

3.5.2 Reports of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years



Academic Year: 2018-19



Department of Mechnical Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA. Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619 Website: www.fcrit.ac.in

Brief Activity/Event Report

- 1. Name of the Activity/Event : PROGATE Coaching co-sponsored CALIBRE 2K19
- 2. Activity/Event Venue & Date: college campus of Fr. C.R.I.T. / 30th March 2019

SR. NO.	EVENT NAME	Participant Group
1	National Level Project Poster Competition	Degree and Diploma students
2	National Level Technical Paper Presentation	of Mechanical branch, from
3	Drone Strike	of Mechanical Granen, from
4	Caddict	various technical colleges
5	Quizophile	
6	Battle Of Bridges	

3. Nature of Participants

: Degree and Diploma students of Mechanical branch, from

various technical colleges / faculty of Mechanical Engineering department

4. Number of Participants

: more than 200 students+ 18 Faculty

5. Student Coordinator

: MESA Council Members

6. Staff Coordinator

: Suvarna Rode and Kamlesh Sasane

7. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives : To provide an opportunity, where students of different engineering institutes can to showcase their innovative research ideas, enhance their knowledge and apply their skills, in the field of mechanical engineering, by participating in various events of CALIBRE2K19.

PROGATE Coaching, has been one of the sponsors of CALIBRE 2K19.

b. Technical Description

PROGATE Coaching, was event sponsors for CALIBRE 2K19. A desk was set up in college building area, during regular working hours, for promotional activities of PROGATE Coaching.

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Staff Coordinator



Department of Mechnical Engineering

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MECHANICAL ENGINEERING STUDENTS' ASSOCIATION (MESA)



Department of Mechanical Engineering Agnel Charities'

Fr. C. Rodrigues Institute of Technology, Vashi Sector - 9A, Vashi , Navi Mumbai -

Tel: 022-41611000

www.fcrit.ac.in

mesa@fcrit.ac.in

Memorandum of Understanding Between

"Mechanical Engineering Students' Association (MESA) of Mechanical Engineering Department of Agnel Charities', Fr. C. Rodrigues Institute of Technology, Vashi" and "PROGATE Coaching, Vashi".

This Memorandum of Understanding (MOU), establishes a co-operative relationship between PROGATE Coaching (herein known a Party of the First Part), whose address is "Progate Coaching, Office No. S - 179, 2nd Floor Haware Fantasia Business Park, Sector 30A, Corporate Wing, Vashi, Navi Mumbai" and MESA of Mechanical Engineering Department of Fr. Conceicao Rodrigues Institute of Technology (herein known a Party of the Second Part), whose address is "Agnel Technical Education Complex, Sector 9A, Vashi, Navi Mumbai".

Purpose: The purpose of this MOU is to establish the terms and conditions between both the parties regarding sponsorship for CALIBRE 2k19.

As per the negotiations held between the two parties, the following things are agreed upon.

Responsibilities of Party of the First Part

- 1. Giving a sponsorship amount of Rs 5000/- only to the Party of the second Part through online payment on the account details mutually negotiated by both the parties.
- Permission to use the logo of PROGATE coaching to display it on the FCRIT MESA website under the heading of 'Event Sponsors'.

Responsibilities of Party of the Second Part

- 1. Providing a desk arrangement in the college campus for a period of 'one day during the college hours' only on the day mutually decided by both the parties.
- Displaying the logo of the organization of the Party of the first part on the FCRIT MESA website under the heading of 'Event Sponsors'.

The points mentioned in the MoU shall be strictly followed by both the parties and there cannot be any deviation/change in it.

(On Behalf of Party of the First Part)

Signing Authority PROGATE COACHING, Vashi (On Behalf of Party of the Second Part)

Dr. Nilaj Deshmukh

(Head of Department of Mechanical Engineering) & Dean (Faculty)

Fr. C. Rodrigues Institute of Technology, Vashi

Staff Coordinator



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Brief Activity/Event Report

1. Name of the Activity/Event : Workshop on Pluto drone

2. Activity/Event Venue & Date: Fr. C. Rodrigues Institute of Technology, Vashi / 23rd and 24th Feb 2019

3. Nature of Participants: Degree and Diploma students of Mechanical branch, from various technical colleges / faculty of Mechanical Engineering department

