

**Supporting Documents for Curriculum and
Activities Related to Gender Equity,
Environment and Sustainability, Human
Values and Professional Ethics**

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

Ref.: CRCE / 2019 / 109

Date: March 1, 2019.

CIRCULAR

Dear Teaching & Non-Teaching Staff

Greetings from the IEEE-WIE CRCE Students Chapter.

IEEE WIE-CRCE on behalf of IEEE Bombay Section is organizing Women's Day Celebration on 8th March 2019 in our college from 1.30 p.m to 4.00 p.m in Samvaad.

Women's Day is being celebrated to enhance and encourage women to participate in every field and to felicitate them for their contribution towards the society. Following are the speakers invited for the programme :

- 1) Dr. Sushma Kulkarni, Director, Rajarambapu Institute of Technology, Sakharale
- 2) Ms. Rashmi Saha, Curiosity Gymn

We request all the teaching and non-teaching staff members to be a part of Women's Day Celebration.

Looking forward to your favourable response.



(MRS. SUSHMA NAGDEOTE)
IEEE- WIE BRANCH COUNSELLOR



(DR. SRIJA UNNIKRIISHNAN)
PRINCIPAL

Women's Day

8th March 2019, Fr. CRCE

IEEE-WIE CRCE

International Women's Day is an occasion to celebrate the progress made towards achieving gender equality and women's empowerment but also to critically reflect on those accomplishments and strive for a greater momentum towards gender equality worldwide. It is a day to recognize the extraordinary acts of women and to stand together, as a united force, to advance gender equality around the world.

Women in Engineering (WIE) is one of the largest international professional organizations dedicated to promoting women engineers and scientists, and inspiring girls around the world to follow their academic interests in a career in engineering.



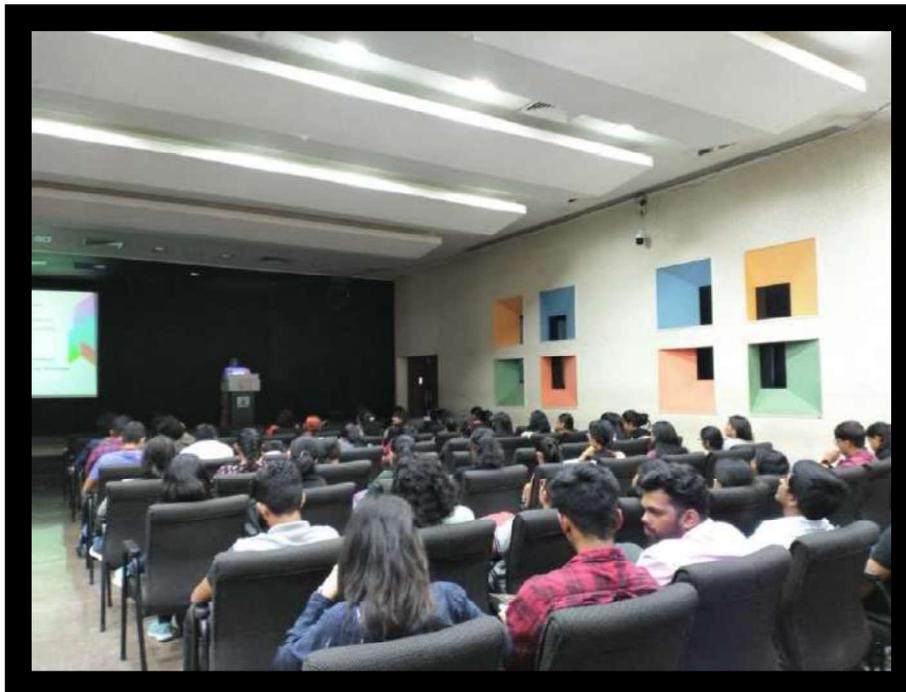
So, as a small part of this huge organisation CRCE chapter of WIE organised Women's day in the college to appreciate all the hardworking and talented women of CRCE.

The theme for International Women’s Day (8 March) this year, **“Think Equal, Build Smart, Innovate for Change”**, puts innovation by women and girls, for women and girls, at the heart of efforts to achieve gender equality.

First, the principal Dr. Srija Unnikrishnan addressed all students, she talked about her experience as a principal and she emphasized a lot on gender equality.

For this event WIE council had invited two women who are very successful in their respective fields.

Dr. Sushma Kulkarni, Director at Rajarambapu Institute of Technology spoke about her journey. She talked about how important the support of your family is in their success. She talked how girls should focus on their dreams no matter how difficult it is to achieve them. After this a student from BE Electronics recited a poem on women empowerment.



Ms. Rashmi Kaushik’s words “Before others respect you should respect yourself and people around you”, were an eye-opener. She is a journalist, educator with a vision for students and a passionate writer and poet she continues to remain an enthusiastic student with a deep yearning to imbibe and

learn every step of the way. She talked how women themselves don't understand each other.



The event was ended by giving a vote of thanks to the dignitaries. It was a memorable day for the students as well as teachers of Fr. CRCE.

Ms. Sushma Nagdeote
Branch Counsellor (IEEE - WIE CRCE)

Women's Day Celebration

8th March 2017

International Women's Day, 8th March, is a global day of celebration where women from all countries and of different political, economic, social, linguistic and ethnic backgrounds can join together to reflect on the struggle for equality over the past century, celebrate the achievements to date and identify the challenges for the future.

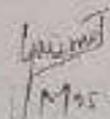
IEEE-WIE CRCE celebrated this auspicious event with great zeal. We had around 200 students attend our celebration which included girls as well as boys. It took place in the Sanivadi auditorium from 1:30pm to 4pm. Our theme for this year was "BE BOLD FOR A CHANGE".

This year we had three dignitaries, each of whom were pioneers in their respective fields. The event was hosted by Ms Pearl Fernandes (Chairperson WIE). She spoke about the accomplishments of 7 exceptional Indian women from ISRO who were at the forefront of its mission of launching 104 satellites into space in one go. Our dignitaries were then welcomed with a bouquet of flowers. We started off the event by the lighting of the lamps which was followed by a prayer song, sang by one of our college student Ms Rubina Praveen.

We then had a short PowerPoint presentation, which summarized all of the events conducted by the IEEE - CRCE student chapter. It was presented by Ms Riya Kulkarni (Tech Head WIE).

Our principal Dr. (Mrs.) Srija Unnikrishnan graced us with her kind and encouraging words about women empowerment. Then we had Ms. Miriamayee Ranade-editor of Maadharima of Dixya Marathi Daily newspaper, talk about equality between all genders and gave us a real insight into it. Next, Dr. Taskeen Nadkar-Product Manager of Reliance Jio spoke to us about the various software development life cycles and which one is to be used when. She also explained to us the SCRUM and Agile methodologies. That was really useful to the students as that's in their curriculum and all of them gained a useful insight as to what is implemented in the industry. She also spoke about the digitization of apps in India and how we are moving towards a more digital world. Our last and most awaited speaker Dr. Surgoeta Pikale who is the Director of Pikale hospital, spoke about how we should not compare women and men and how each should be focused on living together and peacefully.

After each talk, we felicitated each dignitary with a token of our appreciation for their time. We also gave a memento to our principal for completing 25 successful years in our college. The event then ended by a vote of thanks by Ms Valencin Dias. After that, refreshments were distributed to all the attendees. Thus, we had another successful Women's day celebration.


Ms. Geeta Tripathi
(Branch Councilor, WIE CRCE)



Women's Day



A daughter who serves,
A sister who loves,
A mother who bears
A friend who cares

Bestower of love, life, friendship and trust
A picture of poise, strength and grace.

A dreamer, achiever, a winner all along

We celebrate you, The phenomenal women today!

CEEE-

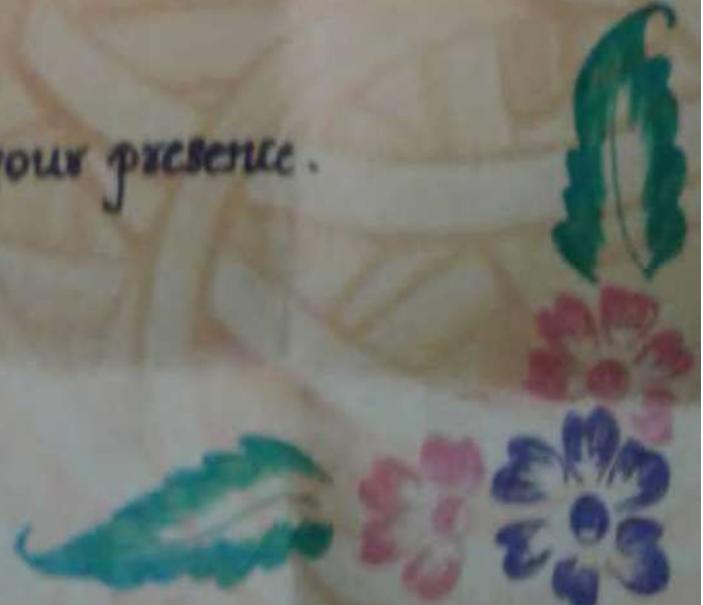
WIE-CRCE cordially invites you to be a part of its
women's day celebration.

DATE: 8 MARCH, 2016

TIME: 1:30 pm

VENUE: SAMVAAD

Kindly grace this occasion with your presence.





Fr. Conceicao Rodrigues College of Engineering
(Affiliated to University of Mumbai, Approved by AICTE - New Delhi)

Fr. Agnel Ashram, Bandra Road, Bandra (West), Mumbai - 400050
Phone: 022-26421841-42, Fax: 022-26410841
Website: www.frcce.org/branch, Email: frcce.crce@gmail.com



IEEE-CRCE Student Branch

8 March 2016

To
Ms. Tanuja R. Jadhav
Chief Security Officer
BARC

SUBJECT: LETTER OF APPRECIATION.

Dear Madam,

On behalf of IEEE-WIE CRCE Students' Branch and all the Faculty members, we would like to express our heartfelt gratitude for taking out time from your busy schedule to enlighten us by your experience at our WOMEN'S DAY CELEBRATION, held on 8th March, 2016.

International Women's Day is celebrated to enhance and encourage women to participate in every field and to felicitate them for their contribution towards the society. From the feedback that we've received, the event was a grand success and this would not have been possible without your diligence. We sincerely appreciate the efforts that you have taken and also for sharing your time, talent and expertise with us.

We hope to continue receiving your guidance and support in our future endeavors.

Thanking You,

Yours sincerely,


Mrs. Gayatri Tripathi
Branch Counsellor, WIE- CRCE


Dr. Srijita Unnikrishnan
Principal



Fr. Conceicao Rodrigues College of Engineering

ESTABLISHED IN 1983 AT KARVE ROAD, MUMBAI - 400 075

10, NAGAR ROAD, MUMBAI - 400 075

TEL: 022-26111111 FAX: 022-26111111

WWW.FRCOE.COM



IEEE-CRCE Student Branch

8 March 2016

To
Mrs. Vijaya Pandya
TCS
Mumbai

SUBJECT: LETTER OF APPRECIATION.

Dear Madam,

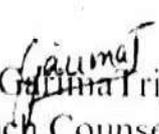
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We hope to continue receiving your guidance and support in our future endeavors.

Thanking You,

Yours sincerely,


Mrs. G. Uma Tripathi
(Branch Counsellor, WIE CRCE)


Dr. Srija Unnikrishnan
(Principal)



Fr. Conceicao Rodrigues College of Engineering
(Affiliated to University of Mumbai, Approved by AICTE, New Delhi)

Fr. Agnel Ashram, Bandrabai, Bandra, West, Mumbai - 400052
Phone: (022) 26824881-4, Fax: (022) 26510431
Website: www.crcce.org, Email: info@crccegroup.com



IEEE-CRCE Student Branch

8 March 2016

To
Dr. Sangeeta Pikale
Pikale Hospital
Mahim
Mumbai

SUBJECT: LETTER OF APPRECIATION.

Dear Madam,

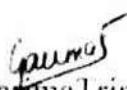
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Thanking You,

Yours sincerely,


Mrs. Gamma Tripathi
(Branch Counsellor, WIE CRCE)


Dr. Srija Unnikrishnan
(Principal)

Ref: CRCE / 2017 / 122

Date : March 6, 2017.

C I R C U L A R

Dear Teaching & Non-Teaching Staff

Greetings from the IEEE-WIE CRCE Students Chapter.

IEEE WIE-CRCE on behalf of IEEE Bombay Section is organizing Women's Day Celebration, on 8th March 2017 in our college from 1.30 p.m to 4.00 p.m in Samvaad.

Women's Day is being celebrated to enhance and encourage women to participate in every field and to felicitate them for their contribution towards the society. Following are the speakers invited for the programme :

| Speaker | Designation | Topic |
|------------------------|---------------------------|--|
| Dr Taskeen Nadkar | Project Head Reliance JIO | Digital Apps. |
| Ms.Mrinmayee Parade | Journalist | Women Empowerment |
| Dr. Sangeeta Pikale | Gynaecologist | Sexual Impressiveness and Chasing of Investigations |

We request all the staff members teaching and non-teaching to be a part of Women's Day Celebration. Staff members are required to give their consent for the same.

Looking forward to your favourable response.


(MRS. GARIMA TRIPATHI)
IEEE- WIE BRANCH COUNSELLOR


(DR. SRIJA UNNIKISHNAN)
PRINCIPAL

Women's Day Celebration

8th March 2017:

International Women's Day, 8th March, is a global day of celebration where women from all countries and of different political, economic, social, linguistic and ethnic backgrounds can join together to reflect on the struggle for equality over the past century, celebrate the achievements to date and identify the challenges for the future.

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We then had a short PowerPoint presentation, which summarized all of the events conducted by the IEEE - CRCE student chapter. It was presented by Ms Riya Kulkarni (Tech Head WIE).

Our principal Dr. (Mrs.) Srija Unnikrishnan graced us with her kind and encouraging words about women empowerment. Then we had Ms. Mrinmayee Ranade - editor of Madhurima of Divya Marathi Daily newspaper, talk about equality between all genders and gave us a real insight into it. Next, Dr. Taskeen Nadkar - Product Manager of Reliance Jio spoke to us about the various software development life cycles and which one is to be used when. She also explained to us the SCRUM and Agile methodologies. That was really useful to the students as that's in their curriculum and all of them gained a useful insight as to what is implemented in the industry. She also spoke about the digitization of apps in India and how we are moving towards a more digital world. Our last and most awaited speaker Dr. Sangeeta Pikale who is the Director of Pikale hospital, spoke about how we should not compare women and men and how each should be focused on living together and peacefully.

After each talk, we felicitated each dignitary with a token of our appreciation for their time. We also gave a memento to our principal for completing 25 successful years in our college. The event then ended by a vote of thanks by Ms Valencia Dias. After that, refreshments were distributed to all the attendees. Thus, we had another successful Women's day celebration.

Ganesh
Mrs. Gaurima Tripathi
(Branch Counsellor, WIECRCE)

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

Ref.: CRCE / 2019 / 191

Date : February 13, 2019.

NOTICE

BEST ALL ROUNDER

Academic Year 2018-2019

We are pleased to announce the names of the winners of the Best All Rounder Award 2018-2019.

Best All Rounder (Female Category) - Ms. Vaessa Rodrigues
B.E. Production Engineering

Best All Rounder (Male Category) - Mr. Gopesh Rajderkar
B.E. Computer Engineering

Congratulations to the winners and to all the participants.


(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL

CC : Fr. Peter D'Souza
Fr. Valerian D'Souza
Dr. V.S. Bilolikar

Date : February 14, 2014.

Minutes of the Meeting held on 14th February 2013

SUB.: BEST ALL ROUNDER

Academic Year - 2013-2014

We are pleased to announce the names of the winners of the Best All Rounder Award 2013-2014.

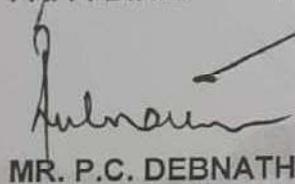
Best All Rounder (Female Category) - Vibhali Jashi

Best All Rounder (Male Category) - Ronit S Kadam.

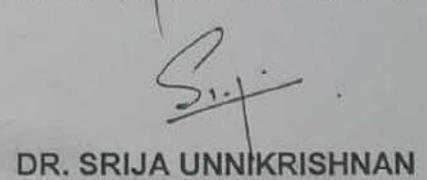

FR. F. DINIZ

FR. VICTOR REBELLO


FR. UBALDO FERNANDES


MR. P.C. DEBNATH

DR. N.M. JOSHI


DR. SRIJA UNNIKISHNAN

Date : February 12, 2015.

Minutes of the Meeting held on 12th February 2015

SUB.: BEST ALL ROUNDER

Academic Year - 2014-2015

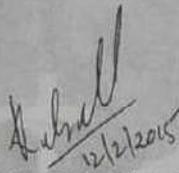
We are pleased to announce the names of the winners of the Best All Rounder Award 2014-2015.

Best All Rounder (Female Category) - Ms. Ashita Prasad
B.E. Computer Engineering

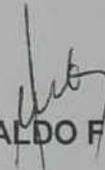
Best All Rounder (Male Category) - Mr. Sumit Yempalle
B.E. Electronics Engineering



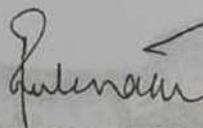
FR. F. DINIZ



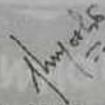
FR. VICTOR REBELLO



FR. UBALDO FERNANDES



MR. P.C. DEBNATH



DR. N.M. JOSHI



DR. SRIJA UNNIKRISHNAN

ole

Ref.: CRCE / 2016 / 074

Date: February 11, 2016.

NOTICE

BEST ALL ROUNDER

Academic Year 2015-2016

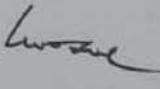
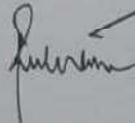
We are pleased to announce the names of the winners of the Best All Rounder Award 2015-2016.

- Best All Rounder (Female Category) - Ms. Shriya Kumar
B.E. Computer Engineering
- Best All Rounder (Male Category) - Mr. Tushar A. Sadhu
B.E. Computer Engineering

Congratulations to the winners and to all the participants.


(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL

CC: Fr. Nazareth Fernandes
Fr. Victor Rebello
Fr. Valerian D'Souza
Mr. P.C. Debnath

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

Ref: CRCE / 2017 / 091

Date : February 14, 2017.

NOTICE

BEST ALL ROUNDER

Academic Year 2016-2017

We are pleased to announce the names of the winners of the Best All Rounder Award 2016-2017.

Best All Rounder (Female Category) - Ms. Pereira Denise
B.E. Computer Engineering

Best All Rounder (Male Category) - Mr. Monteiro Ruben
B.E. Computer Engineering

Congratulations to the winners and to all the participants.


(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL

CC : Fr. Nazareth Fernandes
Fr. Valerian D'Souza
Fr. Dilip Donke
Mr. P.C. Debnath
Dr. Narendra Joshi

Ref.: CRCE / 2018 / 040

Date : January 23, 2018.

NOTICE

BEST ALL ROUNDER

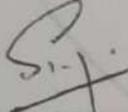
Academic Year 2017-2018

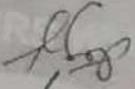
We are pleased to announce the names of the winners of the Best All Rounder Award 2017-2018.

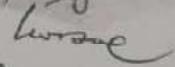
Best All Rounder (Female Category) - Ms. Ruchita Rozario
B.E. Computer Engineering

Best All Rounder (Male Category) - Mr. Dhruva Gaidhani
B.E. Computer Engineering

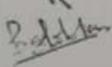
Congratulations to the winners and to all the participants.

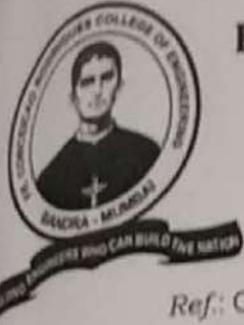

(DR. SRIJA UNNIKISHNAN)
PRINCIPAL

CC : Fr. Peter D'Souza 

Fr. Valerian D'Souza 

Dr. Narendra Joshi 

Dr. V.S. Bilolikar 



SOCIETY OF ST. FRANCIS XAVIER, PILARS
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to University of Mumbai)

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

Phone : (022) 6711 4000, 6711 4101, 6711 4104 • Fax : 6711 4100

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

Ref: CRCE / 2017 / 357

Date : August 1, 2017.

NOTICE

" WOMEN'S DEVELOPMENT CELL "

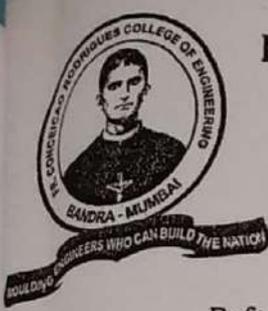
In an effort to promote the well being of the girl students, Teaching and Non-Teaching Women Staff of the Institute, to deal with the cases / complaints of sexual harassment and to implement the women's policies in general, a **Women's Development Cell** has been re-constituted in the College. This is in compliance with the decision of the Supreme Court of India. The College Women's Development Cell shall consist of the following members :-

| S.No. | Name of the Member | | Contact Nos. |
|-------|------------------------|-------------------------|--------------|
| 1 | Dr. Srija Unnikrishnan | President | 9869005457 |
| 2 | Mrs. Sapna Prabhu | Co-ordinator | 9833545743 |
| 3 | Mrs. Jagruti Save | Member | 9869621900 |
| 4 | Dr. Hemant Khanolkar | Member | 9969154398 |
| 5 | Mrs. Sushma Nagdeote | Member | 8879626260 |
| 6 | Mrs. Neelam D'Silva | Member | 9823449254 |
| 7 | Ms. Neha Prakash | NGO Representative | 8419996979 |
| 8 | Ms. Suparna Shetty | Students Representative | 9769438167 |

All the concerned are requested to note the contact details of the above members and represent their grievance to any of the member, if any for their consideration and suitable action.

(DR. SRIJA UNNIKISHNAN)
PRINCIPAL

- Copy to : - Fr. Nazareth Fernandes, Fr. Valerian D'Souza
- HODs – Production Engg, Electronics Engg, Computer, I.T., H&S
- Members of Women's Development Cell – for information and necessary action
- Staff / Student's Notice Board



32

SOCIETY OF ST. FRANCIS XAVIER, PILAR'S
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
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Ref: CRCE / 2018 / 375

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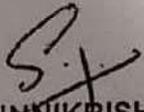
NOTICE

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| 5 | Mrs. Sushma Nagdeote | Member | 8879626260 |
| 6 | Mrs. Neelam D'Silva | Member | 9823449254 |
| 7 | Ms. Neha Prakash | NGO Representative | 8419996979 |
| 8 | Ms. Disha Raj | Students Representative | 9829731799 |

All the concerned are requested to note the contact details of the above members and represent their grievance to any of the member, if any for their consideration and suitable action.


(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL

Copy to : - Fr. Peter D'Souza, Fr. Valerian D'Souza
- HODs – Production Engg, Electronics Engg, Computer, I.T., H&S
- Members of Women's Development Cell – for information and necessary action
- Staff / Student's Notice Board

Fr. Conceicao Rodrigues College of Engineering.

Fr. Agnel Ashram, BandStand, Bandra (W), Mumbai, Maharashtra 400050.

Dr.SSS Award for Excellence in Mathematics

- Mathematics is an indispensable subject for any field of study.
- It is the science of space, time & numbers & hence the Queen of Sciences.
- It is a constant guide.
- It helps in sharpening the reasoning power & mental alertness of all human beings.
- It is essential for men on the street as well as scientist, engineers & philosophers.
- To promote the interest in Mathematics, Mrs. Sundry S.Prabavathy, Head, Dept.of Humanities & Science has started the Dr.SSS Award for Excellence in Mathematics from the year 2012 in memory of her late father Dr. S.Sankara Subramanian.

Eligibility for the award

Students of B.E. Semester VIII (All Branches) who have

- Secured 100/100 in Applied Mathematics
- and / or
- Secured an average of 80% and above
- [Combining all four Semesters: Sem – I to Sem IV]
- Can submit their details to H.O.D. – Mathematics (sponsoring the award) on or before due date.
- [*Roll No., Name, Marks secured in all 4 Semesters (attach copy of mark sheets) and average mark in Applied Mathematics].
- Details should be submitted alongwith proper application/ covering letter.

Selection Procedure:-

- After receiving the application along with required documents the application forms are analyzed merit wise.
- Top three students are selected for the award. In case of tough competition five students are selected.
- Students who are selected (the winners of this award) are informed through notice forwarded to the respective class teachers of B.E. & also the notice is displayed on the notice board.
- The winners are felicitated with the prize and certificate during EUPHORIA [Annual day] every year.

**Sponsored by: PROF. S. PRABAVATHY
H.O.D.- MATHEMATICS**

**(DR.SRIJA UNNIKRIISHNAN)
PRINCIPAL**

**First Year Engineering (Semester I & II), Revised course from Academic Year 2016 -17,
(REV- 2016) (Common for all Branches of Engineering)**

Scheme for FE - Semester – I

| Sub. Code | Subject Name | Examination Scheme | | | | | | | Total | |
|-----------|------------------------------|---------------------|--------|----------------------------|-----|---------------|-----------|-------|-------|------|
| | | Theory Marks | | | | End sem. exam | Term Work | Pract | | Oral |
| | | Internal Assessment | | | | | | | | |
| | | Test 1 | Test 2 | Average of Test 1 & Test 2 | | | | | | |
| FEC101 | Applied Mathematics-I | 20 | 20 | 20 | 80 | 25 | - | - | 125 | |
| FEC102 | Applied Physics-I | 15 | 15 | 15 | 60 | 25 | - | - | 100 | |
| FEC103 | Applied Chemistry –I | 15 | 15 | 15 | 60 | 25 | - | - | 100 | |
| FEC104 | Engineering Mechanics | 20 | 20 | 20 | 80 | 25 | - | 25 | 150 | |
| FEC105 | Basic Electrical Engineering | 20 | 20 | 20 | 80 | 25 | - | 25 | 150 | |
| FEC106 | Environmental studies | 15 | 15 | 15 | 60 | - | - | - | 75 | |
| FEL101 | Basic Workshop Practice-I | - | - | - | - | 50 | - | - | 50 | |
| | | | | 105 | 420 | 175 | | 50 | 750 | |

| Sub Code | Subject Name | Teaching Scheme | | | Credits Assigned | | | |
|----------|------------------------------|-----------------|--------|------|------------------|----------|------|-------|
| | | Theory | Pract. | Tut. | Theory | TW/Pract | Tut. | Total |
| FEC101 | Applied Mathematics-I | 04 | - | 01 | 04 | | 01 | 05 |
| FEC102 | Applied Physics-I | 03 | 01 | - | 03 | 0.5 | - | 3.5 |
| FEC103 | Applied Chemistry -I | 03 | 01 | - | 03 | 0.5 | - | 3.5 |
| FEC104 | Engineering Mechanics | 05 | 02 | - | 05 | 01 | - | 06 |
| FEC105 | Basic Electrical Engineering | 04 | 02 | - | 04 | 01 | - | 05 |
| FEC106 | Environmental studies | 02 | - | - | 02 | - | - | 02 |
| FEL101 | Basic Workshop Practice-I | - | 04 | - | - | 02 | - | 02 |
| | | 21 | 10 | 01 | 21 | 05 | 01 | 27 |

| Sub Code | Subject Name | Teaching Scheme | | | Credits Assigned | | | |
|----------|------------------------------|-----------------|--------|------|------------------|-----------|------|-------|
| | | Theory | Pract. | Tut. | Theory | TW/Pract. | Tut. | Total |
| FEC106 | Environmental Studies | 02 | - | - | 02 | - | - | 02 |

| Sub Code | Subject Name | Examination Scheme | | | | | | Total | |
|----------|------------------------------|---------------------------------|--------|------------------------------|---------------------------|-----------|--------|-------|------|
| | | Theory (out of 75) | | | | Term Work | Pract. | | Oral |
| | | Internal Assessment (out of 15) | | | End Sem. exam (out of 60) | | | | |
| | | Test 1 | Test 2 | Average of Test 1 and Test 2 | | | | | |
| FEC106 | Environmental Studies | 15 | 15 | 15 | 60 | - | - | - | 75 |

Details of the Syllabus:-

| Sr. No. | Details | Hrs |
|----------|--|-----|
| Module 1 | <p>Overview of Environmental Aspects:</p> <ul style="list-style-type: none"> • Definition, Scope and Importance of Environmental Study • Need for Public awareness of environmental education • Introduction to depletion of natural resources: Soil, Water, Minerals and Forests. • Global crisis related to – Population, water, sanitation & Land. <p>Ecosystem:</p> <ul style="list-style-type: none"> • Study of ecosystems: Forest, desert and aquatic (in brief). • Energy flow in Ecosystem, overview of Food Chain, Food Web and Ecological Pyramid. • Concept of ecological succession and its impact on human beings (in brief). <p>Case Study on Chipko Movement (Uttarakhand, India), (began in 1973).</p> | 4 |
| Module 2 | <p>Aspects of Sustainable Development:</p> <ul style="list-style-type: none"> • Concept and Definition of Sustainable Development. • Social, Economical and Environmental aspects of sustainable development. • Control measures: 3R (Reuse, Recovery, Recycle), • Resource utilization as per the carrying capacity (in brief). <p>Case Study on Narmada Bachao Andolan (Gujarat, India, in the mid and late 1980s).</p> | 2 |
| Module 3 | <p>Types of Pollution:</p> <ul style="list-style-type: none"> • Water pollution: Sources of water pollution and Treatment of Domestic and industrial waste water (with flow-diagram of the treatment), • Land Pollution: Solid waste, Solid waste management by land filling, | 8 |

| | | |
|----------|---|---|
| | <p>composting and incineration</p> <ul style="list-style-type: none"> • Air pollution: Sources of air pollution, Consequences of air pollution :- Greenhouse effect (Explanation with schematic diagram), Photochemical Smog (Explanation with chemical reaction). Cleaning of gaseous effluents to reduce air contaminants namely dust particle or particulate matters by using:- (i) Electrostatic precipitators (ii) Venturi scrubber (Schematic diagram and working). • Noise pollution: Sources, effects, threshold limit for different areas and control methods. • E-Pollution: Definition, Sources and effects. • Nuclear pollution: Sources and effects. <p>Case study on Water Pollution of Ganga River. Case study on London smog (U. K.)(December, 1952). Case Study of Fukushima Disaster (March, 2011).</p> | |
| Module 4 | <p>Pollution Control Legislation:</p> <ul style="list-style-type: none"> • Functions and powers of Central and State Pollution Control Board. • Environmental Clearance, Consent and Authorization Mechanism. <p>Case Study of Dombivali MIDC- Boiler Blast Tragedy (Thane, Maharashtra, India), (May, 2016).</p> | 3 |
| Module 5 | <p>Renewable Sources of Energy:</p> <ul style="list-style-type: none"> • Importance of renewable sources of energy. • Principle and working with schematic diagram of :- (i) Solar Energy: (a) Flat plate collector and (b) Photovoltaic cell. (ii) Wind Energy: Wind Turbines. (iii) Hydropower: Hydropower generation from water reservoir of the dam. (iv) Geothermal Energy: Utilisation of underground sources of steam for power generation. | 4 |
| Module 6 | <p>Technological Advances to overcome Environmental problems:</p> <ul style="list-style-type: none"> • Concept of Green Buildings, • Various indoor air pollutants and their effects on health. • Carbon Credit: Introduction and general concept. • Disaster Management: Techniques of Disaster Management to cope up with (i) Earthquake and (ii) Flood. <p>Case Study on Earthquake in Latur (Maharashtra, India), (September, 1993). Case Study on Cloudburst and Landslides at Kedarnath (Uttarakhand, India), (June, 2013).</p> | 5 |

Tests 1 & 2

1. Each test will be of 15 marks.
2. At least one question will be based on case study. Candidate is expected to explain the salient features of the incident and suggest preventive measures.

Theory Examination:

1. Question paper will comprise of total 6 questions, each of 15 marks.
2. Total four questions need to be solved.
3. Question Number One will be compulsory and it will be based on entire syllabus wherein sub-questions of 2 to 3 marks will be asked.
4. Remaining questions i.e. Q.2 to Q.6 will be mixed in nature and will be divided in three parts (a), (b) & (c) and they will belong to different modules.
5. In question paper, weight of each module will be proportional to number of respective lecture hours as mentioned in the syllabus.

Recommended Books:

1. Environmental Studies by Benny Joseph, TataMcGraw Hill.
2. Environmental Studies by R.Rajagopalan, Oxford University Press.
3. Environmental Studies by. AnanditaBasak, Pearson Education.
4. Essentials of Environmental Studies by Kurian Joseph &Nagendran, Pearson Education.
5. Fundamentals of Environmental Studies by Varadbal G. Mhatre, Himalaya Publication House.
6. Perspective of Environmental Studies, by Kaushik and Kaushik,New Age International.
7. Renewable Energy by Godfrey Boyle, Oxford Publications.
8. Textbook of Environmental Studies by Dave and Katewa, Cengage Learning.
9. Textbook of Environmental studies by ErachBharucha, University Press.
10. Environmental pollution control engineering by C.S. Rao, New Age International (P) Limited Publishers.

T.E. (Production) Sem.-V

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | Credits Assigned | | | | | |
|-------------|---|---------------------------------|-----------|------------------|--------------|-------------------------|------------|--------------|------------|
| | | Theory | Pract | Theory | Pract | Total | | | |
| PEC501 | Design of Mold & Metal Forming Tools | 04 | -- | 04 | -- | 04 | | | |
| PEC502 | Operations Research | 03 | -- | 03 | -- | 03 | | | |
| PEC503 | Machine Design-I | 04 | -- | 04 | -- | 04 | | | |
| PEC504 | CAD/CAM/CIM | 04 | -- | 04 | -- | 04 | | | |
| PEC505 | Metrology & Quality Engineering | 04 | -- | 04 | -- | 04 | | | |
| PEDLO 501X | Department Level Optional Course I | 03 | -- | 03 | -- | 03 | | | |
| PEL501 | Design of Mold & Metal Forming Tools Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL502 | Machine Design-I Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL503 | CAD/CAM/CIM Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL504 | Metrology & Quality Engg Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL505 | Business Communication & Ethics | -- | 02*+02 | -- | 02 | 02 | | | |
| | Total | 22 | 12 | 22 | 06 | 28 | | | |
| Course Code | Course Name | Examination Scheme | | | | | | | |
| | | Theory | | | | | Term Work | Pract. /Oral | Total |
| | | Internal Assessment | | | End Sem Exam | Exam. Duration (in Hrs) | | | |
| | | Test1 | Test 2 | Avg. | | | | | |
| PEC501 | Design of Molds & Metal Forming Tools | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC502 | Operations Research | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC503 | Machine Design-I | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC504 | CAD/CAM/CIM | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC505 | Metrology & Quality Engg. | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEDLO 501X | Department Level Optional Course I | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEL501 | Design of Mold & Metal Forming Tools Laboratory | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL502 | Machine Design-I Laboratory | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL503 | CAD/CAM/CIM Laboratory | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL504 | Metrology & Quality Engg Laboratory. | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL505 | Business Communication & Ethics Laboratory | | | | | | 50 | -- | 50 |
| | Total | | | 120 | 480 | | 150 | 100 | 850 |

* **Theory for entire class to be conducted.**

| Course Code | Department Level Optional Course I |
|--------------------|---|
| PEDLO5011 | Internal Combustion Engines |
| PEDLO5012 | Finite Element Analysis |
| PEDLO5013 | Plastic Engineering |
| PEDLO5014 | Micro and Nano Manufacturing |
| PEDLO5015 | Sustainable Manufacturing |

| | | |
|------------------|----------------------------------|-----------|
| Course Code | Course Name | Credits |
| PEDLO5015 | Sustainable Manufacturing | 03 |

Objectives

1. To introduce basic concepts related to sustainability and sustainable development.
2. To get conversant with indigenous and global concerns about sustainability and its implications in manufacturing.
3. To familiarize with various technological innovations, approaches & environmental standards /legislations to promote sustainable development.

