcrce.ac.in/index.p hp/academics/naac/naac-19-20/category/94-5-student-support-and-

progression?download496:5-4

#### **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The institution is managed by highly experienced members in the governing council with an acute foresight into the matters concerned with development of the institute. The initiatives truly reflect the determined efforts to ensure vision and mission are accomplished. The initiatives, for example include the addition of state-of-the-art equipment in all the laboratories, allowing formation of technical teams and encouraging them to participate in various

national and international competitions thus providing wide range of exposure to advances in technology worldwide. In addition, management has set up an executive council to take important decisions as regards the governance of the institution and in turn will be approved by the governing council and management. The decisions after proper approval will be made available to all the staff for proper execution. This will enable each staff to participate in decision making process and ensure to fulfil the vision and mission of the institute. Participative management: - A well delegated, democratic system has been developed and followed, to facilitate decision making which ensures transparency through participation and involvement of all stakeholders. Case Study 1: Delegation of financial powers (As regards purchase of an equipment) :- Management / Director will initiate the process of annual budgeting by calling a meeting of Principal, HODs, Unit Heads and Financial Controller. HODs will discuss the departmental preferences with departmental staff members and invite proposal for the next financial year. After scrutinize the received proposal(s), a consolidated statement of department proposal is submitted to the Principal by HODs and other units. Principal with the Accounts in-charge will make the institute level consolidated budget Proposal, based on the proposals received from the departments, making provisions for institute level purchases, student activities etc. and place the same in front of the College Development Committee. Funds for capital procurement are allocated as per requirement and priority. After incorporating the amendments, based on the discussions in the Executive Committee, Principal will submit the final budget proposal from the institute to the Trustees. The institute budget is merged into the budget of the Fr. Agnel Technical complex, Bandra and presented to the LCM and Governing Council of the Society for approval. Principal can utilize the contingency fund for urgent/extraordinary/special requirements. Head of Departments are empowered to procure items as per the approved budget by following the set procedures.

Yes						
5.2 – Strategy Development and Deployment						
6.2.1 – Quality improvement strategies adopted by the inst	2.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each)					
Strategy Type	Details					
Industry Interaction / Collaboration	With Managements initiative in motivating faculty and staff to get involved in Internal Resource Generation (IRG), a scheme was prepared. Which enables staff to share some profit earned proportionately. So, Few staff members got motivated to start Conducting short-term training certification courses for industrial workers. This training helps the candidate upgrade his/her current working or get employed in an industry. The lists enclosed show the staff involved in training activities for Indian Oil Corporation Ltd. and the number of trained workers. Similarly, CNC operator courses was started wherein a student was trained in all aspects of CNC machines. After successful completion will receive a certificate which helps him gets a					

6.1.2 – Does the institution have a Management Information System (MIS)?

	<pre>placement in industries. Such training programs have received an overwhelming response as well as appreciation from the participating enterprises. Secondly, the certification courses have become more popular due to appropriate training provided to the admitted students. These courses have seen a steep rise in enrollments as well as have become highly appreciated courses. Due to proper planning and stricter implementation of IRG strategy, many public sector and private sector firms are approaching the institute for conducting competitive examinations at our premises.</pre>
Examination and Evaluation	<ol> <li>1)Online term work and internal assessment marks entry. 2)Faculty can download list of failed students in their subject. 3)Online assistance to get the information on Dropout students. 4)Online generation of result statistics for both subject wise and semester wise. 5)Online uploading of term work grading sheet as well as internal assessment grading sheet.</li> <li>6)Online uploading of question papers required for unit tests. 7)Online selection of invigilation slots for</li> </ol>
	<pre>unit tests and university examinations. 8)All circulars and notices sent by mail. 9)E-appointment letters to     examiners appointed to conduct     oral/practical examinations.</pre>
6.2.2 – Implementation of e-governance in areas of opera	tions:
E-governace area	Details
Administration	<pre>1)Biometric attendance introduced for all the staff thus eliminating physical signature. 2)Biometric based salary preparation. 3)Online leave maintenance of each staff and provision for login based viewing. 4)Personal information viewing with login basis made available in the web site. 5)PAYSLIP</pre>
Student Admission and Support	1)For institute level admissions, advertisement for the said vacancies will be displayed on the website .