4. Number of Participants

: 44 students+ 02 Faculty

5. Student Coordinator

: Priyan Kamble

6. Staff Coordinator

: Suvarna Rode and Kamlesh Sasane

7. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives

: to provide students an exposure to the recent developments in

mechatronics and gain practical exposure of Pluto drone.

b. Technical Description

The workshop covered an introduction to UAVs, classification and application of Drones, dynamics of aerial system, sensors and stability which explained the various parts of drone and their functions. The workshop provided a Hands-on Assembly experience and Piloting sessions of the Pluto drone from Drona Aviation. The workshop also taught Drone computing and coding along with introduction to embedded System and drone featured programs. 44 students actively participated in the two-day workshop and diligently worked and learned the ways of future technologies.

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Dalvik pps

Memorandum of Understanding between We Can Education & Fr. C. Rodrigues Institute of Technology, Navi Mumbai.

The memorandum of understanding may be treated as an official agreement to the terms and conditions understood between, We Can Education (herein known a Party of the first Part) and Fr. C. Rodrigues Institute of Technology, Navi Mumbai. (herein known as party of the second Part). As per the negotiations held between the two parties, the following things are agreed upon.

Party of the first Part shall conduct a 16-hours, 2-Days workshop on Pluto Drone in association with the Party of the second part on mutually agreed dates.

This is to confirm that FCRIT, Vashi, in association with We Can Educational Organization, Dalvik Apps & Drona Aviation are organizing two days workshops on Pluto Drone on 23rd & 24th February 2019.

Deliverables from Dalvik Apps:

- Conduct the technical workshop.
- E-verified Certificate of Excellence to each participant from We Can Educational Organization in Association with Dalvik Apps and Drona Aviation-IIT Bombay Alumni.
- Non-Take away drone kits for workshop purpose.
- The Faculty would be honored with The Letter of Appreciation.
- Conduct workshop in the college premises on the dates mutually decided by both the parties.
- Provide quality workshop as per the discussions and mutual agreement.

Requirement from Host College:

- The second party will provide a hall/seminar hall with a seating capacity of 40-50 students, Pas (Speaker, Mic), LCD Projector and 2 dedicated volunteers.
- The College will ask students to get their own laptops during workshop.
- Publicity of the event, motivating the students to join the event.
- Provide a room for safe keeping of the necessary materials brought for the workshop.
- Permit media coverage if it happens during the workshop.
- Share complete information about the registered participants with We Can Education.

Fees:

No. of groups (group of 4)	Training Cost	Training Cost with Takeaway drone
12-15	2400/-	8000/-

- Fee includes training and certification from Dalvik Apps.
- Payments to Dalvik Apps are to be made in Cash/DD/Cheque/NEFT to "Dalvik Apps" on second day of workshop.
- Students from colleges except Fr. C. Rodrigues Institute of Technology would also be participants in workshop.

Gaurav

(We Can Representative) Dalvik Apps.

Dr. Nilaj Deshmukh

(Head of Department of Mechanical Engineering) Fr. C. Rodrigues Institute of Technology, Agnel Technical Education Complex.

CBH216, Regency Plaza IT Park, Kalyan (W), Mumbari 🗪 info@dalvikapps.com i 🌎 www.dalvikapps.com

Staff Coordinator



Department of Computer Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA. Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619 Website: www.fcrit.ac.in

Brief Activity/Event Report

1. Name of the Activity/Event :MOU with Myraa

2. Activity/Event Venue & Date: Industry Oriented Project, Computer R&D Lab

3. Nature of Participants

: Students of Computer Engineering

4. Number of Participants

:6

5. Student Coordinator

: Mr. Naeem P.