Outcomes: Learner will be able to...

1. Illustrate the agenda of indigenous and global sustainability to fulfil green expectations.
2. Demonstrate the knowledge about management of waste, pollution & energy conservation.
3. Demonstrate the knowledge of sustainability issues with its implementation in manufacturing.
4. Illustrate the relevance and implications of environment friendly materials.
5. Illustrate the implications of environment management in the context of modern industrial practices.
6. Develop the sustainability approach in environmental strategy and manufacturing.

| Module | Contents | Hrs. |
|-----------|---|-----------|
| 01 | Sustainability: Basic concepts related to sustainability and sustainable development. Issues and challenges facing sustainable development. Global & indigenous sustainability agenda, green expectations & green movement. | 04 |
| 02 | Management of waste & pollution: Types, sources and nature of wastes, waste processing, green processing & engineering operations, Energy recovery, and 3 R principle. Types of pollution and management:-Anti pollution approaches & guide lines. | 08 |
| 03 | Management of Energy: Sources of energy, renewable energy, Innovations in generation, conservation, recycling and usage of energy. Energy audit and implications. | 07 |
| 04 | Environment friendly materials : Materials for sustainability , eco-friendly and new age energy efficient and smart materials , alternative manufacturing practices , materials and selection of manufacturing processes , control on use of renewable materials , Bio-degradable materials recycling of materials. | 07 |
| 05 | Environment Management : Innovations for reuse , bio-processing technology , sustainable loading on ecosystems , concept of eco-efficiency and its implementation , Environment analysis from raw materials to disposal (cradle to grave concept) sustainable design and materials for sustainable design , Environmental standards and legislations. ISO 14000, carbon foot print, anti-pollution boards, Environment management in business world, changing scenario in global perspective. | 08 |

| | | |
|-----------|---|-----------|
| 06 | Integrating sustainability approach: Environmental issues in operating strategy, creating sustainable manufacturing, promoting sustainability awareness, sustainability rating schemes, eco-labelling programmes, human values and professional ethics in sustainable manufacturing. Encouraging innovations in sustainable manufacturing. | 06 |
|-----------|---|-----------|

Assessment:

Internal Assessment for 20 marks:

Consisting **Two Compulsory Class Tests**

First test based on approximately 40% of contents and second test based on remaining contents (approximately 40% but excluding contents covered in Test I)

End Semester Examination:

Weightage of each module in end semester examination will be proportional to number of respective lecture hours mentioned in the curriculum.

1. Question paper will comprise of total **six questions, each carrying 20 marks**
2. **Question 1** will be **compulsory** and should **cover maximum contents of the curriculum**
3. **Remaining questions will be mixed in nature** (for example if Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only **Four questions need to be solved**

Reference Books:

1. *Strategic Management of Sustainable manufacturing operations* (Advances in logistics operations & Management) By. Rameshwar Dubey & Angappa Gunabekaran by Imuste Productivity press.
2. *Analysis for Smart energy management: Tools and applications for sustainable manufacturing.* By Seog-chanoh and Alfred .J.Hildreth , Springer Series.
3. *Advances in sustainable Manufacturing* By Gunther Seliger and Marwan M.K. khraishah, Springer Series
4. *Green Management* by M.Karpagam, Geetha Jaikumar, Ane Books Pvt.Ltd.
5. *Design for Environment: A guide to sustainable Product Development.*
6. *Sustainable Development* By M.K. Ghosh Roy Ane Books Pvt.Ltd,

B. E. (Production) Sem.-VIII

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | | Credits Assigned | | | | |
|-------------|--|---------------------------------|-----------|------------|------------------|-------------------------|------------|--------------|------------|
| | | Theory | Pract. | | Theory | Pract. | Total | | |
| PEC801 | Automation and Control Engineering | 4 | 2 | | 4 | 1 | 5 | | |
| PEC802 | Computer Aided Manufacturing | 4 | 2 | | 4 | 1 | 5 | | |
| PEC803 | Engineering Economics, Finance, Accounting and Costing | 4 | -- | | 4 | -- | 4 | | |
| PEC804 | Total Quality Strategy | 4 | 2 | | 4 | 1 | 5 | | |
| PEC805 | Industrial relations and Human Resource Management | 4 | -- | | 4 | -- | 4 | | |
| PEE801X | Elective-I | 3 | 2 | | 3 | 1 | 4 | | |
| | TOTAL | 23 | 08 | | 23 | 4 | 27 | | |
| Course Code | Course Name | Examination Scheme | | | | | | | |
| | | Theory | | | | | Term Work | Pract./ Oral | Total |
| | | Internal Assessment | | | End Sem. Exam. | Exam. Duration (in Hrs) | | | |
| | | Test1 | Test2 | Avg. | | | | | |
| PEC801 | Automation and Control Engineering | 20 | 20 | 20 | 80 | 03 | 25 | 25 | 150 |
| PEC802 | Computer Aided Manufacturing | 20 | 20 | 20 | 80 | 03 | 25 | 25 | 150 |
| PEC803 | Engineering Economics, Finance, Accounting and Costing | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC804 | Total Quality Strategy | 20 | 20 | 20 | 80 | 03 | 25 | 25* | 150 |
| PEC805 | Industrial Relations and Human Resource Management | 20 | 20 | 20 | 80 | 03 | -- | --- | 100 |
| PEE801X | Elective-I | 20 | 20 | 20 | 80 | 03 | 25 | -- | 125 |
| | Total | -- | -- | 120 | 480 | -- | 100 | 75 | 775 |

* Only ORAL examination based on term work and syllabus

List of Electives

| Course codes | Course Name | Course codes | Course Name |
|--------------|---------------------------------------|--------------|--------------------------------|
| PEE8011 | Sales and Marketing Management | PEE8016 | Mechatronics |
| PEE8012 | Logistics and Supply Chain Management | PEE8017 | Industrial Robotics |
| PEE8013 | Plastics Engineering | PEE8018 | Product Design and Development |
| PEE8014 | Entrepreneurship Development | PEE8019 | Sustainable Engineering |
| PEE8015 | World Class Manufacturing | PEE80110 | Maintenance Engineering |

| | | |
|----------------|---------------------------------------|------------|
| Course Code | Course/Subject Name | Credits |
| PEE8018 | Product Design and Development | 3+1 |

Objectives

1. To acquaint with various approaches in designing and developing new products.
2. To familiarize with various software solutions for designing and developing products.
3. To familiarize with modern approaches like concurrent engineering, product life cycle management, robust design, rapid prototyping / rapid tooling, etc.

Outcomes: Learner will be able to...

1. Develop competency in designing and developing products right from the conceptual level incorporating cost effective solutions.
2. Get familiarized with the computer aided product design approach.

| Module | Details | Hrs. |
|-----------|---|-----------|
| 01 | <p>1.1 Introduction: Definition of product design, Classification of products, Design by evolution, Design by innovation, various phases in product development and Design, Morphology of Design, Considerations in product design, Product specifications.</p> <p>1.2 Conceptual Design: Market research, Need based origin of product, Technology driven products, Analysis of ideas from various angles of design methodology and user needs, Function analysis and component process study, 2-D and 3-D representations in the form of concept drawing, Computer generated images, dummy and prototypes.</p> <p>1.3 Materials: Overview of materials including new generation materials, Tailor made material concepts, Material selection process.</p> | 05 |
| 02 | <p>2.1 Design for manufacturing (DFM): Producibility requirements, Accuracy and Precision requirements, Forging and casting design, Design for pressed, mechanical components, powder metallurgical components, Die cast and special cast components, expanded metals and wire forms.</p> <p>2.2 Design for Assembly (DFA): Analysis of assembly requirements, Standardization, Ease of Assembly and disassembly, Design for bolted, welded and riveted components, Design for hinge and snap fit assemblies, maintenance, consideration of handling and safety, Modular concepts.</p> | 05 |
| 03 | <p>3.1 Strength considerations in Design: Criteria and objectives, Designing for uniform strength, Designing for stiffness and rigidity, Practical ideas for material saving in design of ribs, corrugations, rim shapes, bosses, laminates, etc.</p> <p>3.2 Designing with plastics: Mechanical behavior, special characteristics and considerations, Design concepts for product features to be manufactured by various production process technologies, Special considerations for designing of components for load bearing applications, Designing for safety, Reliability and environmental considerations.</p> | 06 |

| | | |
|------------|---|-----------|
| 04 | Value Engineering: Product value and its importance, Value analysis job plan, Steps to problem solving and value analysis, Value analysis tests, Value Engineering idea generation check list, Material and process selection in value engineering, Cost reduction, case studies and exercises. | 04 |
| 05 | 5.1 Product Ergonomics: Anthropometry, Environmental conditions, thermal, noise, vibration, displays, illusions, Psycho and psychological aspects in design, Man-machine information exchange. 5.2 Product Aesthetics: Visual awareness, Form elements in context of product design, Concepts of size, shape and texture, Introduction to colour and colour as an element in design, Colour classifications and dimensions of colour, Colour combinations and colour dynamics, Interaction / communication of colours, Psychological aspects of colours, generation of products forms with analogies from nature. 5.3 Product Graphics: Graphics composition and layout, Use of grids in graphics composition, Study of product graphics and textures. 5.4 Creativity: Role of creativity in problem solving, Vertical and lateral thinking, Brain storming, Synectics, Group working dynamics, Adaptation to changing scenarios in economics, social, cultural and technological fronts, Anticipation of new needs and aspirations. | 10 |
| 06. | 6.1 Software solutions: Software for drafting, modeling, assembly, detailing, CAM interfacing, Rapid tooling/rapid prototyping, etc. 6.2 Modern Applications: Concurrent Engineering, QFD, Robust Design, Sustainable Design, Rapid Prototyping, Rapid Tooling, Product Life Cycle Management techniques and application areas. | 06 |

List of Exercises

1. At least two presentations pertaining to topics selected from syllabus contains.
2. Redesign of an existing product with 3D modeling to solve indentified lacuna present in the product.
3. One assignment on understating design procedure and documenting and interpreting data.
4. One 3-D modeling on colour balance and radii manipulation.
5. One assignment on product detailing of moulded component.

Term Work

Term work shall consist of exercises listed in the above list

The distribution of marks for term work shall be as follows:

- Laboratory work (Experiment/ programs and journal): **10** marks
- Assignments: **10** marks
- Attendance (Theory and Practical): **05** marks

The final certification and acceptance of term work ensures the satisfactory performance of laboratory work and minimum passing in the term work.

Internal Assessment

Assessment consists of two tests out of which; one should be compulsory class test (on minimum 40% of curriculum) and the other is either a class test (on minimum 70% of curriculum) or assignment on live problems or course project.

Theory Examination

In question paper, weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.

1. Question paper will comprise of 6 questions, each carrying 20 marks.
2. Question number 1 will be compulsory and based on maximum contents of the syllabus
3. Remaining questions will be mixed in nature (for example, if Q.2 has part (a) from module 3 then part (b) will be from other than module 3)
4. Total four questions need to be solved.

References

1. *Design Fundamentals*, R. G. Scott.
2. *Design methods inter science*, Jones.
3. *Creative Engineering Design*, Buhl H. R.
4. *The Science of Engineering Design*, Holt, Hill Percy H.
5. *Ergonomics*, Merilyn Joyce, Ulrika Waller Steiner.
6. *Human Factors in Engineering & Design*, 4th edition
7. *Human Engineering Guide & Equipment Design*, Morgon C. T. & Others
8. *Barron D.ed, Creativity*, New York, Art Directors
9. *Design for Production*, Baldwin E. W. & Niebel B. W. Edwin, Homewood Illinois.

| Course Code | Course Name | Teaching Scheme | | | Credits Assigned | | | |
|----------------|---------------------------|-----------------|-----------|------------|------------------|--------------|----------|-------|
| | | Theory | Practical | Tutorial I | Theory | TW/Practical | Tutorial | Total |
| ELX DLO6022 | Electronic Product Design | 04 | --- | --- | 04 | --- | --- | 04 |

| Course Code | Course Name | Examination Scheme | | | | | | |
|----------------|---------------------------------|--------------------------|---------|---------|--------------------------|-----------|------------------|-------|
| | | Theory Marks | | | | Term Work | Oral & Practical | Total |
| | | Internal Assessment (IA) | | | End Semester Examination | | | |
| | | Test I | Test II | Average | | | | |
| ELX DLO6022 | Electronic Product Design (EPD) | 20 | 20 | 20 | 80 | --- | --- | 100 |

Rationale :- The aim of this course is to enable students to gain practical experience & nurture their creativity in electronic product design & the objective is to provide students with a clear understanding of the practical design problems of the electronic products at an introductory level. With this course, students are expected to become familiar with the concept of designing a product as per the requirements (non-technical) & given specifications (technical), component tolerances, production constraints, safety requirements & EMC standards.

Course Objectives:-

1. To understand the stages of product (hardware / software) design & development
2. To learn different considerations of analog, digital & mixed circuit design
3. To be acquainted with methods of PCB design & different tools used for the same
4. To be aware of the importance of testing in product design cycle
5. To gain knowledge about various processes & importance of documentation

Course Outcomes :-

At the end of the course, students should gain the ability to :-

- **CO-1 :-** Design electronic products using user-centered designing processes
- **CO-2 :-** Identify & recognize essential design & production procedures of electronic products
- **CO-3 :-** Implement a prototype for meeting a particular requirement / specification
- **CO-4 :-** Demonstrate problem solving & troubleshooting skills in electronic product design
- **CO-5 :-** Prepare the relevant set of design documentation & present it as a case study

| Module No. | Topics | Hours |
|-------------------|---|--------------|
| | INTRODUCTION TO ELECTRONIC PRODUCT DESIGN | |
| 1 | Man-machine dialog & industrial design, user-centered design, elements of successful design, cognition, ergonomics, packaging & factors; design for manufacture, assembly & disassembly wiring, temperature, vibration & shock; safety, noise, energy coupling, grounding, earthing, filtering & shielding | 06 |
| | HARDWARE DESIGN & TESTING METHODS | |
| 2 | Design process, identifying the requirements, formulating specifications, design specifications, system partitioning, functional design, architectural design, functional model v/s architectural model, prototyping, performance & efficiency measures, formulating a test plan, writing all the specifications, test procedures & test cases, design reviews, module debug & testing – black box testing, white box testing, grey box testing | 10 |
| | SOFTWARE DESIGN & TESTING METHODS | |
| 3 | Types of software, the waterfall model of software development, models, metrics & software limitations, risk abatement & failure prevention, software bugs & testing, good programming practice, user interface, embedded & real-time software | 10 |
| | PRINTED CIRCUIT BOARD (PCB) DESIGNING | |
| 4 | Fundamental definitions, standards, routing topology configuration, layer stack up assignment, grounding methodologies, aspect ratio, image planes, functional partitioning, critical frequency & bypassing, decoupling; design techniques for ESD protection, guard-band & guard-rings | 08 |
| | PRODUCT DEBUGGING & TESTING | |
| 5 | Steps of debugging, the techniques for troubleshooting, characterization, electromechanical components, passive components, active components, active devices, operational amplifier, analog-to-digital conversion, digital components, inspection & testing of components, process of simulation, prototyping & testing, integration, validation & verification, EMI & EMC issues | 08 |
| | THE DOCUMENTATION PROCESS | |
| 6 | Definition, needs & types of documentation, records, accountability & liability, audience, steps in preparation, presentation & preservation of documents, methods of documentation, visual techniques, layout of documentation, bills of materials, manuals – instructional or operating manual, service and maintenance manual, fault finding tree, software documentation practices | 06 |
| 1 – 6 | TOTAL | 48 |

Recommended Books :-

1. R. G. Kaduskar & V. B. Baru, Electronic Product Design, 3rd edition, Wiley India
2. Kim Fowler, Electronic Instrument Design, 2nd edition, Oxford University Press
3. Robert J. Herrick, PCB Design Techniques for EMC Compliance, 2nd edition, IEEE Press
4. G. C. Loveday, Electronic Testing & Fault Diagnosis, 4th edition, A. H. Wheeler Publishing
5. James K. Peckol, Embedded Systems – A Contemporary Design Tool, 1st edition, Wiley Publication
6. J. C. Whitaker, The Electronics Handbook, CRC Press

Internal Assessment (IA) :-

Two tests must be conducted which should cover at least 80% of syllabus. The average marks of both the tests will be considered as final IA marks.

End Semester Examination :-

1. Question paper will comprise of 6 questions, each carrying 20 marks.
2. The students need to solve total 4 questions.
3. Q.1 will be compulsory and based on entire syllabus.
4. Remaining questions (Q.2 to Q.6) will be set from all modules.
5. Weightage of each module in question paper will be proportional to the number of respective lecture hours mentioned in the syllabus

NSS REPORT 2019

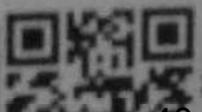
It is said, "Those who do the most for others are the happiest". While it is true that it can be done by just acting as a member, why join the council? The answer is simple. Just helping others is not always enough. True social service comes in convincing others to reach out to the less fortunate as well. We express our heartfelt gratitude towards Prof. Saurabh Koregaonkar and Prof. Dipali Bhise, for their sturdy support and encouragement throughout the year.

Just like every year, our membership drive received an overwhelming response and a team of roughly 100 volunteers was formed. Our first official event was Stem Cell Donation Registration, in collaboration with the NGO, Datri. The event that followed, was the NSS Orientation-2k18 where the activities of the previous year and the objectives of the present year were discussed with the volunteers in the presence of the Principal. In all, we planned to organise four beach clean-up drives this year, out of which three have already been conducted. The first beach clean-up took place at Versova Beach, along with an activist Mr. Afroz Shah and group. Our volunteers got together and cleaned up a plastic-filled beach located adjacent to a slum habitat. The next cleanup drive was organised at Vasai Beach, and the third one again with Mr. Afroz Shah in Malad.

On the beautiful morning of Synergy, CRCE's tech-fest, NSS volunteers gathered together at Bandra Station and marched all the way to college as part of the Anti-Plastic Rally. We received the support and praise of the Bandra police in this enterprise and we believe that we managed to spread knowledge about the harmful effects of plastic, amid the eyes of curious on-lookers in our way. We are grateful to all students as well as faculty members who donated their blood and helped in making the event a huge success. Next was a back-to-back session on Fire Safety Awareness Workshop and Seminar in association with FSAI that helped our students learn the basic techniques of fire safety, i.e. how to operate a fire extinguisher, etc. A tree plantation drive was organised at the Kalina University Campus, where volunteers were taught exactly how a tree is planted so that it gets maximum nutrition and is able to sustain itself.

From the 26th Dec to 1st Jan, the most anticipated 7-Day camp to our adopted village, Khamgoan, Raigad was organised. All program officers accompanied us during the camp. We had various events lined up there such as documenting of village information for the gram panchayat, street plays, career-counselling for school kids, rice factory visits, etc. Throughout the year we have lived up our motto, "Not me, but you" and we will continue doing so. We sincerely thank our college for providing us a platform full of opportunities and for supporting all our endeavours. Cheers!

Lenis Rodrigues
Event Head



FR.CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

Father Angels Ashram Road, Bandra West, Mumbai, Maharashtra 400050.

Phone: 022 6711 4000

REPORT OF ROTARACT CLUB OF FRCRCE

(2018-19)

The Rotaract Club of CRCE has been affiliated with the Rotary Club of Bombay Bandra, which has recognized the efforts that the Rotaract Club of Fr. CRCE has put in order to make a difference to the society. The Rotaract Club of Fr. agnel College (Bandra West) is affiliated to an NGO called Bigger Than Life. Bigger Than Life (BTL) is an NGO who reaches out to the underprivileged children and their families who stay in the slums of Bandstand.

Following are list of events in odd and even semester with its details.

ODD semester events

- **Green Hands Project**
- **NGO Sessions**
- **SYNERGY FEST EVENTS- Foot Pool , Amazing Race**
- **MICDROP**

Even semester events

- **Paws For A Cause**
- **HEART AND SOLE RUN 2.0**
- **Come Together**

Green Hands Project

Date: 28th July, 2018

Venue: Bigger Than Life NGO, Santacruz

Description:

Project Green Hands was undertaken by the Rotaract Club of Fr. CRCE and supported by the Rotary Club of Bombay Bandra. This tree plantation drive was conducted at NGO Bigger Than Life, Santacruz. The children of the NGO actively participated in this drive and they were briefed about the importance of tree plantation.



Fr. Conceicao Rodrigues College Of Engineering, Bandra (W)
National Service Scheme(NSS)

Beach clean up drive

From : PO. Saurabh Korgaonkar

On **15th July, 2017**, Fr. Conceicao Rodrigues College Of Engineering were successful in giving the **Juhu Beach** a new look under the **National Service Scheme(NSS)**. The event took place from 8:30am to 10:30am. All volunteers gathered up at Chowpatty beach at 8:30am.

To give a small boost the **“Swachha Bharat Abhiyaan”**, NSS-CRCE planned their first activity of the year as a beach cleanup activity at Juhu Beach. A lot of our concerned students turned up to give a helping hand in this noble cause. We helped the BMC by collecting 7 bags of 10kg waste. Volunteers were provided with masks and hand gloves. They started cleaning up all the waste materials including broken murti pieces, flowers, plastic covers etc. which were left at the beach. The waste mostly contained plastic which does not decompose easily and causes harm to the marine life.

A total of **26 members** attended the Beach Cleanup drive (including **15 girls and 11 boys**). The BMC were more than happy, that we extended help to them. At the end, the BMC as well as the students felt great pride in seeing the beach all clean. This created a sense of responsibility amongst them for the balance of environment.



Figure 1 Beach Cleanup with BMC

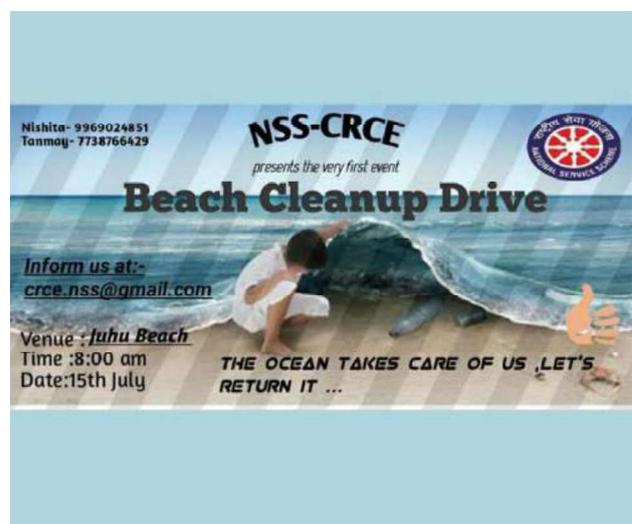


Figure 2 Poster of the event

Fr. Conceicao Rodrigues College Of Engineering, Bandra (W)
National Service Scheme(NSS)

Report On Tree Plantation 2017

From : PO. SaurabhKorgaonkar

On 22nd July, 2017, Fr. Conceicao Rodrigues College Of Engineering successfully completed the event of Tree Plantation under the National Service Scheme. Trees are the foremost source for producing the oxygen in environment, they helps to reduce the level of CO₂. As we all know that the whole world is facing the problem of global warming and to recover from such problem planting the trees is become one of the most important aspects today.

NSS CRCE took the initiative to contribute to a **Greener and Healthier Mumbai** through its Tree Plantation drive. A total of **35 NSS members** participated in the drive. Event Heads from NSS CRCE RusselRodricks and Vanessa Rodricks, lead the drive. The tree plantation drive was inaugurated by our Prof. HitendraBaboodasVaishnav, thereafter it was taken up by the volunteers for the rest of the saplings.

A total of **32 saplings** were planted in EvershineCity, Vasai (E). They consisted of robust plants of two varieties, apt for roadsides and were planted alternatively. The BMC supplied the required plants. The plantation began at 1:00 pm and took approximately 2 hours to complete. A sense of satisfaction flared on each one's face in giving back to the nature. NSS is thankful to Prof. Hitendra all the members for their valuable contribution in this drive.



Volunteers all set for the Plantation Drive



On completion of the Plantation Drive

Fr. Conceicao Rodrigues College Of Engineering,Bandra (W)
National Service Scheme(NSS)

Report On Crowd Management (5th September 2017)

From : PO. SaurabhKorgaonkar

On **5th September, 2017**, Fr. Conceicao Rodrigues College Of Engineering successfully completed the event of **Crowd Management** under the National Service Scheme. The volunteers gathered at the **Juhu Police Station** where the Police gave them instructions regarding managing the crowd. Thereafter members were allotted places to manage the crowd. They occupied all the bottleneck areas where the probability of the crowd making hindrances to the flow was high.

The members made sure the queue was maintained and all the pedestrians were not facing any issues. All the members worked hard to make it a successful event. A total of 20 volunteers (**including 7 girls and 13 boys**) participated in the event. The volunteering began at 3:30pm and got over by 8:30pm. All of them gave their valuable time & worked during peak hours. All the authorities present there thanked the volunteers for extending a helping hand in managing the crowd.

FR.CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

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REPORT OF ROTARACT CLUB OF FRCRCE

(2017-18)

The Rotaract Club of CRCE has been affiliated with the Rotary Club of Bombay Bandra, which has recognized the efforts that the Rotaract Club of Fr. CRCE has put in order to make a difference to the society. The Rotaract Club of Fr. agnel College (Bandra West) is affiliated to an NGO called Bigger Than Life. Bigger Than Life (BTL) is an NGO who reaches out to the underprivileged children and their families who stay in the slums of Bandstand.

Following are list of events in odd and even semester with its details.

Odd Semester Events

1) Footpool :

Footpool was the first event organised by The Rotaract Club of Fr.CRCE 2017-18. It took place on the day of Synergy, 24 August at the Gymkhana at the 6th floor from 11am to 2pm. Footpool was a one participant, time and skill based event where each participant had to pot footballs in an arrangement made similar to the pool table.

2)Amazing race :

The Amazing Race was the second event organised by The Rotaract Club of Fr.CRCE 2017-18. It took place on the day of Synergy, 24 August around 4pm, outside our college premises, around Bandra west. The Amazing Race was a team based, treasure hunt, where teams of 3 (max 4) had to put their minds to test and look for clues, with the first clue being given at the college Basketball court, from where the race essentially began. The event lasted for two hours and the last clue led the teams back to the college.

3) Donation Week

- First week of August

- A week of college students donating something for charity in boxes placed around college

4) Trek

The footslog i.e. the annual trek is an initiative taken by the Rotaract club of FR.CRCE to build companionship amongst the students of various BE courses. It was a trek amidst nature that the Prabalmachi Fort had to offer. It was a one day trek and the guarantee of their safety was taken by the Rotaract council. This trek was scheduled on the 24th of September.

Even Semester Events

1) Cleanliness Drive

The Clean Up Drive was an initiative taken up by the Rotaract Club of Fr.CRCE so as to promote awareness of the environment. The event took place on the **21st of January, 2018 (free of charge) at the Mahim beach opposite Hinduja Hospital** with a footfall of about 40 volunteers from college. All the garbage the volunteers collected was safely deposited and taken care of by the BMC

2) Installation Ceremony

The Rotaract Club of CRCE has been affiliated with the Rotary Club of Bombay Bandra, which has recognized the efforts that the Rotaract Club of Fr. CRCE has put in order to make a difference to the society. The Rotary Club of Bombay, Bandra wished to honour the Rotaract Club of Fr. CRCE and officially install the team of Rotaractors. This event witnessed the presence of the President of the Rotary Club of Bombay Bandra and other dignitaries. This event took place on the **17th of February, 2018.**

3) Marathon

The Heart and Sole run was an initiative taken up by the Rotaract club of Fr.CRCE so as to gather the zealous youth of the city to run for a cause. The run was organised in association with the NGO bigger than life who work for the betterment of the underprivileged slum children at bandstand. Participants could choose between **3 distances namely 12km, 6km, and 1.5km.** Taking place on the **4th of March 2018,** the runs would begin at the foot of Fr. Agnells Ashram at bandstand and would span almost the whole of Bandra West and return back to the starting point for the finish line.

4) Come Together

Come Together was the final event of the academic year 2017-2018, organized by The Rotaract Club of Fr. CRCE. This event was conducted to celebrate the journey of The Rotaract Club of Fr. CRCE throughout the year. It took place on **22nd March, 2018 from 5:00pm - 8:30pm** in SAMVAAD. It was an open event that was also used as a platform to create an awareness about Bigger Than Life and to showcase various talents of the wonderful children of the above mentioned NGO. Along with this, the event witnessed 5 motivational speakers from different walks of life, who shared their life stories and inspired the children and the audience.

- A variety show to raise money for charity
- A fundraiser event

REPORTS

Regular NSS Activities

1. Rakhi Event (Happy Hours Workshop):

Happy hours workshop is a centre for multiple handicapped people. It sells handicrafts such as keychains, paperbags, bracelets etc. The NSS unit of CRCE felt great joy in assisting this workshop to sell rakhis and other handicrafts on the special occasion of RakshaBandhan. The rakshabandhan stall was put up at the entrance of the college from 10:45 am to 4:45 pm. A member of the workshop joined to help us sell rakhis. The response that we got from the crowd was very good. A lot of people came in to show their support by buying these special rakhis. At the end of the event, teachers also came in to encourage, motivate and support us.

2. Poster Making competition (CRESCENDO'16):

Poster Making competition was a colourful delight. The topic given was "Swachha Bharat Abhiyan". We provided the participants with all the stationery required such as paints, A3 size drawing sheets, pencils, etc. We got fabulous entries which beautifully portrayed the topic. Teachers judged the posters depending on their concept, beauty and skill and best 3 posters were awarded.

3. Mumbai Behind The Scenes (CRESCENDO'16):

Mumbai Behind the Scenes was a photography event. The participants had to click a picture and edit it to show their version of Mumbai. The photographs had to be based on a social cause such as animal rights, ageism, bullying, child labour, etc. We had numerous participants. We received multiple entries which depicted the social scenarios on a humongous scale.

The competition was very tough. After judicial scrutiny, the faculty selected top 3 entries which portrayed the cause as expected.

4. Walkathon:

Walkathon is a rally to spread awareness about organ donation. All members of NSS had gathered from around the city to take part in this rally. The rally started from Nariman Point at 7am and was till 9am. The Chief Minister Devendra Fadnavis and a lot of other ministers also joined us in the rally to show their support. The members were all provided with organ donation t-shirts and banners. The members were enthusiastically chanting slogans "Avyavdaan, jivaandaan". At the end, all members were provided with refreshments.

5. Ganpati Visarjan Crowd Management:

The event took place at Juhu beach. The volunteers first gathered up near Juhu Police station. The police accompanied them to the location. Then they divided the volunteers into groups of two and gave them different positions to handle the crowd. They were supposed to stop non residents from entering the residential area and make sure the crowd didn't block the roads.

The event started at 4pm and ended at 8:30pm. Teachers also accompanied them for supervision. The volunteers were provided with refreshments during the event.

6. Beach Cleanup Drive:

This event took place on 11th September at Chowpatty beach. The event took place from 7:30am to 10:30am. This event was in collaboration with Namaste Foundation. All volunteers gathered up at Chowpatty beach at 7:30am. Volunteers were provided with masks and hand gloves. They started cleaning up all the waste materials including broken murti pieces, flowers, etc. which were left at the beach during the GanpatiVisarjan. At the end, they felt great pride in seeing the beach all clean. The volunteers were provided with refreshments during the event.

7. Blood Donation Drive(ODD SEM):

This year our college's NSS unit had organized a Blood Donation camp in our college campus on Friday,30th September'16 in collaboration with Tata Memorial Hospital. All the NSS volunteers were assigned time slots according to their classes for volunteering.

The blood donation drive was held from 9am to 5pm in the school auditorium. Active participation was seen right from the first hour of the blood donation drive. The HOD of Electronics department also made his part of contribution.

By the end of the blood donation drive, a total of 99 successful donors were listed. The total participation for the blood donation drive was around 120. Rest were rejected because of several reasons like weight below the minimum level, haemoglobin less than the required range, surgeries within a time span of 6 months, regular cold, cough, etc.

Few rare blood groups like O-ve, B-ve, A-ve were also collected. By this one more successful event came to an end. It was the dedication of the NSS council members and the donors because of whom this drive was a huge success and we hope that everything what was donated be able to use at the right time, perhaps to save someone's life.

8. Road Safety Event:

Rider Safety was a Seminar cum Training Program conducted by the NSS Council in collaboration with United Way Mumbai on 1st October 2016.

The event started at 10am and comprised of a 3 and half hour seminar in which members learned about how to ride safely, road signs and markings, motor insurances and maintenance, personal protective equipments to be carried and how to handle emergency situations. In the one and half hour demonstration, a professional rider practically taught the members how to ride a bike safely. The response from the crowd was very enthusiastic. The members were provided with refreshments during the event.

9. Diwali Event(Happy Hours Workshop):

Happy hours workshop is a centre for multiple handicapped people. It sells handicrafts such as keychains, paperbags, bracelets etc. The NSS unit of CRCE felt great joy in assisting this workshop to sell handmade diyas, lanterns, Diwali items and other handicrafts on the special

occasion of Diwali. The Diwali stall was put up at the entrance of the college from 10:00 am to 4:00 pm. A member of the workshop joined to help us sell their Diwali handicrafts. The response that we got from the crowd was very good. A lot of people came in to show their support by buying these special diyas and lanterns. At the end of the event, teachers also came in to encourage, motivate and support us. Everyone appreciated their art work.

10. Visit to Old Age Home (Snehasadan):

NSS CRCE organized an Ashram visit to Snehasadan Ashram on 27th October, 2016(Thursday). Snehasadan is an Old age home. The NSS volunteers reached the ashram at 10:30 am and initiated by speaking to all the elderly people present. Volunteers continued to entertain the elders by singing and dancing with them. Old clothes, fruits and eatables were donated. Personal donations were also collected from the volunteers for the ashram. Volunteers left at 12:30 pm. This event was a great opportunity to spread smiles amongst our elders and a chance to get blessings and love from them.

11. MU's 160th Convocation ceremony(Live telecast):

NSS-CRCE attended the live telecast of the 160th Convocation ceremony of the Mumbai University. It was held on 16th January, 2017 at the sports complex of Mumbai university, Kalina. It started at 10:15am and ended at 12:30pm. The chief guests for the event that took place at Fort, Mumbai University were Governor of Maharashtra, Shri Vidyasagar Rao and Chairman and Managing director of Reliance Industries Ltd., Dr. Mukesh Dhirubhai Ambani.

12. Safecity's Workshop on sexual harassment:

NSS CRCE organized a SAFECITY Workshop in collaboration with the Red Dot Foundation on 18th January'17 from 1pm to 3pm. This workshop aimed to tackle sexual harassment and sexual abuse. Have you ever been in a situation where someone made you feel uncomfortable and unsafe? Has someone passed comments or touch/grope you while you were traveling in local trains, buses, shared autos or just walking down the road. But you didn't raise your voice or report it because you were too embarrassed, ashamed or just didn't want to get into trouble with the cops. Here's a solution to all your problems :

1) Go to www.safecity.in

2) Report the What When and Where of the incident. Safecity organization will show the area of crime with a red dot on the maps so that next time when someone is traveling in that area, they can be careful. If a lot of reports are made in a certain area, then we collect the crowdsourced data and report it to the police. PLEASE NOTE YOU DO NOT NEED TO PROVIDE YOUR NAME TO REPORT THE CRIME. IT IS TOTALLY ANONYMOUS.

