



**FR. CONCEICAO RODRIGUES COLLEGE
OF ENGINEERING**

(Affiliated to the University of Mumbai & Approved by the AICTE)

FR. AGNEL ASHRAM, BANDRA (W), MUMBAI 400 050.

**PROSPECTUS
2011-2012**

MASTER'S DEGREE PROGRAMME

IN

1. ELECTRONICS ENGINEERING
2. MECHANICAL ENGINEERING
(CAD/ CAM with Robotics)

* Provisional subject to AICTE approval.

FR. CONCEICAO RODRIGUES OF ENGINEERING

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

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'Fr. Conceicao Rodrigues College of Engineering' was established in the year 1984 by the Society of St. Francis Xavier, Pilar (Fr. Agnel Fathers) – pioneers in the field of Technical Education in India.

PROGRAMMES OFFERED

Programme	Discipline	Sanctioned Intake	Year of starting
Undergraduate (B.E.)	Production Engineering	60	1984
	Electronics Engineering	60	1987
	Computer Engineering	60	1991
	Information Technology	60	2001
Postgraduate (M.E.)	Electronics Engineering	18	2005
	Mechanical Engineering [Spl: CAD/CAM & Robotics]	18	2005

TOTAL INTAKE: 276 [UG : 240 and PG : 36]

The College is affiliated to the University of Mumbai and is approved by the All India Council of Technical Education. The Directorate of Technical Education – Government of Maharashtra, has awarded 'Grade A' to the institute.

Fr. CRCE is one of the most sought after institutes in Mumbai and Maharashtra. Few of the salient features of the institute are as under :

- Excellent computational facility with 3 mbps internet connectivity.
- Qualified staff with Research and Industrial experience.
- World Class Lab setup with CNC Machines, CAD/CAM Centre, and Laboratories with latest equipments in Embedded Systems, VLSI, Communications and Robotics.
- E-Access to 5000 + Journals through INDEST-AICTE and J-gate.
- Vast Alumnibase network all through the world.
- Organisation known for transparency, honesty and commitment.

GOVERNING COUNCIL :

Sr	Name of the member	Nominee of	Designation
1	Rev. Fr. Saturnino Almeida	Chairman- The Society of St. Francis Xavier, Pilar.	Chairman
2	Rev. Fr. F. Diniz	Management's Nominee	Vice Chairman
3	Rev. Fr. Victor Rebello	Management's Nominee	Director
4	Dr. H. J. Nain	Management's Nominee	Director – Bombay Electronics Pvt. Ltd.
5	Mr. P.R. Bapat	Management's Nominee	Technical Director – M/s. Guest Keen Williams Ltd.
6	Mr. R.S. Kenkre	Management's Nominee	Ex-Joint Director of Technical Education
7	Dr. P.K. Sahoo	AICTE – Western Regional Office	Regional Officer- AICTE
8	Dr. Suhas Pednekar	University's Nominee	Principal, Ramnarain Ruia College, Mumbai
9	Dr. S.K. Mahajan	D.T.E.'s Nominee	I/c. Director of Technical Education
10	Dr. R. Sessa Iyer	State Govt.'s Nominee	Director – S.P. Jain Institute of Management & Research and Ex-Principal – Fr. CRCE
11	Mr. P.N. Jumle	Board of Apprenticeship's Nominee	Director, Board of Apprenticeship & Training
12	Dr. Munshi Srinivas	Faculty Member (Professor Level)	Professor & HOD Production Engineering Dept.
13	Ms. Merly Thomas	Faculty Member (Associate Professor Level)	Associate Professor Computer Engineering Dept.
14	Dr. Srija Unnikrishnan	Member – Secretary	Principal – Fr. Conceicao Rodrigues College of Engg.

FACULTY MEMBERS – ELECTRONICS ENGINEERING (P.G.)

	NAME	DESIGNATION	EXPERIENCE	QUALIFICATIONS
1.	Dr. (Mrs.) Srija Unnikrishnan	Principal	28 Yrs	Ph.D (Electrical Engg.) M.E. (Elec. & Comm.) B.Sc.Engg.(Elec. & Comm.)
2.	Mr. B.R. Prabhu	Professor	22 Yrs	M.Tech. (Incl. Electronics) B.E. (Electrical)
3.	Mr. D.V. Bhoir	Associate Professor & I/c. HOD	19 Yrs	M.E.(Electronics) B.Tech.(Electronic Instrm.) B.Sc.(Physics) Pursuing Ph.D
4.	Mr. K. Narayanan	Associate Professor	24 Yrs	M.E. (Electrical) B.Tech.(Electrical)
5.	Mrs. Sapna Prabhu	Associate Professor	18 Yrs	M.E.(Electronics) B.E.(Electronics) Pursuing Ph.D
6.	Mrs. Jagruti Save	Associate Professor	13 Yrs	M.E.(Computer) B.E.(Computer)
7.	Mrs. M.T. Khanore	Associate Professor	15 Yrs	M.E.(Electronics) B.E.(Electronics)
8.	Mrs. Shilpa J. Patil	Associate Professor	15 Yrs	M.E.(Power Systems) B.E.(Electrical)
9.	Mr. Sunil K. Surve	Associate Professor	24 Yrs	M.E. (Electronics) AMIE (Electronics & Telecomm.) B.Sc. (Physics) Pursuing Ph.D.
10.	Mrs. Swapnali Mahadik	Assistant Professor	11 Yrs	M.E.(Electronics) B.E.(Electronics)
11.	Mrs. Ranjushree Pal	Assistant Professor	08 Yrs	M.E.(Electronics & Telecomm.) B.Tech.(Radiophysics & Elec.)