6. Staff Coordinator

:Ms. Shweta Tripathi

7. Brief Summary of the Activity/Event (in maximum 500 words):

a) Objectives

:

- Exposure to industry-based project
- Inculcate behaviour of working in industrial environment.

b) Technical Description:

- Through on the spot idea pitching students were selected.
- Students were given live project from Myraa
- Employee from Myraa used to come to college after for the guidance
- Continuous monitoring on students project was done by the institute and the company
- Students were given training on HR values
- Evaluation of students was done on basis of HR values, continuous progress and completeness

c) Outcomes

- Students got opportunity to know the work culture of an organisation
- Students got exposure to work on live project

d) Activity / Event Photograph:

On the spot Idea Pitching organized by Myraa Technologies



Fr.CEIT, Mumbai 8th September 2018

H.O.D

Department of Computer Engineering

Status report of the MOUs signed with Saini Electrical and Engineering works

- []		Period of	Main Objective of		Activity ca	rried out under	MOU	
ľ	0 ,	MOU Validity	MOU	Activity Details	Sanctioned Amount (Rs.)	Principal Consultant/ Investigator	Duration	Current Status
	Saini Electrical and Engineering Works, Pawane, Navi Mumbai	Three years Feb 2019- Jan 2022	support for design	R&D document signed for Funded project for Design of 110kW Electric Vehicle drive for SUV	(including GST)	Dr. Sushil Thale	Feb 2019- Sept 2020	Design and Development activity is on going



Academic Year: 2017-18



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Brief Activity/Event Report

1. Name of the Activity/Event : Career Guidance Seminar

2. Activity/Event Venue & Date: IC Engine Lab/ 15th March, 2018

Contents of Workshop	Participant Group
Career Guidance Seminar	Undergraduate students of
Distribution of Information Brochure	Mechanical Engineering Department of Fr.C.R.I.T
	Career Guidance Seminar

3. Nature of Participants

: Undergraduate Students of Mechanical Engineering Department of

Fr.C.R.I.T

4. Number of Participants

: 142 students

5. Student Coordinator

: Chantelle George

6. Staff Coordinator

: Girish Dalvi

7. Brief Summary of the Activity/Event:

a. Objectives

: To provide career guidance to students.

b. Technical Description

Expert from Endeavor discussed about building positive attitude for achieving dreams. They also shared various career prospects

Staff Coordinator

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The HOD Department of Mechanical. FCRIT, Vashi

14th Feb, 2018

Dear Madam/Sir,

SUB: MoU for Association

Endeavor would like to extend a special notion of thanks to the organizing committee at FCRIT and for associating with us to conduct series of activities at your college.

This proposal is in the continuation of the discussion we had with Ms Chantelle serves the purpose of a proposal citing mutual understanding and agreement.

The activities that we cite from this sponsorship of 12000/-, as decided after discussion in our

1. Seminar/Workshops:

Seminar/Workshop Details	Stream and Year	Strength	Duration
Seminar 1	Mech 2nd Year	80	
Seminar 2	Mech 3 rd Year	80	60 Mins
			OU IVIINS

- It will be a career guidance seminar for SE and TE Mech department.
- This session will be of 60 minutes and will be conducted in college premises
- The rollege shot hi ensure 100% attendance during these seminars/workshop in each session.
- Information brochures to be distributed amongst interested students during or after the
 - 2. Branding
 - Social media promotion: display of association on face book .
 - Posters to be put up at Notice boards till Sept 18.

Registered Office: 101, "Suyojan" Towers, Nr. Hotel President, Off. C. G. Road, Ahmedabad-09, Gujarat. 01, Arenja Arcade, Above Domino's, Nr. Kshirsagar Restaurant, Sector 17, Vashi, Navi Mumbai, Maharashtra – 400703.

© 022 - 6565 2221 D7666 587 770 CIN: U80903GJ2005PTC046276

vashi@endeavorcareers.com gwww.endeavorcareers.com

Staff Coordinator

Meshely



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Support from your Institute:

We would expect the institute to support Endeavor by providing us the following:

- Required Infrastructure: Auditorium with LCD projector and sound systems with other required
- We wish that the institute along with all its staff members to support us in all possible ways to

We are glad for the trust and faith the Institute has shown to us and would like a meeting with you to discuss the same in further detail. Let us together support the student community in achieving

. We are sure you will consider this proposal with a positive attitude and will support the zeal and purpose of Team Endeavor.

Regards,

Jupin P Endeavor Careers Pvt Ltd, Vashi Phone: 022-65652221 Email: jupin@endeavorcareers.com Website: www.endeavorcareers.com

Acceptance by College Authority (Name, Designation, Seal and Signature)

Endeavor Copy

Registered Office: 101, "Suyojan" Towers, Nr. Hotel President, Off. C. G. Road, Ahmedabad-09, Gujarat.