13. United way Mumbai's Hepatitis B training:

NSS CRCE organised on 19 January, 2017 a Hepatitis Workshop with collaboration with United Way of Mumbai. In this workshop students were trained to be a part of the Green Ribbon

Brigade. As a part of this brigade their job would be to spread awareness about hepatitis through street plays, rallies and door to door interactions.

14. United Way Mumbai's Advanced training on Road Safety:

NSS CRCE organized a RIDER SAFETY Workshop in collaboration with United Way of Mumbai on 20th January'17 from 2pm to 5pm. In this workshop, members were taught about :

- 1)Effect of speed on the vision of rider
- 2)Measuring your helmet size correctly
- 3)Different Helmet Standards
- 4)Effect of alcohol on the vision of the rider
- 5)Regular Maintenance of your bike

This was a advanced training session of the previous workshop held in October 2016.

Members who attended both the workshops were awarded with certificates.

15. Voter's Registration drive:

NSS CRCE organized a Voter's Awareness Drive on the occasion of National Voter's Day on 25th January 2017. It started at 9am and went on till 5pm. As a responsible citizen, it is our right and duty to cast our votes to bring out changes in our government.

Let's spread this message and make maximum number of people participate in the upcoming BMC elections.

NSS volunteers distributed voter's registration forms to everyone. These forms were to be filled and submitted to their respective wards to obtain a Voter's ID.

16. Blood donation drive(EVEN SEM):

This year our college's NSS unit had organized a Blood Donation camp in our college campus on Friday, 3rdFebruary'17 in collaboration with Tata Memorial Hospital. All the NSS volunteers were assigned time slots according to their classes for volunteering.

The blood donation drive was held from 9am to 5pm in the school auditorium. Active participation was seen right from the first hour of the blood donation drive. The HOD of Electronics department also made his part of contribution.

By the end of the blood donation drive, a total of 100 successful donors were listed. The total participation for the blood donation drive was around 120. Rest were rejected because of several reasons like weight below the minimum level, haemoglobin less than the required range, surgeries within a time span of 6 months, regular cold, cough, etc. Few rare blood groups like O-ve, B-ve, A-ve were also collected. By this one more successful event came to an end. It was the dedication of the NSS council members and the donors because of whom this drive was a huge success and we hope that everything what was donated be able to use at the right time, perhaps to save someone's life.

17. Voter's awareness rally:

On 6th February'17,NSS CRCE participated in a voter's awareness rally. This event was organized by the Mumbai university. It started around 7:45 am,where volunteers and councils of different colleges assembled at National college (Bandra). The rally which was expected to end at Bandra station was rerouted towards bandstand. We screamed slogans like"aaram Haram hai","vote do vote do,21st Feb ko vote karo" etc.Charts and placards were distributed and showcased. We halted at the garden opposite CRCE which marked the end of the rally.

18. Juhu beach cleaning:

NSS CRCE organised a 'Beach Cleaning Drive' at Juhu Beach from 8:30am to 10:30am on 12th February'17. A significant change was observed in the cleanliness of the beach after our drive. The volunteers worked hard to clean all the trash on the beach. We were successful in creating awareness about the importance of cleanliness.

Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

‘Juhu Beach – Clean Up Drive’

On Wednesday, January 21, 2016, the NSS Unit of Fr. CRCE undertook a cleanup drive at Juhu Chowpatty.

Volunteers gathered at Juhu Beach, and undertook the cleaning of various types of waste, being it degradable or non-degradable.

While undertaking the cleanup drive, Volunteers also interacted with a member of the Juhu Morning Walkers Association, and explained about the plans prepared for the beautification of Juhu Beach and also invited them for the same.

The waste was collected, and disposed properly in the garbage bins provided at Juhu Beach.

(Programme Officer)









Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

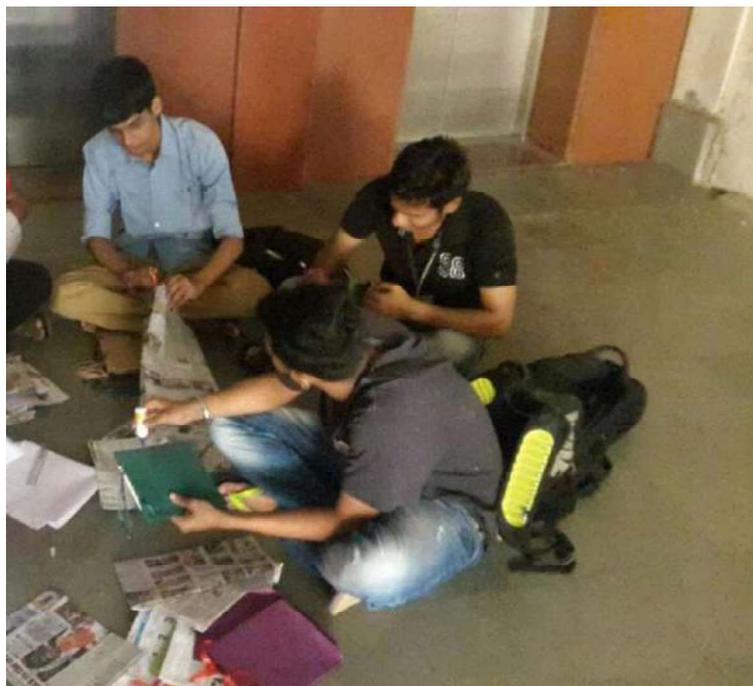
“Paper Bag Making and Distribution”

The NSS Unit of Fr. CRCE organized a paper bag making drive, on January 23, 2016 to spread awareness about the importance of using degradable and environment friendly bags

Volunteers prepared bags at home and college using newspapers, and also distributed them amongst shopkeepers and stalls around the college and residence

While distributing bags, volunteers informed them about the significance of using paper bags and also requested them to avoid using plastic bags whenever possible.

(Programme Officer)





Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

“Electricity Management”

The NSS Unit of Fr. CRCE is organizing an Electricity Management Project wherein the volunteers are attempting to try and help few families to save electricity at their homes or at their workplaces.

Initially, volunteers collected a small data from various families through a small survey. After collecting the data, it was analyzed by the volunteers themselves and was shared with the respective families.

The initial phase was carried out from January 28, 2016 to February 2, 2016.

Volunteers will proceed to help the families in lowering their electricity consumption by tracking their electricity bills after a certain amount of time to be decided.

(Programme Officer)







Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

'Seven Day Camp – Khamgaon'

Date: December 24, 2015 – December 30, 2015.

Attendance: 25 (20 M + 5 F)

The NSS unit of Fr. Conceicao Rodrigues College of Engineering organized the annual 7 days camp from December 24, 2014 to December 30, 2015 at Khamgaon, Raigad District, with the motive of serving the people of rural India in the best possible way. A unit consisting of 25 students participated for the camp. The main aim of this camp was:

- Deepening River Bed
- Transferring Soil
- Rainwater Harvesting
- Educating Villagers about Sanitization
- Educating villagers about social situations.

Day 1 (December 24):

The NSS Unit begin their journey to Khamgaon from Bandra, Mumbai along with the Programme Officer - Mr. Saurabh Korgaonkar at 8 am. A halt for breakfast was taken in between, and after arriving at the camp site at 2 pm, volunteers had their lunch.

After lunch, volunteers settled, kept their luggage in their room and rested till 4 pm. On the occasion of Datta Jayanti, volunteers decided to put up an act for the community. Volunteers prepared a skit with a social message of cleanliness and also put up a musical performance to entertain the villagers. Our unit also witnessed performances put up by the villagers themselves. After the programme, dinner was served. After dinner, the schedule of the next day was explained and later on volunteers departed to their rooms. Lights shut at 10 pm.

Day 2 (December 25):

Volunteers began their day at 7 am, and had their breakfast at 7:30 am. After breakfast, the work was explained, and everyone proceeded to the work site. The camp site contained a pit of grass which had to be separated and later dug for rainwater to be harvested. Volunteers separated the grass till noon and collected it. Later on it was disposed of. Work continued till noon.

Volunteers returned to the place of stay, refreshed themselves and had their lunch. After taking some rest, Volunteers headed to a nearby village where they interacted with them, sharing their stories, and discussed about certain affairs. Volunteers returned to their place of stay before sunset. After a short duration, dinner was served, and lights were switched off by 10 pm.

Day 3 (December 26):

Like the previous day volunteers began their day at 7 am, and had their breakfast at 7:30. And proceeded to continue the work done on Day 2. Volunteers started digging the pit, and a considerably large amount of the site was dug, and work was completed. Volunteers then later returned to refresh

themselves. After having their lunch, took some rest, and were divided into groups, and were instructed to prepare skits based on social issues and sanitization. Volunteers were immersed in their preparation. After few hours of discussion and preparation, dinner was served, and lights were shut at 10 pm.

Day 4 (December 27):

Volunteers were assigned a new work today. The work being transferring of fertilized soil as well as deepening of river bed. Volunteers worked till noon. And later proceeded for lunch and took some rest.

After rest, volunteers performed a Play teaching villagers the importance of use of toilets. And also had a short interaction with them. Volunteers returned to their rooms later, had dinner and proceeded to sleep. Lights shut by 10 pm.

Day 5 (December 28):

Volunteers continued with the Day 4 work, and deepened the river bed, to allow the ease of flow of the river water after the commencement of rains. Volunteers worked till noon.

In the evening, the unit visited the nearby locals, and along with few children put up 3 plays on the issues of Blind faith (Superstition), Abortion, and Child Marriage.

The day concluded. Lights shut by 10 pm.

Day 6 (December 29):

A new task was given to the volunteers today, and undertook cleaning activities of a nearby school. Volunteers worked till noon and after refreshing themselves, proceeded for lunch. After some rest, and interaction with the Villagers of KasarMalai, a short concluding ceremony was conducted by the villagers for the Unit, where everyone shared their experiences.

Dinner was later served, and lights were shut by 10 pm.

Day 7 (December 30):

The last day, volunteers completed the remaining work of the river bed and also cleared a well. Volunteers packed their bags, and after thanking the villagers, the unit left the camp site at 3 pm. The Unit reached Bandra, Mumbai at 8 pm.

The Camp Concluded.

(Programme Officer)







With the permission of the Program Officer, the students were then allowed to play games of their choices on the ground within the camp site. At 7:30pm the unit was called back. Soon after the unit freshened up, dinner was served. From 8:00pm to 9:00pm. The NSS unit then interacted with the children of NavjeevanCenter. Both the groups performed various dances, sung songs and made the evening memorable for everyone. The lights for day1 were switched off at 10:00pm.

21st September, 2014:

As per the schedule, the NSS unit was served breakfast at 8:30am followed by the Attendance call and then the unit proceeded for completing the remaining work.

The first session for the day began at 9:30am. The entire work (Grass cutting and Road Building, Dam Repairing, Village Survey) was successfully completed by 12:30pm by the unit. The unit then had its lunch by 1:30pm and began packing their belongings. After the packing was done, all the senior council members along with P.O Mr. Rao met the manager and gave him a token of appreciation for his and his team's helpful support throughout the camp. The manager also, in return, appreciated the work, efforts and dedication shown by the NSS unit of Fr. CRCE.

The unit started their return journey at 4:00pm with deep feeling of satisfaction within each individual's heart of having done something useful and making a countable contribution for the society. The unit reported back to the college at 8:30pm where the camp was officially declared finished.

Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

THE NSS 7 DAYS CAMP

The **NSS unit of Fr. Conceicao Rodrigues College of Engineering** had organized a 7 days camp from **19th December 2014 to 25th December 2014 at Khamgaon, Dist: Raigad** with the motive of serving the people of rural India in the best possible way. A unit consisting of 35 students participated for the camp. The main aim of this camp was:

- Deepening Trenches
- Building Bunds
- Making a Garden for Villagers
- Indexing and Arranging the Books in the Village Library

Day-1:

On the 19th December 2014, the unit along with Program Officer Prof.V.B.Rao left from Mumbai at 9:00am and reached Khamgaon at 3:00pm. The unit was welcomed by **Mr. Amol and Mr.Pratik**. Under the supervision of the Program Officer Prof.V.B.Rao proper arrangements of accommodation of Males and Females were done.

After freshening up the Unit had Lunch in a house in the village and took rest till 5:30pm. The villagers had organized an opening ceremony which was blessed by the presence of many village authorities. During the ceremony the unit was informed about the present scenario of the village and the problems faced by the villagers. A very inspirational and motivational speech was given by all the dignitaries which made the unit more enthusiastic about the camp. The Camp In-charges informed the unit about the decorum to be maintained during the camp. And thereby the camp was declared open. A meeting was called by Mr. Amol and Mr.Pratik with all the NSS council members to revise the schedule of the entire camp.

The students returned at 8:00pm. Dinner was served at 9:00pm. The lights were switched off at 10:30pm.

Day-2:

On the 20th December 2014, breakfast was served at 7:30am. After the breakfast, at 8:30am, the unit was then divided into groups so as to ease the functionality during the tasks in the camp. All the students were taken at the work site. After reaching at the site, all the students were informed about the work they had to do and the way in which the work was to be done by the villagers. The work of deepening the Trenches started at 9:00am. A Trench is a type of Excavation or depression in the ground that is generally deeper than it is wide and narrow compared to its length. Trenches are dug to reduce the speed of flowing water in monsoon in order to help water percolate into the group and activate springs. The unit worked in their groups, work was done under the supervision of the Camp In-Charges. Soon after, the students were taken back to the place of residence

where the lunch was made ready by 1:00pm. 2:00pm-3:30pm was decided as the spare time where students could take rest.

At 3:30 pm the unit was taken to the Jan Jagruti Centre, this center was built by the villagers as a meeting place, where all the meetings or cultural events of the village took place .Few children from the village had assembled there to register for the Fancy Dress competition (hosted by the NSS unit) which was to take place on 20th of December. The Registrations were done and the NSS Members interacted with the children and helped them decide about the costume and presentation for the competition. As per the schedule dinner was prepared and served by the NSS-Volunteers and lights were switched off at 10:30pm.

Day-3:

On the 21st of December 2014, as per the schedule, breakfast was served and at 8:30 am all the students were taken to complete the remaining work of the Trenches. By 1:00pm, the unit was able to complete the work of the trenches. The unit was taken for lunch thereafter.

At 3:30 pm after rest the Unit headed to the Jan Jagruti Centre where the volunteers prepared kids for the Fancy Dress Competition, dressing one as Jijabai the other as Shivaji, someone as Gabbar Singh while someone as Gandhiji giving the message of Peace and so on. There were a total of 20 participants, the competition Judged by two Village authorities and the two NSS-Council Members went on from 4:30 to 6:30 pm. Three best participants were declared Winners and were given gifts from the NSS Council. After spending time with the Children the members returned for Dinner, Dinner was served at 8:30 pm Lights were switched off at 10:30pm.

Day-4

On 22nd December 2014, at 8:30 am after breakfast the unit was taken to a lakeside where Bunds had to be built. Under the guidance of the Program Officer and the Camp-incharge the Volunteers completed 60% of the work by 1:00pm after which Lunch was served. The Unit resumed work at 3:00pm and finished the work at 6:00pm. After completing the assigned task, unit was taken back to the residence. After the snacks, at 7:00pm, different topics were given to the groups on which they had to prepare a skit and perform on the final day of the camp i.e. 24th December. At 9:00pm dinner was served by the NSS-Volunteers and the lights were switched off.

Day-5:

On 23rd December 2014, at 8:30am the unit was taken to the work site. The Work for day -5 was:

- To clean the piece of land and build a Garden there.
- Indexing and arranging of books in the Village Library.

The unit was divided into two Groups and went ahead to work. The unit continued work even after Lunch. After Tea and some snacks, the Unit prepared Beautiful Posters to enlighten the villagers on Social Issues and explained how to overcome them. The Posters were loved by the Villagers and put up in the Jan Jagruti Centre as a memory of the NSS Unit. The unit returned to the residence and the female volunteers helped in preparing dinner. Dinner was served at 9:00pm and lights were switched off at 10:30 pm

Day-6:

On the 24th December 2014, at 9:00am all the groups of the NSS unit took up the works of building the garden and arranging the books in the Library. Under the supervision of the Camp In-Charges, major part of the work was completed by lunch . The unit was taken back to the place of residence and the lunch was served. At 3:30pm, the volunteers resumed to continue the remaining part of the work which was done till 5:30 pm.

After which many of the villagers attended the Skits prepared by the various groups of the NSS-Unit. 3-Skits of 20-25 min. Each were presented by the Unit followed by a village survey. The unit was then taken for Dinner and the lights were switched off at 10:45 pm.

Day-7:

On the 25th December 2014, at 8:30am, the unit got back to the unfinished work of the previous day and completed it by 11:30. The empty space was transformed into a beautiful garden and around 450 books were indexed and arranged in the Library. At 12:00pm a send-off ceremony was arranged for the unit in presence of the Sarpanch of Khamgaon Gram Panchayat, other Gram Panchayat members, Camp In-Charges Mr. Pratik and Mr. Amol and few villagers. SARPANCH gave a very emotional and inspirational speech to all the members. Few of the NSS members also shared their experience about the camp. They also shared their feelings and thoughts regarding the immediate changes which the rural India needs in order to develop as a whole. They extended their thanks to all the people who helped the unit to complete all the assigned tasks within the given time frame. The most important part of their thoughts was the SELF SATISFACTION they got by participating in this camp. All the guest of honors appreciated the work of the NSS unit and was very happy to see youngsters work for the welfare of the country apart from their hectic college schedules. Token of love was given to the Sarpanch, Camp In-Charges and all the dignitaries present there by the NSS unit. The villagers felicitated all the NSS members with roses for their splendid work and the dedication to work for a better India. At 1:30pm, the NSS unit started with their return journey with lots of memories in moist eyes to cherish in the future. The unit reached Mumbai at 8:00pm.

With the efforts of the NSS Council 2014-15, a wonderful 7-Days Camp came to an end.







Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

Clean My Mumbai Campaign

Date: 1st March, 2015

On 1st March 2015, The Hindustan Times (HT) held the "Clean My Mumbai" Campaign at Hill Road, near Stanislaus School ground (the gathering point). The members of NSS CRCE, actively participated in the campaign. Everyone involved in the campaign gathered around 8:00 am at the gathering point. The volunteers of Hindustan Times gave instructions to all the present members and also enlightened them about the need of cleanliness in our city. The organizers provided each and every volunteer with face masks, gloves, brooms and caps to facilitate our work. All the members were divided into groups. Each assembled groups were allotted an area to be clean. We set off to clean the beach by 9:00am sharp. NSS Volunteers, whole heartedly cleaned the streets of Hill Road along with students from different schools who participated with in the campaign. The event was called off by 11:00 am. By the end of this applaudable initiative by The Hindustan Times (HT), the streets of the area were left spic and span. All the members were provided with refreshments and granted leave.





Happy Hours Community



Artefacts for sale



Staff members showing support through purchase



Fr. Conceicao Rodrigues College Of Engineering, Bandra (W)
National Service Scheme(NSS)

Report On Stem Cell Donation Drive 2017

From : PO. SaurabhKorgaonkar

On 9th September, 2017, Fr. Conceicao Rodrigues College Of Engineering successfully completed the event of Stem Cell Donation under the National Service Scheme. The **Stem Cell Donation Drive** had the objective of collecting very small amount of blood samples and provided a match is found donor will be called for donating blood to needy cancer patients to cure cancer.

NSS CRCE took the initiative to contribute by providing as many as blood samples to the drive. A twwhooping**226** registrations were done in the drive. Event Heads from NSS CRCE RusselRodricks and Vanessa Rodricks, lead the drive. The Blood Donation Drive was conducted by **Tata Memorial Hospital, Parel** and it was taken up by the volunteers to help donors and the team from the hospital to manage the same.

The event was held from 10 am-4:30 pm .The hospital team was 3 Doctors including **Dr. Praveen Clement** with 8 trainees. The volunteers were allotted 1 hour batch wise for doing the needful for the event.**57 volunteers (30 boys and 27 girls)**extended a helping hand in the management of the event in turns.



**Team of Doctors and Trainee from Tata
Memorial Hospital Parel**



Staff Donating Blood Sample



Volunteer Donating Sample



After Event.

NGO Sessions

The Rotaract Club of Fr. CRCE conducted Three Projects with the NGO Bigger Than Life. The name of the projects were:-

1. **Awaaz**:- Project Awaaz was conducted in the month of August at the Santacruz branch of the NGO Bigger Than Life. Following things were covered in this project

- Non Violence
- Gender equality
- Self Defense
- Good Touch Bad Touch

2. **The You Project** :- The You Project was conducted in the month of September with the kids of the NGO. This project was our attempt to make the kids self sufficient and inculcate good values in them. This project covered

- basics to first aid
- Facts
- Self appreciation
- values and morals

3. **We Are The World**:- We are the world was the final project for the year and was conducted in the month of January. This particular project was focused to enhance the creativity and observation power of the children. We are the world covered

- Take flight with the kite
- Sea's the day
- DIY: Paper Bag
- Plants and endangered species



Paws For A Cause

Date: 9th February, 2019

Venue: The Welfare of Stray Dogs, Lower Parel

Footfall: 3 batches of 10 people each

Timing: 10am-1pm

Description:

Paws for a Cause was Rotaract's Initiative for creating awareness about animal welfare, while also having a chill session- playing with dogs. 3 batches of 10 were made, and the batches were headed by two Club members. Each batch had a session of 1 hour each. The volunteers were given tasks like feeding, bathing, brushing the fur, and walking the dogs. The supervisors at the organisation were giving helpful tips and information about animal care.



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

National Youth Day Celebration

Date: 12th January, 2014

On 12th of January, Youth Day is celebrated all over the nation. On this occasion MDACS & NACO in collaboration with SAARC organized a National level event. For this program the famous Actor Mr. Ajay Devgan, Brand Ambassador of SAARC was part of the event. Also the Health Minister, Maharashtra; MLA & MP, Principal Secretary; Joint Secretary, NACO; Municipal Commissioner, MCGM & Addl. Municipal Commissioner (W/S), MCGM graced their presence in the event. This event took place at Hotel Rangsharda, Near Lilawati Hospital, Bandra Reclamation, Bandra (West) from 10.00 am to 1.00 pm.

At the very beginning at this event a skit was performed by NSS Unit of one of the colleges from Mumbai. The main aim of the skit was to spread awareness about AIDS, its causes and preventions to be taken. After the skit all the dignitaries spoke a few words about preventive measures to be taken by youth along with the government to reduce HIV patients. Mrs. Meena, who is an AIDS patient herself, spoke a few words on stigma discrimination by telling us her inspiring life story. At the end of the session Mr. Ajay Devgn held an interactive session with students about AIDS awareness. After this session the event was called off.



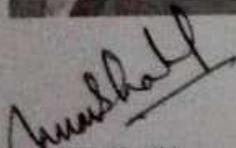
Ratna Nidhi Charitable Trust Book Sorting

TEDxCRCE organised a book sorting session on February 23, 2019 at Ratna Nidhi Charitable Trust, Grant Road (E). Ratna Nidhi is proud to partner and lead with Alibaba Group's Mission Million Books. The project seeks to distribute 1 million educational books Free of Cost to 10,000 educational institutions in India.

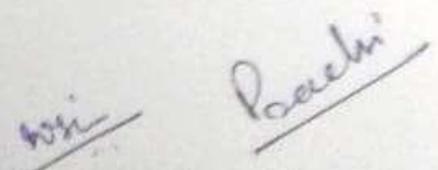
The project aims at educating young India by cultivating reading habits among children and provides access to quality reading material.

During the session, our volunteers sorted around 4000+ books according to their categories which included Engineering, Medical, Entrance Exams, Stories & Novels etc. 7 volunteers from TEDxCRCE were part of this drive. The books that were sorted are used by underprivileged children across Mumbai for their better future. With this drive, TEDxCRCE continues to serve the society.




Aman Shaikh

Community Head, TEDxCRCE


Prof. Prachi Patil
Faculty incharge, TEDxCRCE

Ratna Nidhi Charitable Trust Volunteering Drive

1. Aman Sheikh
2. Jaison Dsouza
3. Aditya Khajuria
4. Ishpreetkaur Dham
5. Saptarshi Chatterjee
6. Kraig Fernandes
7. Tanmay Ghadi

BANDRA FAIR

TEDxCRCE conducted its one of the most awaited events – “The Bandra Fair”. This is a part of our community events aimed at serving for the society. The TEDxCRCE volunteers helped in the management of The Mount Mary Fair which takes place in Bandra every year and is celebrated with utmost zeal. More than 15000 people attend this fair and the volunteers help in crowd management, helping the old age people and maintain regulation overall.

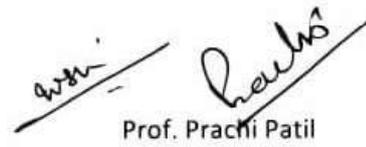
A total of 42 volunteers helped in the fair. This event was conducted last year also with the volunteers receiving the DCP certificate by the Mumbai Police officials. They highly appreciated the students for working tirelessly for the fair.

This year was no different with the volunteers co-operating with the police.



Aman Shaikh

Community Head, TEDxCRCE



Prof. Prachi Patil

Faculty incharge, TEDxCRCE

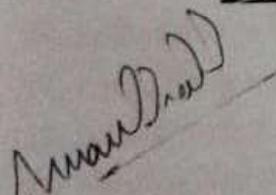
Mumbai Police Bandra Fair Volunteering Drive

1. Aman Sheikh
2. Jaison Dsouza
3. Renjit Koshy
4. Gauravi Phansalkar
5. Davina Pinto
6. Aditya Khajuria
7. Yash Kane
8. Pragati Rao
9. Chris Crasto
10. Crystal Wilson Dsouza
11. Gary Rebello
12. Gladden Rumao
13. Sanmit Simon Dabre
14. Sakshi Ghadigaonkar
15. Calvin Leo Nunes
16. Orvell Ferreira
17. Sloan D'Cunha
18. Mounita Bhagat
19. Samantha Richard Mascarenhas
20. Lance Richard Main
21. Jain Niraj Sachin
22. Chaube Nitin Sunil
23. Lancelord Jerome D'Monte
24. Md Danish Zahid
25. Aarti Bandekar
26. Abhishek Nirmalraj
27. Dhananjay Chobhe
28. Mihir Rayganga
29. Kevin Silveira
30. Vrajesh Sunil Kutty
31. Yash Khasgiwala
32. Tijo K Thomas
33. Shresht Acharya
34. Castellino Dion Trevor Dominic
35. Anuj Purandare
36. Umang Bhavesh Kavedia
37. Aaron Fernandes
38. Alden Dsouza
39. Sakshi Dave
40. Khushi Dushyant Parikh
41. Anjana Singh

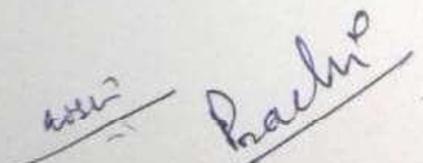
Aditya Jyot Foundation Guinness World Record

On January 26, 2019 TEDxCRCE participated in an event organised by Aditya Jyot Foundation at Dharavi that was a Guinness World Record attempt for most diabetic eye screenings in 8 hours. Our volunteers helped the organising committee for crowd management, at the registration desk and distributing food packets. A total of 30 volunteers were a part of this successful attempt. Through this attempt many people from poorer background with diabetes were able to receive a screening and check-up. With this event, TEDxCRCE continues to contribute towards the welfare of the society.




Aman Shaikh

Community Head, TEDxCRCE


Prof. Prachi Patil

Faculty incharge, TEDxCRCE

Aditya Jyot Volunteering Drive

1. Aman Sheikh
2. Jaison Dsouza
3. Davina Pinto
4. Kinjal Mhatre
5. Pragati Rao
6. Aditya Khajuria
7. Yash Kane
8. Chris Crasto
9. Manashri Mehta
10. Ishpreetkaur Dham
11. Saloni Khanna
12. Anu Thomas
13. Ninad Shetty
14. Yash Khasgiwala
15. Saptarshi Chatterjee
16. Kraig Fernandes
17. Tanmay Ghadi
18. Sakshi Dave
19. Khushi Parikh
20. Dhananjay Chobhe
21. Mareena Fernandes
22. Niraj Jain
23. Aditya Punjabi
24. Ashish Rajput
25. Arpan Sadhu
26. Steviyo Xavier Kallivalappil
27. Kishanlal Kanojia
28. Aditya Morajkar
29. Kevin Silveira
30. Vrajesh Kutty

Mumbai Roti Bank for Tata Mumbai Marathon

TEDxCRCE collaborated with **Mumbai Roti Bank**, a non-profit, food rescue organisation that bridges the gap between hunger and excess food on January 20, 2019 to distribute all the food that was left over from the 45,000 meal packets that were served to the participants of one of the most awaited marathons – The Mumbai Marathon.

A total of 26 TEDxCRCE volunteers helped to distribute these meal packets among the beneficiaries across South Mumbai. Two batches of 13 volunteers each distributed about 10,000+ meals at **Shree Manav Seva Sangh, Sion** and **Dongri Children's Home, Dongri**.

The efforts of our volunteers were greatly appreciated. We were featured on various platforms. Tata Mumbai Marathon official page tagged Roti Bank for our efforts. Mirror Now covered the entire event. The volunteers were awarded with certificates by Mumbai Roti Bank for their efforts.

We hope to contribute in more such community events aimed at serving for the society.





D. Sivanandhan

IPS (Retd.)

Former C. P. Mumbai & D.G.P. Maharashtra

CERTIFICATE OF APPRECIATION

Dear

The Roti Foundation, Mumbai (Reg: E 34021) whole heartedly expresses gratitude to you for your kind contribution towards fighting hunger. Your generosity will surely feed those in need and supplant our battle against hunger.

We appreciate your participation with Mumbai Roti Bank in its efforts on 20th January 2019 on the occasion of food distribution from the surplus collected from The Mumbai Marathon 2019. Your dedicated efforts have assured the food reached the hunger pockets.

We look forward to your continued support in the future.

Best Regards,

D Sivanandhan, I.P.S (Retd.)
Managing Trustee,
Roti Foundation, Mumbai



1203, One Indiabulls Centre, Tower 2B, Floor 12B, Senapati Bapat Marg, Elphinstone Road, Mumbai 400 013.

Aman Shaikh

Community Head, TEDxCRCE

Prof. Prachi Patil

Faculty incharge, TEDxCRCE

Tata Mumbai Marathon Distribution Drive

1. Aman Sheikh
2. Jaison Dsouza
3. **Gauravi Phansalkar**
4. **Kinjal Mhatre**
5. Pragati Rao
6. Aditya Khajuria
7. Ishpreetkaur Dham
8. Gladden Rumao
9. Samantha Richard Mascarenhas
10. Sakshi Ghadigaonkar
11. Kishanlal Kanojia
12. Steviyo Xavier Kallivalappil
13. Simran Amit Biswas
14. Swini Rodrigues
15. Chelsea Moses Dabre
16. Prinkal Dabre
17. Celine D'silva
18. Niraj Jain
19. Melita Japhet
20. Saloni Khanna
21. Ninad Shetty
22. Nitin Chaube
23. Mihir Rayganga
24. Tijo K Thomas
25. Mareena Fernandes
26. Anu Thomas

IDEAS WORTH SPREADING

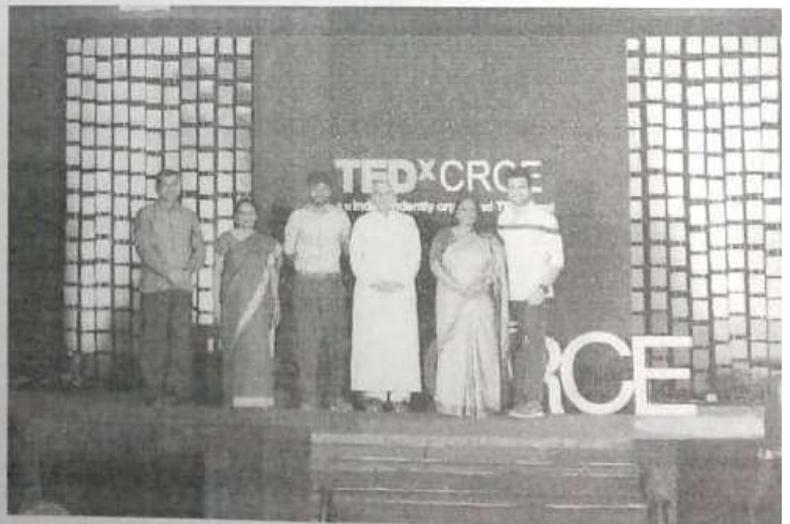
On the 11th of August, 2018 TEDxCRCE hosted its 4th Edition of the Main Event in Fr. Conceicao Rodrigues College of Engineering. The theme for the event was, "REWIND": The thought that emphasises on bringing back foundations laid in the past to nurture the present and build a brighter future.

The first session kicked off with the inspiring story of Paralympic champion who won India a gold medal in 2016. A fighter who made masses believe that nothing but strong desire to overcome disabilities can be the ladder to success. Vibhas Sen is truly an inspiration. Mr. V.S. Parthasarathy the Group CFO & CIO of Mahindra & Mahindra Ltd. explained the true meaning of leadership and how a leader should be strong, vulnerable, trustworthy and most importantly friendly. The session ended with Ms. Tanvi Shukla the top news anchor at MirrorNow, bringing to light the discrepancies in today's media and how to be aware of false news that takes stage. The audiences relished the High Tea break post the first session.



[L-R: Ms. Tanvi Shukla, Dr. Mrs. Shrija Umnikrishnan, Rev. Fr. Valerian D'souza, Rev. Fr. Peter D'souza, Mr. Vibhas Sen, Mr. V.S. Parathasarathy.]

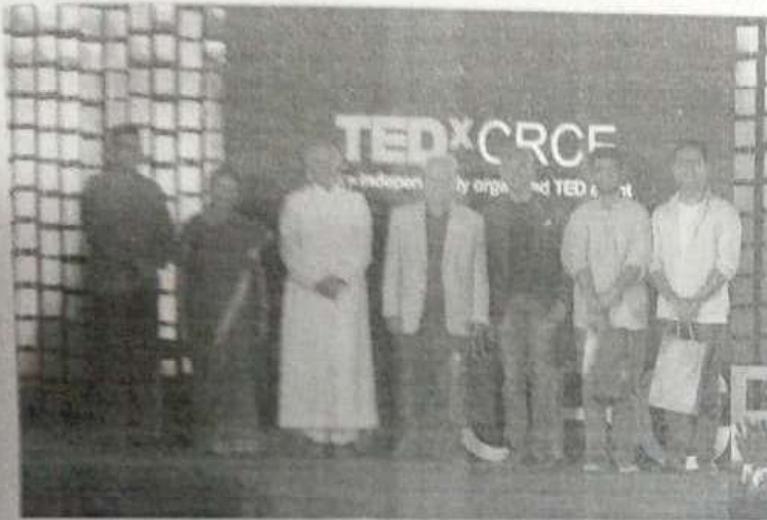
The second session started with Ms. Bistriti Poddar, founder of The Paperless Postcards. She inspired the audience by her journey through adversities which were her stepping stones to success. The next speaker was Mr. Nimesh Shetty, a transgender activist who voiced his opinion on transgender rights and how they should be given equal opportunities to achieve their dreams. Following Mr. Nimesh was Mrs. Subarna Ghosh, Academic Activist and founder of Rerlight Foundation. She spoke on awareness of women rights and through her words motivated young women who will be future mothers to make right choices. Her talk left everyone astounded. Our last speaker for the session who is an actor and an entertainer, Mr. Rithvik Dhanjani helped the spectators embark on a journey of self-discovery. He helped us believe that each one of us has our calling if we chose to look at the optimistic side



[L-R: Rev. Fr. Valerian D'souza, Dr. Mrs. Shrija Umnikrishnan, Mr. Nimesh Shetty, Rev. Fr. Peter D'souza, Mrs. Subarna Ghosh, Mr. Rithvik Dhanjani.]

of life. We then commenced our networking session.