FACULTY MEMBERS – MECHANICAL ENGINEERING (P.G.)

NAME		DESIGNATION	EXPERIENCE	QUALIFICATIONS
1	Dr. Munshi Srinivas	Professor & H.O.D.	20 Yrs	Ph.D (Fracture Mechanics) M.Tech (Machine Design) B.E (Mechanical)
2	Mr. V. Mohandas	Professor	29 Yrs	M.E. (Production) B.Sc. Engg. (Mechanical)
3	Mr. T.S. Venkatesh	Associate Professor	26 Yrs	M.E.(Mechanical) B.E. (Mechanical)
4	Mr. B. J. Desai	Associate Prof. / Workshop Supdt.	9 Yrs	M.Tech. (Mechanical) B.E. (Mechanical)
5	Mr. D.S.S. Sudhakar	Associate Professor	23 Yrs	M. Tech. (Mechanical) B.Tech. (Mechanical) Pursuing Ph.D
6	Mr. V.S. Jorapur	Associate Professor	21 Yrs	M.E.(Production) B.E. (Mechanical) Pursuing Ph.D
7	Mr. V.S. Bilolikar	Associate Professor	16 Yrs	M.E.(Production) B.E.(Production) Pursuing Ph.D
8	Dr. Siddesh D.S	Assistant Professor	16 Yrs	Ph.D (Mechanical) M.E.(Production Mgmt.) B.E. (Indtl. Production)
9	Mr. Arun Rane	Assistant Prof. (Trg. & Placement Officer)	16 Yrs	M.E.(Production) A.M.I.E. (Mechanical)

In addition, the college has a panel of experts from the industry to conduct sessions in specialized areas.

POST GRADUATE DEGREE (M.E.) COURSES IN ENGINEERING

QUALIFYING EXAMINATION :

FULL TIME COURSES :

(i) **M.E. – Electronics Engineering**

The candidate should have passed B.E. or equivalent Degree* in the branch of:

Electrical Engineering	or
Electronics Engineering	or
Electronics and Telecommunication Engineering	or
Instrumentation Engineering	or
Computer Engineering	or
Power Electronics	

The candidate should have obtained a minimum of 50% aggregate marks in the Qualifying examination. (45% marks in case of candidates of Backward Class Categories belonging to Maharashtra State only).

(ii) **M.E. – Mechanical Engineering (CAD/CAM with Robotics)**

The candidate should have passed B.E. or equivalent Degree* in the branch of:

Mechanical Engineering	or
Automobile Engineering	or
Production Engineering	or
Machine Tool Engineering	

The candidate should have obtained a minimum of 50% aggregate marks in the Qualifying examination. (45% marks in case of candidates of Backward Class Categories belonging to Maharashtra State only).

***Candidates who have passed Section A and B examination conducted by the AMIE & AMIETE and qualified at the GATE examination will be deemed eligible for admission to Master of Engineering Degree Course in the specified branch in which they have passed.**

RULES FOR ADMISSION TO POST GRADUATE DEGREE (M.E.) COURSES IN ENGINEERING – FULL TIME

(These rules are approved vide G.R. No. TEM 2011/(64/2011)/TE-4 dated 10th May 2011 issued by the Higher and Technical Education Department, Mantralaya Annexe, Mumbai-400 032)

1.0 General

Courses and Intake

- These rules shall be applicable for Admission to Full time Post Graduate programs in Engineering/Technology (M.E./M.Tech.) in all AICTE approved Government, Aided, Autonomous, Unaided Colleges in Maharashtra State.
- Structure, syllabus, examination scheme and duration of these programs will be as prescribed by the concerned University.
- The intake to various courses will be as approved by All India Council of Technical Education(AICTE), Govt. of Maharashtra and concerned University from time to time. The AICTE shall communicate to the respective Institute and State Government the approved new institutes and the changes in sanctioned intake for the existing institutes on or before 30th June of the respective year of Admission. If AICTE fails to communicate the approvals on or before 30th June of the respective year of Admission, the Institute/State Government shall proceed with admissions on the basis of the Sanctioned intake capacity for the Engineering institutes as it was during the previous year.