Arenia Are Arenja Arcade, Above Domino's, Nr. Kshirsagar Restaurant, Sector 17, Vashi, Navi Mumbai, Maharashtra – 400703.

vashi@endeavorcareers.com owww.endeavorcareers.com

Staff Coordinator

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Status report of the MOUs signed with industries

		Period of	Main Objective of	Activity carried out under MOU				
	Organization/ Industry	MOU Validity	MOU	Activity Details		Principal Consultant/ Investigator	Duration	Current Status
1.	Shubh Die Casting Pvt Ltd., Vasai, Thane	Three years Apr 2017- Mar 2020	Consultation and support for design and manufacturing of LED products	R&D document signed for Street light LED Products Design and development and testing	(including GST)	Dr. Sushil Thale	April-2017 - Sept 2018	Product design and manufacturing support extended. Pilot testing completed. New product and up gradation is ongoing
2.	Autodata Pvt Ltd., Navi Mumbai	Two Years Oct 2017- Sept 2019	Design of Active Power Filters and training of staff	R&D document signed for Design and Development of Active Power Filter		Dr. Sushil Thale	Oct-2017 - June 2018	Design completed and project is closed from Industry side
3.	AMA Pvt.Ltd , Mumbai	Two Years Nov 2017- Oct 2019	Advisory for Design and development of Airfield Lighting products	Consultancy document signed for Design of Solid state Airfield Lighting products		Dr. Sushil Thale	Nov-2017- Sept 2018	Project completed and closed
4.	Lemon Street Venture Pvt Ltd (Tyre Express, Navi Mumbai)	One year Feb 2018- Jan 2019	Advisory for technical product development	Development agreement singed for IOT based tyre Monitoring System	Rs. 1.41 Lacs (including GST)	Dr. Sushil Thale	Feb 2018- Jan 2019	Project Closed



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Brief Activity/Event Report

1. Name of the Activity/Event :Endeavor Seminar

2. Activity/Event Venue & Date: On 3/8/17

Sr.	TOPIC	CLASS
No.		
1	"Preparation of Competitive Exams like MBA, GRE etc."	Sem 3 (Electrical)
2	"Profile building for higher studies abroad"	Sem 5 (Electrical)
3	"Education Abroad"	Sem 7 (Electrical)

3. Nature of Participants :Students of 2nd, 3rd and final year separate seminars

4. Number of Participants :total 183 for all 3 seminars

5. Student Coordinator :EESA council members6. Staff Coordinator :Mrs. HarshadaBhosale

- 7. Brief Summary of the Activity/Event (in maximum 500 words):
 - a. **Objectives** :Endeavor, provides students with proper guidance and rigorous practice, to excel and persevere relentlessly, even an average student can very well crack a national level entrance exam. This is the attitude that Endeavor fosters in the students and hopes to clear the myths surrounding entrance exam preparation.
 - b. **Technical Description** :Seminars were arranged for all 3 classes of Electrical department 2nd,3rd and 4th year with aview to provide them guidance in the initial stages for higher studies abroad and choosing theright career after BE. How they can prepare for competitive exams and do the necessary preparations for meeting those requirements for higher studies.

c. Outcomes :

d. Summary of Feedback :

- e. Action to be Taken based on Feedback:
- 8. Activity / Event Photograph:



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8 8 17 The Principal, FeCRIT, Sub. - Deposit of sponsorship chique to Vidyut account. Vashi. EESA committee for year 2017-18 desires to deposit of there cheques amounting to Rs. 3000/- Rs. 3000/- and Rs. 4000/-. details are given below Sponsoler - Endeavour Careers Prt. Ltd. Cheque No. Amount. Ps. 3000/-1) 221531 Rs. 3000/-2) 221532 Rs. 4000/-3) 221533 Bank - Bank of India dated 4/8/17 Thanking you, your's tenly Thehavan Harshada C. B. EESA Convenor (2017 - 2018)



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Brief Activity/Event Report

1. Name of the Activity/Event : Skill Development in Computer Aided Design (CAD), Using "SOLID EDGE", in coordination with "Milestone Technologies