After a fruitful interactive session, Ms Aashka Goradia gave a kick start to the final session. She



[J. R. Res. Fr. Valerian D'Souza, Dr. Mrs. Shrija Umikrishnan, Rev. Fr. Peter D'Souza, Pradmashri Shri Ramesh Sippy, Col. Subin Balakrishnan(RET D), Mr. Akshay and Mr. Ankur.]

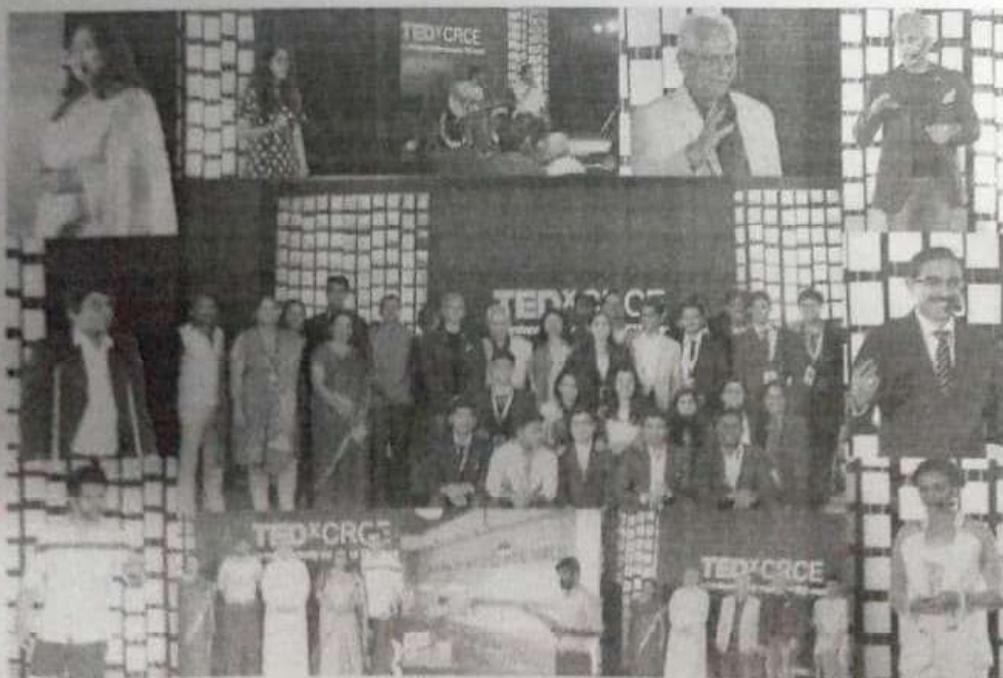
expressed her opinion on aesthetical procedures and why the society should embrace an individual's choices for self enhancement. The next in line was Col. Subin Balakrishnan (RETD), who has had a distinguished career at the cutting edge of combat leadership. He helped instil a sense of patriotism and leadership in the minds of the youth. Pradmashri Shri Ramesh Sippy was next to take stage. He shed light education in the field of cinematography which would help increase the quality of 21st Century films. Last but not the least Mr. Ankur and Mr. Akshay brought the stage to life with their

highly acclaimed performance of 60 years of Bollywood.

We take pride in the success of the event and hope to continue TED's mission of 'Ideas Worth Spreading'. The TEDxCRCE stage will certainly continue to showcase diversity and novelty in the years to come. We thank everyone who helped and motivated us.

"Great ideas need landing gear as well as wings" and we are elated to be the platform to witness these ideas flourish.

-Organiser, TEDxCRCE



Report

It was a busy Saturday afternoon; the venue Samvaad auditorium was ready for it TEDxCRCE the annual event of the TEDx Council. The venue quite opposite to its r with audiences who were not students. The atmosphere of the venue; the curios was a notch higher than what one generally can notice on a regular basis. It was 2:40pm on the large clock that is stationed inside the hall witnessing the timeline for the day, the auditorium was full with anxiety eagerly waiting for the event to commence.

It was 3:00pm and the organising member took to the dais to ask everyone to rise on the occasion and pay homage to our nation via our national anthem. He then introduced the compere for the day Mr Tejas Suma Shyam to everyone. The Theme illogically logical was introduced, very apt to the recent changes taking place throughout the world where the seemingly illogical ideas were marred on the basis of non-feasibility at once are now the very basis of the new changes taking place throughout.

The first session started with a dynamic performance by Mr Gaurav Kotian, a musician who played melodies via a set of wine glasses as his unique instrument called the glass harp. Mr Prabir Jha the global CEO and President of Cipla spread a strong idea of how career paths are changing and how one should adapt to these changing trends. Dr Ch. Satyanarayana a scientist at the Zoology survey of India had travelled right from Kolkata to the venue to spread awareness about coral bleaching which is one of the most dreaded concern of the 21st century. The session ended with Mr Siddharth Randeria, the Mega star of Gujarati theatre, he in his true sense did something he is so good at – conveying a meaning through comedy. The audiences broke for a break to relish the hot cup of tea along with a few chosen delicacies.

The second session started with Mr Rajat Mitra, who flew from Delhi to educate everyone about what goes into the mind of the criminal while committing a crime. Mr Mandar Jhamsandekar the second speaker inspired people to start investing early for a better tomorrow. Mr Gopal Hegde the president of VWA, motivated everyone to not waste food and if there is wastage utilise the same to feed the needy, something if implemented on a large scale, hunger can be wiped out entirely. Mr Prashant Warrior the last speaker for the session spoke on the vast applications of Artificial intelligence and how one can utilise this new technology in various branches of medical sciences.

The crowd broke out for a brief networking break and were enthusiastic to await the sensational Mrs Kavita Seth, a man famous for what he writes Mr Mark Manuel and the gorgeous Mrs Raveena Tandon. As expected the audience got what they had dreamt of, a final session full of excitement. The session started with a powerful performance by Kavita Seth, her soulful renditions touched every heart in the auditorium. This was followed by a commanding talk on the evolution of media and journalism by Mr Mark Manuel, the pros and cons of being truthful in the field was well explained. The show stopper Mrs Raveena Tandon graced the stage to spread the idea of sharing is caring via her own pieces of experiences. Thank you! were the words, post which the audience erupted with a loud cheer. The talks throughout the day were fantastic, performances were brilliant, but the applause was to mark an end of a day full of knowledge and thought provoking ideas. The show was over but not yet, the audiences applauded the efforts of the team who had given their 100% to pull off something what CRCE will remember for a lifetime. The team took centre stage, more than 30 students together stood with smiles. The photographers were constantly clicking images to store these moments.

Shruti

Rachit

Fr. Conceicao Rodrigues College Of Engineering, Bandra (W)
National Service Scheme(NSS)

Report On Stem Cell Donation Drive 2017

From : PO. SaurabhKorgaonkar

On 9th September, 2017, Fr. Conceicao Rodrigues College Of Engineering successfully completed the event of Stem Cell Donation under the National Service Scheme. The **Stem Cell Donation Drive** had the objective of collecting very small amount of blood samples and provided a match is found donor will be called for donating blood to needy cancer patients to cure cancer.

NSS CRCE took the initiative to contribute by providing as many as blood samples to the drive. A twwhooping**226** registrations were done in the drive. Event Heads from NSS CRCE RusselRodricks and Vanessa Rodricks, lead the drive. The Blood Donation Drive was conducted by **Tata Memorial Hospital, Parel** and it was taken up by the volunteers to help donors and the team from the hospital to manage the same.

The event was held from 10 am-4:30 pm .The hospital team was 3 Doctors including **Dr. Praveen Clement** with 8 trainees. The volunteers were allotted 1 hour batch wise for doing the needful for the event.**57 volunteers (30 boys and 27 girls)**extended a helping hand in the management of the event in turns.



**Team of Doctors and Trainee from Tata
Memorial Hospital Parel**



Staff Donating Blood Sample



Volunteer Donating Sample

Fr. Conceicao Rodrigues College Of Engineering, Bandra (W)
National Service Scheme(NSS)

Report On "Synergy 2017"

From : PO. SaurabhKorgaonkar

"MUMBAI BEHIND THE SCENES"

On **24th August, 2017**, National Service Scheme(NSS-CRCE) ,on the event of the annual Technical College Festival ,"**Synergy 2017**"organized a photography event called "**Mumbai Behind the Scenes**".Mumbai Behind the Scenes was a photography event. The participants had to click a picture and edit it to show their version of Mumbai. The photographs had to be based on a social cause such as animal rights, ageism, bullying, child labour, etc. We had numerous participants. We received multiple entries which depicted the social scenarios on a humongous scale.

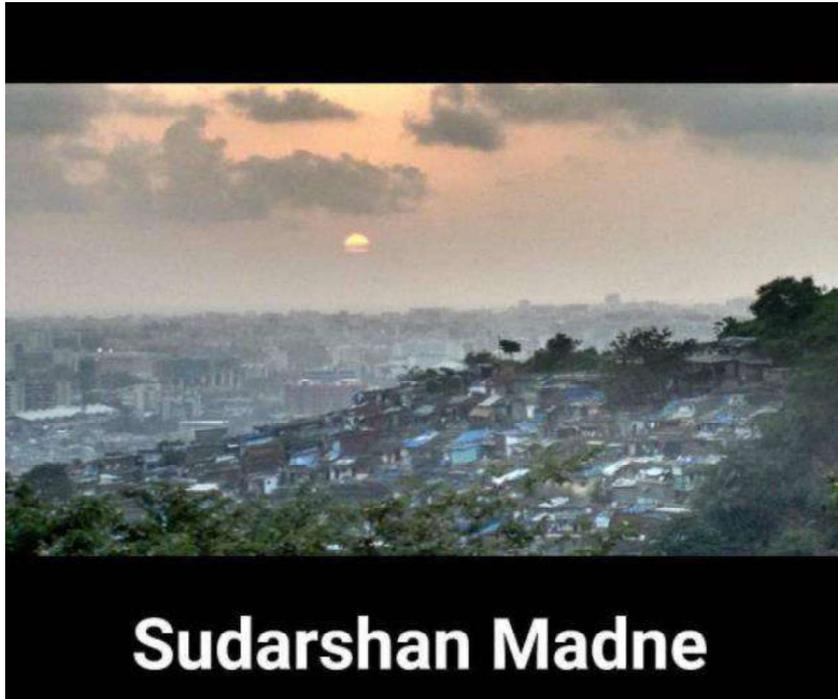
The competition was very tough. After judicial scrutiny, the faculty selected top 3 entries which potrayed the cause as expected. The winners were

1st Place: SudarshanMadane

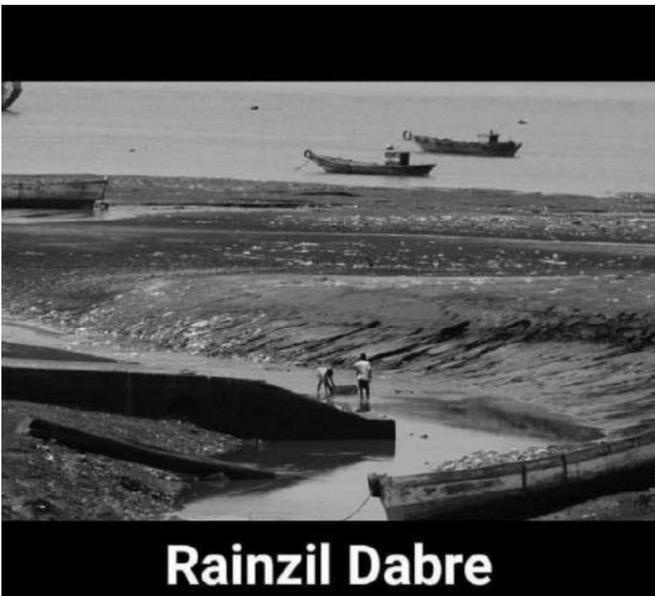
2nd Place: Mikhail Pinto

3rd Place: RainzilDabre

The pictures clicked by the participants were amazing.All of them depicted a new and fresh version of Mumbai.



Sudarshan Madne



Rainzil Dabre



Mikhail Pinto

"BLIND VISION DECODED"

On 24th August, 2017, National Service Scheme(NSS-CRCE) ,on the event of the annual Technical College Festival ,**"Synergy 2017"**organized a demonstrative event called **"Blind Vision Decoded"**.This year NSS- CRCE came up with a new event –**"Blind Vision Decoded"** – A magic show that revealed the science behind black magic.

This event was a major crowd gatherer, since the magician performed mind boggling tricks. Various demonstrations included how a human is fooled into a "tantrik's" tricks by exaggerating some intelligent use of words. Moreover this event enlightened the masses which will help them stay alert in the future and will prevent them from being cheated by the oculists. A lot of people including students as well as teachers attended the event. The entire team of NSS-CRCE managed the event well. The crowd was very interactive.



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Fr. Conceicao Rodrigues College Of Engineering, Bandra (W)
National Service Scheme(NSS)

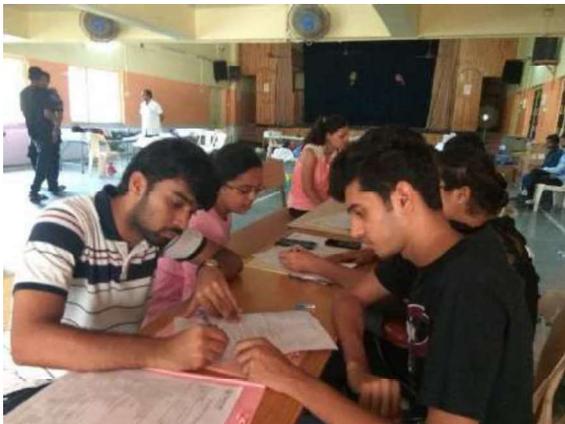
Blood Donation 2017

From : PO. SaurabhKorgaonkar

On **28th September, 2017**, Fr. Conceicao Rodrigues College Of Engineering successfully completed the event of Blood Donation under the National Service Scheme. As Blood Donation is a noble cause, filling up the blood banks to avoid any kind of shortage in coming future over **80 donors** donated blood.

NSS CRCE took the initiative to contribute by providing a helping hand by its youth. A total of **100** registrations were done in the drive. Event Heads from NSS CRCE RusselRodricks and Vanessa Rodricks, lead the drive. The Blood Donation Drive was conducted by **Dr. BalabhaiNanavati Hospital with Smt. KapoorbenVasanjiLathia BLOOD BANK** and it was taken up by the volunteers to help donors and the team from the hospital.

The event was held from 10 am-4:30 pm .The hospital team was 7 Doctors with 8 trainees. The staff members from the college also contributed towards blood donation. A total of **60 volunteers(including 37 boys and 23 girls)** helped in the management of the event.



Registrations And Scrutiny- Blood Donation



Volunteers Donating blood

FR.CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

Father Angels Ashram Road, Bandra West, Mumbai, Maharashtra 400050.

Phone: 022 6711 4000

REPORT OF ROTARACT CLUB OF FRCRCE

(2017-18)

The Rotaract Club of CRCE has been affiliated with the Rotary Club of Bombay Bandra, which has recognized the efforts that the Rotaract Club of Fr. CRCE has put in order to make a difference to the society. The Rotaract Club of Fr. agnel College (Bandra West) is affiliated to an NGO called Bigger Than Life. Bigger Than Life (BTL) is an NGO who reaches out to the underprivileged children and their families who stay in the slums of Bandstand.

Following are list of events in odd and even semester with its details.

Odd Semester Events

1) Footpool :

Footpool was the first event organised by The Rotaract Club of Fr.CRCE 2017-18. It took place on the day of Synergy, 24 August at the Gymkhana at the 6th floor from 11am to 2pm. Footpool was a one participant, time and skill based event where each participant had to pot footballs in an arrangement made similar to the pool table.

2)Amazing race :

The Amazing Race was the second event organised by The Rotaract Club of Fr.CRCE 2017-18. It took place on the day of Synergy, 24 August around 4pm, outside our college premises, around Bandra west. The Amazing Race was a team based, treasure hunt, where teams of 3 (max 4) had to put their minds to test and look for clues, with the first clue being given at the college Basketball court, from where the race essentially began. The event lasted for two hours and the last clue led the teams back to the college.

3) Donation Week

- First week of August

- A week of college students donating something for charity in boxes placed around college

4) Trek

The footslog i.e. the annual trek is an initiative taken by the Rotaract club of FR.CRCE to build companionship amongst the students of various BE courses. It was a trek amidst nature that the Prabalmachi Fort had to offer. It was a one day trek and the guarantee of their safety was taken by the Rotaract council. This trek was scheduled on the 24th of September.

Even Semester Events

1) Cleanliness Drive

The Clean Up Drive was an initiative taken up by the Rotaract Club of Fr.CRCE so as to promote awareness of the environment. The event took place on the **21st of January, 2018 (free of charge) at the Mahim beach opposite Hinduja Hospital** with a footfall of about 40 volunteers from college. All the garbage the volunteers collected was safely deposited and taken care of by the BMC

2) Installation Ceremony

The Rotaract Club of CRCE has been affiliated with the Rotary Club of Bombay Bandra, which has recognized the efforts that the Rotaract Club of Fr. CRCE has put in order to make a difference to the society. The Rotary Club of Bombay, Bandra wished to honour the Rotaract Club of Fr. CRCE and officially install the team of Rotaractors. This event witnessed the presence of the President of the Rotary Club of Bombay Bandra and other dignitaries. This event took place on the **17th of February, 2018.**

3) Marathon

The Heart and Sole run was an initiative taken up by the Rotaract club of Fr.CRCE so as to gather the zealous youth of the city to run for a cause. The run was organised in association with the NGO bigger than life who work for the betterment of the underprivileged slum children at bandstand. Participants could choose between **3 distances namely 12km, 6km, and 1.5km.** Taking place on the **4th of March 2018,** the runs would begin at the foot of Fr. Agnels Ashram at bandstand and would span almost the whole of Bandra West and return back to the starting point for the finish line.

4) Come Together

Report

It was a busy Saturday afternoon; the venue Samvaad auditorium was ready for its TEDxCRCE the annual event of the TEDx Council. The venue quite opposite to its regular with audiences who were not students. The atmosphere of the venue, the curiosity was a notch higher than what one generally can notice on a regular basis. It was 2:40pm on the large clock that is stationed inside the hall witnessing the timeline for the day, the auditorium was full with anxiety eagerly waiting for the event to commence.

It was 3:00pm and the organising member took to the dais to ask everyone to rise on the occasion and pay homage to our nation via our national anthem. He then introduced the compere for the day Mr Tejas Suma Shyam to everyone. The Theme Illogically logical was introduced, very apt to the recent changes taking place throughout the world where the seemingly illogical ideas were marred on the basis of non-feasibility at once are now the very basis of the new changes taking place throughout.

The first session started with a dynamic performance by Mr Gaurav Kotian, a musician who played melodies via a set of wine glasses as his unique instrument called the glass harp, Mr Prabir Jha the global CPO and President of Cipla spread a strong idea of how career paths are changing and how one should adapt to these changing trends, Dr Ch. Satyanarayana a scientist at the Zoology survey of India had travelled right from Kolkata to the venue to spread awareness about coral bleaching which is one of the most dreaded concern of the 21st century. The session ended with Mr Siddharth Randeria, the Mega star of Gujarati theatre, he in his true sense did something he is so good at – conveying a meaning through comedy. The audiences broke for a break to relish the hot cup of tea along with a few chosen delicacies.

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Shubh

Rachit

is with a new idea is a crank until the idea succeeds."

TEDxCRCE Report 2017-18

On 10th of October 2017, TEDxCRCE hosted its third year of TEDx Talks at Fr. Conceicao Rodrigues College. The event was "illogically Logical" encompassing those powerful ideas that we can implement in our lives for a better future. This year, the event saw 11 dynamic and effective speakers from all walks of life sharing their "Birth Spreading".

Notable personalities include Mrs. Raveena Tandon, Actress Bollywood, she is one of the chosen few national award recipients for her contribution to the field of cinema. Mr Siddharth Bandheria, Actor, Gujarati theatre and cinema, is one of the community's most beloved idol. Mr. Prabhakar, CPO, Epsla. Mr. Prabhir is also one of the few LinkedIn Power profiles for the year 2017-18. Mrs. Kavita Seth, a singer having set record breaking music numbers to her name. Mr Mark Manuel, Editor and Journalist, Times Of India Group, has spent over 30 years into this industry starting off as a crime reporter to now fulltime Bollywood news and updates. Mr. Gaurav Kotian, Glass harp player, he is the youngest individual and the first to master the art of glass harp in India. Mr. Mandar Jamsandekar, Economist and Trade Policy expert. Mr. Prashant Warner, CEO, Quire.ai. Mr. Prashant aims at innovating AI tools and machines to read and understand X-Rays. Mr. Gopal Hegde, President, Versova welfare association, aims for a Hunger free India. Mr. Rajat Mitra, a clinical Physiologist and health analyst. Dr. Satyanarayana, Scientist and Coral Taxonomist, at ZSI has revived corals extinct thousands of years ago. The event was a major success with many online and print news articles having a total viewership of more than a One and a half million views on YouTube and the TEDx website till date. We are surely and steadily reaching our milestone of 2 million views very soon.

On the 10th of March 2018, TEDxCRCE is set to organise the biggest version of its very own "Internship & Career Expo" hosting multiple companies at our college campus. Unlike over the years, TEDxCRCE is ready and set to host 5 colleges including the likes of TSEC, CRIT (Vashi) and many others, with an expected lot of over 2,000+ students will be attending the event to add a technical or a non-technical internship to their resume. Having seen a fantabulous response from companies and an equally resounding feedback from the students over the years, we believe The Internship & Career Expo slotted on the 10th of March, 2018 is going to set a bar high for all other events organised in the college at an inter-collegiate level.

On the 10th of September 2017, we organised the first of its kind "Police volunteering" drive participated by more than 60 individuals. This drive is noteworthy since it is only the first time, when the students of CRCE, worked selflessly and with full intent for One Long week with Mumbai Police Dept. under the sound guidance of Susie Napier, Commissioner, Student Activities. The Mount Mary Festival is one of the most looked upon fairs in Mumbai. Multiple Newspapers have covered our drive over the week. The students received valuable certificates from the hands of the Asst. Commissioner of Mumbai Police, right on campus, TEDxCRCE was honoured to have him on campus to distribute certificates.

Coming in the spirit of "Service Above Self", The second year of "TEDxCRCE Community Club" for the students of our college saw new initiatives and better volunteering services. Apart from the police volunteering drive, they had the opportunity to work for Ratna Nidhi, an NGO, listed by the government of India, funded by Alibaba.com, Sharad Pawar Trust, EIA Reliance Foundation. The students split in teams helped sorting books donated from donors all around the globe. The students managed to sort more than over 1,500 Books in each session. These books are then sent to libraries of Schools run by the government in the interior parts of Maharashtra.

We would like to express our sincere gratitude to our Director Fr. Valerian D'Souza, Principal Dr. Srija Unnikrishnan, the college management, our Teacher-in-charge Prof. Anusha Jayaramhan, Prof. Prachi Patil, our faculty members and the student community for their unstinted support and encouragement in all our endeavours. Going forward, we at TEDxCRCE will endeavour to achieve a fresh new outlook for our projects and will raise the bar further in creating more powerful, professional and energetic community centric events.

Dr. Thakur
Organiser, TEDxCRCE

Anusha

Prachi

| Year | Event Date | Event Name | Speakers/Company and Details | Target Audience | No of Attendees |
|---------|--------------------------------|-----------------------------|--|--|-----------------|
| 2017-18 | 14 th October 2017 | TEDx Talks | Mrs. Ruveena Tandon, Actress Bollywood Mr. Siddharth Randeria, Actor, Gujarati theatre and cinema Mr. Prabhilal, CPO, Cipla Mrs. Kavita Seth, a singer Mr. Mark Manuel, Editor and Journalist, Times Of India Group Mr. Gaurav Kotian, Glass harp performer Mr. Mandar Jamsandekar, Economist and Trade analysis expert. Mr. Prashant warrier, CEO, Quire.ai Mr. Gopal Hegde, President, Versova welfare association Mr. Rajat Mitra, a clinical Physicologist and rape analyser Dr. Satyanarayana, Scientist and Coral Taxonomist, at ZSI | College and Outsiders | 100 |
| 2017-18 | 10 th of March 2018 | Internship & Career Expo | CRCE | Multiple Colleges (TSEC, CRIT(Vashi) , CRCE and others) | |

Event List

REPORTS

Regular NSS Activities

1. Rakhi Event (Happy Hours Workshop):

Happy hours workshop is a centre for multiple handicapped people. It sells handicrafts such as keychains, paperbags, bracelets etc. The NSS unit of CRCE felt great joy in assisting this workshop to sell rakhis and other handicrafts on the special occasion of RakshaBandhan. The rakshabandhan stall was put up at the entrance of the college from 10:45 am to 4:45 pm. A member of the workshop joined to help us sell rakhis. The response that we got from the crowd was very good. A lot of people came in to show their support by buying these special rakhis. At the end of the event, teachers also came in to encourage, motivate and support us.

2. Poster Making competition (CRESCENDO'16):

Poster Making competition was a colourful delight. The topic given was "Swachha Bharat Abhiyan". We provided the participants with all the stationery required such as paints, A3 size drawing sheets, pencils, etc. We got fabulous entries which beautifully portrayed the topic. Teachers judged the posters depending on their concept, beauty and skill and best 3 posters were awarded.

3. Mumbai Behind The Scenes (CRESCENDO'16):

Mumbai Behind the Scenes was a photography event. The participants had to click a picture and edit it to show their version of Mumbai. The photographs had to be based on a social cause such as animal rights, ageism, bullying, child labour, etc. We had numerous participants. We received multiple entries which depicted the social scenarios on a humongous scale.

The competition was very tough. After judicial scrutiny, the faculty selected top 3 entries which portrayed the cause as expected.

4. Walkathon:

Walkathon is a rally to spread awareness about organ donation. All members of NSS had gathered from around the city to take part in this rally. The rally started from Nariman Point at 7am and was till 9am. The Chief Minister Devendra Fadnavis and a lot of other ministers also joined us in the rally to show their support. The members were all provided with organ donation t-shirts and banners. The members were enthusiastically chanting slogans "Avyavdaan, jivaandaan". At the end, all members were provided with refreshments.

5. Ganpati Visarjan Crowd Management:

The event took place at Juhu beach. The volunteers first gathered up near Juhu Police station. The police accompanied them to the location. Then they divided the volunteers into groups of two and gave them different positions to handle the crowd. They were supposed to stop non residents from entering the residential area and make sure the crowd didn't block the roads.

The event started at 4pm and ended at 8:30pm. Teachers also accompanied them for supervision. The volunteers were provided with refreshments during the event.

6. Beach Cleanup Drive:

This event took place on 11th September at Chowpatty beach. The event took place from 7:30am to 10:30am. This event was in collaboration with Namaste Foundation. All volunteers gathered up at Chowpatty beach at 7:30am. Volunteers were provided with masks and hand gloves. They started cleaning up all the waste materials including broken murti pieces, flowers, etc. which were left at the beach during the GanpatiVisarjan. At the end, they felt great pride in seeing the beach all clean. The volunteers were provided with refreshments during the event.

7. Blood Donation Drive(ODD SEM):

This year our college's NSS unit had organized a Blood Donation camp in our college campus on Friday,30th September'16 in collaboration with Tata Memorial Hospital. All the NSS volunteers were assigned time slots according to their classes for volunteering.

The blood donation drive was held from 9am to 5pm in the school auditorium. Active participation was seen right from the first hour of the blood donation drive. The HOD of Electronics department also made his part of contribution.

By the end of the blood donation drive, a total of 99 successful donors were listed. The total participation for the blood donation drive was around 120. Rest were rejected because of several reasons like weight below the minimum level, haemoglobin less than the required range, surgeries within a time span of 6 months, regular cold, cough, etc.

Few rare blood groups like O-ve, B-ve, A-ve were also collected. By this one more successful event came to an end. It was the dedication of the NSS council members and the donors because of whom this drive was a huge success and we hope that everything what was donated be able to use at the right time, perhaps to save someone's life.

8. Road Safety Event:

Rider Safety was a Seminar cum Training Program conducted by the NSS Council in collaboration with United Way Mumbai on 1st October 2016.

The event started at 10am and comprised of a 3 and half hour seminar in which members learned about how to ride safely, road signs and markings, motor insurances and maintenance, personal protective equipments to be carried and how to handle emergency situations. In the one and half hour demonstration, a professional rider practically taught the members how to ride a bike safely. The response from the crowd was very enthusiastic. The members were provided with refreshments during the event.

9. Diwali Event(Happy Hours Workshop):

Happy hours workshop is a centre for multiple handicapped people. It sells handicrafts such as keychains, paperbags, bracelets etc. The NSS unit of CRCE felt great joy in assisting this workshop to sell handmade diyas, lanterns, Diwali items and other handicrafts on the special

occasion of Diwali. The Diwali stall was put up at the entrance of the college from 10:00 am to 4:00 pm. A member of the workshop joined to help us sell their Diwali handicrafts. The response that we got from the crowd was very good. A lot of people came in to show their support by buying these special diyas and lanterns. At the end of the event, teachers also came in to encourage, motivate and support us. Everyone appreciated their art work.

10. Visit to Old Age Home (Snehasadan):

NSS CRCE organized an Ashram visit to Snehasadan Ashram on 27th October, 2016(Thursday). Snehasadan is an Old age home. The NSS volunteers reached the ashram at 10:30 am and initiated by speaking to all the elderly people present. Volunteers continued to entertain the elders by singing and dancing with them. Old clothes, fruits and eatables were donated. Personal donations were also collected from the volunteers for the ashram. Volunteers left at 12:30 pm. This event was a great opportunity to spread smiles amongst our elders and a chance to get blessings and love from them.

11. MU's 160th Convocation ceremony(Live telecast):

NSS-CRCE attended the live telecast of the 160th Convocation ceremony of the Mumbai University. It was held on 16th January, 2017 at the sports complex of Mumbai university, Kalina. It started at 10:15am and ended at 12:30pm. The chief guests for the event that took place at Fort, Mumbai University were Governor of Maharashtra, Shri Vidyasagar Rao and Chairman and Managing director of Reliance Industries Ltd., Dr. Mukesh Dhirubhai Ambani.

12. Safecity's Workshop on sexual harassment:

NSS CRCE organized a SAFECITY Workshop in collaboration with the Red Dot Foundation on 18th January'17 from 1pm to 3pm. This workshop aimed to tackle sexual harassment and sexual abuse. Have you ever been in a situation where someone made you feel uncomfortable and unsafe? Has someone passed comments or touch/grope you while you were traveling in local trains, buses, shared autos or just walking down the road. But you didn't raise your voice or report it because you were too embarrassed, ashamed or just didn't want to get into trouble with the cops. Here's a solution to all your problems :

1) Go to www.safecity.in

2) Report the What When and Where of the incident. Safecity organization will show the area of crime with a red dot on the maps so that next time when someone is traveling in that area, they can be careful. If a lot of reports are made in a certain area, then we collect the crowdsourced data and report it to the police. PLEASE NOTE YOU DO NOT NEED TO PROVIDE YOUR NAME TO REPORT THE CRIME. IT IS TOTALLY ANONYMOUS.

13. United way Mumbai's Hepatitis B training:

NSS CRCE organised on 19 January, 2017 a Hepatitis Workshop with collaboration with United Way of Mumbai. In this workshop students were trained to be a part of the Green Ribbon

Brigade. As a part of this brigade their job would be to spread awareness about hepatitis through street plays, rallies and door to door interactions.

14. United Way Mumbai's Advanced training on Road Safety:

NSS CRCE organized a RIDER SAFETY Workshop in collaboration with United Way of Mumbai on 20th January'17 from 2pm to 5pm. In this workshop, members were taught about :

- 1)Effect of speed on the vision of rider
- 2)Measuring your helmet size correctly
- 3)Different Helmet Standards
- 4)Effect of alcohol on the vision of the rider
- 5)Regular Maintenance of your bike

This was a advanced training session of the previous workshop held in October 2016.

Members who attended both the workshops were awarded with certificates.

15. Voter's Registration drive:

NSS CRCE organized a Voter's Awareness Drive on the occasion of National Voter's Day on 25th January 2017. It started at 9am and went on till 5pm. As a responsible citizen, it is our right and duty to cast our votes to bring out changes in our government.

Let's spread this message and make maximum number of people participate in the upcoming BMC elections.

NSS volunteers distributed voter's registration forms to everyone. These forms were to be filled and submitted to their respective wards to obtain a Voter's ID.

16. Blood donation drive(EVEN SEM):

This year our college's NSS unit had organized a Blood Donation camp in our college campus on Friday, 3rdFebruary'17 in collaboration with Tata Memorial Hospital. All the NSS volunteers were assigned time slots according to their classes for volunteering.

The blood donation drive was held from 9am to 5pm in the school auditorium. Active participation was seen right from the first hour of the blood donation drive. The HOD of Electronics department also made his part of contribution.

By the end of the blood donation drive, a total of 100 successful donors were listed. The total participation for the blood donation drive was around 120. Rest were rejected because of several reasons like weight below the minimum level, haemoglobin less than the required range, surgeries within a time span of 6 months, regular cold, cough, etc. Few rare blood groups like O-ve, B-ve, A-ve were also collected. By this one more successful event came to an end. It was the dedication of the NSS council members and the donors because of whom this drive was a huge success and we hope that everything what was donated be able to use at the right time, perhaps to save someone's life.

17. Voter's awareness rally:

On 6th February'17,NSS CRCE participated in a voter's awareness rally. This event was organized by the Mumbai university. It started around 7:45 am,where volunteers and councils of different colleges assembled at National college (Bandra). The rally which was expected to end at Bandra station was rerouted towards bandstand. We screamed slogans like"aaram Haram hai","vote do vote do,21st Feb ko vote karo" etc.Charts and placards were distributed and showcased. We halted at the garden opposite CRCE which marked the end of the rally.

18. Juhu beach cleaning:

NSS CRCE organised a 'Beach Cleaning Drive' at Juhu Beach from 8:30am to 10:30am on 12th February'17. A significant change was observed in the cleanliness of the beach after our drive. The volunteers worked hard to clean all the trash on the beach. We were successful in creating awareness about the importance of cleanliness.

"The gloom and doom predictions about service clubs dying is a myth. There is no way that a club like Rotaract is going to go away."

As Rotarians, the Rotaract Club of Fr. Conceicao Rodrigues College of Engineering, abides by their motto of "Service above self". The Club adopts various causes throughout the year and strives to put its whole heart and soul in raising awareness for the cause. The Club hosts a wide variety of events to give students a platform to showcase their talents and thus, help in giving back to the society using young talent.

The academic session 2016-2017 was an eventful year, as it witnessed the rise of the Rotaract Club of Fr. Conceicao Rodrigues College of Engineering. With the motto, "Rising from the ashes" and a phoenix as their Sigil, the Rotaract Club became an instant sensation in the college. The Club affiliated itself with the NGO Karunya Trust and specially promoted one of its endeavours - "Gyaansaathi", an educational program started by the NGO to work towards the education and upliftment of the children of ragpickers living in the Deonar Dumpyard.