advertisement for the said vacancies will be displayed on the website . 2)Provision is made to download the application form and submit 3)Based on the CET and marks scored in 12th examination a merit list will be prepared and uploaded on the website. 4)The schedule for admission of the students shortlisted above will also be displayed in the website. And admission

	<pre>is done accordingly. 5)Online support for students include facility to see the status of the result. 6)Includes notices regarding unit tests, other office related matters. 7)All the eligible students will take into the streams of our institute as per allotment done online by the government agencies. 8)Institute level admissions are also a part of e-Governance. Students will apply online for the said vacancies and merit list accordingly will be displayed on the web site. 9)Online support system for the students comprises of : e-copies of books and journal papers etc.</pre>
Finance and Accounts	<pre>1)Purchase orders are issued to the vendor by mail. 2) Many bills pertaining to examination, purchase of equipment/ instruments and/or software are cleared through NEFT or RTGS. 3)All the details of finance and accounts are maintained as a soft copies. 4)All the audited reports are maintained on the web site. 5)Use of Tally software by accounts department.</pre>
Examination	<ol> <li>1)Online term work and internal assessment marks entry. 2)Faculty can download list of failed students in their subject. 3)Online assistance to get the information on Dropout students. 4)Online generation of result statistics for both subject wise and semester wise. 5)Online uploading of term work grading sheet as well as internal assessment grading sheet.</li> <li>6)Online uploading of question papers required for unit tests. 7)Online selection of invigilation slots for unit tests and university examinations.</li> <li>8)All circulars and notices sent by mail. 9)E-appointment letters to examiners appointed to conduct oral/practical examinations.</li> </ol>

# 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Dr.Ketaki Joshi	Fees OF NATIONAL WORKSHOP ON NIRF INDIA	Nill	5000

					organised by overnment of Telgana					
2020			s.Swati Inge	WI	FEES OF ONE EEK ISTE/STT at SAKEC		Ni]	11		2800
2019			.Garima pathi		FEES OF ONE EEK ISTE/STT F KJ Somaiya	Р	Nill		3500	
2019			Mr.Hitendra Vaishnav		Workshop organised by RD, New Dell		Ni]	11		5690
2019			.Sujata kmukh	Uı	Visit to Dapoli Agriculture niversity fo project presentation		Nill		ill 3356	
2019			.Sunil Irve	D	Workshop or NAAC Pocumentatior		Nill			1000
2019			s. Prachi FEES OF ONE Patil WEEK ISTE/STTP OF KJ Somaiya		Nill		3500			
					<u>View File</u>					
6.3.2 – Number of teaching and non					ninistrative traini	ng p	programmes	organized	by the	College for
Year	profe devel prog orgar	e of the essional lopment ramme hised for ing staff	Title of the administrativ training programme organised fo non-teachin staff	ve e or	From date		To Date	Numbe participa (Teach staff)	ants ing	Number of participants (non-teaching staff)
2019	ida Busi ppor Iden	ea val tion, ness O tunity tifica	Nill		ion, ess O unity ifica and ness Deve		5(	D	Nill	
	Bus Mode	iness 1 Deve ment								
2019	Bus Mode lor Py	iness 1 Deve	Nill		30/08/2019	31.	/08/2019	40	0	Nill
2019 2020	Bus Mode log Py rogr I Mana forI ior	iness 1 Deve ment thon P	Nill		30/08/2019 23/01/2020		/08/2019 /01/2020	40	-	Nill