2. Activity/Event Venue & Date: CAD LAB AX-104)/ 20th to 23rd December, 2017

SR. NO.	Contents of training program using SOLID EDGE Software	Participant Group
1	Sketching	Undergraduate and Post Graduate
2	3D Part Design	Students of Mechanical
3	Detailed Component Design	
4	Assembly	Engineering Department of
5	Drafting	Fr.C.R.I.T
6	introduction to structural analysis	

3. Nature of Participants

: Undergraduate and Post Graduate Students of Mechanical

Engineering Department of Fr.C.R.I.T

4. Number of Participants

: 10 students + 2 Faculty

5. Student Coordinator

. _____

6. Staff Coordinator

: Suvarna Rode

7. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives

: To provide an opportunity for students, to develop skill sets in 3D

Geometrical Modelling, using CAD software.

b. Technical Description

Trainer from Milestone Technologies conducted different sessions in the four days program. It included illustration and hands on training on different modules like "Sketching, 3D Part Design, Detailed Component Design, Assembly, and Drafting using SOLID EDGE Software. Also introduction to structural analysis has been conducted. Students were given with practice assignments for each module.

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Staff Coordinator

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MILESTONE TECHNOLOGIES



Memorandum of Understanding Between

Mechanical Engineering Department of Fr. Conceicao Rodrigues Institute of Technology, Vashi and Milestone Technologies.

This Memorandum of Understanding (MOU), establish a co-operative relationship between Milestone Technologies (herein known a Party of the First Part) and Mechanical Engineering Department of Fr. Conceicao Rodrigues Institute of Technology, (herein known a Party of the Second Part). Under this MOU, both the parties will establish mutually beneficial links with the aim of providing CAD/CAM Software training to students of Party of the Second Part. As per the negotiations held between the two parties, the following things are agreed upon:

1. Party of the First Part shall,

- a. Conduct software training in the college premises on the dates mutually decided by both
- b. Provide 25 Licenses for SOLID EDGE for the purpose of training only, during the training
- Be charging Fees of Rs.1800/- per student for one CAD/CAM training program. (As per company norms fees may get revised from time to time, in consent with Party of the
- Issue Individual receipt to the students registering for the program.
- Be paying 20% of the Course conduction fees received by each student to Party of the Second Part via Cheque, for making all the arrangements regarding training, at least 2 days before the last day of training.
- Provide "Certificate of Completion" to all students who successfully complete the training.

2. Party of the Second Part shall,

- a. Schedule the training sessions and Arrange CAD/CAM Lab for conducting training sessions.
- b. Provide technical assistance in managing the projector, and other technical issue.
- Provide sufficient number of students per training session.
- Share Complete Information about the registered participants with the Party of the First

507, Paradise Tower, Gokhale Road Thane (W) 400602. INDIA Phone: ++91-22-25397998 Web: www.milestonetech.net Email: info@milestonetech.net

Staff Coordinator



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MILESTONE TECHNOLOGIES



- Collect the registration form and fees from students via Cheque /DD/ online payment.
- Handover the cheque/DD received by all the registered students, to the Party of the First part, at least 2 days before the last day of training.
- 3. On behalf of Party of the Second Part, Prof. Suvarna Rode will assist during the training program. (Faculty in charge may vary time to time in consent with Party of the First Part)
- 4. On behalf of Party of the First Part, Mr. Sachin Kamble (Business Development Manager) will assist during the training program
- 5. The points mentioned in the MoU shall be strictly followed by both the parties and there cannot be any deviation/change in it.

Validity Period: 15/12/2017 To 14/12/2020.

Rev. Fr. Dr. Ivon Almeida **Assistant Managing Director** Fr. Conceicao Rodrigues Institute of technology

Witness

Dr. S. M. Khot **PRINCIPAL**

Fr. Conceicao Rodrigues Institute of technology

Mr. Amit Gunial

Director

Milestone Technologies

Me. Sachin kamble

Managee

Milestone Technologie

H.O.D (MECHANICAL) & Dean (Faculty) Fr. Conceicao Rodrigues Institute of technology

> 507, Paradise Tower, Gokhale Road Thane (W) 400602, INDIA Phone : ++91222-25397998 Web: www.milestonetech.net Email: info@milestonetech.net

Staff Coordinator

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Website: www.fcrit.ac.in

Activity Report

Under the Memorandum of Understanding (MOU) signed between Fr. C. Rodrigues Institute of Technology, Navi Mumbai (India) and Rave Gears (India) to carry out a research project titled "Online condition monitoring of gears" following activities are carried out.