NOTE:- Valid GATE Score means it must satisfy two conditions: One is valid time period and qualifying marks. Both of these conditions should be satisfied to apply for admission to M.E. / M.Tech. The Qualifying Score is the minimum mark that needs to be secured to become eligible for availing assistantships provided by AICTE/MHRD/GOI from time to time.

2.0 Competent Authority for Admissions

The Head of Institute, Principal/Director as the case may be, shall be the Competent authority for granting admissions to Post graduate courses in each institute and shall be responsible for observance of the rules, Procedures etc., prescribed in these rules or as notified by Government/Directorate from time to time

Head of Institute shall issue advertisement for admission to Post graduate courses offered in his/her institute. He/She will call for applications, conduct Written Test/ Interview/Viva-Voce (if required), publish merit list, notify schedule of admissions and effect admissions as prescribed in these rules.

3.0 Admissions of Sponsored category candidates

- 3.1 Seats Available:** 05 seats in each specialization of Engineering/Technology (irrespective of sanctioned intake as per AICTE)

3.2 Eligibility for Admission:

Candidate should be an Indian National and who possess Bachelors degree or equivalent in the relevant field of Engineering/Technology, specified by the concerned University for admission to a particular Post graduate course from an AICTE approved institutions, with at least 50 % marks (at least 45% marks in case of candidates of Backward class categories belonging to Maharashtra State only)

and

The candidates must have minimum of 2 years of full time work experience in a registered firm/company/industry/educational and/ or research institute/ any Government Department or Government Autonomous Organization in the relevant field in which admission is being sought.

NOTE:

- Only those candidates who at the time of admission are employed in a registered firm/company/industry/educational and/ or research institute/any Government Department or Government Autonomous Organization in the relevant field will be eligible for claiming seats against sponsored category.
- A letter from the employer must be furnished stating that the candidate is being sponsored to seek admission to the post graduate degree program. The employer should also indicate that the candidate will not be withdrawn midway till the completion of the course. The candidate will be fully under the administrative control of the Institute for the entire period of the course.

3.3 Reserved Seats:

No reservation is provided in the sponsored category.

3.4 Admission Procedure :

Admission to Sponsored candidates shall be given in following order:

1. Round 1-A :

Candidates will be admitted on the basis of Valid GATE score.

The seats remaining vacant at the end of Round 1-A shall be filled in Round 1-B

2. Round 1-B:

The Written Test and Interview/viva-voce shall be conducted by a panel of 03 teachers in the branch.

The syllabus for the Written Test shall be as prescribed by the concerned institute / University (at par with GATE examination).

Candidates will be admitted on the basis of Total Performance # (Written Test + Interview / Viva-voce) conducted by the Competent Authority.

Candidates should appear for both Written Test and Interview / Viva-voce and secure minimum 40 marks out of 100 in Total Performance calculated as follows :

(i) Written Test	Maximum 70 marks
(ii) Interview / Viva-voce	Maximum 30 marks

Total Performance: 100 Marks

If the total performance of the candidates are comparable, then the preference shall be given for admission to the candidates on the basis of total marks in qualifying degree examination (i.e. B.E./B.Tech.)

The date and time of the Written Test and the admission program will be notified by the concerned Institutes.

The seats remaining vacant (if any) in Sponsored category seats at the end of Round 1-B shall be offered to Non-Sponsored candidates in next Round (i.e. Round-2).

3.5 Stipend/Scholarships:

Sponsored candidates will not be eligible for any stipend/scholarship.

4.0 Admission of GATE qualified Non-sponsored category candidates.

4.1 Seats Available: Sanctioned intake as per AICTE in each specialization of Engineering/Technology – (*minus*) Sponsored category seats filled in Round 1-A and Round 1-B.

4.2 Eligibility:

Candidate should be an Indian National and who possess Bachelors degree or equivalent in the relevant field of Engineering/Technology, specified by the concerned University for admission to a particular Post graduate course from an AICTE approved institutions, with at least 50 % marks (at least 45% marks in case of candidates of Backward class categories belonging to Maharashtra State only)

And

Candidate should have a valid GATE score in relevant branch of Engg / Technology.

4.3 Reserved Seats: Reservations shall be followed as given below:

4.3.1 Reservation for Physically handicapped Candidates:

As per the provisions in Clause 39 of Equal Opportunities, Protection of Rights and Full Participation Act, 1995, three (3 %) per cent seats of total sanctioned intake capacity of each PG program excluding seats filled by Sponsored candidates shall be reserved for physically handicapped candidates. These seats shall be within the sanctioned intake of the institute and reserved only for Maharashtra State domiciled candidates.

Out of the three percent reservation for physically handicapped candidates:

- PH-1 : Visually impaired (blind) candidates (P1)
- PH-2 : Speech & hearing impaired (dumb and deaf) candidates, (P2)
- PH-3: Candidates with orthopedic disorders and learning disabilities, Dyslexia, Dyscalculia, Dysgraphica, Spastic (P3).