0000	<del></del>	,	27411			<del> </del>		<u> </u>	62	2	27411		
2020	Techr es	uptive nologi s Of	Nill		5/2020	03/	/06/20	20	63	0	Nill		
		ustry 4.0	I										
2020	Inter	vances in rnetof ings	Nill		5/2020	02,	/06/20	80		9	Nill		
J	<u> </u>			<u> </u>	w File	 :							
6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year													
Title of the professiona developmer programme	al nt		of teachers attended	From	Date		To	o date	e		Duration		
Introduct to Data Scie			1	07/0	4/2020	)	07/	/04/	2020		1		
Engineer: Education Industry: Post COVID Perspection	the A 0-19		1	01/0	06/2020	)	05/	/06/2020		05/06/2020		5	
Swift(ic Programmin Language	.ng		1	12/0	5/2020	)	16/	/05/	5/2020		5		
Data Scie	ence		5	26/0	5/2020	C	30/	/05/	2020		5		
Moodle Learning Managemen System (LM	g nt		1	13/0	95/2020	)	17/	/05/	2020		5		
Data Analytics Present Fut	s		1	11/0	5/2020	)	15/	/05/	2020		5		
R Program	ming		1	27/0	4/2020	)	02/	/05/	2020		6		
LaTeX	]	L	1		4/2020		04/	/05/	2020		6		
					w File								
5.3.4 – Faculty a				permanent re	ecruitme	∍nt):							
		Teaching						Non	n-teaching	-			
Perman 62			Full Tim			Perr	manent			Fu	II Time		
62 3.3.5 – Welfare s					<u> </u>		4/				4/		
				Non to									
Fr. Agne Society		operati idental		Non-tea r. Agnel o ociety ,A Insur	co-ope						e Nill		

#### 6.4 – Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each)

Internal Audit: In any organisation, financial transactions need to be scrutinised by a team of internal auditors. Financial transactions may be broadly classified as follows: Purchase of material Examination remunerations Honorarium to invited guests and/or technical experts or otherwise. Miscellaneous remunerations. As per the guidelines set by management internal audit is carried. Guidelines issued by the management may be as follows: When a purchase is to be done, an indent is prepared and submitted to purchase department with approvals from principal as well as management. Purchase department in turn gets three quotations from different vendors and finalises one for purchase. Accordingly purchase order is prepared and mailed to the vendor finalised. Once the material is received, it is delivered to the respective section from where indent was done after store entry formalities. Now the bill is sent for approval through the internal auditor. Internal auditors team in turn scrutinise all these formalities being executed and then approves it fro for final approval by management. Thus the bill is processed. Examination remunerations like remuneration to internal and external examiners during practical and oral examinations, remuneration to faculty for assessment as well as moderation of theory papers, remuneration to invigilators, senior supervisors, chief conductors is paid as per the university guidelines. A consolidated bill is prepared showing all the details of remuneration and sent for auditing. Internal auditors in turn audit any discrepancies and approve it which in turn is approved by management. While paying honorarium to invited guests or technical experts, a pre-approved budget is considered. A consolidated list of such experts and their honorarium is prepared and is audited by auditors as usual. All miscellaneous expenses are also dealt in a manner explained above. External Audit: An external auditor is appointed by the college to audit the financial statements of the college. The financial records of the College are audited at the end of each financial year and are certified . These are also available in the college web -site.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals		Funds/ Grnats received in R	s.	Purpose						
Individua	ls	127764		ose Mentioned in the sheet						
<u>View File</u>										
4.3 – Total corpus fund	generated									
		127764								
5 – Internal Quality As	ssurance Sys	tem								
5.1 – Whether Academi	c and Administ	rative Audit (AAA) has been do	one?							
Audit Type		External	Ir	nternal						
	Yes/No	Agency	Yes/No	Authority						
Academic	Yes	Experts from other colleges	Yes	Program Assessment Committee						
	No	N;11	Nill No							

Parent-Teacher Association is not available in our institute.

6.5.3 – Development programmes for support staff (at least three)

NIL

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1) IQAC Event Committee The committee constitutes five members who are Programme Coordinators of the various departments. The committee will organize the events that will be useful to faculty/staff/students in improving the quality of education. The committee plans to organize the following events: • Workshops - two workshops in an academic year • Seminars - four to five seminars in an academic year • Mini project competition - end of each semester 2)Student Quality Circle (SQC): Objective: To improve and enrich quality of education and enhance student life with varied and invigorating experiences SQC was formed comprising of Faculty Incharge and 5 student representatives. The objective of SQC was to improve and enrich quality of education enhance student life with varied invigorating experiences. Meeting was conducted with the student Representatives and following points were discussed. 1.To increase self confidence 2.To develop positive attitude. 3.Time management skills 4.Scientific Problem solving skills 5.Improve the communication and Presentation skills 6.Improve Creativity and lateral Thinking It was decided to take SWOT analysis from students .This SWOT analysis would help us to identify the students strength's and Weakness .This information gathered from every student would assist us to guide the Students accordingly. Example motivate the Weak students, and Strong students by giving them Moral support through proper guidance and counselling.