- 1. The project is assigned a number FCRIT/CPRJ/05/2017–2018.
- 2. Rave Gears gave Rs. 75,000/- out of agreed total research fund of Rs. 1,50,000/- for initiating the work. The proof can be seen in Appendix I.
- 3. The Principal Investigator Dr. Nitesh P. Yelve hired a Project Engineer for assisting in this work. His appointment letters are given in Appendix II and his experience certificate is given in Appendix III. A ME (Mechanical Engineering, Machine Design) student, Mr. Naseh Momin also helped in this work.
- 4. The project has been successfully carried out and the company has been requested to release the remaining amount.
- 5. A patent has been filed based on the work carried out as a part of this project. The details of this patent are as follows. Nitesh P. Yelve, Naseh Momin, and Mandar B. Kothavade, "Real-time monitoring of misalignments and backlash in gears using proximity sensors", Patent Application No. 201921025226, Filed on June 25, 2019.

Dr. Nitesh P. Yelve

Principal Investigator

/ нор

Department of Mechanical Engineering

Appendix I

Fr.C.Rodrigues Institute of Technology

Sector-9A, Vashi Navi Mumbai - 400703

RECEIPT

No.

: 2799

Date :

12-Sep-2017

Received from Shri. / Smt. / Kumari: RAVE GEARS INDIA LIMITED

Address

PLOT 147, 7/7A, SHREERAM ESTATE SEWREE, MUMBAI 13

On Account Of

Research Grant (Mech Dept)

PARTICULARS

TOTAL

75,000.00 75,000.00

Received in Cash/Cheque/D.D.: 600016 Bank: HDFC Bank (Inclid) Branch: Fort

Amount in words Rs.: Indian Rupees Seventy Five Thousand Only

For Fr.C.Rodrigues Institute of Technology



Sector - 9A. Vashi, Navi Mumbai - 400 703. INDIA Telephone: 27771000, 2766 1924, 2766 0618, Fax: 2766 0619 Email: principalfcrit@gmail.com Website: www.fcrit.ac.in

Date:

February 12, 2018

To.

Mr. Mandar Kothavade Near H.V. Patil Vidvalava. At - Chinchghar, Post-Kúdus, Taluka-Wada, District-Palghar 421312

SUB: Appointment Letter for the post of "Project Engineer"

Reference: Your Application dated January 29, 2018

Project Reference: M/s. Rave Gears, Mumbai (FCRIT/CPRJ/05/2017-18)

Dear Mr. Mandar Kothavade,

Based on your interview on February 7, 2018 at Dean (R&D) office, FCRIT, Vashi for the post of "Project Engineer" for the M/s. Rave Gears granted Sponsored Project (FCRIT/CPRJ/ 05/2017-18) on "Online Condition Monitoring of Gears", we are pleased to appoint you as a "Project Engineer" with the following terms & conditions:

- 1. Your appointment is full-time, purely temporary, and on ad-hoc basis for the period February 14, 2018 to May 13, 2018.
- 2. You will be paid the consolidated salary of Rs. 20,000/- per month.
- 3. You are required to report to the Principal-FCRIT on February 14, 2018 at 8.30 am, the date of joining.
- 4. Your working time will be 8.30 am to 4.30 pm.
- 5. You may avail one Casual Leave per month.
- 6. You are not entitled for Dearness Allowance, LTC, and Retirement benefits, etc.

(5)

Yours truly,

Dr. Nitesh P. Yelve

Principal Investigator

Dr. Sushil Thale

Dr. S.M. Khot Principal

Dean (R&D)

Received wo would mardad work



Sector - 9A, Vashi, Navi Mumbai - 400 703. INDIA Telephone: 27771000, 2766 1924, 2766 0618. Fax: 2766 0619 Email: principalfcrit@gmail.com Website: www.fcrit.ac.in

Date:

May 11, 2018

Mr. Mandar Kothavade Near H.V. Patil Vidyalaya. At - Chinchghar, Post-Kudus, Taluka-Wada, District-Palghar 421312

SUB: Extension of Appointment as a "Project Engineer"