THE AMAZING RACE

The Club started with its first event on 26th August 2016, "The Amazing Race", which was a crowd puller during the annual college technical fest "Crescendo". It was a treasure hunt spread throughout Bandra. The aim of this event was to ensure that the students of the first year get more involved in college activities. The top three teams were declared winners of the event and were rewarded with cash prizes and vouchers. The official energy drink partner for the event was Redbull.

FOOTSLOG

The second event organized by the Club, on 1st October 2016, was the "Annual Rotaract Trek-FootSlog", with the aim of getting the students together to unveil their adventurous side. The students trudged all the way up the Korigad fort. Amidst the picturesque beauty and the favourable weather, the students enjoyed this Monsoon Trek.

JOY OF GIVING

On 13th of October 2016, the Rotaract Club of Fr. CRCE, organized a Donation Drive, "Joy Of Giving" in the college. The event was held for a week and the team urged the students as well as the teachers to donate everyday items like stationery, groceries and toiletries, which were later given to the children living in the Fr. Agnel Ashram.

In order to strengthen the relationship between the Club and the NGO, Karunya Trust, on 28th October 2016, the entire team went to the Deonar Dumpyard, Govandi. The Club organized a fun filled and interactive session with the kids and encouraged them to pursue their dreams. The entire team talked to the Director Rose Joseph who was very helpful in providing an insight to the working of the NGO. The entire session was a learning experience for the children as well as the entire team.

LORD OF THE RINK

To promote the spirit of sportsmanship among students, on February 2017 the Rotaract Club of Fr. Conceicao Rodrigues College of Engineering organized "The Lord Of The Rink" - an open rink football tournament, wherein students from various colleges competed against each other to prove their mettle. As the saying goes, "There are two seasons- the football season and the waiting for the football season", the tournament was an opportunity for all the budding footballers to showcase their talents and compete to be the best. The winner and the first runner-up of the tournament were rewarded with cash prizes along with certificates.

Fr.CRCE DREAM RUN'17

In order to encourage fitness and health, the Rotaract Club organized its last and final event, the "Fr.CRCE DREAM RUN'17", on March 12, 2017, a 6 km run, starting from Bandstand and finishing inside the campus of Fr. Agnel, Bandra. The Chief Guest of this event was an alumnus of our college Mr. Shroff, who is a professional Marathon runner. Mr. Ratan Mukhi, the then President of the Rotary of Bombay, Bandra, was kind enough to grace the event as the Guest Of Honour. The event was an initiative to encourage the citizens of Mumbai to run for a cause. People of all age groups participated in the Run. The top ten male and female participants were rewarded individually with gift vouchers and certificates and all the participants were given a certificate of participation. The proceeds of the event were given to the NGO Karunya Trust.

"Ideas can be life-changing. Sometimes all you need to open the door is just one more good idea".

TEDxCRCE Report 2016-17

On the 23rd of July 2016, TEDxCRCE hosted its second year of TEDx Talks at Fr. Conceicao Rodrigues College of Engineering. The event was, "Presents for the Present" encompassing those powerful ideas that we can implement in our lives today to impact our near future. This year, the event saw 12 dynamic and effective speakers from all walks of life sharing the mission of "Ideas Worth Spreading".

The admirable personalities include Shridhar Venkat, CEO of Akshaya Patra Foundation whose organisation feeds 1.5 million people in 12,000 schools in a span of seven hours daily. Bittu Sahgal, Founding Editor of Sanctuary Asia captured the audience with his vision of a nature friendly environment led by our youth. Niharjananteyant, a 13 year old child singing prodigy who won the "Golden Voices of America" took the stage with two powerful melodies. Dr. Sri Rama spoke to the audience about the inter-relation between physics and dance, ending with an eye catching "Tarangam Plate Dance". Sarah-Jane Dias, Actor-Model-Musician asked us to stop labelling people based on their body shapes while Harish Iyer, Equal rights activist spoke about the evils of male child rape, being a survivor of a 11 year ordeal himself. Sameer Ganapathy took us into the world of the quantum digital native while Sneha Vaswani introduced India's first ever companion robot at our event. We also saw a stellar sand art performance by world famous sand artist, Rahul Arya and watched Geeta Tandon speak about her success story from a domestic abuse victim to a Bollywood stuntwoman. Adhitya Iyer easily related with our college students with his engineering based education travel around the country. The event ended with a fusion dance performance from Kanaka Sabha Dance Group.

The event culminated in a major success with many online and print news articles having a total viewership of more than half a million views on YouTube and the TEDx website till date. We are surely and steadily reaching our milestone of 1 million views very soon.

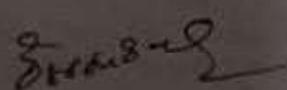
On the 15th of March 2016, TEDxCRCE organised the first-of-its kind "Internship & Career Expo" hosting 11 companies in the college campus. 600+ students attended the event giving them a valuable chance to bag technical and non-technical internships of their choice. Having seen a good response from companies and an equally resounding feedback from the students, we will be organising The Internship & Career Expo for the second time in March 2017.

On the 3rd of September 2016, we also organised a TEDxSalon event for our first year entrants having four distinguished alumni guiding them on life in "CRCE and Beyond". On the 4th of February 2017, we created a new event engaging Top Human Resource Personnel that included a Leadership Consultant and a Corporate to speak to our students before the placement season and give them valuable insights into the interview process, resume crafting and profile building to face the corporate world.

Believing in the spirit of "Service Above Self", we started a new 'TEDxCRCE Community Club' for the students of our college. They have the opportunity to teach weekly, the orphan students of Fr. Agnel Ashram preparing the community members to be compassionate leaders of tomorrow. We will also organise various educational and personality development sessions for these members.

We would like to express our sincere gratitude to our Director Fr. Valerian D'Souza, Principal Dr. Srija Unnikrishnan, the college management, our Teacher-in-charge Prof. DSS Sudhakar, Prof. Anusha Jayasimhan, our faculty members and the student community for their unstinted, consistent support and encouragement in all our endeavours. Their advice and guidance have been invaluable. Going forward, we at TEDxCRCE will endeavour to achieve a fresh new outlook for our projects and will raise the bar further in creating more powerful, professional and energetic community centric events.

Wayne Pereira
Curator, TEDxCRCE



"Humans are mortal. So are ideas. An idea needs propagation as much as a plant needs water; will wither and die."

— B.R. Ambedkar

On 11th of April, 2015, Fr. Conceicao Rodrigues College of Engineering had the privilege of a TEDx event. TEDxCRCE marked the advent of the TEDx movement in our college and was the first TEDx event to be hosted by any engineering college under Mumbai University. As opposed to sultry mid-April afternoon humdrum, the atmosphere at our venue was electric and full of energy. TEDxCRCE saw 250 attendees (simulcast and live viewing) and 11 speakers come together to celebrate the endless possibilities that originate as a result of innovative ideas, and explore "The Unbounded Panorama" - which was the theme of our event.

The event saw many great personalities like D. Sivanandhan, Ex-DGP, Mumbai Police, Kalpana Morparia, CEO India JP Morgan Chase, Dr. Radhakrishnan Pillai, Best-selling author and Management Guru, Anuradha Prabhudesai, Founder of Lakshaya Foundation among a few, share their thought provoking opinions. The event also saw Kanchan Daniel and the Beards, a renowned Blues band croon some famous numbers and a mesmerizing, soulful violin performance by international artist Karthuck Iyer left everybody spellbound.

Cumulating the spirit of TED's mission, "Ideas Worth Spreading" and our college motto "Moulding Engineers who Build a Nation", TEDxCRCE strived to recreate the unique experience found at TED, where the world's leading thinkers and doers congregate to share what they are most passionate about. Our aim was to provide a platform where the smartest thinkers, greatest visionaries, and most fascinating teachers will be inspired and will have the opportunity to inspire others.

Encouraged immensely by the bountiful appreciation received for the first event, we organized multiple TEDx Salon events to keep our college community inspired between successive main events.

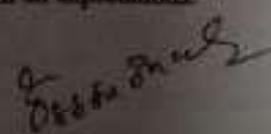
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The second edition of TEDx Salon event was on 3rd October, 2015. The event was witnessed by around 150 attendees including our college students, faculty members and college management. "New Dimensions", was the theme set up for this event with the speakers like Paresht Shetty, President Idea Cellular, HIV activist Jyoti Dhawale, Forum for the Future Director Anna Warrington share their views, followed by an energetic singing performance by YouTube sensation Shraddha Sharma.

TEDxCRCE firmly believes in offering a variety of provocative platforms for community based idea sharing. Keeping this thought in mind we organized a day trek to the majestic Korigad fort where students shared their experiences on "What connects them with nature?".

In the past TEDxCRCE has organized multiple knowledge and entertainment based events like quizzes, C seminar and a widely appreciated obstacle based football event, "Kick me" during our college technical fest, Crescendo.

This year too, we wish to raise the bar higher by organizing events that bolster are motive of community centric learning and foster cumulative idea sharing, thereby supplant all expectations.



Sriya Kumar
Curator, TEDxCRCE



TEDxCRCE 2015 Report

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Cumulating the spirit of TED's mission, "Ideas Worth Spreading" and our college motto "Moulding Engineers who Build a nation", TEDxCRCE strived to recreate the unique experience found at TED, where the world's leading thinkers and doers congregate to share what they are most passionate about. Our aim was to provide a platform where the smartest thinkers, greatest visionaries, and most fascinating teachers will be inspired and will have the opportunity to inspire others.

The event began with Kanchan Daniel and the Beards, a renowned Blues band croon some famous numbers like "Blue Rain" and followed by Mukund BS, Founder of RenewIT make us feel blue and turpid about the current digital divide and how asset recovery could help solve this problem. He made us aware how socially and economically potent could computer penetration be. Manta Goenka, a two time cancer survivor spoke of her journey from "CANCER" to "CAN RACE" and how satisfying it was to help fellow women like her battle the disease post her remission.

After gorging on delicious cakes and assorted patisserie in the first break that gave an opportunity to network with some like-minded individuals, began the next session. The opening talk was by Tejas Suma Shyam who spoke on one of the hottest dinner of all times - "Education is not equal to information" followed by top management guru, Dr Radhaskrishnan Pillai told the secrets of becoming rich. The next speaker Anuradha Prabhudesai spoke about the dangerous optimism of the Kargil war soldiers and moved everybody to tears with her thought provoking speech.



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

“Maharashtra AndhashraddhaNirmulanSamiti – A Fight against Superstition”

On August 27, 2015, Maharashtra AndhashraddhaNirmulanSamiti, an organization dedicated to fighting superstition, conducted a seminar cum workshop in the college premises.

Three representatives from the organization conducted the seminar. While they began with a poem, a huge crowd gathered near them. The workshop aimed at developing scientific attitude and critical thinking. They provoked the audience to ask questions and requested them not to believe things blindly.

The attendees were amazed with the acts performed by them, few of them included lighting a lamp with water, removing a cloth from an intact coconut, and so on. They also demonstrated how we as humans, may easily be confused, by demonstrating certain acts. They also raised awareness about the death of Mr. NarendraDabholkar, the founder-president of Maharashtra AndhashraddhaNirmulanSamiti.

Overall, the aim of the event was fulfilled, and the crowd was inspired. The workshop was indeed an eye opener.

(Programme Officer)

Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

“First Aid Seminar”

On 6th October 2015, as a part of the general awareness activities, the NSS unit of Fr. CRCE conducted a seminar on First-Aid.

The seminar was delivered by 4 medical students of Seth G.S. Medical College, Parel. It began at 4pm in Room No. 406

A presentation was shown which highlighted the ways to handle situations after crisis like choking, shock, damage done due to fire, heat explosions, and heart attacks. The seminar was more educational since they demonstrated some techniques to tackle the above mentioned crisis. It created a lot of awareness among the audience.

Later, a Q&A session was held, where the doubts of the students were clarified.

The seminar concluded after 5.30pm and the motive of the seminar was fulfilled.

(Programme Officer)



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

'Blood Donation Drive''

The blood donation drive was organized on 7 October by the NSS Unit of Fr. CRCE. It began at 10am and was organized in association with Holy Family Hospital, Bandra West.

Prior to the beginning of the donation drive, the school hall was cleaned and arranged by the students. People gathered in large numbers and were very excited as there were many students who were experiencing blood donation for the first time as many First Year Students came forward. Dr. Sunil from the Holy Family hospital accompanied few students to every class to spread the good word of the donation drive.

A large number of diploma students also came forward to donate blood. Donors were accompanied by a Volunteer to check on the donor as well as assist. Volunteers also assisted the nurses in registration, hospitality, etc. Students who donated blood were provided with energizing fruit juices and biscuits. The drive ended at 4pm.

Blood was collected and transported and approximately 60 people donated blood.

(Programme Officer)



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

‘HIV/AIDS Seminar’

On October 8, 2015 as a part of the RRC Activities, the NSS unit of Fr. CRCE organized a seminar on the topic of HIV/AIDS.

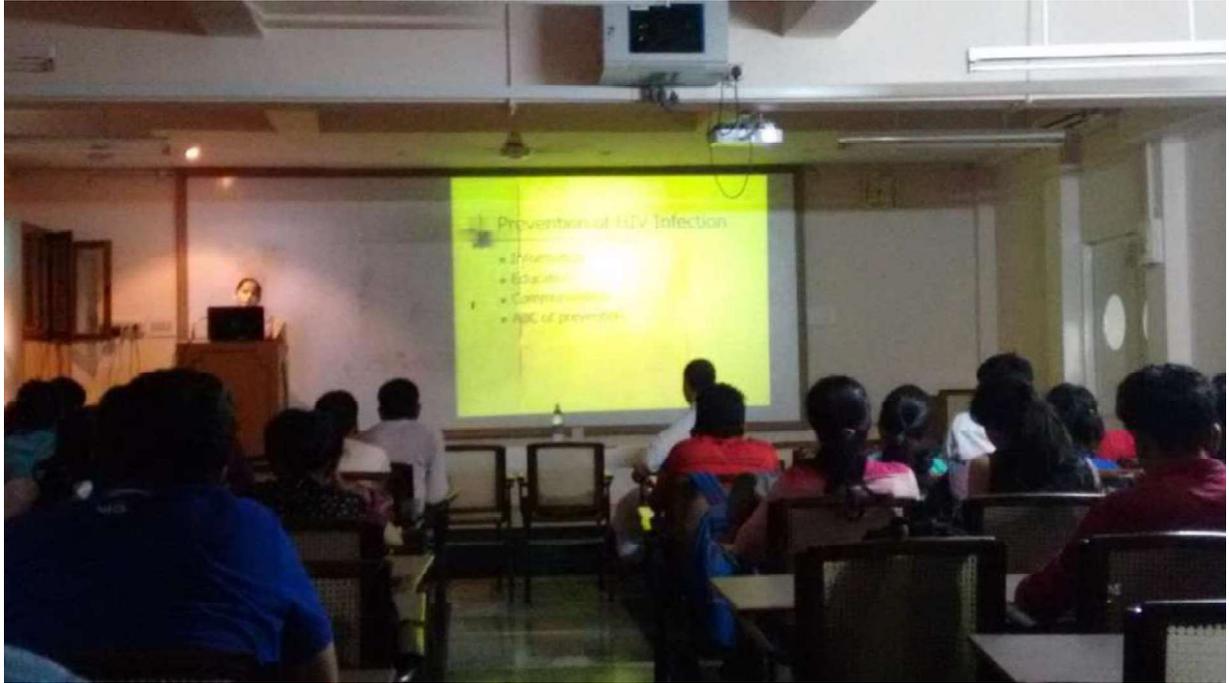
The seminar was delivered by Dr. Sr. Beena, Medical Superintendent of Holy Family Hospital, Bandra.

A presentation was shown which delved into issues such as tackling stigma and discrimination against people living with HIV/AIDS and the psychological aspects of HIV/AIDS. Moreover, it also looked into the health-related aspect of the disease, such as the symptoms, treatment, etc. Practical tips on what we as students can do both to prevent and also to be part of the fight against HIV/AIDS.

Later, a Q&A session was undertaken, where the doubts of the students were clarified.

The seminar concluded, and the aim of the orientation seminar was achieved.

(Programme Officer)



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

‘Pulse Polio Immunization Campaign - I’

A nationwide Pulse Polio Campaign was conducted on January 17, 2015. To be a part of this mass project, the NSS Unit of FR. CRCE participated and volunteered at a Polio Drive being conducted at Naigaon.

Under the guidance of Mrs. AnaghaKelkar, Auxiliary Nurse of Primary Health Center, the NSS volunteers conducted a survey in Kochiwada village in Naigaon. The survey enlightened about the educated and uneducated children in the village. The volunteers started the survey and also helped the nurses with the ingestion of polio vaccine.

(Programme Officer)







Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

‘Self Defense Seminar & Workshop’

On January 25, 2016, a self-defense seminar was organized for the students and volunteers of Fr. CRCE. The seminar was conducted by a student of the college itself, Ms. Slavvy Coelho, a student of S.E. Computers.

The seminar aimed on educating the students about the basics of self-defense, with emphasis on specific targets that can help when in trouble.

After completing the seminar, students clarified their doubts, and also tried the demonstrations in the seminar in groups.

Students appreciated the seminar cum workshop and were educated about the same.

(Programme Officer)



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

“Visit to Snehasadan, Andheri”

The NSS unit of Fr. CRCE visited Snehasadan on March 5, 2016, to interact with less privileged boys residing there.

After taking a tour of the campus, volunteers started interacting with the boys asking them about their life, and also shared few stories about themselves. On completing a brief interaction, volunteers proceeded to play with the boys.

Volunteers also donated the articles that were collected by them during the donation drive.

The visit was truly a good experience for the volunteers as well as the boys residing there.

(Programme Officer)



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

‘Visit to the Home for the Aged’

Like the previous year, this year, the NSS Unit of Fr. CRCE once again planned and organized a visit to the Home for the Aged, in Andheri East on February 21, 2016.

Volunteers reached the home at 8:30 am, and after having a short discussion with the in charge, they proceeded with the visit.

Volunteers first visited the Men living in the home, and interacted with them, few of them shared their stories, daily routines, and enquired about the lives of the youngsters. Later, the volunteers proceeded to visit the Women. Volunteers interacted with them joyfully, and also sang songs for them, and invited them to join them.

The visit concluded at around 12:30 and it was great experience for both, the volunteers as well as residents of the home.

Please Note: Clicking photos was not allowed in the premises.

(Programme Officer)

Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

‘Collection Drive’

The NSS Unit of Fr. CRCE organized a collection drive from January 18 – February 5, 2016. The drive aimed at collecting important materials for the needy, such as stationary, books, etc.

Volunteers actively participated in the collection drive, by informing the students in the college as well as their neighborhood, and got the items to college. All these donations were to be proceeded to an Ashram later.

Along with this, a newspaper drive was also organized by the unit, with the aim of using these newspapers to make Paper Bags to be distributed to the stalls at Bandstand and nearby.

(Programme Officer)



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

‘Awareness at Bandstand’

The NSS Unit of Fr. CRCE organized a general awareness campaign to inform people about the dangers of clicking selfies at Bandstand, which claimed the lives of 2 people earlier.

For the awareness campaign, from February 4, 2016 – February 18, 2016, volunteers prepared charts and spread it across college. Volunteers also approached people at Bandstand, and informed them about the danger, and also informed them about the fine that is levied.

School children, tourists, locals were among the few that were informed.

The campaign was carried out in phases for two weeks

(Programme Officer)



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

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(Programme Officer)







SOCIETY OF ST. FRANCIS XAVIER, PILAR'S
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
(Approved by AICTE & Affiliated to University of Mumbai)

Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.
Phone : (022) 6711 4000, 6711 4101, 6711 4104 • Fax : 6711 4100
Website : www.frce.ac.in • Email : crce@fragnel.edu.in

Ref: CRCE / 2015 / 459

Date: August 26, 2015.

To,
Rev. Fr. Neville Fernandes
Mukti Society

Rev. Fr.

At the outset, please accept our greetings.

We whole heartedly thank you for delivering a session during One Day Workshop on "Value Education and Career Orientation" to our all Engineering branch students from 12th to 14th & 26th August 2015.

Your expertise and experience has greatly contributed to the success of this workshop and the participants were greatly benefited by your deliberations and it was certainly a memorable and rewarding experience.

We look forward for similar cooperation from you in future.

Yours faithfully,

(DR. SRIJA RINKRISHNAN)
PRINCIPAL



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PRINCIPAL

| Sr. | Roll. | Name of the Student | April | 11-30 |
|-----|-------|------------------------------|------------------|------------------|
| 1 | 6387 | Thakare Jayen Bhadalya | April | 11-30 |
| 2 | 6674 | Bhoir Tejas Sujan | April | 11-30 |
| 3 | 6691 | Kikani Darshan Yogesh | April | 11-30 |
| 4 | 6694 | Kuchekar Hrishikesh C. | April | 11-30 |
| 5 | 6713 | Sardal Chaitanya Sunil | April | 11-30 |
| 6 | 6724 | Thite Aditya Santosh | April | 11-30 |
| 7 | 6982 | Arpit Sam Oommen | April | 11-30 |
| 8 | 6983 | / Baptist Tanya Naresh | April | 11-30 |
| 9 | 5984 | / Bhopte Pranjali | April | 11-30 |
| 10 | 6985 | Chandel Mayank Mahendrakumar | April | 11-30 |
| 11 | 6986 | Chelimela Vishal Mahendra | April | 11-30 |
| 12 | 6987 | Dalvi Omkar Vijay | April | 11-30 |
| 13 | 6988 | / Damushte Rasika Rajendra | April | 11-30 |
| 14 | 6990 | Dhruve Prakshat Sunil | April | 11-30 |
| 15 | 6991 | Dsouza Savio Simon | April | 11-30 |
| 16 | 6992 | Dsouza Steven Ronald | April | 11-30 |
| 17 | 6993 | Dsouza Wayne Malcolm | April | 11-30 |

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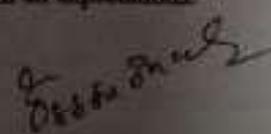
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Shriya Kumar
Curator, TEDxCRCE



TEDxCRCE 2015 Report

On 11th of April, 2015, Fr. Conceicao Rodrigues College of Engineering had the privilege of hosting its maiden TEDx event. TEDxCRCE marked the advent of the TEDx movement in our college and was the first TEDx event to be hosted by any engineering college under Mumbai University. As opposed to sultry mid-April afternoon humdrum, the atmosphere at our venue was electric and full of energy. TEDxCRCE saw 100 attendees and 11 speakers come together to celebrate the endless possibilities that originate as a result of innovative ideas, and explore "The Unbounded Panorama" - which was the theme of our event.

Cumulating the spirit of TED's mission, "Ideas Worth Spreading" and our college motto "Moulding Engineers who Build a nation", TEDxCRCE strived to recreate the unique experience found at TED, where the world's leading thinkers and doers congregate to share what they are most passionate about. Our aim was to provide a platform where the smartest thinkers, greatest visionaries, and most fascinating teachers will be inspired and will have the opportunity to inspire others.

The event began with Kanchan Daniel and the Beards, a renowned Blues band croon some famous numbers like "Blue Rain" and followed by Mukund BS, Founder of RenewIT make us feel blue and turpid about the current digital divide and how asset recovery could help solve this problem. He made us aware how socially and economically potent could computer penetration be. Manta Goenka, a two time cancer survivor spoke of her journey from "CANCER" to "CAN RACE" and how satisfying it was to help fellow women like her battle the disease post her remission.

After gorging on delicious cakes and assorted patisserie in the first break that gave an opportunity to network with some like-minded individuals, began the next session. The opening talk was by Tejas Suma Shyam who spoke on one of the hottest dinner of all times - "Education is not equal to rich" followed by top management guru, Dr Radhakrishnan Pillai tell the secrets of becoming soldiers and moved everybody to tears with her thought provoking speech.

Dr. Kaushik Bhojani told us about Rheumatology, an often underrated branch of medical science that could solve many problems that other branches cant.

With more food for thought and for the stomach and soothing mocktails to digest this down, began the final leg of our event. A mesmerizing and soulful violin performance by Karthick Iyer left everybody spellbound and Sheetal Tandon's talk on the devastating state of India's heritage structures left everybody astounded. She spoke on the importance of conservation of structures and the environment for sustainable development. The next speaker, Kalpana Morparia, CEO India, JP Morgan Chase and Co. spoke on the simple truth about successful careers and how one should identify with the purpose of the job than just the pa package it offers. Ex-Director General of Mumbai Police, D. Sivanandhan spoke how technology aids terrorism and how we can combat terrorism using technology.

With this last talk the event came to an end. It was much appreciated by all and got fantastic reviews. "The Unbounded Panorama" the event aimed to explore persuaded all to not fret about fetters. It encouraged stretching existing boundaries and breaking new ground. Be it Technology, Entertainment or Design, all went home with the belief to challenge all norms and bring out envision the Unthinkable.

TEDx CRCE

x = independently organized TED event



Dr. Kaushik Bhojani





Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

Blood Donation I

This year our college NSS unit had organized a BLOOD DONATION camp in our college campus on Thursday the 12th of March, 2015 in collaboration with Vijayee Blood Bank, Vasai.

All the NSS volunteers were assigned time slots according to their classes for volunteering.

The blood donation drive was held from 9:00am to 5:00pm in school auditorium. Active participation was seen right from the first hour of the blood donation drive. The H.O.D of Electronics department also made his part of contribution.

By the end of the blood donation drive, a total of 117 successful donors were listed. The total participation for the blood donation drive was around 150.

Rest were rejected because of several reasons like weight below the minimum level, Haemoglobin less than the required range, surgeries within a time span of 6 months, regular cold, cough etc.

Few rare blood groups like O-ve, AB-ve, A-ve were also collected.

By this one more successful event came to an end. It was the dedication of the NSS council members and the donors because of whom this drive was a huge success and we hope that everything what was donated be able to use at the right time, perhaps to save someone's life.





Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

Blood Donation II

This year our college NSS unit had organized a Blood Donation camp in our college campus on Wednesday the 10th of September, 2014 in collaboration with Holy Family Hospital, Bandra(West).

All the NSS volunteers were assigned time slots according to their classes for volunteering.

The blood donation drive was held from 9:00am to 5:00pm in school auditorium. Active participation was seen right from the first hour of the blood donation drive. The H.O.D of Electronics department also made his part of contribution.

By the end of the blood donation drive, a total of 100 successful donors were listed. The total participation for the blood donation drive was around 160.

Rest were rejected because of several reasons like weight below the minimum level, Hemoglobin less than the required range, surgeries within a time span of 6 months, regular cold, cough etc.

Few rare blood groups like O-ve, AB-ve, A-ve were also collected.

By this one more successful event came to an end. It was the dedication of the NSS council members and the donors because of whom this drive was a huge success and we hope that everything what was donated be able to use at the right time, perhaps to save someone's life.



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

Visit To St. Catherine's Home

Date: 18th August, 2014

Indian culture strongly believes in respecting females. To protect them from the evil and to keep them happy no matter what the condition is. But is our country following its own culture? If yes, then why do we find girl children who are sexually abused? Why do we find females who are left pregnant by their lovers or husbands? Are the women really

To find the answer to these The NSS unit of Fr. Conceicao Rodrigues College of Engineering, on 18th of August, 2014, THE ST. CATHERINE'S HOME. This place was founded in 1922 with the motive of giving shelter to girl child from abuse/unsafe life situations.

NSS members started their day by entering into the fresh and joyful environment of St. Catherine's home. Sister Laureta guided us for the way to different parts of St. Catherine's Home and gave us some instructions. The unit was strictly informed not to ask any of the children present in the home about their parents as it would hurt their sentiments. To give us an introduction about the St. Catherine's Home the sister took us to the St. Catherine's School premises. The introduction included the history of the home, the education facilities provided by the home, stories of how they found some of the kids and even the mindset of people in India about females etc. There are nearly 360 residents, of all age groups, in the home presently.

The children are housed in different cottages with positive names: AnandBhavan (Home of Happiness), Dilkhush (Happy Heart), NirmalaBhavan (Pure Nest), Snehanilaya (Abode of Love), Snehanjali (Offering of Love) and Karunankur (Compassionate Blossom). Later, the sister took everyone to show their premises.

Starting with the cottage where the HIV Positive girls and women stayed. The life span of an HIV infected person is around 3-15 years. All the females who are HIV positive are living a healthy life in home because of the extreme care taken in case of hygiene, food and happiness. Then the unit proceeded towards the cottage where more than 15 computers with the latest version of software were installed for educating the girls in the field of computers. None of the visitors are left unsurprised by seeing the talents of these young minds.

Then the unit was taken to the cottage where kids below the age of a year were blossomed. Almost 20 babies in a hall! Some playing around, some moving around on their knees, some trying to stand up on their feet, some crying and some showing us the actual meaning of innocence. Lastly the unit visited the residence of these children. It was well managed and hygienic. The unit was allowed to interact with the children. Some of these girls were orphans; some of them were children of unmarried women and some of them whom the society didn't accept. The interaction included various games, fun and sharing of knowledge. Many of the girls told their stories of how they were brought up in home, and the hand of home in restoring the belief of being unique back in them.

The NSS unit gave each of the girls with Pickel, Chalk boxes, Dusters, Cd's, Hair Clips.

Those minutes of life made everyone realized that everyone takes birth to take care of others. Those moments of life were priceless and brought tears into everyone's eye. The entire unit took an oath of doing something for these kids whenever possible, to go and share their knowledge and in return get what is called as "True Satisfaction".

Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

Visit To Home For The Aged

DATE: 29 February, 2015

NSS members visited old age home –HOME FOR THE AGED on *29 February, 2015* at 10 am.

The anticipation and excitement of the students was shared by the inmates of the homes. The students interacted with the seniors. The homes were well equipped with facilities and were very well maintained and hygienic. The people living in the homes shared their life experiences with the students. They talked about their families and the circumstances under which they came to live in the homes. They also shared vital lessons of life with the students who listened intently.

This visit ended at round 1:30 pm. The visit to the homes was a rewarding and heartwarming experience for both the students and the inmates of the home.



Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

On The Spot Skits

Our society has a lot of social issues. Some issues are being faced since ages, some issues started recently. Whenever maybe the inception, these issues have to be understood, brought into the broad daylight and effectively addressed. Problems are within the societies, so the responsibility of dealing with them too lies with the Society. We at NSS CRCE had a very simple motive behind this activity – Addressing Social issues in a more interactive and entertaining way.

The rules of the competition were very simple. Each team was given a topic which could be related with the current issues faced by our community. The topic was given just minutes before their turn so they had short time to prepare. The teams had to prepare a short skit which explains the topic given to them. The judges were our professors Dr. Hemant Khanolkar, Ms. Roshni Suresh Padate and Mrs. Deblina Saha.

We began the competition at 3:00pm when all three of our judges came in. We had a total of 7 teams. Each team was given their respective topics and the teams performed one by one. The judges were evaluating simultaneously. Eventually our Principal Dr. Srija Unnikrishnan and other professors joined as audience. At 4:30pm the competition ended and the winners were announced by the judges. The judges appreciated the NSS Unit's efforts and the event concluded on a positive note.





Fr. Conceicao Rodrigues College of Engineering, Bandra West, Mumbai 400050

Clothes Collection Drive

There are hundreds of homeless people in Mumbai who are forced to live under flyovers, on footpaths, underpass, bus stop or train station and spend harsh winters on the streets without even basic clothing.

So NSS CRCE took the initiative to donate used clothes, utensils, stationary to the needy. We had kept booths at the entrance of our college building where people can donate used clothes, utensils and stationary. This event was open for two days 22 and 23 September 2014.

The NSS members as well as other students came forward and showed their generosity towards the needy.

At the end of the second day we gathered a lot of clothes. We handed them over to the Goonj NGO Dropping center in Santacruz West.

**First Year Engineering (Semester I & II), Revised course from Academic Year 2016 -17,
(REV- 2016) (Common for all Branches of Engineering)**

Scheme for FE - Semester – II

| Sub. Code | Subject Name | Examination Scheme | | | | | | | Total | |
|-----------|---------------------------------|---------------------|--------|----|----------------------------|---------------|-----------|--------|-------|------|
| | | Theory marks | | | | End sem. exam | Term Work | Pract. | | Oral |
| | | Internal Assessment | | | Average of Test 1 & Test 2 | | | | | |
| | | Test 1 | Test 2 | | | | | | | |
| FEC201 | Applied Mathematics-II | 20 | 20 | 20 | 80 | 25 | - | - | 125 | |
| FEC202 | Applied Physics-II | 15 | 15 | 15 | 60 | 25 | - | - | 100 | |
| FEC203 | Applied Chemistry -II | 15 | 15 | 15 | 60 | 25 | - | - | 100 | |
| FEC204 | Engineering Drawing | 15 | 15 | 15 | 60 | 25 | 50 | - | 150 | |
| FEC205 | Structured Programming Approach | 20 | 20 | 20 | 80 | 25 | 25 | - | 150 | |
| FEC206 | Communication Skills | 10 | 10 | 10 | 40 | 25 | - | - | 75 | |
| FEL201 | Basic Workshop Practice-II | - | - | - | - | 50 | - | - | 50 | |
| | | | | 95 | 380 | 200 | 75 | | 750 | |

| Subject Code | Subject Name | Teaching Scheme | | | Credits Assigned | | | |
|--------------|---------------------------------|-----------------|--------|------|------------------|----------|------|-------|
| | | Theory | Pract. | Tut. | Theory | TW/Pract | Tut. | Total |
| FEC201 | Applied Mathematics-II | 04 | - | 01 | 04 | | 01 | 05 |
| FEC202 | Applied Physics-II | 03 | 01 | - | 03 | 0.5 | - | 3.5 |
| FEC203 | Applied Chemistry -II | 03 | 01 | - | 03 | 0.5 | | 3.5 |
| FEC204 | Engineering Drawing | 03 | 04 | - | 03 | 02 | - | 05 |
| FEC205 | Structured Programming Approach | 04 | 02 | - | 04 | 01 | - | 05 |
| FEC206 | Communication Skills | 02 | 02 | - | 02 | 01 | - | 03 |
| FEL201 | Basic Workshop Practice -II | - | 04 | - | - | 02 | - | 02 |
| | | 19 | 14 | 01 | 19 | 07 | 01 | 27 |

| Subject Code | Subject Name | Teaching Scheme (Contact Hours) | | | Credits Assigned | | | | |
|--------------|-----------------------------|---------------------------------|--------|------|------------------|-----------|--------|-------|-------|
| | | Theory | Pract | Tut. | Theory | Pract. | Tut | Total | |
| FEC206 | Communication Skills | 02 | 02 | | 02 | 02 | 01 | 03 | |
| | | Examination Scheme | | | | | | | |
| | | Theory Examination | | | | Term Work | Pract. | Oral | Total |
| | | Internal Assessment | | | End Sem. Exam | | | | |
| | | Test 1 | Test 2 | Avg. | | | | | |
| | | 10 | 10 | 10 | 40 | 25 | | 75 | |

COURSE OBJECTIVES:

- To acquaint the students with basic concepts, theories and barriers to communication.
- To enhance communication skills by giving adequate exposure in LSRW skills.
- To develop an overall language and communication skills for better technical writing.
- To know the essential features and mechanics of comprehension and summarization.
- To deploy technology to communicate effectively in various situations.