6.5.5 – Internal Quality Assurance System Details					
Yes					
Yes					
Nill					
Yes					

6.5.6 - Number of Quality Initiatives undertaken during the year

	, , , , , , , , , , , , , , , , , , ,	9	, ,		
Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Hackathon	31/08/2019	31/08/2019	31/08/2019	100
2019	Software Design Workshop	23/09/2019	23/09/2019	23/09/2019	125
2019	Design Thi nking/Ideati on	23/09/2019	23/09/2019	23/09/2019	100
2019	Design Thinking	03/10/2019	03/10/2019	03/10/2019	72
2019	Advanced Deep Learning Workshop	20/12/2019	20/12/2019	24/12/2019	61
2020	Idea Competition	22/01/2020	22/01/2020	22/01/2020	69
2020	Internship	29/02/2020	29/02/2020	29/02/2020	Nill

		Ехро 20205				
	2020	Women in E ntrepreneurs hip	12/04/2020	12/04/2020	12/04/2020	105
	2020	IIC- National Innovation contest - Prototype Submission	06/06/2020	06/06/2020	27/06/2020	10
	2019	Business Model	05/08/2019	05/08/2019	05/08/2019	65
I			View	/ File		

## **CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

#### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
International Women's Day Celebration	13/03/2019	13/03/2019	45	25
Self Defence Workshop	06/03/2019	06/03/2019	10	10

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Fr. Conceicao Rodrigues College of Engineering has taken a Conscious decision to go ahead with this go green project to begin with for 40 KWp roof top Solar Power. ? Solar electricity is being clean (pollution free), silent, limitless and free. ? Generate electricity using photovoltaic solar cells. ? Approved by Maharashtra Energy Development Agency (MEDA) (Govt. of Maharashtra Institution) ? On-line monitoring procedure for the actual energy generation and the pattern 1) Alternate Energy Initiatives such as Solar Energy. 2) Total Annual power requirement. 2,35,474 KWH. 3) Renewable Energy Source. Solar PV Plant. 4) Annual power requirement met by the renewable energy sources (in KWH) -27,458. 5) Percentage of annual power requirement of the Institution met by the renewable energy sources. 11.60. Use of LED bulbs 1) Annual lighting power requirement (in KWH) 96,252. 2) Annual lighting power requirement met through LED bulbs (in KWH) 9852. 3) Percentage of annual lighting power requirements met through LED bulbs 10.235. Use of Tube lights 4) Annual lighting power requirement (in KWH) 96,252. 5) Annual lighting power requirement met through Tubelights (in KWH) 86,400. 6) Percentage of annual lighting power requirements met through LED bulbs 89.76.

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	Nill
Scribes for examination	Yes	1

Prov	ision for l	ift	Y	es		Nill	
4 – Inclusi	on and Situated	dness					
Year	Number of initiatives to address locational advantages and disadva ntages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number o participatin students and staff
2020	1	Nill	01/02/2 020	1	ANNUAL SPORTS DAY	Non Ava ilibilty of ground	200
2020	1	Nill	17/02/2 020	3	ANNUAL DAY	Non Ava ilibilty of Audito rium	200
2019	Nill	1	08/07/2 019	1	Mission Blue Seminar	Awareness about ocean and marine life	100
2019	Nill	1	22/06/2 019	1	Climate Change Seminar	Awarness about Climate change	80
2019	Nill	1	21/08/2 019	1	Bottles for change seminar	Awarness about the importanc e of recycling plastic	70
2019	Nill	1	22/08/2 019	1	Kolhapur Flood Relief Donation	The college collected and donated e ssentials	120
2019	Nill	1	19/09/2 019	1	GANPATI VISARJAN CLEANUP	Awarness cleanline ss and pr eserving the envir onment	60
2019	Nill	1	21/09/2 019	1	Beach Cleanup	Awarness of beach cleanup	40
2019	Nill	1	28/11/2	1	HAPPY	To help	35