Following additional Certificates are required for Physically handicapped Candidates:

The candidate shall produce a certificate, in the prescribed Proforma-F, from the Director, All India Institute of Physically Handicapped, Mumbai or Dean/Civil Surgeon of the Government / CIVIL HOSPITALS normally located at the District Headquarters, regarding his or her physical disability, and ability to undergo all parts of syllabus for the normal course. Candidates suffering from Dyslexia, Dysgraphica & Dyscalculia are required to produce certificate (Proforma-F1) issued by the 'Learning Disability Clinic, Lokmanya Tilak Municipal General Hospital, Sion, Mumbai-22'.

4.3.2 Reservation for Backward Class category Candidates:

The percentage of seats reserved for candidates of backward class categories belonging to Maharashtra State only is as per the details in table given below. The percentages of reservation are the percentages of the seats available for GATE qualified Non-sponsored category candidates.

These are the minimum percentages of reservation exclusive of the backward class candidates securing allotment through General Merit by virtue of merit. Backward class candidates shall claim the category to which they belong to at the time of submission of application form for Admission.

Sr. No.	Category of Reservation	Percentage of Reservation
1.	Scheduled Castes and Schedule caste converts to Buddhism (SC)	13.0 %
2.	Schedule Tribes (ST)	7.0 %
3.	Vimukta Jati (VJ)/De notified Tribes(DT) (NT-A)	11.0%
4.	Nomadic Tribes 1 (NT-B)	
5.	Nomadic Tribes 2 (NT-C)	
6.	Nomadic Tribes 3 (NT-D)	
7.	Other Backward Classes (OBC)	19.0%
	Total	50 %

Note:

1. Head of the Institute shall be a final authority for seat distribution.
2. The reservation for backward class candidates shall be available in Govt / Govt Aided / University Departments / University Managed Institutes /Unaided institutes.
3. A combined merit list shall be prepared for the candidates belonging to VJ/DT/NT-A, NT-B, NT-C and NT-D. This combined merit list shall be used for admission.
4. Candidates belonging to Special Backward Class (SBC) may be offered reservation up to 2% seats of sanctioned intake capacity of each PG specialization excluding seats filled by Sponsored candidates subject to condition that any seats remain vacant in the reserved category after admitting reserved category candidates.
5. Even if the candidate belonging to Backward Class Category secures admission against a seat belonging to the General category by virtue of merit, such candidate has to produce all the necessary documents in support of the category claimed both at the time of admission and while filling up of the admission form.
6. All the candidates will be required to produce a Nationality Certificate.
7. Candidates claiming to belong to backward class will be required to produce a certificate to that effect from appropriate authority in addition to Nationality Certificate. Candidates belonging to categories SC, ST, OBC, SBC, VJ/DT/NT(A), NT(B), NT(C) and NT(D) will be required to produce a Caste Certificate, Caste/Tribe Validity Certificate and valid Non-Creamy layer certificate (if applicable).

- ▶ **Nationality Certificate:-** The Certificate of Indian Nationality is a part of the Domicile Certificate, which is usually issued by the Tahshildar/Executive Magistrate/Dy. Collector of the concerned District/Taluka. In lieu of this “Certificate of Indian Nationality” following Certificates/Documents will also be acceptable –

- Indian Passport in the name of the Candidate, issued by appropriate authorities.
- The School Leaving Certificate indicating the Nationality of the Candidate as ‘Indian’.
- Birth Certificate of the Candidate indicating the Place of birth of the Candidate is within India.

If the Indian Resident Candidate fails to produce any one of the above mentioned certificate/ documents indicating Nationality then such candidates Nationality shall be considered based on the undertaking given in Proforma-I on Rs. 100 Non-Judicial Stamp Paper at the time of submission of Application form for admission.

▶ **Caste Validity Certificate:-**

Candidates belonging to SC, ST, VJ/DT NT (A), NT (B), NT(C), SBC and OBC category are required to produce Caste Validity Certificate at the time of filling of the online application form. However such candidates who are unable to produce the caste validity certificate may produce the same on or before 30th November 2011. If a candidate fails to submit the required Caste Validity Certificate upto 30th November 2011 then such candidate shall not be eligible for taking benefits of respective category, if any. If the Candidates are not able to submit the caste/Tribe Validity Certificate then they are required to submit the Undertaking in Proforma-H at the time of submission of application form for the Admission.

▶ **Non-Creamy Layer Certificate:-**

A candidate belonging to ‘Creamy Layer’ amongst the categories SBC, V.J./D.T./N.T.(A), N.T.(B), N.T.(C), N.T.(D) and O.B.C. must note that the provision of reservation is NOT applicable to him/her. A candidate claiming benefit of reservation under the categories SBC, V.J./N.T.(A), N.T.(B), N.T.(C), N.T.(D) and O.B.C. will be required to produce “Non-Creamy Layer Certificate” in the name of the candidate as specified in the Government Resolution No. CBC/10/2008/CR- 697/BCW-5, dated 27th February 2009 or its updated versions from time to time. The certificate must be valid upto 31st march 2012.

