

# FR. C. RODRIGUES INSTITUTE OF TECHNOLOGY, VASHI

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## P.G. INFORMATION BROCHURE ACADEMIC YEAR 2012-2013

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## 1. GENERAL INFORMATION

Fr. C. Rodrigues Institute of Technology has since 1994 been an integral part of the Agnel Technical Education Complex which took birth in 1982 at Vashi, Navi Mumbai. It has in the last seventeen years carved a niche for itself in the field of Technical Education. The untiring efforts of its Management and staff towards making the institute synonymous with academic excellence have been more than adequately reflected in the outstanding results, it has achieved, right from the outset. The Institute has already made its mark in the academic environment by the large number of University rank holders it has to its credit. Our past students working in different organizations have already proved that they are among the best. We would like to continue this tradition with our P.G. courses.

Fr. C. Rodrigues Institute of Technology offers professional education (UG) in five branches of engineering, namely: *Computer Engineering, Mechanical Engineering, Electronics & Telecommunication Engineering, Electrical Engineering, Information Technology*

The institute has introduced PG courses from the academic year (2010–2011) in the fields of:

*Mechanical Engineering (Machine Design) and  
Electrical Engineering (Power Electronics & Drives)*

The institute has introduced PG course from the academic year (2011–2012) in the field of:

*Electronics & Telecommunication Engineering*

Special emphasis has been placed on developing an environment highly conducive to building of a solid foundation of knowledge, personality development, confidence building and pursuit of excellence, self discipline as well as enhancement of creativity through motivation and drive which helps to produce professionals well trained for the rigours of professional and social life.

## 2. P. G. COURSES:

### 2.1. Mechanical Engineering (Machine Design)

There is tremendous growth of industry in India not only in manufacturing but also in high end technology and product development segment. Manufacturing Industries, high tech centers (R & D), Service Providers, etc. have come up in large numbers. The Industries are complimented by PMC & EPC organizations, which cater to their demand. These industries and organizations require a large number of trained professionals, specializing in the field of Machine Design. The Industrial product development essentially requires the knowledge of the subject domain of Machine Design.

The Post Graduate course in Mechanical – Machine Design, offered by our Institute, encompasses subjects which are playing a vital role in today's globalized industrial environment in India. The subjects cover various areas of engineering such as Mechanical Vibration, Stress Analysis, Instrumentation and Control and CAD-CAM. The course in our Institute will not only educate the professionals in the subject but also inculcate in them the traits of experimentation, application and implementation of new ideas in practical use. The Institute has well equipped infrastructure to not only cater to the pedagogical demands of the curriculum but also to face and deal with a broad range of challenges thrown up by the ever-increasing demands of the industry. The faculty of the department is highly qualified in their respective fields.

## **2.2. Electrical Engineering (Power Electronics & Drives)**

The field of power electronics and drives is changing very rapidly due to intensive research taking place in the areas of power semi-conductor devices, power electronic converters, electrical machines and digital signal processing. It aims to train competent engineers or professionals to meet the needs of industries related to the above fields and also to fulfill the growing demand in renewable energy sources. This program incorporates applications that involve various branches of engineering like Electrical, Electronics, Electrical and Electronics, Electronics and Telecommunication, Industrial Electronics, Instrumentation, Instrumentation and Control etc.

The programme focuses on imparting education in the field of Power Electronics, Drives, Application of Power Electronics in Power System, Renewable Energy Sources, Digital Signal Processing, Power System Protection etc. It also aims at developing the soft skills of the individual such as presentation, report writing by having regular seminar and interactive session amongst students and faculty.

This programme has been introduced for the very first time in Mumbai University.

## **2.3 Electronics & Telecommunication Engineering**

Electronics & telecommunication engineering is one of the largest & fastest growing field of engineering. Having qualified & trained professionals in this field is the need of the hour. Keeping in mind the need of the industry and the educational institutes, this PG program aims at providing a strong foundation in theoretical, practical and design aspects of electronics & telecommunication engineering. The major emphasis of this program is to inculcate aptitude for the advanced research among the students. It also aims to provide holistic environment for overall personal development, and to bring to full blossoming the potential in every student.