		019		HOURS STALL	the physi cally cha llenged people by selling their product	
2019 Nill	1	08/09/2 019		BANDRA FAIR VOLU NTEERING	Partici pated in the Bandra fair volu nteering cum crowd managemen t for the entire week.	60
			<u>r File</u>			
7.1.5 – Human Values and Pr	ofessional Et		•			
Title Code of Conduct Se		Date of pu	ublication		ow up(max 100 The Code of	,
Rules				webs comm adhere Condu orgar ethi stu admini staff prog	displayed ite 2. The nittee to mence to the nice to the nices profe cs program dents, tea strators a 4. Annual rammes on uct are or	re is a nonitor code of citution essional mes for chers, and other awareness Code of
7.1.6 – Activities conducted fo	or promotion of	of universal Val	ues and Ethics			
Activity	Duratio	on From	Duratio	on To	Number of p	participants
Fr. Conceicao Rodrigues memorial debate	27/0	09/2019	28/09	9/2019		32
Blood donation drive	28/0	08/2019	28/08	3/2019	2	00
Blood donation drive	28/0	01/2020	28/01	L/2020	2	00
		<u>View</u>	<u>/ File</u>			
<ul> <li>7.1.7 - Initiatives taken by the</li> <li>1. Restricted entry</li> <li>3. Pedestrian Fried</li> </ul>	of automo	biles 2. Us	se of Bicyc on use of	les/ Batte	ry powered	
			-			
.2 – Best Practices						

Best Practices 1: Title: Project based learning Objectives: 1. To improve the ability to apply theory to practice: By executing the projects, students will be able to see the applicability of the learned theories which results into enhanced understanding of the theory concepts. 2. To improve the practical skills of the student: Students will be able to get the training on using the latest tools and methodologies to develop applications. 3. To impart skills to identify research problems: While doing the project, students are forced to read the latest research papers. so there is a high probability that the students will be able to identify new research problems. The Context: In engineering education, the theoretical concepts are being imparted through class room lectures and the laboratory skills in the dedicated laboratories. Unfortunately, the enough practical knowledge is not gained due to limited time

available to impart practical skills. The issue of imparting practical education becomes unmanageable due to diversity of the students. As a result, the students are not getting expected practical and system development skills. The industry also feels that that the level of practical skills exposed to the students is not up to the desired level. Human resources with sufficient system development and practical skills are imperative for accelerating India's growth potential. So it is very necessary to impart skill based education to current

and next generation students by developing institutes to impart skills. At FrCRCE, we are striving to impart skills through project-based training. The Practice : The faculty members identify suitable research projects carrying out cutting edge research. The research environment with PhD program will enable project based learning. Evidence of success (Impact): The project-based

learning enables students to participate in several technical events/competitions such as Hackthon, Formula Racing Car, Mavricks, Vaayushatra, E-yantra etc. Problems encountered and resources required (Issues): If not implemented seriously, it will create a negative impact: The project-based learning should be taken seriously by faculty and students. The institute should have a research environment. Our college has set high quality teaching as the main goal for the institute. Based on the feedback from students and faculty, project-based learning has implemented smoothly. The project-based learning increases academic load on the faculty. Best Practices 2: Title: Empowering Employability skills. Objective: To enhance and empower

quantitative and qualitative aptitude of the students for effective employability by providing proper training which is required for the placements so as to make them sound not only technically but also a versatile personality by understanding the needs of industries. Context: A professional course like engineering strives to get maximum number of its students placed through campus interviews. The increasing competition makes it imperative that apart from regular degree certain skills are required by engineers. Industries while advertising for various posts even mention essential skills required along with the essential qualification. Various companies involved in the Placement drives in the institute had given the feedback that despite, the student being technically sound, he should be properly trained for the skills which are required for the placements recognizing the need, the student undergo internship with different industries. Regular industry interaction meet which involved a thorough discussion and interaction with HR's of various company have helped us to understand the need of having student exposure to the recent technologies. In this context the institute has signed several MOU with different industries. The practice: As part of institute initiative we conduct various programmes to promote the employability skills of our students. We try make their technical skills are updated and communication and soft skills are in place. In this regard we conduct Career Guidance Seminars - a Seminar on Improving Employability Skills, and a training on Aptitude and Soft Skills Development - a Seminar on "How to prepare for an Interview", a Training programme on "Aptitude and Soft Skills Training". In order to provide