4.4 Admission Procedure

Admissions will be effected according to Merit-List prepared on the basis of valid GATE score in the respective branch only. GATE score of one branch will not be valid for admission to another branch.

4.4.1 Rounds of Admission for GATE qualified Non-Sponsored Candidates:

There shall be only one round (i.e. Round-2) of admission for GATE qualified Non-Sponsored Candidates to PG programs in Engg / Technology.

4.4.2 Logic for admission for Round-2 :

Round - 2-A:

(For All the Candidates including all the Backward category and Physically handicapped (PH) candidates)

Eligible candidates: All the candidates of all the categories (General/ Backward/ PH) as per merit list will be considered for admission as per their inter se merit.

General notes:

- Backward class category candidates shall be admitted in General category by virtue of their merit OR in their respective category of reservation, if General category seats are not available as per their merit.
- SBC category candidates shall be admitted in General category by virtue of their merit OR in their original category of reservation, if General category seats are not available as per their merit.
- PH category candidates shall be admitted in PH category OR in General category by virtue of their merit as per following order.
 1. Seats reserved for PH category
 2. The seats in General category.

Round - 2 -B:**(For Special Backward Class (SBC) category candidates)**

Eligible candidates: All candidates belonging to Special Backward class as per their inter se merit.

Seats available: On completion of Round - 2-A, if any of the Backward class categories do not get the required number of candidates for the percentages laid down, the seats so remaining vacant shall be filled in from amongst all the candidates of Special Backward Class (SBC) category, as per their inter se merit, limited to the extent of Two percent seats of sanctioned intake of each specialization of Engg / Technology.

Round - 2-C:**(For respective Group 1, and 2 of Backward class category candidates)**

Eligible candidates: All Backward class category candidates as per merit list as per their group inter se merit.

Seats available: On completion of Round - 2-B, the seats remaining vacant in the respective group of backward class categories as mentioned below shall be offered to candidates from the respective group with reference to their inter se merit, for each of the group.

Group 1:

- I. Scheduled Castes and Scheduled Castes converts to Buddhism (SC)
- II. Scheduled Tribes including those living outside the specified areas (ST)

Group 2:

- I. VJ/DT/NT(A), NT(B), NT(C) and NT(D)
- II. OBC

Round - 2-D:**(For All Backward Class Category Candidates)**

Eligible candidates: All Backward category candidates as per the inter se merit.

Seats available: The seats remaining vacant in Backward class categories after completion of Round - 2-C, shall be made available to the candidates of all the Backward class categories together on the basis of the inter se merit.

Round - 2-E:

(All the candidates including Backward class candidates as per General Merit)

Eligible candidates: All the candidates (General/ Backward) of all the categories as per their General inter se merit.

Seats available: After completion of Round - 2-D, the seats remaining vacant in Reserved categories / General (if any), shall be filled with reference to inter se merit of all the candidates together.

General Note:

If a candidate is unable to produce original certificates at the time of his/ her admission on account of admission already secured to some other institution, he/ she shall **produce a certificate from the Head of the Institution** where he/ she has already taken admission indicating that he/ she has been admitted to a particular course in that institution on a particular date and hence original certificates have been retained in that institution. The candidate shall produce the attested copies of the certificates duly attested by the Head of the concerned institution. Such candidates shall be required to pay the fees immediately at the time of admission and such candidates shall **be permitted to submit the required original certificates within 4 working days at the respective Institute where the Candidate has been admitted after the date of payment of fees.**

4.5 Stipend/Scholarships:

A limited number of scholarships are available for each course at some Institutes from AICTE funds. These scholarships will be offered to the GATE qualified candidates only, strictly on the basis of GATE score MERIT and continue to receive the same, provided they fulfill the conditions prescribed by AICTE/Institute, from time to time

For receiving Post Graduate scholarship a candidate must have qualified in GATE. However, a GATE qualified candidates does not automatically become eligible to receive a scholarship.

5.0 Admission of Non-GATE and Non-sponsored category candidates

5.1 Seats Available: When enough GATE qualified candidates in the respective branch are not available, the vacant seats shall be offered to the non-GATE candidates, as per merit, on the basis of Total Performance# (Written Test + Interview / Vivavoce) conducted by Competent Authority.

5.2 Eligibility:

Candidate should be an Indian National and who possess Bachelors degree or equivalent in the relevant field of Engineering/Technology, specified by the concerned University for admission to a particular Post graduate course from an AICTE approved institutions, with at least 50 % marks (at least 45% marks in case of candidates of Backward class categories belonging to Maharashtra State only)

And

Candidate should have minimum 40 % marks in Total Performance# (i.e. Written Test + Interview / Viva-voce) conducted by Competent Authority.