The curriculum covers all important areas of electronics & telecommunication engineering under the broad categories of signal processing, mobile/wireless/optical communication, microwaves and antennas, computer network, VLSI, etc.

The strength of our Department is excellent team of faculty and support staff members who are committed to the cause of quality technical education & research work. The end result is our achievements in excellent UG results & campus placement.

### 3. RULES AND REGULATIONS

3.1. Structure, syllabus, examination scheme & duration of these programs shall be as prescribed by the University of Mumbai.

3.2. Intake to each of the programs is indicated in table below :

| Sr. No. | Programme  | Total Intake |
|---------|--|--------------|
| 1       | Mechanical Engineering-Machine Design                | 18*          |
| 2       | Electrical Engineering- Power Electronics and Drives | 18*          |
| 3       | Electronics & Telecommunication Engineering          | 18*          |

\* (General - 10, Sponsored - 05, Reserved - 03)

3.3. SC and ST seats shall not be available for interchange. (Vacant seats for SC category shall not be filled by ST category and vice versa). Similarly, any vacancy of SC/ST will not be filled by open category students.

3.4. Candidates claiming to belong to SC/ST will be required to produce relevant certificates to that effect from appropriate authority.

3.5. The candidates are required to pay the total fees at the time of admission. This fees shall be strictly paid in the form of Demand Draft in favor of 'FR. C.R.I.T., VASHI' payable at Mumbai.

3.6. No reservation is provided in the sponsored category.

3.7. A candidate should submit original GATE scorecard, B.E./B.Tech. Final year Mark sheet, leaving certificate at the time of admission.

3.8. Incomplete applications will be rejected.

3.9. **Candidates other than Mumbai University** will have to collect the application form for *PROVISIONAL ELIGIBILITY CERTIFICATE* from the counter.

The admission of such candidates will be PROVISIONAL until the college receives their *PROVISIONAL ELIGIBILITY CERTIFICATE* from Mumbai University.

Incase Mumbai University does not provide the *PROVISIONAL ELIGIBILITY CERTIFICATE* to candidates other than Mumbai University for M.E. First Year 2012-13 due to any reason whatsoever, **admission stands cancelled for those particular candidates.**

## **4. ELIGIBILITY CRITERIA**

### **4.1. Essential Qualification**

#### **Mechanical Engineering:**

Candidates with B.E./B.Tech. in Mechanical Engineering OR Automobile Engineering OR Production Engineering from a recognized Institute/University with at least 50% marks at Bachelor's Degree (At least 45% for candidates of reserved category).

#### **Electrical Engineering:**

Candidates with B.E./B.Tech. in Electrical Engineering or allied branches of Engineering (Electrical and Electronics, Electronics, Electronics and Telecommunication, Industrial Electronics, Instrumentation & Control and Instrumentation) from a recognized Institute/University with at least 50% marks at Bachelor's Degree (At least 45% for candidates of reserved category).

#### **Electronics & Telecommunication Engineering:**

Candidates with B.E./B.Tech. in Electronics & Telecommunication Engineering OR Electronics Engineering OR Electrical Engineering OR Instrumentation Engineering OR Computer Engineering from a recognized Institute/University with at least 50% marks at Bachelor's Degree (At least 45% for candidates of reserved category).

### **4.2. GATE Candidates:**

Candidates with valid GATE score are eligible.

### **4.3. Sponsored Candidates:**

The candidates must have a minimum of two 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.

Sponsored Candidates with qualifications obtained through examinations conducted by professional societies recognized by UPSC/AICTE for example AMIE by IE(I) or AME by ICE(I) as equivalent to B.E./B.Tech., are also eligible for admissions.

A letter from the employer stating that the candidate is being sponsored to seek admission to the postgraduate degree program must be furnished. The employer should also indicate that the candidate will not be withdrawn midway till the completion of the program. The candidate will be fully under the administrative control of the institute for the period of the program, and will be paid full salary by the employer for the duration of the program.

### **4.4. Candidates appeared for current academic year degree exam**

Such candidates will have to submit the documents of the results of the qualifying exam before 31st July 2012.