COURSE OUTCOMES:

The students will be able to-

- Identify, interpret and construct appropriate messages for a variety of contexts.
- Display oral and written skills in the English language in different scenarios of business communication.
- Enhance the proficiency to use appropriate language for technical writing.
- Demonstrate good comprehension, inference making, vocabulary building, paraphrasing and summarizing.

| Sr. No | Module | No. of lectures |
|--------|--|-----------------|
| 1 | Communication Theory: Concept and Meaning, Communication cycle, Objectives, Barriers to communication (linguistic and semantic, psychological, physical, mechanical, cultural), Methods of communication (verbal and non-verbal), Networks of communication (formal and informal), Language skills (listening, speaking, reading, writing), Corporate communication: Digital Content Creation. | 13 |
| 2 | Business Correspondence: Principles of Business Correspondence, Parts of a business letter, Formats (Complete block and Modified block), Types of letters: Enquiry, Reply to enquiry, Claim, Adjustment and Sales letter. | 5 |

| | | |
|---|--|---|
| 3 | Grammar and Vocabulary: Common errors, Concord (subject- verb agreement), Pairs of confused words, Lexicon (Enriching vocabulary through one-word substitutes, synonyms, antonyms, etc.) | 2 |
| 4 | Summarization and Comprehension: Passages to test the analytical skills and expression | 2 |
| 5 | Technical writing : Techniques to define an object, writing instructions, language exercises based on types of expositions (description of an object, explanation of a process) | 2 |
| 6 | Information Communication Technology (ICT) enabled communication media: E-mail, Blog and Website. | 2 |

Note: Two tests are prescribed for internal assessment. The first test should be conducted in the form of a three-minute public speech. The second test should be based on theory and application exercises based on the syllabus.

Term work: 25 marks Assignments: 20 marks Attendance: 05 marks

List of assignments:

Communication theory: 02

Business Correspondence: 02

Grammar and vocabulary: 01

Summarization & Comprehension: 01

Technical writing: 01

ICT enabled communication media: 01

Recommended reference books, websites and journals for Communication Skills:

- Communication in Organizations* by Dalmar Fisher, Jaico Publishing House
- Communication Skills* by Meenakshi Raman & Sangeeta Sharma, Oxford University Press
- Business Correspondence & Report-writing* by R.C. Sharma & Krishna Mohan, Tata McGraw-Hill Education
- Effective Technical Communication* by Ashraf Rizvi, Tata McGraw-Hill
- Technical Writing & Professional Communication for non-native speakers of English* by Thomas N. Huckin & Leslie A. Olsen, McGraw-Hill
- Mastering Communication* by Nicky Stanton, Palgrave Master Series
- www.buisnesscommunicationskills.com
- www.kcitraing.com
- www.mindtools.com
- Journal of Business Communication*

Paper pattern

Total Marks: 40, Duration: 2 hours Distribution of marks and weightage:

- The paper will comprise of 6 questions of 10 marks each out of which 4 need to be attempted.
- The first question is compulsory and will be a combination of all modules.
- Students can attempt any 3 out of the remaining 5 questions.
- The first module (Communication Theory) will carry 40 % weightage.
- Questions 2, 3, 4, 5 and 6 will be based on combinations of two or more modules.

T.E. (Production) Sem.-V

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | Credits Assigned | | | | | |
|-------------|---|---------------------------------|-----------|------------------|--------------|-------------------------|------------|--------------|------------|
| | | Theory | Pract | Theory | Pract | Total | | | |
| PEC501 | Design of Mold & Metal Forming Tools | 04 | -- | 04 | -- | 04 | | | |
| PEC502 | Operations Research | 03 | -- | 03 | -- | 03 | | | |
| PEC503 | Machine Design-I | 04 | -- | 04 | -- | 04 | | | |
| PEC504 | CAD/CAM/CIM | 04 | -- | 04 | -- | 04 | | | |
| PEC505 | Metrology & Quality Engineering | 04 | -- | 04 | -- | 04 | | | |
| PEDLO 501X | Department Level Optional Course I | 03 | -- | 03 | -- | 03 | | | |
| PEL501 | Design of Mold & Metal Forming Tools Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL502 | Machine Design-I Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL503 | CAD/CAM/CIM Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL504 | Metrology & Quality Engg Laboratory | -- | 02 | -- | 01 | 01 | | | |
| PEL505 | Business Communication & Ethics | -- | 02*+02 | -- | 02 | 02 | | | |
| | Total | 22 | 12 | 22 | 06 | 28 | | | |
| Course Code | Course Name | Examination Scheme | | | | | | | |
| | | Theory | | | | | Term Work | Pract. /Oral | Total |
| | | Internal Assessment | | | End Sem Exam | Exam. Duration (in Hrs) | | | |
| | | Test1 | Test 2 | Avg. | | | | | |
| PEC501 | Design of Molds & Metal Forming Tools | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC502 | Operations Research | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC503 | Machine Design-I | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC504 | CAD/CAM/CIM | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC505 | Metrology & Quality Engg. | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEDLO 501X | Department Level Optional Course I | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEL501 | Design of Mold & Metal Forming Tools Laboratory | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL502 | Machine Design-I Laboratory | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL503 | CAD/CAM/CIM Laboratory | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL504 | Metrology & Quality Engg Laboratory. | -- | -- | -- | -- | -- | 25 | 25 | 50 |
| PEL505 | Business Communication & Ethics Laboratory | | | | | | 50 | -- | 50 |
| | Total | | | 120 | 480 | | 150 | 100 | 850 |

* **Theory for entire class to be conducted.**

| | | |
|---------------|--|-----------|
| Subject Code | Subject Name | Credits |
| PEL505 | Business Communication & Ethics | 02 |

Objectives:

1. To inculcate professional and ethical attitude at the workplace
2. To enhance effective communication and interpersonal skills
3. To build multidisciplinary approach towards all life tasks
4. To hone analytical and logical skills for problem-solving

Outcomes: Learner will be able to...

1. Design a technical document using precise language, suitable vocabulary and apt style.
2. Develop the life skills/ interpersonal skills to progress professionally by building stronger relationships.
3. Demonstrate awareness of contemporary issues knowledge of professional and ethical responsibilities.
4. Apply the traits of a suitable candidate for a job/higher education, upon being trained in the techniques of holding a group discussion, facing interviews and writing resume/SOP.
5. Deliver formal presentations effectively implementing the verbal and non-verbal skills

| Modules | Detailed Content | Hours |
|---------|--|-------|
| 01 | Report Writing 1.1 Objectives of Report Writing 1.2 Language and Style in a report 1.3 Types : Informative and Interpretative (Analytical, Survey and Feasibility) and Formats of reports (Memo, Letter, Short and Long Report) | 05 |
| 02 | Technical Writing 2.1 Technical Paper Writing (IEEE Format) 2.2 Proposal Writing | 03 |
| 03 | Introduction to Interpersonal Skills 3.1 Emotional Intelligence 3.2 Leadership and Motivation 3.3 Team Building 3.4 Assertiveness 3.5 Conflict Resolution and Negotiation Skills 3.6 Time Management 3.7 Decision Making | 09 |
| 04 | Meetings and Documentation 4.1 Strategies for conducting effective meetings 4.2 Notice, Agenda and Minutes of a meeting 4.3 Business meeting etiquettes | 02 |
| 05 | Introduction to Corporate Ethics 5.1 Professional and work ethics (responsible use of social media - Facebook, WA, Twitter etc. 5.2 Introduction to Intellectual Property Rights 5.3 Ethical codes of conduct in business and corporate activities (Personal ethics, conflicting values, choosing a moral response and making ethical decisions) | 02 |

| | | |
|----|---|----|
| 06 | Employment Skills 6.1 Group Discussion 6.2 Resume Writing 6.3 Interview Skills 6.4 Presentation Skills 6.5 Statement of Purpose | 07 |
|----|---|----|

Assessment:

List of Assignments

1. Report Writing (Theory)
2. Technical Proposal
3. Technical Paper Writing (Paraphrasing a published IEEE Technical Paper)
4. Interpersonal Skills (Group activities and Role plays)
5. Interpersonal Skills (Documentation in the form of soft copy or hard copy)
6. Meetings and Documentation (Notice, Agenda, Minutes of Mock Meetings)
7. Corporate ethics (Case studies, Role plays)
8. Writing Resume and Statement of Purpose

Term Work

Term work shall consist of all assignments from the list.

The distribution of marks for term work shall be as follows:

| | |
|------------------------------|-----------------|
| Book Report | 10 marks |
| Assignments: | 10 marks |
| Project Report Presentation: | 15 marks |
| Group Discussion: | 10 marks |
| Attendance: | 05 marks |

References:

1. Fred Luthans, "Organizational Behavior", Mc Graw Hill,
2. Lesiker and Petit, "Report Writing for Business", Mc Graw Hill
3. R.Subramaniam, "Professional Ethics" Oxford University Press
4. Huckin and Olsen, "Technical Writing and Professional Communication", McGraw
5. Raman and Sharma, Fundamentals of Technical Communication, Oxford University Press
6. Hill Wallace and Masters, "Personal Development for Life and Work", Thomson Learning, 12th Edition
7. Heta Murphy, "*Effective Business Communication*", Mc Graw Hill, edition
8. R.C Sharma and Krishna Mohan, "*Business Correspondence and Report Writing*",
9. Raman Sharma, *Communication Skills*, Oxford University Press
10. B N Ghosh, "*Managing Soft Skills for Personality Development*", Tata McGraw Hill Lehman,
11. Dufrene, Sinha, "*BCOM*", Cengage Learning, 2nd edition
12. Bell . Smith, "Management Communication" Wiley India Edition, 3rd edition.
13. Dr. K. Alex , "Soft Skills", S Chand and Company
14. Robbins Stephens P., "Organizational Behavior", Pearson Education
15. <https://grad.ucla.edu/asis/agep/advsoystem.pdf>

| Course Code | Course Name | Credits |
|---------------|--|-----------|
| CSL505 | Business Communication & Ethics | 02 |

Course Objectives:

1. To inculcate professional and ethical attitude at the work place
2. To enhance effective communication and interpersonal skills
3. To build multidisciplinary approach towards all life tasks
4. To hone analytical and logical skills for problem-solving.

Course Outcomes: Learner will be able to...

1. Design a technical document using precise language, suitable vocabulary and apt style.
2. Develop the life skills/interpersonal skills to progress professionally by building stronger relationships.
3. Demonstrate awareness of contemporary issues knowledge of professional and ethical responsibilities.
4. Apply the traits of a suitable candidate for a job/higher education, upon being trained in the techniques of holding a group discussion, facing interviews and writing resume/SOP.
5. Deliver formal presentations effectively implementing the verbal and non-verbal skills

| Module | Detailed Contents | Hrs. |
|-----------|---|-----------|
| 01 | Report Writing | 05 |
| 1.1 | Objectives of Report Writing | |
| 1.2 | Language and Style in a report | |
| 1.3 | Types: Informative and Interpretative (Analytical, Survey and Feasibility) and Formats of reports(Memo, Letter, Short and Long Report) | |
| 02 | Technical Writing | 03 |
| 2.1 | Technical Paper Writing(IEEE Format) | |
| 2.2 | Proposal Writing | |
| 03 | Introduction to Interpersonal Skills | 09 |
| 3.1 | Emotional Intelligence | |
| 3.2 | Leadership and Motivation | |
| 3.3 | Team Building | |
| 3.4 | Assertiveness | |
| 3.5 | Conflict Resolution and Negotiation Skills | |
| 3.6 | Time Management | |
| 3.7 | Decision Making | |
| 04 | Meetings and Documentation | 02 |
| 4.1 | Strategies for conducting effective meetings | |
| 4.2 | Notice, Agenda and Minutes of a meeting | |
| 4.3 | Business meeting etiquettes | |
| 05 | Introduction to Corporate Ethics | 02 |
| 5.1 | Professional and work ethics (responsible use of social media Facebook, WA, Twitter etc.) | |
| 5.2 | Introduction to Intellectual Property Rights | |
| 5.4 | Ethical codes of conduct in business and corporate activities (Personal ethics, conflicting values, choosing a moral response and making ethical decisions) | |

| | | |
|-----------|--------------------------|-----------|
| 06 | Employment Skills | 07 |
| 6.1 | Group Discussion | |
| 6.2 | Resume Writing | |
| 6.3 | Interview Skills | |
| 6.4 | Presentation Skills | |
| 6.5 | Statement of Purpose | |
| | | 28 |

Assessment:

List of Assignments

1. Report Writing(Theory)
2. Technical Proposal
3. Technical Paper Writing(Paraphrasing a published IEEE Technical Paper)
4. Interpersonal Skills(Group activities and Role plays)
5. Interpersonal Skills(Documentation in the form of soft copy or hard copy)
6. Meetings and Documentation(Notice, Agenda, Minutes of Mock Meetings)
7. Corporate ethics(Case studies, Role plays)
8. Writing Resume and Statement of Purpose

Term Work

Term work shall consist of all assignments from the list. The distribution of marks for term work shall be as follows:

| | |
|------------------------------|-----------------|
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| Project Report Presentation: | 15 marks |
| Group Discussion: | 10 marks |
| Attendance: | 05 marks |

References:

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2. Lesiker and Petit, "Report Writing for Business ", McGrawHill
3. R. Subramaniam, "Professional Ethics" Oxford University Press
4. Huckin and Olsen, "Technical Writing and Professional Communication ", McGraw
5. Raman and Sharma, Fundamentals of Technical Communication, Oxford University Press
6. Hill Wallace and Masters, "Personal Development for Life and Work", Thomson Learning.
7. Heta Murphy, "Effective Business Communication ", McGraw Hill, edition
8. R.C Sharma and Krishna Mohan, "Business Correspondence and Report Writing",
9. Raman Sharma, "Communication Skills", Oxford University Press
10. B N Ghosh, "Managing Soft Skills for Personality Development ", Tata McGraw Hill
11. Dufrene, Sinha, "BCOM", Cengage Learning, 2nd edition
12. Bell. Smith, "Management Communication" Wiley India Edition, 3rd edition.
13. Dr. K. Alex, "Soft Skills", S Chand and Company
14. Robbins Stephens P., "Organizational Behavior", Pearson Education
15. <https://grad.ucla.edu/asis/agep/advsoystem.pdf>

| | | | | |
|-----|--|--|----|------|
| | | <p>function in the function, Checking & Setting Your Parameters, Calling Functions from within Other Functions, Functions Inside of Functions, Layers of Functions</p> <p>Lab Experiment:</p> <p>Write python programs to understand different decision making statements and Functions.</p> <p>(Minimum Three Programs based on Decision making, Looping Statements and Functions)</p> | | |
| III | Object Oriented Programming using Python programming | <p>Theory: Creating a Class, Self Variables, Constructors, Types of Methods, Inner Classes, Constructors in Inheritance, Polymorphism,, The super() Method, Method Resolution Order (MRO), Operator Overloading, Method Overloading & Overriding, Interfaces in Python. Exceptions Handling: Errors in a Python Program, Exceptions, Exception Handling, Types of Exceptions, The Except Block, The assert Statement.</p> <p>Modules and Packages: Creating Modules and Packages, Documenting & Viewing Module, Basics of Testing Your Modules and Packages, Importing & exporting Modules.</p> <p>Lab Experiment:</p> <p>Write python programs to understand different Object oriented features in Python</p> <p>(Minimum four programs based on</p> <p>a) Classes & objects,</p> | 10 | LO 3 |

| Course Code | Course Name | Theory | Practical | Tutorial | Theory | TW/ Practical | Tutorial | Total |
|-------------|-----------------------------------|--------|-----------|----------|--------|------------------|----------|-------|
| ITL505 | Business Communication and Ethics | 2 | 2* | -- | -- | 2 | -- | 2 |

| Course Code | Course Name | Examination Scheme | | | | | | | |
|-------------|-----------------------------------|---------------------|-------|-------------------|---------------|-----------|------------------|------|-------|
| | | Theory Marks | | | | Term Work | Oral & Practical | Oral | Total |
| | | Internal assessment | | | End Sem. Exam | | | | |
| | | Test1 | Test2 | Avg. of two Tests | | | | | |
| ITL505 | Business Communication and Ethics | -- | -- | -- | -- | 50 | -- | -- | 50 |

* Batch wise practical's

Pre-requisite

- Communication Skills

Course Objective: Students will try:

1. To inculcate professional and ethical attitude at the workplace
2. To enhance effective communication and interpersonal skills
3. To build multidisciplinary approach towards all life tasks
4. To hone analytical and logical skills for problem-solving

Course Outcomes: Students will learn to:

1. Design a technical document using precise language, suitable vocabulary and apt style.
2. Develop the life skills/ interpersonal skills to progress professionally by building stronger relationships.
3. Demonstrate awareness of contemporary issues knowledge of professional and ethical responsibilities.
4. Apply the traits of a suitable candidate for a job/higher education, upon being trained in the techniques of holding a group discussion, facing interviews and writing resume/SOP.
5. Deliver formal presentations effectively implementing the verbal and non-verbal skills.

| Module | Detailed Contents | Hrs. |
|---------------|---|-------------|
| 01 | Report Writing | 05 |
| 1.1 | Objectives of Report Writing | |
| 1.2 | Language and Style in a report | |
| 1.3 | Types : Informative and Interpretative (Analytical, Survey and Feasibility) and Formats of reports (Memo, Letter, Short and Long Report) | |
| 02 | Technical Writing | 03 |
| 2.1 | Technical Paper Writing (IEEE Format) | |
| 2.2 | Proposal Writing | |
| 03 | Introduction to Interpersonal Skills | 08 |
| 3.1 | Emotional Intelligence | |
| 3.2 | Leadership and Motivation | |
| 3.3 | Team Building | |
| 3.4 | Assertiveness | |
| 3.5 | Conflict Resolution and Negotiation Skills | |
| 3.6 | Time Management | |
| 3.7 | Decision Making | |
| 04 | Meetings and Documentation | 02 |
| 4.1 | Strategies for conducting effective meetings | |
| 4.2 | Notice, Agenda and Minutes of a meeting | |
| 4.3 | Business meeting etiquettes | |
| 05 | Introduction to Corporate Ethics | 02 |
| 5.1 | Professional and work ethics (responsible use of social media - Facebook, WA, Twitter etc.) | |
| 5.2 | Introduction to Intellectual Property Rights | |
| 5.4 | Ethical codes of conduct in business and corporate activities (Personal ethics, conflicting values, choosing a moral response and making ethical decisions) | |
| 06 | Employment Skills | 06 |

| | | |
|-----|----------------------|----|
| 6.1 | Group Discussion | |
| 6.2 | Resume Writing | |
| 6.3 | Interview Skills | |
| 6.4 | Presentation Skills | |
| 6.5 | Statement of Purpose | |
| | | 26 |

1. Report Writing (Theory)
2. Technical Proposal
3. Technical Paper Writing (Paraphrasing a published IEEE Technical Paper)
4. Interpersonal Skills (Group activities and Role plays)
5. Interpersonal Skills (Documentation in the form of soft copy or hard copy)
6. Meetings and Documentation (Notice, Agenda, Minutes of Mock Meetings)
7. Corporate ethics (Case studies, Role plays)
8. Writing Resume and Statement of Purpose

1. Term Work:

2. Term work shall consist of all assignments from the list. The distribution of marks for term
3. work shall be as follows:
4. Book Report.....(10) Marks
5. Assignments (10) Marks
6. Project Report Presentation..... (15) Marks
7. Group Discussion..... (10) Marks
8. Attendance(05) Marks
9. **TOTAL:(50) Marks**

The final certification and acceptance of term work ensures the satisfactory performance of work assigned and minimum passing in the term work.

References

1. Fred Luthans, “*Organizational Behavior*”, McGraw Hill, edition
2. Lesiker and Petit, “*Report Writing for Business*”, McGraw Hill, edition
3. Huckin and Olsen, “*Technical Writing and Professional Communication*”, McGraw Hill

4. Wallace and Masters, "*Personal Development for Life and Work*", Thomson Learning, 12th edition
5. Heta Murphy, "*Effective Business Communication*", Mc Graw Hill, edition
6. Sharma R.C. and Krishna Mohan, "*Business Correspondence and Report Writing*", Tata McGraw-Hill Education
7. Ghosh, B. N., "*Managing Soft Skills for Personality Development*", Tata McGraw Hill. Lehman,
8. Dufrene, Sinha, "BCOM", Cengage Learning, 2nd edition
9. Bell, Smith, "Management Communication" Wiley India Edition, 3rd edition.
10. Dr. Alex, K., "Soft Skills", S Chand and Company
11. Subramaniam, R., "Professional Ethics" Oxford University Press.
12. Robbins Stephens P., "Organizational Behavior", Pearson Education
13. <https://grad.ucla.edu/asis/agep/advspstem.pdf>

T.E. (Electronics Engineering) – Semester V

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | | Credits Assigned | | | |
|--------------|---|---------------------------------|-----------|-----------|------------------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | Theory | Practical | Tutorial | Total |
| ELX501 | Microcontrollers and Applications | 04 | -- | --- | 04 | --- | --- | 04 |
| ELX 502 | Digital Communication | 04 | - | -- | 04 | --- | --- | 04 |
| ELX 503 | Engineering Electromagnetics | 04 | - | @01 | 04 | --- | 01 | 05 |
| ELX 504 | Design with Linear Integrated Circuits | 04 | 02 | --- | 04 | --- | --- | 04 |
| ELX 505 | Business Communication & Ethics | 02 | 02# | | --- | 02 | --- | 02 |
| ELXDLO501X | Department Level optional courses I | 04 | 02 | --- | 04 | | --- | 04 |
| ELXL501 | Microcontrollers and Applications Lab. | | | | | 01 | --- | 01 |
| ELXL502 | Digital Communication Lab. | | | | | 01 | --- | 01 |
| ELXL503 | Design with Linear Integrated Circuits Lab. | | | | | 01 | --- | 01 |
| ELX DLO150X | Department Level optional course-I Lab | | | | | 01 | --- | 01 |
| TOTAL | | 20 | 08 | 04 | 20 | 06 | 01 | 27 |

1 hour tutorial class-wise #02 hours batch-wise

| Course Code | Course Name | Examination Scheme – Semester V | | | | | | | |
|--------------|---|---------------------------------|------------|------------|--------------------|-----------------------|------------|------------|------------|
| | | Theory | | | | | Term Work | Oral /Prac | Total |
| | | Internal Assessment (IA) | | | End Sem Exam Marks | Exam Duration (Hours) | | | |
| Test I | Test II | AVG. | | | | | | | |
| ELX501 | Micro-controllers and Applications | 20 | 20 | 20 | 80 | 03 | --- | --- | 100 |
| ELX 502 | Digital Communication | 20 | 20 | 20 | 80 | 03 | --- | --- | 100 |
| ELX 503 | Engineering Electromagnetics | 20 | 20 | 20 | 80 | 03 | 25 | --- | 125 |
| ELX 504 | Design with Linear Integrated Circuits | 20 | 20 | 20 | 80 | 03 | --- | --- | 100 |
| ELX 505 | Business Communication & Ethics | --- | --- | --- | --- | --- | 50 | --- | 50 |
| ELX DLO501X | Department Level Elective-I | 20 | 20 | 20 | 80 | 03 | --- | --- | 100 |
| ELXL501 | Micro-controllers and Applications Lab. | | | | | | 25 | 25 | 50 |
| ELXL 502 | Digital Communication Lab. | | | | | | 25 | 25 | 50 |
| ELXL 503 | Design with Linear Integrated Circuits Lab. | | | | | | 25 | 25 | 50 |
| ELXL DLO501X | Department Elective I lab | | | | | | 25 | 25 | 50 |
| Total | | 100 | 100 | 100 | 400 | 15 | 175 | 100 | 775 |

| Course Code | Department Level Optional Course I |
|-------------|------------------------------------|
| ELXDLO5011 | Database and Management System |
| ELXDLO5012 | Digital Control system |
| ELXDLO5013 | ASIC Verification |
| ELXDLO5014 | Biomedical Instrumentation |

B. E. (Production) Sem.-VIII

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | Credits Assigned | | | | | |
|--------------|--|---------------------------------|-----------|------------------|----------------|-------------------------|------------|--------------|------------|
| | | Theory | Pract. | Theory | Pract. | Total | | | |
| PEC801 | Automation and Control Engineering | 4 | 2 | 4 | 1 | 5 | | | |
| PEC802 | Computer Aided Manufacturing | 4 | 2 | 4 | 1 | 5 | | | |
| PEC803 | Engineering Economics, Finance, Accounting and Costing | 4 | -- | 4 | -- | 4 | | | |
| PEC804 | Total Quality Strategy | 4 | 2 | 4 | 1 | 5 | | | |
| PEC805 | Industrial relations and Human Resource Management | 4 | -- | 4 | -- | 4 | | | |
| PEE801X | Elective-I | 3 | 2 | 3 | 1 | 4 | | | |
| TOTAL | | 23 | 08 | 23 | 4 | 27 | | | |
| Course Code | Course Name | Examination Scheme | | | | | | | |
| | | Theory | | | | | Term Work | Pract./ Oral | Total |
| | | Internal Assessment | | | End Sem. Exam. | Exam. Duration (in Hrs) | | | |
| | | Test1 | Test2 | Avg. | | | | | |
| PEC801 | Automation and Control Engineering | 20 | 20 | 20 | 80 | 03 | 25 | 25 | 150 |
| PEC802 | Computer Aided Manufacturing | 20 | 20 | 20 | 80 | 03 | 25 | 25 | 150 |
| PEC803 | Engineering Economics, Finance, Accounting and Costing | 20 | 20 | 20 | 80 | 03 | -- | -- | 100 |
| PEC804 | Total Quality Strategy | 20 | 20 | 20 | 80 | 03 | 25 | 25* | 150 |
| PEC805 | Industrial Relations and Human Resource Management | 20 | 20 | 20 | 80 | 03 | -- | --- | 100 |
| PEE801X | Elective-I | 20 | 20 | 20 | 80 | 03 | 25 | -- | 125 |
| Total | | -- | -- | 120 | 480 | -- | 100 | 75 | 775 |

* Only ORAL examination based on term work and syllabus

List of Electives

| Course codes | Course Name | Course codes | Course Name |
|--------------|---------------------------------------|--------------|--------------------------------|
| PEE8011 | Sales and Marketing Management | PEE8016 | Mechatronics |
| PEE8012 | Logistics and Supply Chain Management | PEE8017 | Industrial Robotics |
| PEE8013 | Plastics Engineering | PEE8018 | Product Design and Development |
| PEE8014 | Entrepreneurship Development | PEE8019 | Sustainable Engineering |
| PEE8015 | World Class Manufacturing | PEE80110 | Maintenance Engineering |

| | | |
|---------------|---|----------|
| Course Code | Course/Subject Name | Credits |
| PEC805 | Industrial Relations and Human Resource Management | 4 |

Objectives

1. To get an exposure to aspects pertaining to human resource and its relevance in industry.
2. To focus on the behavioral aspects and industrial relations.

Outcomes: Learner will be able to...

1. Appreciate human resource as the most vital resource of an organization.
2. Develop skills in identifying, planning, and deploying of man power.
3. Develop inter personal and communication skills.
4. Develop skills in identifying training needs of employs at different levels.

| Module | Details | Hrs. |
|-----------|--|-----------|
| 01 | Evolution and Developments of thought Evolution of managements thought, behavioral, contingency and Contemporary management approach. Organization structure Definition, need, types of organizational responsibility, authority, accountability, delegation and span of control. | 08 |
| 02 | Decision Making Types of decision, steps in rational decision making. Functions of personnel Management Managerial and operative functions. | 06 |
| 03 | Communication Significance of communication, Principles of effective communication and Barriers of communication. Leaderships Different styles of leadership and their suitability, Empowering employees and Manager as a leader. | 10 |
| 04 | Human Behavior Perception, attitude, Groups, Types of groups, Groups behavior, Morale and Job satisfaction. Motivation Theories of Motivation, Job design, Job enlargement and enrichment, Difference between manipulation & motivation and Performance appraisals. | 06 |
| 05 | Human resource development 5.1 Human resource planning, Job description, Job analysis and job evaluation, Recruitment and selection procedure. 5.2 Training and Development: Concepts and difference between training and development, Identification of training needs at different levels, Methods, Steps and Types of training. 5.3 Promotion: Basis for promotion and their merits and demerits. 5.4 Retaining of human resource: 5.6 Safety, steps in safety programme, Occupational hazards, and Accident prevention.. | 12 |

| | | |
|-----------|--|-----------|
| 06 | Compensation and salary Administration: 6.1 Factory act, Industrial dispute act, Salary and wage fixation and Workman's compensation act. 6.2 Employee grievances, Machinery for addressing grievances, Collective bargaining, Industrial relations, Trade unions and managing Conflicts. | 06 |
|-----------|--|-----------|

Internal Assessment

Assessment consists of two tests out of which; one should be compulsory class test (on minimum 40% of curriculum) and the other is either a class test (on minimum 70% of curriculum) or assignment on live problems or course project.

Theory Examination

In question paper, weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.

1. Question paper will comprise of 6 questions, each carrying 20 marks.
2. Question number 1 will be compulsory and based on maximum contents of the syllabus
3. Remaining questions will be mixed in nature (for example, if Q.2 has part (a) from module 3 then part (b) will be from other than module 3)
4. Total four questions need to be solved.

References

1. *Personnel Management and Human Resources*, C.S. Venkataratnam, B.K, Srivastava
2. *Principles of Management*, P.C. Tripathi, P.N. Reddy
3. *Industrial and Business Management*, Martand T. Teslang
4. *Organization Behavior, Text and cases*, Uma Sekram
5. *Organizational Behavior*, F. Luthans
6. *Personnel Management*, C.B. Memoria.
7. *Factory Administration and Management*, A.S.Deshpande.
8. *The Change in world of the Executive*, Peter Drucker.
9. *In search of excellence*, Tom Peter and R, H.Waterman Harper.

Program Structure B.E. Computer Engineering, (Rev. 2016) w.e.f. AY 2018-19
T. E. Computer Engineering (Semester-VI)

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | | Credits Assigned | | | |
|-------------|--|---------------------------------|-----------|----------|------------------|----------|----------|-----------|
| | | Theory | Pract | Tut | Theory | TW/Pract | Tut | Total |
| CSC601 | Software Engineering | 4 | - | - | 4 | - | - | 4 |
| CSC602 | System Programming & Compiler Construction | 4 | - | - | 4 | - | - | 4 |
| CSC603 | Data Warehousing & Mining | 4 | - | - | 4 | - | - | 4 |
| CSC604 | Cryptography & System Security | 4 | - | - | 4 | - | - | 4 |
| CSDLO 601X | Department Level Optional Course -II | 4 | - | - | 4 | - | - | 4 |
| CSL601 | Software Engineering Lab | - | 2 | - | - | 1 | - | 1 |
| CSL602 | System software Lab | - | 2 | - | - | 1 | - | 1 |
| CSL603 | Data Warehousing & Mining Lab | - | 2 | - | - | 1 | - | 1 |
| CSL604 | System Security Lab | - | 2 | - | - | 1 | - | 1 |
| CSP605 | Mini-Project | - | 4 | - | - | 2 | - | 2 |
| | Total | 20 | 12 | - | 20 | 6 | - | 26 |

| Course Code | Course Name | Examination Scheme | | | | | | | | |
|-------------|--|---------------------|------------|------------|---------------|------------------------|------------|-----------|--------------|------------|
| | | Theory | | | | | TW | Oral | Oral & Pract | Total |
| | | Internal Assessment | | | End Sem. Exam | Exam Duration (in Hrs) | | | | |
| | | Test 1 | Test 2 | Avg. | | | | | | |
| CSC601 | Software Engineering | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSC602 | System Programming & Compiler Construction | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSC603 | Data Warehousing & Mining | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSC604 | Cryptography & System Security | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSDLO 601X | Department Level Optional Course -II | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSL601 | Software Engineering Lab | - | - | - | - | - | 25 | 25 | -- | 50 |
| CSL602 | System Software Lab | - | - | - | - | - | 25 | -- | 25 | 50 |
| CSL603 | Data Warehousing & Mining Lab | - | - | - | - | - | 25 | -- | 25 | 50 |
| CSL604 | System Security Lab | - | - | - | - | - | 25 | --- | 25 | 50 |
| CSP605 | Mini-Project | - | - | - | - | - | 25 | --- | 25 | 50 |
| | Total | 100 | 100 | 100 | 400 | - | 125 | 25 | 100 | 750 |

| Course Code | Course Name | Credits |
|-------------|----------------------|---------|
| CSC601 | Software Engineering | 4 |

Course objectives:

The main objective of the course is to introduce to the students about the product that is to be engineered and the processes that provides a framework for the engineering methodologies and practices.

1. To provide the knowledge of software engineering discipline.
2. To apply analysis, design and testing principles to software project development.
3. To demonstrate and evaluate real time projects with respect to software engineering principles.

Course outcomes:

On successful completion of course, learners will be able to:

1. Understand and demonstrate basic knowledge in software engineering.
2. Identify requirements, analyze and prepare models.
3. Plan, schedule and track the progress of the projects.
4. Design & develop the software projects.
5. Identify risks, manage the change to assure quality in software projects.
6. Apply testing principles on software project and understand the maintenance concepts.

Prerequisite:

1. Concepts of Object Oriented Programming & Methodology
2. Knowledge of developing applications with front end & back end connectivity.

Course syllabus:

| Module No. | Unit No. | Topics | Hrs. |
|------------|----------|---|------|
| 1.0 | | Introduction To Software Engineering and Process Models | 08 |
| | 1.1 | Nature of Software, Software Engineering, Software Process, Capability Maturity Model (CMM) | |
| | 1.2 | Generic Process Model, Prescriptive Process Models: The Waterfall Model, V-model, Incremental Process Models, Evolutionary Process Models, Concurrent Models, Agile process, Agility Principles, Extreme Programming (XP), Scrum, Kanban model | |
| 2.0 | | Requirements Analysis and Modelling | 08 |
| | 2.1 | Requirement Elicitation, Software requirement specification (SRS), Developing Use Cases (UML) | |
| | 2.2 | Requirement Model – Scenario-based model, Class-based model, Behavioural model. | |
| 3.0 | | Project Scheduling and Tracking | 08 |
| | 3.1 | Management Spectrum, 3Ps (people, product and process) | |
| | 3.2 | Process and Project metrics | |

| | | | |
|------------|------------|--|-----------|
| | 3.3 | Software Project Estimation: LOC, FP, Empirical Estimation Models - COCOMO II Model, Specialized Estimation Techniques | |
| | 3.4 | Project scheduling: Defining a Task Set for the Software Project, Timeline charts, Tracking the Schedule, Earned Value Analysis | |
| 4.0 | | Software Design | 10 |
| | 4.1 | Design Principles, Design Concepts, Effective Modular Design – Cohesion and Coupling | |
| | 4.2 | Architectural Design | |
| | 4.3 | Component-level design | |
| | 4.4 | User Interface Design | |
| 5.0 | | Software Risk, Configuration Management & Quality Assurance | 08 |
| | 5.1 | Risk Identification, Risk Assessment, Risk Projection, RMMM | |
| | 5.2 | Software Configuration management, SCM repositories, SCM process | |
| | 5.3 | Software Quality Assurance Task and Plan, Metrics, Software Reliability, Formal Technical Review (FTR), Walkthrough | |
| 6.0 | | Software Testing and Maintenance | 10 |
| | 6.1 | Strategic Approach to Software Testing, Unit testing, Integration testing Verification, Validation Testing, System Testing | |
| | 6.2 | Software Testing Fundamentals, White-Box Testing , Basis Path Testing, Control Structure Testing, Black-Box Testing, | |
| | 6.3 | Software maintenance and its types, Software Re-engineering, Reverse Engineering | |
| | | Total | 52 |

Internal Assessment:

Assessment consists of two class tests of 20 marks each. The first class test is to be conducted when approx. 40% syllabus is completed and second class test when additional 40% syllabus is completed. Duration of each test shall be one hour.