5.3 Reserved Seats: No reservation is provided in Non-GATE and Non-sponsored category.

5.4 Admission Procedure:

The Written Test and the Interview/viva-voce shall be conducted by a panel of 03 teachers in the branch.

The syllabus for the Written Test shall be as prescribed by the concerned institute / University (at par with GATE examination).

Candidates will be admitted on the basis of Total Performance# (Written Test + Interview / Viva-voce) conducted by Competent Authority.

Candidates should appear for both Written Test and Interview / Viva-voce and secure minimum 40 marks out of 100 in Total Performance calculated as follows :

(i)	Written Test	Maximum 70 marks
(ii)	Interview / Viva-voce	Maximum 30 marks

		Total Performance: 100 Marks

If the total performance of the candidates are comparable, then the preference shall be given for admission to the candidates on the basis of total marks in qualifying degree examination (i.e. B.E./B.Tech.)

The date and time of the Written Test and the admission program will be notified by the concerned Institutes.

5.5 Stipend/Scholarships: Non-GATE and Non-sponsored category candidates will not be eligible for any stipend/scholarship.

General Notes:- Additional round may be conducted if required. However GATE qualified candidates shall be given preference over other candidates.

6.0 Application And Documents Required :

Applications in the prescribed form attached hereto, complete in all respects should be submitted to the College Office (Principal, Fr. Conceicao Rodrigues College of Engineering, Bandra (W), Mumbai 400 050.) so as to reach the office by 5.00 p.m. of the Last day prescribed as per the Admission Notice.

The following documents should be attached with the application form :

S.No.	DOCUMENTS:
1.	Attested copy of the Qualifying Examination Degree Certificate.
2.	Attested copy of the Statement of Marks obtained at B.E. or the equivalent qualifying examination (all Semesters)
3.	Valid Gate Score Certificate
4.	Institute Leaving/Transference certificate from the previous college

S.No.	DOCUMENTS:
5.	Provisional Eligibility Certificate * obtained from University of Mumbai (to be applied through the College at the time of admission) *Applicable to the candidates who have obtained their B.E. Degree from Universities other than the University of Mumbai
6.	Migration Certificate* obtained from the university where B.E. degree is obtained. *Applicable to the candidates who have obtained their B.E. Degree from Universities other than the University of Mumbai
7.	Caste certificate, Caste validity certificate and Non-Creamy Layer Certificate as applicable for candidates belonging to Backward Class Category
8.	Sponsorship Letter for Sponsored candidates
9.	Work Experience certificate/s for Sponsored candidates.
10.	Certificate of Indian Nationality <u>OR</u> Indian Passport in the name of the Candidate <u>OR</u> School Leaving Certificate should indicate the Nationality of the candidate as 'Indian' <u>OR</u> Birth Certificate issued by appropriate Authorities.

Original Certificates will have to be produced at the time of admission.

7.0 FEES (per annum) : Subject to approval from the appropriate authorities

1.	Interim Fees ★	Rs.83,950/-
2.	University Fees	Rs. 2,500/-
3.	Registration Fees	Rs. 825/-
TOTAL FEES :		Rs.87,275/-

In addition to the above Enrollment Fees of Rs. 220/- will be applicable to candidates with B.E Degree or equivalent from Universities other than University of Mumbai.

The Fees be paid by Pay Order drawn in favour of ' FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING'.

- ★ The Final fees to be declared by Shikshan Shulka Samiti for the Academic Year 2011-12 will be displayed on the Notice Board / Website.

8.0 Cancellation of Admission and Refund of Fees.

Fees paid by the candidate shall be refunded after deducting cancellation charges of Rs.1,000/- (Rs One Thousand only) if the seat is cancelled before cutoff date of admission. If the seat is cancelled after cut-off date of admission, proportionate fees will be deducted, if the vacant seats created due to cancellation are filled. If the vacant seat created due to cancellation is not filled, no refund shall be made.

Cut-off date for M.E./M.Tech. Admission shall be decided by Directorate of Technical Education from time to time.

9.0 Conduct and Discipline.

- Students while studying in any Engineering / Technology Institute, if found indulging in anti-national activities contrary to the provisions of acts and laws enforced by Government from time to time, any activity contrary to rules of discipline will be liable to be expelled from the institute without any notice by the Principal /Director of the institute.