## 5. ADMISSION PROCEDURE

### 5.1. GATE Candidates:

Admission will be based on merit list prepared on the basis of valid gate score in the respective branch only. If sufficient numbers of GATE candidates are not available, Non-GATE candidates will be considered for the admission.

### 5.2. Non GATE and Sponsored Candidates

Candidates will be considered for admission on merit, based on total marks secured, out of 100 as indicated below: -

|                   |                  |
|-------------------|------------------|
| A. Entrance Test- | <b>70</b> Marks  |
| B. Interview-     | <b>30</b> Marks  |
| <hr/>             |                  |
| Total performance | <b>100</b> Marks |

However, depending on the number of candidates and seats available, the respective departments may exercise suitable cut off for candidates to be short listed for the interview. Thus, all candidates appearing for entrance test may not be called for the interview.

## 6. STIPEND/SCHOLARSHIP

Stipend/Scholarship will be provided to GATE candidates with good academic record subject to conditions.

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

## 7. ENTRANCE TEST FOR NON GATE / SPONSORED CATEGORY

The entrance test will be based on the respective undergraduate programs of the University of Mumbai.

The entrance test will be conducted at Fr. C.R.I.T. Vashi, in the respective departments.

## 8. CONDUCT AND DISCIPLINE

Students are expected to follow rules and regulations of the institute and observe discipline. If students are found indulging in anti-national activities contrary to the provisions of acts and laws enforced by the Government or any activity contrary to rules of discipline, they are liable to be expelled from the institute without any notice by the Principal of the Institute.

If any of the statements made in the application form, any information supplied by the candidates 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 will be forfeited and he/she may be expelled from the institute by the Principal and prosecuted, if deemed necessary. An appeal against the order of expulsion, however, may be referred to the Chairman, Governing Council, Fr. C. R. I. T. Vashi, whose decision in such cases will be final.

## 9. FEES 2012-2013

The interim fee for 2012-2013 is ` . 77,000/- and it is subject to revision by the *Shikshan Shulka Samiti*. The changes in fee structure during the program, if any, will be applicable to all the candidates. The revised fees will be implemented as per the decisions of the *Shikshan Shulka Samiti* , from time to time.

Candidates applying for admission against the seats reserved for backward classes should note that only those candidates who actually belong to the castes and communities will be eligible for concessions according to rules.

### **Interim Fee Structure for First Year M.E. Programme for the Academic Year 2012 -13**

| Sr. No. | HEADS   | Electrical<br>(`.) | Mechanical<br>(`.) | Electronics<br>&<br>Telecomm.<br>(`.) | Remark   |
|---------|---|--------------------|--------------------|---------------------------------------|--|
| 1       | Tuition Fee per annum + Development Fee per annum                               | 77,000             | 77,000             | 77,000                                | <b>*Interim fee structure subject to revision by the Shikshan Shulka Samiti for the A.Y 2012-2013<br/>The Institute has proposed Rs. 90,000/- fees for A. Y. 2012-2013</b> |
| 2       | Caution Deposit   | 1,000              | 1,000              | 1,000                                 | Refundable   |
| 3       | University Share  | 2,500              | 2,500              | 2,500                                 |  |
| 4       | University Enrollment   | 220                | 220                | 220                                   | <b>Applicable only for other than Mumbai University.</b>   |
| 5       | Application form for Provisional Eligibility Certificate                        | 320                | 320                | 320                                   |  |
| 6       | University Registration Charges   | 825                | 825                | 825                                   |  |
| 7       | Students Group Insurance  | 32                 | 32                 | 32                                    |  |
|         | <b>DD 1 (TOTAL Rs.)</b>   | <b>81,897</b>      | <b>81,897</b>      | <b>81,897</b>                         |  |
| 8       | Computer Stationery   | 400                | 200                | 200                                   |  |
| 9       | Undertaking on stamp paper + Notary for Fee(01) for Ragging (02) by SSS & AICTE | 780                | 780                | 780                                   |  |
|         | <b>DD 2 (TOTAL Rs.)</b>   | <b>1,180</b>       | <b>980</b>         | <b>980</b>                            |  |

The admission form can be downloaded from our website: [www.fcrit.ac.in](http://www.fcrit.ac.in) from 7th May 2012 onwards. Duly filled forms with relevant documents can be submitted at the cash counter on payment of `1000/- (`750 for Reserved Category) between 09:30 hrs to 15:00 hrs. Information Brochure and Application form can also be purchased from our cash counter. Duly completed applications will be accepted till 6th June 2012.