End Semester Theory Examination:

1. Question paper will comprise of 06 questions, each carrying 20 marks.
2. The students need to solve total 04 questions.
3. Question No.1 will be compulsory and based on entire syllabus.
4. Remaining questions (Q.2 to Q.6) will be selected from all the modules.

Text Books:

1. Roger Pressman, “Software Engineering: A Practitioner’s Approach”, McGraw-Hill Publications
2. Ian Sommerville, “Software Engineering”, Pearson Education (9th edition)
3. Ali Behfroz and Fredeick J.Hudson, "Software Engineering Fundamentals", Oxford University Press

Reference Books:

1. Ugrasen Suman, “Software Engineering – Concepts and Practices”, Cengage Learning
2. Pankaj Jalote, "An integrated approach to Software Engineering", Springer/Narosa
3. Jibitesh Mishra and Ashok Mohanty, “Software Engineering”, Pearson
4. Rajib Mall, "Fundamentals of Software Engineering", Prentice Hall India

| Course Code | Course Name | Credits |
|-------------|----------------------------------|---------|
| CSC604 | Cryptography and System Security | 4 |

Course Objectives:

1. To introduce classical encryption techniques and concepts of modular arithmetic and number theory.
2. To explore the working principles and utilities of various cryptographic algorithms including secret key cryptography, hashes and message digests, and public key algorithms
3. To explore the design issues and working principles of various authentication protocols, PKI standards and various secure communication standards including Kerberos, IPsec, and SSL/TLS and email.
4. To develop the ability to use existing cryptographic utilities to build programs for secure communication.

Course Outcomes: At the end of the course learner will able to

1. Understand system security goals and concepts, classical encryption techniques and acquire fundamental knowledge on the concepts of modular arithmetic and number theory.
2. Understand, compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication
3. Apply the knowledge of cryptographic checksums and evaluate the performance of different message digest algorithms for verifying the integrity of varying message sizes.
4. Apply different digital signature algorithms to achieve authentication and design secure applications
5. Understand network security basics, analyze different attacks on networks and evaluate the performance of firewalls and security protocols like SSL, IPsec, and PGP.
6. Analyze and apply system security concept to recognize malicious code.

Detailed Syllabus:

| Module No | Unit No | Detailed Content | Hrs |
|-----------|---|---|-----|
| 1 | Introduction & Number Theory | | 10 |
| | 1.1 | Security Goals, Services, Mechanisms and attacks, The OSI security architecture, Network security model, Classical Encryption techniques, Symmetric cipher model, mono-alphabetic and poly-alphabetic substitution techniques: Vigenere cipher, playfair cipher, Hill cipher, transposition techniques: keyed and keyless transposition ciphers, steganography. | |
| | 1.2 | Modular Arithmetic and Number Theory:- Euclid's algorithm--Prime numbers-Fermat's and Euler's theorem- Testing for primality -The Chinese remainder theorem, Discrete logarithms. | |
| 2 | Symmetric and Asymmetric key Cryptography and key Management | | 12 |

| | | | |
|---|---|---|----|
| | 2.1 | Block cipher principles, block cipher modes of operation, DES, Double DES, Triple DES, Advanced Encryption Standard (AES), Stream Ciphers: RC5 algorithm. | |
| | 2.2 | Public key cryptography: Principles of public key cryptosystems-The RSA algorithm, The knapsack algorithm, ElGamal Algorithm. | |
| | 2.3 | Key management techniques: using symmetric and asymmetric algorithms and trusted third party. Diffie Hellman Key exchange algorithm. | |
| | Hashes, Message Digests and Digital Certificates | | 06 |
| 3 | 3.1 | Cryptographic hash functions, Properties of secure hash function, MD5, SHA-1, MAC, HMAC, CMAC. | |
| | 3.2 | Digital Certificate: X.509, PKI | |
| | Authentication Protocols & Digital signature schemes | | 08 |
| 4 | 4.1 | User Authentication and Entity Authentication, One-way and mutual authentication schemes, Needham Schroeder Authentication protocol, Kerberos Authentication protocol. | |
| | 4.2 | Digital Signature Schemes – RSA, ElGamal and Schnorr signature schemes. | |
| | Network Security and Applications | | 10 |
| | 5.1 | Network security basics: TCP/IP vulnerabilities (Layer wise), Packet Sniffing, ARP spoofing, port scanning, IP spoofing, TCP syn flood, DNS Spoofing. | |
| 5 | 5.2 | Denial of Service: Classic DOS attacks, Source Address spoofing, ICMP flood, SYN flood, UDP flood, Distributed Denial of Service, Defenses against Denial of Service Attacks. | |
| | 5.3 | Internet Security Protocols: SSL, IPSEC, Secure Email: PGP, Firewalls, IDS and types, Honey pots | |
| | System Security | | 06 |
| 6 | 6.1 | Software Vulnerabilities: Buffer Overflow, Format string, cross-site scripting, SQL injection, Malware: Viruses, Worms, Trojans, Logic Bomb, Bots, Rootkits. | |

Text Books:

1. William Stallings, Cryptography and Network Security, Principles and Practice, 6th Edition, Pearson Education, March 2013
2. Behrouz A. Ferouzan, “Cryptography & Network Security”, Tata Mc Graw Hill
3. Bernard Menezes, “Cryptography & Network Security”, Cengage Learning.
4. Network Security Bible, Eric Cole, Second Edition, Wiley.

Reference Books:

1. Applied Cryptography, Protocols Algorithms and Source Code in C, Bruce Schneier, Wiley.
2. Cryptography and Network Security, Atul Kahate, Tata Mc Graw Hill.

Assessment:**Internal Assessment:**

Assessment consists of two class tests of 20 marks each. The first class test is to be conducted when approx. 40% syllabus is completed and second class test when additional 40% syllabus is completed. Duration of each test shall be one hour.

Theory Examination:

1. Question paper will comprise of total six questions.
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

In question paper weightage of each module will be proportional to number of respective lecture hours as mentioned in the syllabus.

University of Mumbai

Program Structure B.E. Information Technology, (Rev. 2016)

T. E. Information Technology (Semester-V)

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | | Credits Assigned | | | |
|-------------|--|---------------------------------|-----------|----------|------------------|----------|----------|-----------|
| | | Theory | Pract | Tut | Theory | TW/Pract | Tut | Total |
| ITC501 | Microcontroller and Embedded Programming | 4 | - | - | 4 | - | - | 4 |
| ITC502 | Internet Programming | 4 | - | - | 4 | - | - | 4 |
| ITC503 | Advanced Data Management Technology | 4 | - | - | 4 | - | - | 4 |
| ITC504 | Cryptography & Network Security | 4 | - | - | 4 | - | - | 4 |
| ITDLO-I | Department Level Optional Course-I | 4 | - | - | 4 | - | - | 4 |
| ITL501 | Internet Programming Lab | - | 2 | - | - | 1 | - | 1 |
| ITL502 | Security Lab | - | 2 | - | - | 1 | - | 1 |
| ITL503 | OLAP Lab | - | 2 | - | - | 1 | - | 1 |
| ITL504 | IOT (Mini Project) Lab | - | 2 | - | - | 1 | - | 1 |
| ITL505 | Business Communication and Ethics | - | 2+2* | - | - | 2 | - | 2 |
| | Total | 20 | 14 | - | 20 | 7 | - | 26 |

| Course Code | Course Name | Examination Scheme | | | | | | | | |
|-------------|--|---------------------|--------|------|---------------|------------------------|----|------|--------------|-------|
| | | Theory | | | | | TW | Oral | Oral & Pract | Total |
| | | Internal Assessment | | | End Sem. Exam | Exam Duration (in Hrs) | | | | |
| | | Test 1 | Test 2 | Avg. | | | | | | |
| ITC501 | Microcontroller and Embedded Programming | 20 | 20 | 20 | 80 | 3 | - | - | 100 | |
| ITC502 | Internet Programming | 20 | 20 | 20 | 80 | 3 | - | - | 100 | |
| ITC503 | Advanced Data Management Technology | 20 | 20 | 20 | 80 | 3 | - | - | 100 | |
| ITC504 | Cryptography & Network Security | 20 | 20 | 20 | 80 | 3 | - | - | 100 | |
| ITDLO-I | Department Level Optional Course-I | 20 | 20 | 20 | 80 | 3 | -- | - | 100 | |
| ITL501 | Internet Programming Lab | - | - | - | - | - | 25 | -- | 25 | 50 |
| ITL502 | Security Lab | - | - | - | - | - | 25 | 25 | -- | 50 |
| ITL503 | OLAP Lab | - | - | - | - | - | 25 | 25 | -- | 50 |

| Course Code | Course Name | Theory | Practical | Tutorial | Theory | Oral & Practical | Tutorial | Total |
|-------------|---------------------------------|--------|-----------|----------|--------|------------------|----------|-------|
| ITC504 | Cryptography & Network Security | 04 | -- | -- | 04 | -- | -- | 04 |

| Course Code | Course Name | Examination Scheme | | | | | | | | |
|-------------|---------------------------------|---------------------|-------|-------------------|---------------|----|-----------|------------------|------|-------|
| | | Theory Marks | | | | | Term Work | Oral & Practical | Oral | Total |
| | | Internal assessment | | | End Sem. Exam | | | | | |
| | | Test 1 | Test2 | Avg. of two Tests | | | | | | |
| ITC504 | Cryptography & Network Security | 20 | 20 | 20 | 80 | -- | -- | -- | 100 | |

Course Objectives: Students will try to learn:

1. The concepts of classical encryption techniques and concepts of finite fields and number theory.
2. And explore the working principles and utilities of various cryptographic algorithms including secret key cryptography, hashes and message digests, and public key algorithms
3. And explore the design issues and working principles of various authentication protocols, PKI standards.
4. And explore various secure communication standards including Kerberos, IPsec, and SSL/TLS and email.
5. The ability to use existing cryptographic utilities to build programs for secure communication.
6. The concepts of cryptographic utilities and authentication mechanisms to design secure applications

Course Outcomes: Students will be able to:

1. Identify information security goals, classical encryption techniques and acquire fundamental knowledge on the concepts of finite fields and number theory.
2. Understand, compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication
3. Apply the knowledge of cryptographic checksums and evaluate the performance of different message digest algorithms for verifying the integrity of varying message sizes
4. Apply different digital signature algorithms to achieve authentication and create secure applications
5. Apply network security basics, analyze different attacks on networks and evaluate the performance of firewalls and security protocols like SSL, IPsec, and PGP.
6. Apply the knowledge of cryptographic utilities and authentication mechanisms to design secure applications

Prerequisite: Computer Networks

Detailed syllabus:

| Sr No | Module | Detailed Content | Hours | CO Mapping |
|-------|--|--|-------|------------|
| 0 | Prerequisites | Basic concepts of OSI Layer | 02 | -- |
| I | Introduction & Number Theory | Services, Mechanisms and attacks-the OSI security architecture-Network security model-Classical Encryption techniques (Symmetric cipher model, mono-alphabetic and poly-alphabetic substitution techniques: Vignere cipher, playfair cipher, Hill cipher, transposition techniques: keyed and keyless transposition ciphers, steganography). | 09 | CO1 |
| II | Block Ciphers & Public Key Cryptography | Data Encryption Standard-Block cipher principles-block cipher modes of operation-Advanced Encryption Standard (AES)-Triple DES-Blowfish-RC5 algorithm. Public key cryptography: Principles of public key cryptosystems-The RSA algorithm, The knapsack algorithm, El-Gamal Algorithm. Key management – Diffie Hellman Key exchange | 09 | CO2 CO6 |
| III | Cryptographic Hashes, Message Digests and Digital Certificates | Authentication requirement – Authentication function , Types of Authentication, MAC – Hash function – Security of hash function and MAC –MD5 – SHA – HMAC – CMAC, Digital Certificate: X.509, PKI | 09 | CO3 |
| IV | Digital signature schemes and authentication Protocols | Digital signature and authentication protocols : Needham Schroeder Authentication protocol, Digital Signature Schemes – RSA, El Gamal and Schnorr, DSS. | 07 | CO4 |
| V | Network Security | Network security basics: TCP/IP vulnerabilities (Layer wise), Packet Sniffing, ARP spoofing, port scanning, IP spoofing, TCP syn flood, DNS Spoofing. Denial of Service: Classic DOS attacks, Source Address spoofing, ICMP flood, SYN flood, UDP flood, Distributed Denial of Service, Defenses against Denial of Service Attacks. | 10 | CO5 |

| | | | | |
|----|-------------------------------|--|----|------------|
| | | Firewalls, Intrusion Detection Systems: Host Based and Network Based IDS, Honey pots. | | |
| VI | Network Security Applications | Authentication Applications, Kerberos, Internet Security Protocols: SSL, TLS, IPSEC:AH, ESP, Secure Email: PGP and S/MIME, Key Management. | 06 | CO5 CO6 |

Text Books:

1. Mark Stamp's Information Security Principles and Practice, Wiley
2. William Stallings, Cryptography and Network Security, Principles and Practice, 6th Edition, Pearson Education, March 2013
3. Behrouz A. Ferouzan, "Cryptography & Network Security", Tata Mc Graw Hill
4. Bernard Menezes, "Cryptography & Network Security", Cengage Learning

Reference Books:

1. Applied Cryptography, Protocols Algorithms and Source Code in C, Bruce Schneier, Wiley.
2. Cryptography and Network Security, Atul Kahate, Tata Mc Graw Hill.

Assessment:

Internal Assessment for 20 marks:

Consisting of **Two Compulsory Class Tests**

Approximately 40% to 50% of syllabus content must be covered in First test and remaining 40% to 50% of syllabus contents must be covered in second test.

End Semester Examination: Some guidelines for setting the question papers are as:

- Weightage of each module in end semester examination is expected to be/will be proportional to number of respective lecture hours mentioned in the syllabus.
- Question paper will comprise of total **six questions, each carrying 20 marks.**
- **Q.1 will be compulsory** and should **cover maximum contents of the syllabus.**
- **Remaining question will be mixed in nature** (for example if Q.2 has part (a) from module 3 then part (b) will be from any other module. (Randomly selected from all the modules.)
- Total **four questions** need to be solved.

Program Structure B.E. Information Technology, (Rev. 2016)

T. E. Information Technology (Semester-VI)

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | | Credits Assigned | | | |
|-------------|--|---------------------------------|-----------|----------|------------------|----------|----------|-----------|
| | | Theory | Pract | Tut | Theory | TW/Pract | Tut | Total |
| ITC601 | Software Engineering with Project Management | 4 | - | - | 4 | - | - | 4 |
| ITC602 | Data Mining and Business Intelligence | 4 | - | - | 4 | - | - | 4 |
| ITC603 | Cloud Computing & Services | 4 | - | - | 4 | - | - | 4 |
| ITC604 | Wireless Networks | 4 | - | - | 4 | - | - | 4 |
| ITDLO-II | Department Level Optional Course -II | 4 | - | - | 4 | - | - | 4 |
| ITL601 | Software Design Lab | - | 2 | - | - | 1 | - | 1 |
| ITL602 | Business Intelligence Lab | - | 2 | - | - | 1 | - | 1 |
| ITL603 | Cloud Service Design Lab | - | 2 | - | - | 1 | - | 1 |
| ITL604 | Sensor Network Lab | - | 2 | - | - | 1 | - | 1 |
| ITM605 | Mini-project | - | 4 | - | - | 2 | - | 2 |
| | Total | 20 | 12 | - | 20 | 6 | - | 26 |

| Course Code | Course Name | Theory | Practical | Tutorial | Theory | Oral & Practical | Tutorial | Total |
|-------------|--|--------|-----------|----------|--------|------------------|----------|-------|
| ITC601 | Software Engineering with Project Management | 04 | -- | -- | 04 | -- | -- | 04 |

| Course Code | Course Name | Examination Scheme | | | | | | |
|-------------|--|---------------------|-------|-------------------|---------------|-----------|------------------|-------|
| | | Theory Marks | | | | Term Work | Oral & Practical | Total |
| | | Internal assessment | | | End Sem. Exam | | | |
| | | Test1 | Test2 | Avg. of two Tests | | | | |
| ITC601 | Software Engineering with Project Management | 20 | 20 | 20 | 80 | -- | -- | 100 |

Course Objectives: Students will try:

1. To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices.
2. To Explain methods of capturing, specifying, visualizing and analyzing software requirements.
3. To understand concepts and principles of software design and user-centric approach and principles of effective user interfaces.
4. To know basics of testing and understanding concept of software quality assurance and software configuration management process.
5. To understand need of project management and project management life cycle.
6. To understand project scheduling concept and risk management associated to various type of projects.

Course Outcomes: Students will be able to:

1. Define various software application domains and remember different process model used in software development.
2. Explain needs for software specifications also they can classify different types of software requirements and their gathering techniques.
3. Convert the requirements model into the design model and demonstrate use of software and user-interface design principles.
4. Distinguish among SCM and SQA and can classify different testing strategies and tactics and compare them.
5. Justify role of SDLC in Software Project Development and they can evaluate importance of Software Engineering in PLC.
6. Generate project schedule and can construct, design and develop network diagram for different type of Projects. They can also organize different activities of project as per Risk impact factor.

Prerequisite: Programming and Networking.

Detailed syllabus:

| Sr. No. | Module | Detailed Content | Hours | CO Mapping |
|---------|--|--|-------|-------------------|
| 0 | Prerequisite | Nature of Software, Software Definition, Software Characteristics, Software Application Domains | 02 | |
| I | The Software Process | Generic view of Process, Prescriptive Models: Waterfall Model, Incremental-RAD Model, Evolutionary Process Model- Prototyping, Spiral and Concurrent Development Model, Specialized Models: Component based, Aspect Oriented Development, Agile Methodology, Scrum and Extreme Programming | 07 | CO1 |
| II | Requirements Engineering and Cost Estimation | Requirement, Types of Requirements, Requirement gathering, Requirement Engineering Task, Identifying Stakeholders, Multiple viewpoints, SRS (Software Requirement Specification) Project Estimation, LOC based, FP based and Use case based estimation. | 07 | CO1 CO2 |
| III | Analysis and Design Engineering | Introduction of Analysis elements, Scenario based, Flow based, behavior and class based Design Concepts and Principles, Architecture Design, Component Level Design, System Level Design, User Interface Design. | 09 | CO1 CO2 CO3 |
| IV | Quality & Configuration Management | Need for Testing, Testing Tactics, Testing strategies, McCall's Quality Factor, Software Configuration Management, SCM Process | 07 | CO4 |
| V | IT Project Management | Introduction, 4 P's, W5HH Principle, Need for Project Management, Project Life cycle and ITPM, Project Feasibility, RFP, PMBOK Knowledge areas, Business Case, Project Planning, Project Charter and Project Scope. | 10 | CO5 |

| | | | | |
|----|--|---|----|---------------------------------|
| VI | Project Scheduling and Risk Management | WBS, Developing the Project Schedule, Network Diagrams (AON, AOA), CPM and PERT, Gantt Chart, Risk Identification, Risk Projection and RMMM | 10 | CO1 CO2 CO3 CO4 CO6 |
|----|--|---|----|---------------------------------|

Text Books:

1. Roger S Pressman “Software Engineering : A Practitioner’s Approach” 7th Edition Mcgraw-Hill ISBN:0073375977
2. Jack T. Marchewka, “Information Technology Project Management” 4th Edition ,Wiley India

References:

1. “Software Engineering : A Precise Approach” Pankaj Jalote , Wiley India
2. Ian Sommerville “ Software Engineering” 9th edition Pearson Education SBN-13: 978-0- 13-703515-1, ISBN-10: 0-13-703515-2
3. John M. Nicholas, Project Management for Business and Technology, 3rd edition, Pearson Education.
4. Software Project management by Bob Hughes, Mike Cotterell , Rajib Mall

Assessment:

Internal Assessment for 20 marks:

Consisting of **Two Compulsory Class Tests**

Approximately 40% to 50% of syllabus content must be covered in First test and remaining 40% to 50% of syllabus contents must be covered in second test.

End Semester Examination: Some guidelines for setting the question papers are as:

- Weightage of each module in end semester examination is expected to be/will be proportional to number of respective lecture hours mentioned in the syllabus.
- Question paper will comprise of total **six questions, each carrying 20 marks.**
- **Q.1** will be **compulsory** and should **cover maximum contents of the syllabus.**
- **Remaining question will be mixed in nature** (for example if Q.2 has part (a) from module 3 then part (b) will be from any other module. (Randomly selected from all the modules.)
- Total **four questions** need to be solved.

| Course Code | Course Name | Examination Scheme | | | | | | | | |
|--------------|--|---------------------|--------|------|---------------|------------------------|-----|------|--------------|-------|
| | | Theory | | | | | TW | Oral | Oral & Pract | Total |
| | | Internal Assessment | | | End Sem. Exam | Exam Duration (in Hrs) | | | | |
| | | Test 1 | Test 2 | Avg. | | | | | | |
| ITC601 | Software Engineering with Project Management | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| ITC602 | Data Mining and Business Intelligence | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| ITC603 | Cloud Computing & Services | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| ITC604 | Wireless Networks | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| ITDLO-II | Department Level Optional Course -II | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| ITL601 | Software Design Lab | - | - | - | - | - | 25 | 25 | -- | 50 |
| ITL602 | Business Intelligence Lab | - | - | - | - | - | 25 | 25 | -- | 50 |
| ITL603 | Cloud Service Design Lab | - | - | - | - | - | 25 | 25 | -- | 50 |
| ITL604 | Sensor Network Lab | - | - | - | - | - | 25 | 25 | -- | 50 |
| ITM605 | Mini-Project | - | - | - | - | - | 25 | 25 | -- | 50 |
| Total | | 100 | 100 | 100 | 400 | - | 125 | 125 | -- | 750 |

Department Level Optional Course (DLO)

Every student is required to take one Department Elective Course for Semester VI. Different sets of courses will run in both the semesters. Students can take these courses from the list of department electives, which are closely allied to their disciplines.

(DLO-I subjects will have no Labs only Theory)

| Subject Code | Department Level Optional Course (DLO) |
|--------------------|--|
| Semester VI | |
| ITDLO6021 | Advance Internet Programming |
| ITDLO6022 | Software Architecture |
| ITDLO6023 | Digital Forensics |
| ITDLO6024 | Multimedia Systems |
| ITDLO6025 | Green IT |

| Course Code | Course Name | Theory | Practical | Tutorial | Theory | Practical/Oral | Tutorial | Total |
|-------------|-------------------|--------|-----------|----------|--------|----------------|----------|-------|
| ITDLO6023 | Digital Forensics | 04 | -- | - | 04 | -- | - | 04 |

| Course Code | Course Name | Examination Scheme | | | | | | | |
|-------------|-------------------|---------------------|-------|----|-------------------|---------------|-----------|------------------|-------|
| | | Theory Marks | | | | End Sem. Exam | Term Work | Oral & Practical | Total |
| | | Internal assessment | | | Avg. of two Tests | | | | |
| | | Test1 | Test2 | | | | | | |
| ITDLO6023 | Digital Forensics | 20 | 20 | 20 | 80 | -- | -- | 100 | |

Course Objectives: Students will try:

1. To understand underlying principles and many of the techniques associated with the digital forensic practices and cyber crime
2. To explore practical knowledge about ethical hacking Methodology.
3. To learn the importance of evidence handling and storage for various devices
4. To develop an excellent understanding of current cyber security issues (Computer Security Incident) and analyzed the ways that exploits in securities.
5. To investigate attacks, IDS .technical exploits and router attacks and “Trap and Trace” computer networks.
6. To apply digital forensic knowledge to use computer forensic tools and investigation report writing.

Course Outcomes: Student will able to:

1. Define the concept of ethical hacking and its associated applications in Information Communication Technology (ICT) world.
2. Underline the need of digital forensic and role of digital evidences .
3. Explain the methodology of incident response and various security issues in ICT world, and identify digital forensic tools for data collection .
4. Recognize the importance of digital forensic duplication and various tools for analysis to achieve adequate perspectives of digital forensic investigation in various applications /devices like Windows/Unix system.
5. Apply the knowledge of IDS to secure network and performing router and network analysis
6. List the method to generate legal evidence and supporting investigation reports and will also be able to use various digital forensic tools .

Prerequisite: Cryptography and Security, Computer Networks

Detailed syllabus:

| Sr. No. | Module | Detailed Content | Hours | CO Mapping |
|---------|---|--|-------|------------|
| 0 | Prerequisite | Cryptography and Security ,Computer Networks | 2 | |
| I | Introduction to Cyber Crime and Ethical Hacking | <p>Introduction of Cybercrime: Types of cybercrime ,categories of cybercrime , Computers' roles in crimes, Prevention from Cyber crime, Hackers, Crackers, Phreakers</p> <p>Ethical Hacking :Difference between Hacking and Ethical hacking : Steps of Ethical Hacking, Exploring some tools for ethical hacking: reconnaissance tools, scanning tools</p> | 6 | CO1 |
| II | Introduction to Digital Forensics and Digital Evidences | <p>Digital Forensic ,Rules for Digital Forensic The Need for Digital Forensics, Types of Digital Forensics, Ethics in Digital Forensics,</p> <p>Digital Evidences : Types and characteristics and challenges for Evidence Handling</p> | 6 | CO2 |
| III | Computer Security Incident Response Methodology | <p>Introduction to Computer Security Incident Goals of Incident response, Incident Response Methodology, Formulating Response Strategy,</p> <p>IR Process – Initial Response, Investigation, Remediation, Tracking of Significant ,Investigative Information, Reporting</p> <p>Pre Incident Preparation, Incident Detection and Characterization.</p> <p>Live Data Collection : Live Data Collection on Microsoft Windows Systems: Live Data</p> | 11 | CO3 |

| | | | | |
|----|---|---|----|-----|
| | | Collection on Unix-Based Systems | | |
| IV | Forensic Duplication and Disk Analysis, and Investigation | <p>Forensic Duplication</p> <p>Forensic Image Formats, Traditional Duplication, Live System Duplication, Forensic Duplication tools</p> <p>Disk and File System Analysis: Media Analysis Concepts, File System Abstraction Model</p> <p>The Sleuth Kit : Installing the Sleuth Kit , Sleuth Kit Tools</p> <p>Partitioning and Disk Layouts : Partition Identification and Recovery, Redundant Array of Inexpensive Disks</p> <p>Special Containers : Virtual Machine Disk Images , Forensic Containers Hashing, Carving : Foremost , Forensic Imaging : Deleted Data , File Slack , dd , dcfldd , dc3dd</p> <p>Data Analysis</p> <p>Analysis Methodology Investigating Windows systems , Investigating UNIX systems , Investigating Applications, Web Browsers, Email, Malware Handling: Static and Dynamic Analysis</p> | 11 | CO4 |
| V | Network Forensics | <p>Technical Exploits and Password Cracking ,</p> <p>Introduction to Intrusion Detection systems, Types of IDS</p> <p>Understanding Network intrusion and attacks , Analyzing Network Traffic, Collecting Network based evidence, Evidence Handling.</p> <p>Investigating Routers, Handling Router Table Manipulation Incidents, Using Routers as Response Tools</p> | 9 | CO5 |
| VI | Forensic Investigation | Report :Goals of Report, Layout of an | | |

| | | | | |
|--|---------------------------|--|---|-----|
| | Report and Forensic Tools | Investigative Report, Guidelines for Writing a Report, sample for writing a forensic report . Computer Forensic Tools : need and types of computer forensic tools, task performed by computer forensic tools . Study of open source Tools like SFIT, Autopsy etc. to acquire, search, analyze and store digital evidence | 7 | CO6 |
|--|---------------------------|--|---|-----|

Text Books:

1. Jason Luttgens, Matthew Pepe, Kevin Mandia, “Incident Response and computer forensics”, 3rd Edition Tata McGraw Hill, 2014.
2. Nilakshi Jain, Dhananjay Kalbande, ”Digital Forensic : The fascinating world of Digital Evidences ” Wiley India Pvt Ltd 2017.
3. Cory Altheide, Harlan Carvey ”Digital forensics with open source tools “Syngress Publishing, Inc. 2011.
4. Chris McNab, Network Security Assessment, By O’Reily.

References:

1. Clint P Garrison “Digital Forensics for Network, Internet, and Cloud Computing A forensic evidence guide for moving targets and data , Syngress Publishing, Inc. 2010
2. Bill Nelson, Amelia Phillips, Christopher Steuart, “Guide to Computer Forensics and Investigations” . Cengage Learning, 2014
3. Debra Littlejohn Shinder Michael Cross “Scene of the Cybercrime: Computer Forensics Handbook”, 2nd Edition Syngress Publishing, Inc.2008.
4. Marjie T. Britz, Computer Forensics and Cyber Crime, Pearson, Third Edition.

Assessment:

Internal Assessment for 20 marks:

Consisting of **Two Compulsory Class Tests**

Approximately 40% to 50% of syllabus content must be covered in First test and remaining 40% to 50% of syllabus contents must be covered in second test.

End Semester Examination: Some guidelines for setting the question papers are as:

- Weightage of each module in end semester examination is expected to be/will be proportional to number of respective lecture hours mentioned in the syllabus.
- Question paper will comprise of total **six questions, each carrying 20 marks.**
- **Q.1** will be **compulsory** and should **cover maximum contents of the syllabus.**
- **Remaining question will be mixed in nature** (for example if Q.2 has part (a) from module 3 then part (b) will be from any other module. (Randomly selected from all the modules.)
- Total **four questions** need to be solved.

The ideal intern is committed, creative, organized, ambitious, independent, and able to crack a smile, whether meeting a celebrity or folding socks. - Emily Weiss

TEDxCRCE Report 2018-19

On the 9th of March 2019, TEDxCRCE organised the "Internship & Career Expo" hosting multiple companies at our college campus. The expo was attended by over 500 students from various colleges. We set a platform where students from all branches got an opportunity to intern at companies most suited for them. We were successful in bringing together companies from different domains. This year we had 15 companies from various domains with a majority of them offering technical profiles. The companies that attended the expo this year were:

1. Teach For India
2. TDKR
3. SPEED BOX
4. Cloud Counselage
5. Deplonity Infotech
6. IDA
7. Dr Vaidya's
8. Adagio
9. Mica labs
10. Kaveri Enterprises
11. Wander Stamps
12. Roti Bank
13. Logical Swing
14. Gemsons
15. AtriTechnocrat

Many of these companies are leaning towards becoming recruiters for our college. We observed a fabulous response from companies

and an equally resounding feedback from the students this year. We believe The Internship & Career Expo 2019 was one of CRCE's

flagship events. At the end of the event proper feedback was taken from every company with every point being noted so as to have an

even better event next year.

We would like to express our sincere gratitude to our Director Fr. Valerian D'souza, Principal Dr. Srija Unnikrishnan, the college

management, our Teacher-in-charges- Prof Prachi Patil, Prof Ketaki Joshi, our faculty members

and the student community for their unstinted, consistent support and encouragement in all our endeavours. I would also extend my gratitude to my senior council who have continued to make TEDxCRCE strive for more every year. It is team work that makes an event a success and the working heads of the present TEDxCRCE council are walking on the path to make this entity a success. Going forward, we at TEDxCRCE will endeavour to achieve a fresh new outlook for our projects and will raise the bar further in creating more powerful, professional and energetic community centric events.



Renjit Koshi Internship Expo
Head, TEDxCRCE

anvi haelmi
Faculty Incharge
haelmi Patil

TEDxCRCE

x = independently organized TED event



RESUME BUILDING WORKSHOP

06 MARCH 2019
WEDNESDAY

SAMVAAD
AUDITORIUM

CONTACT:
RENJIT - 9833435229
JAISON - 9833404791



Ketaki Joshi CRCE <ketaki.joshi@fragnel.edu.in>

Statistics of TEDx CRCE Internship Expo

1 message

prachi CRCE <prachi@fragnel.edu.in>

To: srija CRCE <srija@fragnel.edu.in>, tpo@frcrce.ac.in, bhoir@fragnel.ac.in, surve@frcrce.ac.in, sudhakar@frcrce.ac.in, "CRCE, jsave" <jsave@fragnel.edu.in>

Cc: Ketaki Joshi CRCE <ketaki.joshi@fragnel.edu.in>

Fri, Mar 15, 2019 at 10:54 AM

Respected Madam/Sir,

TEDx CRCE had organised "Resume building session for all CRCE students on 6th March 2019 and "Internship and Career Expo" on 9th March 2019. We hereby would like to share with you the statistics of students participation in the events.
Please find attached documents for your reference.

Following the participation statistics of different colleges participating in Internship Expo

1. FRCRCE - 251
2. DJ Sanghvi - 27
3. Atharva - 1
4. MV Mandal College of Commerce and Science-2
5. Mukesh Patel- 1
6. Vasantdada Patil- 4
7. RJIT- 28
8. Shah and Anchor-8
9. Shree LR Tiwari-1
10. SFIT-105
11. Thakur-6
12. Universal-15
13. VIT-36
14. Vidyalkar polytechnic-5
15. Wilson-1

Post the Internship Expo , all resumes were handed over to the companies. Results of which are still awaited.

We would also like to share that one of the companies approached for the event (Fusion Engineering Tech) is interested in offering placements to our students, about which we have already communicated with Sharma Sir.

Thanking you for your kind support.

Regards

Ketaki Joshi and Prachi Patil

 **Stats.docx**
8K

IDEAS WORTH SPREADING

On the 11th of August, 2018 TEDxCRCE hosted its 4th Edition of the Main Event in Fr. Conceicao Rodriugues College of Engineering. The theme for the event was, “REWIND”: The thought that emphasises on bringing back foundations laid in the past to nurture the present and build a brighter future.



[L-R: Ms. Tanvi Shukla, Dr. Mrs. Srija Unnikrishnan, Rev. Fr. Valerian D'souza, Rev. Fr. Peter D'souza, Mr. Vibhas Sen, Mr. V.S. Parathasarathy.]

The first session kicked off with the inspiring story of Paralympic champion who won India a gold medal in 2016. A fighter who made masses believe that nothing but strong desire to overcome disabilities can be the ladder to success. Vibhas Sen is truly an inspiration. Mr. V.S. Parthasarathy the Group CFO & CIO of Mahindra & Mahindra Ltd. explained the true meaning of leadership and how a leader should be strong, vulnerable, trustworthy and most importantly friendly. The session ended with Ms. Tanvi Shukla the top news anchor at MirrorNow, bringing to light the discrepancies in today's media and how to be aware of false news that takes stage. The audiences relished the High Tea break post the first session.

The second session started with Ms. Bistriti Poddar, founder of The Paperless Postcards. She inspired the audience by her journey through adversities which were her stepping stones to success. The next speaker was Mr. Nimesh Shetty, a transgender activist who voiced his opinion on transgender rights and how they should be given equal opportunities to achieve their dreams. Following Mr. Nimesh was Mrs. Subarna Ghosh, Academic Activist and founder of ReRight Foundation. She spoke on awareness of women rights and through her words motivated young women who will be future mothers to make right choices. Her talk left everyone astounded. Our last speaker for the session who is an actor and an



[L-R: Rev. Fr. Valerian D'souza, Dr. Mrs. Srija Unnikrishnan, Mr. Nimesh Shetty, Rev. Fr. Peter D'souza, Mrs. Subarna Ghosh, Mr. Rithvik Dhanjani.]