- Candidates applying for admission against the seats reserved for backward classes mentioned in these Rules should note that only those candidates who actually belong to the castes and communities will be eligible for concession.
- If any of the statement made in application form or any information supplied by the candidate in connection with his/her admission is later on, at any time, found to be false or incorrect, his/her admission will be cancelled, fees forfeited and he/she may be expelled from the college by the Principal/Director and prosecuted, if deemed necessary. An appeal against the order of expulsion, however, may be referred to the Joint Director of Technical Education of respective region whose decision in such cases will be final and binding on all concerned.
- **Action against ragging: Maharashtra Prohibition of Ragging Act 1999 and Prevention and Prohibition of Ragging (Appendix 12 published in AICTE Approval Process Handbook 2011-12) and their amendments which may be published from time to time. The Maharashtra Prohibition of Ragging Act 1999 is in effect from 15th May, 1999 has the following provisions for Action against Ragging.**
 - a) Ragging within or outside of any educational institution is prohibited,
 - b) Whosoever directly or indirectly commits, participates in, abets, or propagates ragging within or outside any educational institution shall, on conviction, be punished with imprisonment for a term up to 2 years and / or penalty, which may extend to ten thousand rupees.
 - c) Any student convicted of an offence of ragging shall be dismissed from the educational institution and such student shall not be admitted in any other educational institution for a period of five years from the date of order of such dismissal.
 - d) Whenever any student or, as the case may be, the parent or guardian or a teacher of an educational institution complaints, in writing, of ragging to the head of the educational institution, the head of the educational institution shall, without prejudice to the foregoing provisions, within seven days of the receipt of the complaint, enquire into the matter mentioned in the complaint and if, prima facie, it is found true, suspend the student who is accused of the offence, and shall, immediately forward the complaint to the police station having jurisdiction over the area in which the educational institution is situated, for further action. Where, on enquiry by the head of the educational institution, it is found that there is no substance, prima facie, in the complaint received, he / she shall intimate the fact, in writing, to the complainant. The decision of the head of the educational institution shall be final.
 - e) If the Head of the educational institution fails or neglects to act in the manner specified in section “d” above when a complaint of ragging is made, such person shall be deemed to have abetted the offence and shall, on conviction, be punished as provided for in section “b” above.

Any Acts or its amendments which may be published from time to time by AICTE, Government or Judgments by Hon. Supreme Court of India, Hon. High Court of Bombay etc will be applicable to Candidates and Institutions covered under these rules of admission.

- All candidates for admission to post graduate program in Engineering/Technology are required to give the following undertaking :-
 - (a) I have read all the Rules of Admission for the current year and after understanding these rules, I have filled-in this form of application for admission for the current year.
 - (b) The information given by me in my application is true to the best of my knowledge and belief.
 - (c) I have not been debarred from appearing at any examination held by any Government constituted or Statutory Examination Authority in India.
 - (d) I fully understand that the offer of a course or branch of engineering will be made to me depending on merit inter-se and availability of a seat at the time of scrutiny of my application, when I report to the admission authority according to the schedule of admission.
 - (e) I understand that no other document, other than those attached to the application form before the last date of admission will be entertained for the purpose of claims / concessions etc. in connection with my admission.
 - (f) I understand that no refund of fees shall be made if I cancel the admission after commencement of the classes and if the seat due to cancellation is not filled.
 - (g) I hereby agree to confirm to any rules, acts and laws enforced by Government including Anti-Ragging Act and I hereby undertake that so long as I am a student of the institute, I will do nothing either inside or outside the institute, which may result in disciplinary action against me under the rules, acts and laws.
 - (h) I fully understand that the Principal / Director of the institute where I would be admitted, will have right to expel/rusticate me from the institute for any infringement of the Rules of conduct and discipline prescribed by the institute/university (if any)
 - (i) I understand that the Post-Graduate program in Engineering/Technology being a full time 2 year program, I shall not pursue any other educational degree program / and not involve in any form of employment during the tenure of this program, failing which my admission stands cancelled.

10. DURATION OF THE COURSE AND COLLEGE TIMINGS :

Duration	:	Two Years (4 Semesters)
College Timings	:	1:30 p.m. to 7:30 p.m. ; 5 working days a week.

**Scheme for M.E. (Electronics Engineering)
Four Semester Course**

**Scheme for Instructions and Examination
(Revised from Academic Year 2002-03)**

Sr. No.	Subject Title	1 hour periods / week		Duration of Paper	Marks	
		Lecture	Practical / Seminar		Theory Paper	Internal Assessment
SEMESTER I						
1.1	Discrete-Time Signal Processing & Applications	3	2	3 hrs	100	50
1.2	Micro processor & Systems I	3	2	-do-	100	50
1.3	Communication Theory	3	2	-do-	100	50
1.4	Elective I	3	2	4 hrs	100	50
1.5	Elective II	3	2	4 hrs	100	50
	TOTAL	15	10		500	250
SEMESTER II						
1.1	Process Instrumentation & Controller Design	3	2	3 hrs	100	50
1.2	Microprocessor & Systems II	3	2	-do-	100	50
1.3	VLSI Design	3	2	-do-	100	50
1.4	Elective III	3	2	4 hrs	100	50
1.5	Elective IV	3	2	4 hrs	100	50
	TOTAL	15	10		500	250
SEMESTER III						
3.1	Seminar on Special topics					50
3.2	Dissertation Seminar					50
	TOTAL					100
SEMESTER IV						
3.1	Pre-synopsis Dissertation Seminar					50
3.2	Dissertation & Viva Voce				100	100
	TOTAL				100	150
	GRAND TOTAL				1100	750