information on higher education development, we also conduct short-term

programmes on Education Abroad. It has been our constant endeavour to make sure our students are updated and possess all the necessary skills that make them technologist. Fr. CRCE facilitates the process of placement of students passing out from the Institute besides collaborating with leading organizations and institutes in promoting internship and training program of students. The Training Placement Office provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics. The Office interacts with many industries in the country, of which nearly 30 companies visit the campus for holding campus. Having the vision of the institute that our students are a class apart and we constantly work hard to motivate our students and to make sure they are upto the requisite industry standards. Evidence of success (Impact): As a result of the highly focused and continuous efforts of the TPO cell, every year almost all eligible students are placed. Many students also fetch multiple placements offers. Problems encountered and resources required (Issues): One of the most serious challenges that students encounter is a lack of interest in their studies. The student anticipates a big salary, but they rarely put out the effort to achieve it instead, they focus on their dreams, ignoring their education and refusing to work hard for it. Students who do not assess their own skills have a significant tendency to over-expect themselves.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://fragnel.edu.in/index.php/students/placements/campus-placement-overview

#### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Our goal is to develop lifelong learners who have outstanding transferrable skills and appropriate graduate qualities in addition to higher level academic talents. Problem-based learning, experiential learning, collaborative learning, group discussions, and public speaking have all been found to be useful in moulding a fledgling engineer into a versatile individual. These activities are beneficial not only to academic learning, but also to students moral and civic participation. To help and minimize the impact of the coronavirus outbreak on students, the Coursera community had launched a global effort to assist universities and colleges to deliver courseware online. As part of this programme Coursera and EDx E-Learning platforms had offered free subscriptions for Faculty and students to enrol for the courses offered under their curriculum. Fr.CRCE entered into a partnership agreement with Coursera and EDx for Enhanced Learning to make our students more industry ready and skills relevant. Our college had applied and received 800 subscriptions for the Coursera for campus programme and 500 subscriptions as part of EDx programme, which benefited students and faculty in upgrading their knowledge with the latest curriculum in their respective areas. To encourage student participation in the certification programmes they were given considerations while teamwork evaluations.

Provide the weblink of the institution

http://fragnel.edu.in/index.php/students/forums

#### 8.Future Plans of Actions for Next Academic Year

Future Plans: Plans to improve placement: • Some students do not fit in the placement eligibility criteria set by select employers. It is necessary to improve such students' academic performance by closely monitoring their academic performance, guiding and encouraging them so that their performance level is raised. • Students from Electronics and Production Engineering prefer placement

in their core domain. As of today, only few core domain companies visit for campus placement. We plan to identify and invite potential core companies in manufacturing and electronics domains. • Encourage students to participate in technical competitions and project contests. • Student council and professional institute student chapters will focus on organizing programs that facilitate allround development of students. • Provide training in soft skills and niche technical areas as per industry requirements. Plans to improve entrepreneurship: The number of startups /entrepreneurial ventures need to be pushed up. Following steps will be taken to create an entrepreneurship culture in campus: o Identifying probable entrepreneurs from amongst the students, preferably from first and second years, encouraging and training them to take up entrepreneurship and providing facilities to develop marketable product. o Organizing workshops for promoting entrepreneurship o Organizing idea competitions o Developing incubation center in campus Plans to improve national rankings such as NIRF: • Need to improve public perception through social media and interactions with the outside world. • Need to improve the numbers of quality research publications: o Policy will be formalized regarding research publications - for annual appraisals and promotion. o Encourage faculty and students to publish their research work in reputed Journals / present the same at distinguished National/International conferences. o Educate faculty and students to update their research profiles on citation databases like Scopus, Google Scholar etc.