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

1. Overview and Details:

| | |
|---|---|
| Type of Program | Mock Interviews for Final year students |
| Date | 22 September 2018 |
| Name of experts | Bhargav Zantye, Darren Sequiera, Shraddha Makwana, Devika Sindhwani, Parikshit Rai, our IT alumni, Blessy Antony, Durgesh Ramani , Aditya Desai, Ruben Monterio, our CS Alumni, Rubina Parveen, Yash Singh, Peter Breganza and Racheal our Elex alumni |
| Expert's Profile1 | - |
| Expert's Profile2 | |
| Participants details | 70 Students from department of IT, CS and ELex |
| Relevance to academic subjects | Application of Academic knowledge in interview |
| Relevance to Program Outcomes | P08,PO9,PO10,PO11,PO12 |
| Relevance to Program Specific Outcomes | Department specific |
| Conclusion | Students gained help to crack interview from the experts appointed for the betterment of students. |

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

About the Program:

Department of Computer Engineering, Information Technology and Electronic Engineering along with Training and Placement Cell had come up with a short mid-term initiative to train the students of Final Year to groom their personal and technical traits for upcoming bulk placement drive. As a part of this program, Mock Technical and HR Interview sessions were conducted on 22nd September 2018. The program was dedicated to students finding difficulty to crack the interviews and to point out the shortcomings to boost the students into right directions.

Alumni from all the departments were selected by their respective departments to help students in this course. **Bhargav Zantye, Darren Sequiera, Shraddha Makwana, Devika Sindhwani, Parikshit Rai, our IT alumni, Blessy Antony, Durgesh Ramani , Aditya Desai, Ruben Monterio, our CS Alumni, Rubina Parveen, Yash Singh, Peter Breganza and Racheal our Elex alumni were present on the day.**

The interviews were taken by two experts per student one from technical aspect and other from non-technical(HR) aspect. The students were provided various piece of advices and the feedback was maintained by the Alumni to later guide the students. Students were also helped by the alumni to master the grooming skills and dressing skills for the interview.

Incharge Signature

in with a new idea is a crank until the idea succeeds."

TEDxCRCE Report 2017-18

On 10th of October 2017, TEDxCRCE hosted its third year of TEDx Talks at Fr. Conceicao Rodrigues College. The event was "illogically Logical" encompassing these powerful ideas that we can implement in our lives and the future. This year, the event saw 11 dynamic and effective speakers from all walks of life sharing their insights on "North Spreading".

Notable personalities include Mrs. Raveena Tandon, Actress Bollywood, she is one of the chosen few national award recipients for her work in the field of cinema; Mr Siddharth Bandheria, Actor, Gujarati theatre and cinema, is one of the community's most beloved idol. Mr. Prabhakar, CPA, Cipla. Mr. Prabhakar is also one of the few LinkedIn Power profiles for the year 2017-18. Mrs. Kavita Seth, a singer having several record-breaking music numbers to her name. Mr Mark Manuel, Editor and Journalist, Times Of India Group, has spent over 30 years into this industry starting off as a crime reporter to now fulltime Bollywood news and updates. Mr. Gaurav Kotian, Glass harp player, he is the youngest individual and the first to master the art of glass harp in India. Mr. Mandar Jamsandekar, Economist and Trade Policy expert. Mr Prashant Warner, CEO, Quire.ai. Mr Prashant aims at innovating AI tools and machines to read and understand X-Rays. Mrs. Mr. Gopal Hegde, President, Versova welfare association, aims for a Hunger free India. Mr. Rajat Mitra, a clinical Psychologist and analyst. Dr. Satyanarayana, Scientist and Coral Taxonomist, at ZSI has revived corals extinct thousands of years ago. The event was a major success with many online and print news articles having a total viewership of more than a One and a half million views on YouTube and the TEDx website till date. We are surely and steadily reaching our milestone of 2 million views very soon.

On 10th of March 2018, TEDxCRCE is set to organise the biggest version of its very own "Internship & Career Expo" hosting multiple companies at our college campus. Unlike over the years, TEDxCRCE is ready and set to host 5 colleges including the likes of TSEC, CRIT (Vashi) and many others, with an expected lot of over 2,000+ students will be attending the event to add a technical or a non-technical internship to their resume. Having seen a fantabulous response from companies and an equally resounding feedback from the students over the years, we believe The Internship & Career Expo slotted on the 10th of March, 2018 is going to set a bar high for all other events organised in the college at an inter collegiate level.

On the 10th of September 2017, we organised the first of its kind "Police volunteering" drive participated by more than 60 individuals. This drive is noteworthy since it is only the first time, when the students of CRCE, worked selflessly and with full intent for One Long week with Mumbai Police Dept, under the sound guidance of Susie Napier, Commissioner, Student Activities. The Mount Mary Festival is one of the most looked upon fairs in Mumbai. Multiple Newspapers have covered our drive over the week. The students received valuable certificates in the hands of the Asst. Commissioner of Mumbai Police, right on campus, TEDxCRCE was honoured to have him on campus to distribute certificates.

Working in the spirit of "Service Above Self", The second year of 'TEDxCRCE Community Club' for the students of our college saw new initiatives and better volunteering services. Apart from the police volunteering drive, they had the opportunity to work for Ratsna Nidhi, an NGO, listed by the government of India, funded by Alibaba.com, Sharad Pawar Trust, ITA Reliance Foundation. The students spent their hours helping sorting books donated from donors all around the globe. The students managed to sort more than over 1,500 books in each session. These books are then sent to libraries of schools run by the government in the interior parts of Maharashtra.

We would like to express our sincere gratitude to our Director Fr. Valerian D'Souza, Principal Dr. Shija Unnikrishnan, the college management, our Teacher in charge Prof. Anusha Jayasimhan, Prof. Prashant Patil, our faculty members and the student community for their unstinted support and encouragement in all our endeavours. Going forward, we at TEDxCRCE will endeavour to achieve a fresh new outlook on our projects and will raise the bar further in creating more powerful, professional and energetic community centric events.

Dr. Souk
Organiser, TEDxCRCE

Anusha

Prashant

| | | | | | |
|---------|--------------------------------------|-----------------------------|---|------------------|----|
| 2017-18 | 10 th of September 2017 | Bandra Fair Volunteering | Collaborated with Mumbai Police, Bandra Police Station | College Students | 69 |
| 2017-18 | Jan 2018-Feb 2018 (over weekends) | Service Above Self | Ratna Nidhi Trust, an NGO, listed by the government of India, funded by Alibaba.com, Sharad Pawar Trust, EFA-Reliance Foundation | College Students | |

Prof. Prachi Patil
Prachi Patil

Prof. Anusha J
Anusha J

"Ideas can be life-changing. Sometimes all you need to open the door is just one more good idea".

TEDxCRCE Report 2016-17

On the 23rd of July 2016, TEDxCRCE hosted its second year of TEDx Talks at Fr. Conceicao Rodrigues College of Engineering. The event was, "Presents for the Present" encompassing those powerful ideas that we can implement in our lives today to impact our near future. This year, the event saw 12 dynamic and effective speakers from all walks of life sharing the mission of "Ideas Worth Spreading".

The admirable personalities include Shridhar Venkat, CEO of Akshaya Patra Foundation whose organisation feeds 1.5 million children in 12,000 schools in a span of seven hours daily. Bittu Sahgal, Founding Editor of Sanctuary Asia captured the audience with his vision of a nature friendly environment led by our youth. Niharjaanalezyant, a 13 year old child singing prodigy who won the "Golden Voices of America" took the stage with two powerful melodies. Dr. Sri Rama spoke to the audience about the inter-relation between physics and dance, ending with an eye catching "Tarangam Plate Dance". Sarah-Jane Dias, Actor-Model-Musician asked us to stop labelling people based on their body shapes while Harish Iyer, Equal rights activist spoke about the evils of male child rape, being a survivor of a 11 year ordeal himself. Sameer Ganapathy took us into the world of the quantum digital native while Sneha Vaswani introduced India's first ever companion robot at our event. We also saw a stellar sand art performance by world famous sand artist, Rahul Arya and watched Geeta Tandon speak about her success story from a domestic abuse victim to a Bollywood stuntwoman. Adhitya Iyer easily related with our college students with his engineering based education travel around the country. The event ended with a fusion dance performance from Kanaka Sabha Dance Group.

The event culminated in a major success with many online and print news articles having a total viewership of more than half a million views on YouTube and the TEDx website till date. We are surely and steadily reaching our milestone of 1 million views very soon.

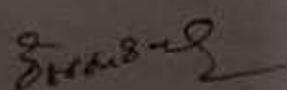
On the 15th of March 2016, TEDxCRCE organised the first-of-its kind "Internship & Career Expo" hosting 11 companies in the college campus. 600+ students attended the event giving them a valuable chance to bag technical and non-technical internships of their choice. Having seen a good response from companies and an equally resounding feedback from the students, we will be organising The Internship & Career Expo for the second time in March 2017.

On the 3rd of September 2016, we also organised a TEDxSalon event for our first year entrants having four distinguished alumni guiding them on life in "CRCE and Beyond". On the 4th of February 2017, we created a new event engaging Top Human Resource Personnel that included a Leadership Consultant and a Corporate to speak to our students before the placement season and give them valuable insights into the interview process, resume crafting and profile building to face the corporate world.

Believing in the spirit of "Service Above Self", we started a new 'TEDxCRCE Community Club' for the students of our college. They have the opportunity to teach weekly, the orphan students of Fr. Agnel Ashram preparing the community members to be compassionate leaders of tomorrow. We will also organise various educational and personality development sessions for these members.

We would like to express our sincere gratitude to our Director Fr. Valerian D'Souza, Principal Dr. Srija Unnikrishnan, the college management, our Teacher-in-charge Prof. DSS Sudhakar, Prof. Anusha Jayasimhan, our faculty members and the student community for their unstinted, consistent support and encouragement in all our endeavours. Their advice and guidance have been invaluable. Going forward, we at TEDxCRCE will endeavour to achieve a fresh new outlook for our projects and will raise the bar further in creating more powerful, professional and energetic community centric events.

Wayne Pereira
Curator, TEDxCRCE



INTERNSHIP AND CAREER EXPO 2016

On the 16th March 2016, TEDxCRCE along with the Training and Placement Office organized the first ever Internship and Career Expo at Fr. Conceicao College of Engineering in Samvaad Auditorium. It was strategically designed to introduce first, second and third year students across all branches with various companies in the industry.

The companies participating in the Expo were Centre for United Nations, National Stock Exchange, MDMA, Apex Consultants, 3b Semiconductors, Global Business Associates, Wishing Well, Greenpeace and Teach for India. These companies participated in the Expo to acquaint students with various internship opportunities available in their organizations.

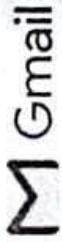
The first session of the day was attended by Second and Third year Computers Department along with First year division A and B. The session began with a welcome address and Expo format briefing by Wayne Pereira, TEDxCRCE. Global Business Associates was the first to present its internship opportunities from stage followed by 3b semiconductors, Ideamagix, Apex Consultants, Greenpeace, Centre for United Nations, Teach for India and NSE. A networking session was arranged with all companies and students on the Auditorium terrace for one hour for students to get a more concise and clear understanding of internships available across all companies. Students had the opportunity to converse with company representatives and submit copies of their resume.

The second session, scheduled at 11.00 a.m. was attended by Second and Third year Production and Information Technology branch students. Global Business Associates, 3b semiconductors, Ideamagix, Apex Consultants, Wishing Well, Greenpeace, Centre for United Nations, Teach for India, MDMA and NSE presented on stage followed by an hour of intense conversation with all companies at the networking area. All companies had the opportunity to meet with a huge pool of students and collected resumes from all interested candidates. A small lunch break was organized for 45 minutes and refreshments were served to companies.

The afternoon and final session, scheduled for 2.00 p.m. was attended by Second and Third year Electronics and First year divisions C and D. Global Business Associates, 3b semiconductors, Ideamagix, Apex Consultants, Greenpeace, Centre for United Nations, Teach for India and NSE presented their internship openings on stage followed by yet another exuberant round of questioning in the networking area. The final sessions closed at 3:30 p.m. with spirits still high and multifarious opportunities explored by all students.

Signature

The Internship and Career Expo bridged the long lasting gap between companies and students and introduced companies to deserving candidates of our



jay borade <jaayb8@gmail.com>

Fwd: Schedule for Soft Skills training

1 message

TPO - Fr. CRCE, Bandra <tpo@fragnel.edu.in>

Thu, Jul 7, 2016 at 10:54 AM

To: Bhushan Patil CRCE <bhushan.patil@fragnel.edu.in>, "CRCE, Jay Borade" <jay.borade@fragnel.edu.in>, "CRCE, monali_shetty" <monali_shetty@fragnel.edu.in>, "CRCE, Tisha Jose" <tisha_jose@fragnel.edu.in>, "heenak.pendhari" <heenak.pendhari@fragnel.edu.in>, "M.R. Sharma" <mahesh@fragnel.edu.in>, prachi CRCE <prachi@fragnel.edu.in>, saurabh korgaonkar <saurabh.korgaonkar545@gmail.com>, supriyas <supriyas@fragnel.edu.in>

Prof. Mahesh Sharma
Training & Placement Officer
Fr. Agnel's Fr. C.R. College of Engineering,
Fr. Agnel Ashram, Bandstand, Bandra(W),
Mumbai -400050
L : +91-22-67114102 | M : 9969813735 | www.fragnel.edu.in

----- Forwarded message -----

From: TPO - Fr. CRCE, Bandra <tpo@fragnel.edu.in>
Date: Thu, Jul 7, 2016 at 10:54 AM
Subject: Re: Schedule for Soft Skills training
To:

Dear All,

Here is the schedule for soft skill training for final year students.
The program enhances the skills required for facing campus hiring with confidence.
Participation is mandatory.
Dress code : formals.

Prof. Mahesh Sharma
Training & Placement Officer
Fr. Agnel's Fr. C.R. College of Engineering,

Fr. Agnel Ashram, Bandstand, Bandra(W),
Mumbai -400050
L : +91-22-67114102 | M : 9969813735 | www.fragnel.edu.in

On Tue, Jul 5, 2016 at 11:11 AM, sapna CRCE <sapna@fragnel.edu.in> wrote:

Dear Sir

Below is the schedule that we could have for the Soft skills training for final year students. The resource persons are Dr. Joseph Rodrigues and Ms. Khushbu Trehan. They have suggested that the sessions should be named

"Stepping towards Placements"

Please forward this to all the BE students

Regards

Sapna Prabhu

TIME TABLE OF SOFT SKILL TRAINING FOR BE STUDENTS

| | Date | Batch | Time |
|---|---------|----------------|--------------------|
| 1 | 13-7-16 | BE Prod A & | 1:30 PM to 3.30 PM |

| | | | |
|---|---------|--|--------------------|
| 2 | 14-7-16 | BE Elex A BE Comp A & BE IT A | 1:30 PM to 3.30 PM |
| 3 | 16-7-16 | BE Comp B & BE Elex B | 1:30 PM to 3.30 PM |
| 4 | 20-7-16 | BE Prod B & BE IT B | 1:30 PM to 3.30 PM |
| 5 | 22-7-16 | BE Comp C & BE Elex C | 1:30 PM to 3.30 PM |
| 6 | 23-7-16 | BE Prod C & BE IT C | 1:30 PM to 3.30 PM |

BATCH DISTRIBUTION IS AS FOLLOWS:

| | COMPUTER | ELECTRONICS | PRODUCTION | IT |
|---------|-----------|-------------|------------|-----------|
| BATCH A | 5846-7066 | 6339-7003 | 6294-6933 | 5060-7121 |
| BATCH B | 7067-7092 | 7004-7031 | 6935-6966 | 7122-7151 |

| | | | | |
|---------|-----------|-----------|-----------|-----------|
| BATCH C | 7093-7216 | 7032-7205 | 6987-7187 | 7153-7488 |
|---------|-----------|-----------|-----------|-----------|

IT IS MANDATORY FOR ALL THE STUDENTS TO ATTEND THE SAME. FAILING WHICH STRICT ACTION WILL BE TAKEN AGAINST THEM

| Sr | Roll No | Name |
|----|---------|------------------|
| 27 | 7758 | Anjali R Kalmase |
| 28 | 7759 | Mansi Kanknecha |
| 29 | 7293 | Aayush R |
| 30 | 7330 | Vaibhav Nagar |
| 31 | 7335 | Mangesh Patki |
| 32 | 7256 | Aditya Jadhav |
| 33 | 7336 | Nishant Pednekar |

Sr
Roll
Mangesh
Patki
N.P.

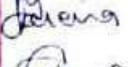
| Roll No. | Name | Sign. |
|----------|------------------------|-------------------|
| 7556 | Aruna Anantharaj | <u>Aruna</u> |
| 7594 | Mikhail Perlo | <u>Mikhail</u> |
| 7572 | Joel D'Souza | <u>Joel</u> |
| 7565 | Christag Alexander | <u>Christag</u> |
| 7570 | Austin D'Souza | <u>Austin</u> |
| 7566 | Mahadev Dalvi | <u>Mahadev</u> |
| 7574 | Shaun Fernandes | <u>Fernandes</u> |
| 7569 | Dwayne D'mello | <u>D'mello</u> |
| 7587 | Gunjan Munde | <u>Gunjan</u> |
| 7555 | Marshall Arem | <u>Marshall</u> |
| 7564 | Sebastian B. Chennette | <u>Sebastian</u> |
| 7600 | Rohan Saldanha | <u>Rohan</u> |
| 7609 | Shweta Wabane | <u>Shweta</u> |
| 7583 | Swapnaja Limkar | <u>Swapnaja</u> |
| 7584 | Jennyman Lopez | <u>Jennyman</u> |
| 7560 | Ayushi Bhatnagar | <u>Ayushi</u> |
| 7610 | Shreya Wazir | <u>Shreya</u> |
| 7598 | Yashasvini Razdan | <u>Yashasvini</u> |
| 7599 | Ritesh Rajan | <u>Ritesh</u> |
| 7568 | Aditya Desu | <u>Aditya</u> |

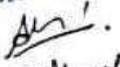
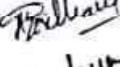
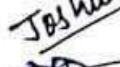
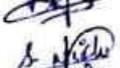
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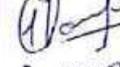
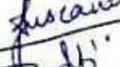
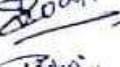
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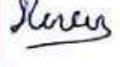
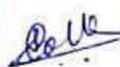
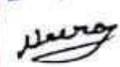
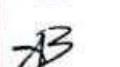
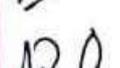
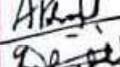
| | Roll No. | Name |
|-----|----------|-------------------|
| | 7390 | Nigel Koli |
| 2 | 7371 | Flavion D'sa |
| 3 | 7405 | TRACY PEREIRA |
| 4 | 7403 | Rahul Pereira |
| 5 | 7399 | SRITEJ NAIR |
| 6 | 7373 | Jeremiah D'souza |
| 7 | 7387 | Abhishck Katchiya |
| 8 | 7376 | Phruva Gaidhani |
| 9 | 7392 | Joshua Danny |
| 10 | 7396 | Drishit Mitra |
| 11 | 7775 | Franky Naidu. |
| 12 | 7419 | Umsh Yadav |
| 13 | 7476 | Thompson Naidu |
| 14 | 7418 | Anisa Juscano |
| 15 | 7436 | Malita Doddi |
| 16 | 7409 | Prarit Raje |
| 17 | 7404 | Shem Pereira |
| 18 | 7363 | Shlavvy Coelho |
| 19 | 7398 | Neeraj Nair |
| 20) | 7361 | Anchit Basu |
| 21) | 7408 | Aqman Prasad |
| 22) | 7415 | Darshi Sheth |
| 23) | 7370 | Mansi |
| 24) | 7413 | Rohit |
| 25) | 7411 | Ruchita |
| 26) | 7779 | Sweedal Siqueira |
| 27) | 7394 | Neel Kudu |
| 28 | 7383 | Kojal Jain |
| 29 | 7412 | Jayram Saula |
| 30 | 7380 | Samrath |

Sign.

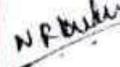
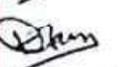
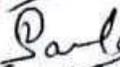






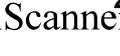










| | Roll No. | Name |
|--|----------|-------------------|
| | 7379 | Vinod G. |
| | 7416 | Rautosh |
| | 7407 | Akshaya Poojari |
| | 7374 | Felia Thomas |
| | 7372 | Annabelle D'souza |
| | 7395 | Nandini Laad |
| | 7364 | Nivea Dabre |
| | 7386 | Shreya Kamat |
| | 7414 | Shilpi Sharma |
| | 7368 | Valerius Dias |
| | 7772 | Pradonna Pereira |

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TE COMP- 41

SE - Comps

Roll No.

Name.

Sign

7645

Sela Grace Koshiy

Sela

7657

Akash V. Patghadmal

Akash

Edwin

Susan

Kevin

Sunny

7624

Edwin Clement

7618

Susan Thomas

7646

Kaumud. Kulkarni

7659

Kevin Parasseril Sunny

SE COMP- 6 .

| Roll No | Name | Signature |
|---------|------------------|-----------|
| 7628 | Ryan Fernando | |
| 7650 | Vaishal Natey | |
| 7635 | Nikhil Gupta | |
| 7651 | Mohit Mehta | |
| 7660 | Nikhil Patil | |
| 7675 | Aniket Nalke | |
| 7652 | ASHUTOSH MISHRA | |
| 7640 | Nikita Jagdale | |
| 7649 | Scarlet Lopes | |
| 7639 | Tanya Jacob | |
| 7642 | Shweta Kadam | |
| 7644 | Notasha Koh | |
| 7668 | Melita Saldanha | |
| 7670 | Shriya Shet | |
| 7664 | Yogesh Rajderkar | |
| 7629 | Anisha Ghavate | |
| 7646 | Yasmudi Kulkarni | |
| 7618 | Susan Thomas | |
| 7662 | Marilyn Mathew | |
| 7643 | Mrunal Kapure | |
| 7657 | Akash Palghadmal | |
| 7613 | Anish John | |
| 7647 | Lionel Lobo | |
| 7617 | Aadesh Bassi | |
| 7621 | Utasra Desai | |

| NO | Name | Branch | Signature |
|------|-------------------|-----------|-----------|
| 60 | Dhiren Prujapati | I.T | |
| 844 | Abhijeet Sagar | I.T. | |
| 7191 | Ruchin Raju | BE IT | |
| 7162 | Suraj Kautela | BE IT | |
| 7172 | Rachit Vijan | BE IT | |
| 7221 | Haoshil Chudanone | BE IT | |
| 7192 | Sam Son Dmello | Elex | |
| 7195 | Utsav. Lody | Elex | |
| 7197 | Ankish. Modly | Elex | |
| 7645 | Sela Grace Kosthy | S.E Comps | |
| 7620 | Glenice D'sa | S.E Comps | |
| 7671 | Akhil Shetty | S.E Comps | |
| 7622 | Jason D'souza | S.E Comps | |
| 7630 | Shaun Gilson | S.E Comps | |
| 7627 | Nicole Fernandes | | |
| 7626 | Paivel Fernandes | | |
| 7636 | Vishwesh Haunde | SE Comps | |
| 7142 | Jyoti Maunya | BE IT | |
| 7134 | Amushree Gawad | BE IT | |
| 7156 | Hetal Patel | BE IT | |
| 7130 | Kimberley Faria | BE IT | |
| 7087 | Mugech Naddar | BE Comps | |
| 7089 | Cheryl Nellissamy | BE Comps | |
| 7102 | Lipi Tharakan | BE Comps | |
| 7090 | Lenherd Oliveira | Be Comps | |
| 7083 | Dipti Menon | BE Comps | |
| 7208 | Stevio Corrao | BE Comps | |
| 7212 | Jagrabhi Meshy | BE Comps | |
| 7067 | PYANAN GONSALVES | BE Comps | |
| 7051 | Rajani Chavhan | " | |
| | Bharatan Dixit | " | |

| Roll No | Name | Branch | Sign |
|---------|------------------------|-------------|-------------|
| 7000 | Amrpal Singh | Electronics | [Signature] |
| 7000 | Rakesh Balasubramaniam | Electronics | [Signature] |
| 6991 | Pearl Fernandes | Electronic | [Signature] |
| 6988 | PANYA BAPIST | Electronics | [Signature] |
| 6981 | Aakash Gangoli | Electronics | [Signature] |
| 7001 | Oncil Mascarenhas | Computer | [Signature] |
| 7145 | Rann Kurien | I T | [Signature] |
| 7004 | Abay Varz | Computer | [Signature] |
| 7063 | Sandeep | " | [Signature] |
| 7000 | Mohit Gonsalves | " | [Signature] |
| 7069 | Sheldon Gonsalves | " | [Signature] |
| 7111 | Tijin Jose | I.T | [Signature] |
| 7401 | Rihan Releker | ELEX | [Signature] |
| 7000 | Tejas sarma | Elex | [Signature] |
| 6982 | Arpit sam | Elex | [Signature] |
| 7008 | Rucha Khol | Elex | [Signature] |
| 7010 | Sanjiv Lobo | Elex | [Signature] |
| 6980 | Vishal M. Cholinda | Elex | [Signature] |
| 7000 | Smriti Gupta | ELEX | [Signature] |
| 7074 | Edwin Clement | COMPS | [Signature] |
| 7057 | Kavin P Sunny | COMPS | [Signature] |
| 7056 | Suresh | COMPS | [Signature] |
| 7053 | Bhargaban. P. Red | COMPS | [Signature] |
| 7069 | Damon Auto Paul | COMPS | [Signature] |
| 7155 | Yeh Parakh | IT | [Signature] |
| 7110 | Rishabh Upadhyay | I.T | [Signature] |
| 7154 | Jason Nunes | I.T | [Signature] |
| 6906 | Freonid chettiar | IT | [Signature] |
| 7160 | Parikshith Rai | I.T | [Signature] |
| 7109 | Sankalp Acharya | IT | [Signature] |
| 7167 | Devika Sindwani | IT | [Signature] |
| 7103 | Sumit Kanegonker | IT | [Signature] |
| 6916 | shail vajani | IT | [Signature] |

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| NO | Name | Branch | Signature |
|------|---------------------|-----------|-----------|
| 061 | Warrenfernandes | COMPUTERS | |
| 7091 | Denise Pereira | COMPS | |
| 7077 | Fiona Lobo | computers | |
| 7080 | Meryl Martis | COMPS | |
| 7070 | Adarsh Gupta | Comps | |
| 7047 | Prinyanka Bane | comps | |
| 7076 | Jayesh Kudale | comps | |
| 7098 | Pankaj Sankpal | COMPS | |
| 7035 | Shubham Suryawanshi | ELEX | |
| 7101 | Gaurav Shinde | COMPS | |
| 7084 | Pankaj Agas | Elex | |
| 7043 | Kushal Guri | comps | |
| 7059 | Nevil Dsouza | COMPS | |
| 7053 | Crystal Cuthinho | COMPS | |
| 7022 | Ashutosh Ramesh | Elex | |
| 7058 | Leon Dsouza | COMPS | |
| 6999 | Jitish Gupta | ELEX | |
| 7065 | Daniela Gomes | comps | |
| 7069 | Sheldon Gonsalves | comps | |
| 7068 | mohit Gonsalves | comps | |
| 7188 | Trupti Chalke | Elex | |
| 7045 | Anu Issac | Comps | |
| 7052 | Rinaiya Colaco | Comps | |
| 7104 | Badal Thosani | comps | |
| 7037 | Naval Swam | ELEX | |
| 7156 | Hetal Patel | IT | |
| 7130 | Kimberley Jania | IT. | |
| 7089 | Cheryl Nellissery | Comps | |
| 7102 | Lipi Tharakant | Comps | |
| 7090 | Denherd Olivera | Comps | |
| 7083 | DIPTI MENON | COMPS | |

| Roll NO | Name | Branch | Signature |
|---------|-------------------|-------------|----------------------|
| 7208 | Flena Correia | Computer | Correia |
| 7212 | Jagruti Meshry | Computer | Mesry |
| 7067 | DYLAN GONSALVES | Computer | Gonsalves |
| 7051 | Rajasi Chavon | Computer | Rajasi |
| 7057 | Bryceker Souza | Computer | Bryceker |
| 7087 | Mugeekh Nadar | Computer | Mugeekh |
| 7055 | Aditya Jozai | EE Comp | Jozai |
| 7084 | Nishka Monteiro | Computer | Monteiro |
| 7131 | Tansy Fernandes | IT | Fernandes |
| 7096 | S Kashani | Computer | Kashani |
| 7056 | Maanav Doshi | COMPS | Doshi |
| 7121 | Melmita Babre | IT | Babre |
| 7019 | Alisha Panicker | Elex | Panicker |
| 7030 | Yatui Sheth | Electronics | Sheth |
| 7031 | Manisha Shetty | Electronics | M.V. Shetty |
| 7205 | Kajal Vichare | Electronics | Kajal |
| 7198 | Bayeshree N. Nare | Elex | B.N. Nare |
| 7202 | Tanika Sheth | ELEX | Tanika |
| 7206 | Snehal Pimple | ELEX | Pimple |
| 7018 | Anjali Parate | Elex | Parate |
| 7041 | Arshina Virani | Elex | Virani |
| 7001 | Shraddha Indulkar | ELEX | Shraddha |
| 7013 | Veek Atesh Mishra | Elex | Mishra |
| 7004 | JOEL SAMSON | ELEX | Joelfaria |
| 7015 | Praveen Samuel | ELEX | Samuel |
| 7006 | Rykov Kowvan | ROX | Rykov |
| 7036 | KALPESH SUTHAR | ELEX | Suthar |

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|---------|--------------------------------------|-----------------------------|---|------------------|----|
| 2017-18 | 10 th of September 2017 | Bandra Fair Volunteering | Collaborated with Mumbai Police, Bandra Police Station | College Students | 69 |
| 2017-18 | Jan 2018-Feb 2018 (over weekends) | Service Above Self | Ratna Nidhi Trust, an NGO, listed by the government of India, funded by Alibaba.com, Sharad Pawar Trust, EFA-Reliance Foundation | College Students | |

Prof. Prachi Patil

Prachi

Prof. Anusha J

Anusha

"Ideas can be life-changing. Sometimes all you need to open the door is just one more good idea".

TEDxCRCE Report 2016-17

On the 23rd of July 2016, TEDxCRCE hosted its second year of TEDx Talks at Fr. Conceicao Rodrigues College of Engineering. The event was, "Presents for the Present" encompassing those powerful ideas that we can implement in our lives today to impact our near future. This year, the event saw 12 dynamic and effective speakers from all walks of life sharing the mission of "Ideas Worth Spreading".

The admirable personalities include Shridhar Venkat, CEO of Akshaya Patra Foundation whose organisation feeds 1.5 million people in 12,000 schools in a span of seven hours daily. Bittu Sahgal, Founding Editor of Sanctuary Asia captured the audience with his vision of a nature friendly environment led by our youth. Niharjaanalezyant, a 13 year old child singing prodigy who won the "Golden Voices of America" took the stage with two powerful melodies. Dr. Sri Rama spoke to the audience about the inter-relation between physics and dance, ending with an eye catching "Tarangam Plate Dance". Sarah-Jane Dias, Actor-Model-Musician asked us to stop labelling people based on their body shapes while Harish Iyer, Equal rights activist spoke about the evils of male child rape, being a survivor of a 11 year ordeal himself. Sameer Ganapathy took us into the world of the quantum digital native while Sneha Vaswani introduced India's first ever companion robot at our event. We also saw a stellar sand art performance by world famous sand artist, Rahul Arya and watched Geeta Tandon speak about her success story from a domestic abuse victim to a Bollywood stuntwoman. Adhitya Iyer easily related with our college students with his engineering based education travel around the country. The event ended with a fusion dance performance from Kanaka Sabha Dance Group.

The event culminated in a major success with many online and print news articles having a total viewership of more than half a million views on YouTube and the TEDx website till date. We are surely and steadily reaching our milestone of 1 million views very soon.

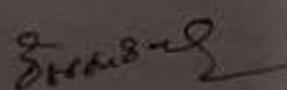
On the 15th of March 2016, TEDxCRCE organised the first-of-its kind "Internship & Career Expo" hosting 11 companies in the college campus. 600+ students attended the event giving them a valuable chance to bag technical and non-technical internships of their choice. Having seen a good response from companies and an equally resounding feedback from the students, we will be organising The Internship & Career Expo for the second time in March 2017.

On the 3rd of September 2016, we also organised a TEDxSalon event for our first year entrants having four distinguished alumni guiding them on life in "CRCE and Beyond". On the 4th of February 2017, we created a new event engaging Top Human Resource Personnel that included a Leadership Consultant and a Corporate to speak to our students before the placement season and give them valuable insights into the interview process, resume crafting and profile building to face the corporate world.

Believing in the spirit of "Service Above Self", we started a new 'TEDxCRCE Community Club' for the students of our college. They have the opportunity to teach weekly, the orphan students of Fr. Agnel Ashram preparing the community members to be compassionate leaders of tomorrow. We will also organise various educational and personality development sessions for these members.

We would like to express our sincere gratitude to our Director Fr. Valerian D'Souza, Principal Dr. Srija Unnikrishnan, the college management, our Teacher-in-charge Prof. DSS Sudhakar, Prof. Anusha Jayasimhan, our faculty members and the student community for their unstinted, consistent support and encouragement in all our endeavours. Their advice and guidance have been invaluable. Going forward, we at TEDxCRCE will endeavour to achieve a fresh new outlook for our projects and will raise the bar further in creating more powerful, professional and energetic community centric events.

Wayne Pereira
Curator, TEDxCRCE



INTERNSHIP AND CAREER EXPO 2016

On the 16th March 2016, TEDxCRCE along with the Training and Placement Office organized the first ever Internship and Career Expo at Fr. Conceicao College of Engineering in Samvaad Auditorium. It was strategically designed to introduce first, second and third year students across all branches with various companies in the industry.

The companies participating in the Expo were Centre for United Nations, National Stock Exchange, MDMA, Apex Consultants, 3b Semiconductors, Global Business Associates, Wishing Well, Greenpeace and Teach for India. These companies participated in the Expo to acquaint students with various internship opportunities available in their organizations.

The first session of the day was attended by Second and Third year Computers Department along with First year division A and B. The session began with a welcome address and Expo format briefing by Wayne Pereira, TEDxCRCE. Global Business Associates was the first to present its internship opportunities from stage followed by 3b semiconductors, Ideamagix, Apex Consultants, Greenpeace, Centre for United Nations, Teach for India and NSE. A networking session was arranged with all companies and students on the Auditorium terrace for one hour for students to get a more concise and clear understanding of internships available across all companies. Students had the opportunity to converse with company representatives and submit copies of their resume.

The second session, scheduled at 11.00 a.m. was attended by Second and Third year Production and Information Technology branch students. Global Business Associates, 3b semiconductors, Ideamagix, Apex Consultants, Wishing Well, Greenpeace, Centre for United Nations, Teach for India, MDMA and NSE presented on stage followed by an hour of intense conversation with all companies at the networking area. All companies had the opportunity to meet with a huge pool of students and collected resumes from all interested candidates. A small lunch break was organized for 45 minutes and refreshments were served to companies.

The afternoon and final session, scheduled for 2.00 p.m. was attended by Second and Third year Electronics and First year divisions C and D. Global Business Associates, 3b semiconductors, Ideamagix, Apex Consultants, Greenpeace, Centre for United Nations, Teach for India and NSE presented their internship openings on stage followed by yet another exuberant round of questioning in the networking area. The final sessions closed at 3:30 p.m. with spirits still high and multifarious opportunities explored by all students.

Signature

The Internship and Career Expo bridged the long lasting gap between companies and students and introduced companies to deserving candidates of our