Group I Electives

- i) Digital System Design
- ii) Image Processing
- iii) Electronics in Medicine

Group II Electives

- i) Advanced Communication Theory
- ii) Modern Digital Signal Processing
- iii) Power Electronics

Elective I & Elective II to be selected from the Group I electives

Elective III & Elective IV to be selected from the Group II electives

Subject	T/W	Viva – Voice	Load / Week
Project Seminar II	--	50	1 Hour / Student
Project Viva-Voice	100	150	
TOTAL	100	150	1 Hour / Student Total :- 18 Hours

Annexure - II**COURSE M.E. (MECHANICAL – CAD/CAM) Semester I**

<i>Sr. No.</i>	<i>Subject</i>	<i>Lecture</i>	<i>Practical / Seminar</i>	<i>Duration of Examination in Hrs</i>	<i>Theory Paper (marks)</i>	<i>Internal Assessment</i>
1	Computer Aided Design	3	2	4	100	50
2	Object Oriented Methodology and Operating Systems	3	2	4	100	50
3	Mechatronics	3	2	4	100	50
4	Control Theory	3	2	4	100	50
5	Elective I	3	2	4	100	50
	TOTAL	15	10	--	500	250

COURSE M.E. (MECHANICAL – CAD/CAM) Semester II

<i>Sr. No.</i>	<i>Subject</i>	<i>Lecture</i>	<i>Practical / Seminar</i>	<i>Duration of Examination in Hrs</i>	<i>Theory Paper (marks)</i>	<i>Internal Assessment</i>
1	Fine Element Methods	3	2	4	100	50
2	Optimisation	3	2	4	100	50
3	Computer Integrated Manufacturing	3	2	4	100	50
4	Concurrent Engineering of Products and processes	3	2	4	100	50
5	Elective III	3	2	4	100	50
	TOTAL	15	10		500	250

Elective I : Software Engineering / E-Commerce and Industrial Finance / Reliability Engineering

Elective II : Robotics / Artificial Intelligence / System Dynamic Analysis

COURSE M.E. (MECHANICAL) Semester III

<i>Sr. No.</i>	<i>Subject</i>	<i>Internal Assessment</i>
1	Seminar on Thrust areas *	50
2	Dissertation Seminar	50
	TOTAL	100

COURSE M.E. (MECHANICAL) Semester IV

<i>Sr. No.</i>	<i>Subject</i>	<i>Internal Assessment</i>	<i>Oral Examination</i>
1	Pre Synopsis-Dissertation Seminar	50	
2	Dissertation and Viva Voce	100	100
	TOTAL	150	100

During III and IV Semesters, the student should work full time for each of his/her Seminar and dissertation work.

The student has to be in association with a staff member for conducting the Seminar. The student should present the Seminar in front of a Committee consisting of a faculty member of the department and has to be evaluated by the Committee.

Student Teacher contact hours for dissertation during III and IV Semester will be two hours / teacher / week.

Student Teacher contact hours for Seminar during III and IV Semester will be two hours / teacher / week.

M.E. (PRODUCTION ENGINEERING)
With Specialisation in Manufacturing Engineering

Seven Semester Part Time
Scheme of Instructions and Examinations

Sem	Code	Subject	Scheme of instruction (Hours per week)		Scheme of Examination			
			Lecture	Practical	Duration Hours	Theory	T/W	Viva- Voce
I	1.01	Material Removal Science	4	2	4	100	50	--
	1.02	Material Science	4	2	4	100	50	--
II	2.01	Manufacturing Management	4	2	4	100	50	--
	2.02	Advanced Material Joining & Sheet Metal Processing	4	2	4	100	50	--
III	3.01	Automation & Control	4	2	4	100	50	--
	3.02	Quality Management	4	2	4	100	50	--
IV	4.01	CAD/CAM/CIM	4	2	4	100	50	--
	4.02	Process Planning & Tooling	4	2	4	100	50	--
V	5.01	Economic Analysis & Manufacturing Strategies	4	2	4	100	50	--
	5.02	Elective I (any one) 1. Entrepreneurship & Project Management 2. Product Design 3. Plastic Engineering 4. Material Forming Technology	4	2	4	100	50	--
VI	6.01	Seminar on Special Topics	--	4	--	--	50	--
	6.02	Dissertation Seminar	--	--	--	--	50	--
VII	7.01	Pre-synopsis Dissertation Seminar	--	--	--	--	50	--
	7.02	Dissertation & Viva-Voce	--	--	--	--	100	100
			TOTAL			1000	750	100
			GRAND TOTAL					1850