\*The final fees (Tuition + Development Fee) will be displayed on the website/notice board when decided by the Competent Authority (Shikshan Shulka Samiti) for the academic year 2012-2013.

The Fees should be paid in two Demand Draft / Banker's Cheque / Pay Order to be issued in favor of "Fr. C. Rodrigues Institute of Technology, Vashi."  
Please mention your Name, Branch & Contact No. back of the Draft.

#### 10. CANCELLATION OF ADMISSION AND REFUND OF FEES

If a candidate cancels his/her admission, the refund of fees will be made as per the guidelines of AICTE/DTE rules.

#### 11. SCHEDULE OF ADMISSION FOR THE ACADEMIC YEAR 2012-13

| <b>ADMISSION SCHEDULE</b>  |                             |
|--|-----------------------------|
| Availability of admission form from our website <a href="http://www.fcrit.ac.in">www.fcrit.ac.in</a>   | 07 <sup>th</sup> May, 2012  |
| Last date of receipt of completed forms along with necessary documents and D. D. Rs. 1000/- (Rs. 750/- Reserved Category) towards application fees drawn in favor of "Principal, Fr. C. Rodrigues Institute of Technology, Vashi" payable at Navi Mumbai/Mumbai. | 06 <sup>th</sup> June, 2012 |
| <b>GATE CANDIDATES</b>   |                             |
| Display of Merit list of GATE candidates   | 11 <sup>th</sup> June, 2012 |
| Last date for GATE candidates to pay the fees and confirm their admissions   | 16 <sup>th</sup> June, 2012 |
| <b>NON GATE &amp; SPONSORED CANDIDATES</b>   |                             |
| Entrance test and interviews of Non GATE and Sponsored candidates  | 25 <sup>th</sup> June, 2012 |
| Display of Merit list of Non GATE and Sponsored candidates   | 27 <sup>th</sup> June, 2012 |
| Last date for Non GATE and Sponsored candidates to pay fees and confirm their admissions   | 30 <sup>th</sup> June, 2012 |
| Post Graduate Courses begins   | 09 <sup>th</sup> July, 2012 |



## 12. DOCUMENTS TO BE SUBMITTED AT THE TIME OF ADMISSION

| Sr. No.   | Document   | Original | Attested Copies |
|---|--|----------|-----------------|
| 1   | Valid GATE Score Card  | 01       | 03              |
| 2   | First to Final Year B.E. Marks sheets (All Semester)   | 01       | 03              |
| 3   | Degree Certificate of Qualifying examination<br>#Provisional Degree Certificate for candidates passing this year | 01       | 03              |
| 4   | Institute Leaving Certificate / Transfer Certificate from Previous Institute                                     | 01       | 03              |
| 5   | Provisional Eligibility Certificate* from University of Mumbai   | 01       | 03              |
| 6   | S.S.C. (X <sup>th</sup> ) Marks Sheet  | 01       | 03              |
| 7   | Domicile/Copy of: Indian Passport or Birth Certificate for Nationality   | 01       | 03              |
| 6   | Caste Certificate  | 01       | 03              |
| 7   | Caste Validity Certificate   | 01       | 03              |
| 8   | Non-Creamy Layer – (OBC/SBC/VJ/NT/DT)  | 01       | 03              |
| 9   | Letter from Sponsoring Authority for Sponsored Candidates  | 01       | 03              |
| 10  | Migration Certificate* from the University from where Bachelor's Degree is obtained                              | 01       | 03              |
| 11  | Proforma-I UNDERTAKING according to DTE guidelines   | 01       | --              |
| 12  | Proforma-H according to DTE guidelines if applicable   | 01       | --              |
| * In case of candidates who have obtained their Bachelor's Degree from Universities other than University of Mumbai   |  |          |                 |
| Apart from above documents each candidate will have to submit, in a small packet / envelope, TWO Passport Size Color Photographs with Name & Branch Applied for on the Back Side. |  |          |                 |