Reference: Your Application dated May 05, 2018

Project Reference: M/s. Rave Gears, Mumbai (FCRIT/CPRJ/05/2017-18)

Dear Mr. Mandar Kothavade,

Based on your interview on May 11, 2018 at Dean (R&D) office, FCRIT, Vashi for the post of "Project Engineer" for the M/s. Rave Gears granted Sponsored Project (FCRIT/CPRJ/ 05/2017-18) on "Online Condition Monitoring of Gears", we are pleased to extend your appointment as a "Project Engineer" with the following terms & conditions:

- 1. Your appointment is full-time, purely temporary, and on ad-hoc basis for the period May 14, 2018 to May 31, 2018.
- You will be paid the consolidated salary of Rs. 20,000/- per month.
- 3. Your working time will be 8.30 am to 4.30 pm.
- 4. You may avail one Casual Leave per month.
- You are not entitled for Dearness Allowance, LTC, and Retirement benefits, etc.

Yours truly.

Dr. Nitesh P. Yelve

Principal Investigator

Dr. Sushil Thale

Dean (R&D)

M Khot

Principal



Sector - 9A, Vashi, Navi Mumbai - 400 703. INDIA
Telephone: 27771000, 2766 1924, 2766 0618. Fax: 2766 0619
Email: principalfcrit@gmail.com Website: www.fcrit.ac.in

Date:

To whomsoever it may concern

This is to certify that Mr. Mandar Kothavade worked as a 'Project Engineer' in the Department of Mechanical Engineering of Fr. C. Rodrigues Institute of Technology, Vashi from February 14, 2018 to May 31, 2018 on a consolidated salary of Rs. 20,000/- per month. His appointment was full-time, purely temporary, and on ad-hoc basis. He was appointed to work on the project 'Online condition monitoring of gears' (FCRIT/CPRJ/05/2017-18) sponsored by M/s Rave Gears India Ltd. His performance was appreciable during the tenure.

Dr. Nitesh P. Yelve

Principal Investigator

Date: June 1, 2018

Dr. S.M. Khot

Principal



Department of Mechnical Engineering

Sector - 9A, Vashi, Navi Mumbai - 400 703, INDIA. Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

Brief Activity/Event Report

1. Name of the Activity/Event : 2 Days Workshop on "Fasttrack Assembly and Dis-Assembly workshop" in coordination with "Ezinetch Education"

2. Activity/Event Venue & Date: IC Engine Lab/ 4th & 5th October, 2017

SR.	10001, 2017				
NO.	Contents of Workshop	Participant Group			
1	Assembly and Disassembly of Four stroke Petrol Engine and Diesel engine	Undergraduate students of Mechanical Engineering Department of Fr.C.R.I.T			

3. Nature of Participants

: Undergraduate Students of Mechanical Engineering Department of

Fr.C.R.I.T

4. Number of Participants

: 58 students + 3 Faculty

5. Student Coordinator

: Chantelle George

6. Staff Coordinator

: Girish Dalvi

7. Brief Summary of the Activity/Event :

a. Objectives

: To provide hands on experience to students, in assembly and

disassembly of IC engine.

b. Technical Description

Trainer from Ezineth Education conducted different sessions in the two days program. The program had a 3 hours lecture series conducted by R&D expert from automobile industry. Subsequent to the lecture, a hands-on training session of 13 hours, spanning two days was conducted. In the hands-on session, the students dismantled and assembled two wheeler and four wheeler engines. During the practical session, participants were provided an understanding of the different parts, their importance and their assembly/dismantling process.

Staff Coordinator



Department of Mechnical Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, iNDIA. Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

EMPOWER - EDUCATE - ENLIGHTEN - EZENITH



Memorandum of Understanding between Ezenith Education& Fr. C. Rodrigues Institute of Technology, Navi Mumbai.

The memorandum of understanding may be treated as an official agreement to the terms and conditions understood between Ezenith Education (herein known as "Party of the first Part") and Fr. C. Rodrigues Institute Date: 22nd September, 2017 of Technology, Navi Mumbai. (here in known as "Party of the second Part"). As per the negotiations held perween the trial part shall conduct a 16 hours, 2Days workshop on "Fastrack Assembly and Dis Assembly workshop" in association with the Party of the second part on mutually agreed dates. The Party of the Second part shall:

- Arrange for the venue for holding the workshop which includes auditorium/Lecture hall with good amenities Charge Rs 1300/- per students towards conducting the workshop.
- Provide a room for safe keeping of the necessary materials brought for the workshop
- Provide minimum of 80 students inorder to organize the event successfully.
- Provide 5 students coordinators, a faculty coordinator and a technical person who can manage the sound system, Permit media coverage if it happens during the workshop.
- Provide a "Letter of Appreciation" to Ezenith Education upon successful completion of the event
- Recognize "Ezenith Education" as its Workshop/Technical partner for the workshop.
- Provide proper security to Ezenith Education's Team and its inventory during the workshop.
- Shall not permit students from other colleges to attend the program.
- Collect the registration from the students via Cheque or DD.
- Settle the payment 3 days prior to the workshop
- Share complete information about the registered participants with Ezenith Education.

The Party of the first Part shall:

- Conduct workshop in the college premises on the dates mutually decided by both the parties.
- Provide quality workshop as per the discussions and mutual agreement.
- Individual receipts to the students registering for the program.
- Advertise the program on its website and other social media platforms mentioning the association with the party Bring all the equipment's and kit required to conduct the workshop.
- Provide "Certificate of Participation" and "Acknowledgement letter" to all the students who successfully complete the workshop. Provide "Certificate of Merit" to the top performing participants in the workshop.
- Provide Certificate to student coordinator, Faculty coordinator and technical person.
- The points mentioned in the MoU shall be strictly followed by both the parties and there cannot be any

Daison Davis Business Development Ezenith Education

On Behalf of Part of the Second Part Rev. Dr Ivon D'Almeida

Asst. Director Agnels Technical Education Compl

Ezenith - Empowering Education Krishna Arcade, Sector-2A, Plot No-65, Koparkhairne, Krisnna Arcade, Sector-2A, Piot No-05, Robatkhairne, Navi Mumbai, Maharashtra -400709 Contact - (+91) 8879803647, (+91) 9619727582, 022-60606262 Email ID - hello@ezenith.in, info@ezenith.in

Staff Coordinator

Meshoe



Department of Electronics & Telecommunication Engineering

Sector - 9A, Vashi, Navi Mumbai - 400 703, INDIA. Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

Brief Activity/Event Report

1. Name of the Activity/Event : Summer Training Program 2018 - EMBEDDED SYSTEMS

2. Activity/Event Venue & Date: 18 JUNE 2018 - 29 JUNE 2018

3. Nature of Participants : Students of FCRIT / Staff of EXTC DEPT

4. Number of Participants : 22 (20 STUDENST, 02 STAFF MEMBER)

5. Student Coordinator :-

6. Staff Coordinator : Mrs. Pranali Choudhari

7. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives

The program aims to bridge the gap between theoretical knowledge and hands-on practical learning. Students will be benefitted from the experience and knowledge that they will take away from this program and it would also help them in their further academics as well as career aspects. The program provides a leap in the students' learning, boosts their confidence in applying what they've learnt in creating applications that benefit the society and help them to grow as an engineer. Also, students will get a good grip on programming their systems.

b. Technical Description

The 10 day program based on embedded systems involved detailed learning about Embedded Systems, its history, basic concepts and its applications in real world. Students also learnt about Microcontrollers w.r.t embedded systems, their difference from Microprocessors and the need to learn about them. The program also involved basics of Python programming, a language which is most widely being used in the upcoming development industries.

SOFTWARE PLATFORM USED FOR PROGRAMMING: MBED (mbed.com)

Mbed is a free online compiler used for writing and compiling programs for embedded systems and boards. It provides a well arranged environment to develop and save codes and also upload/download project codes. It also contains provisions to import libraries and use them as well as provide information about various embed boards and their specifications. It is the perfect environment to develop embedded systems projects and

hence, throughout the course period, we have used mbed.com for training.

Staff Coordinator

HOD 24-10-19

Student Coordinator



Department of Electronics & Telecommunication Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA. Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

SOFTWARES USED:

C++ for Mbed programming.

HANDS-ON PRACTICALS:

- Printing onto LCD, manipulating the format of printing, scrolling alphabets, importing
 TextLCD library.
- LDR used for detecting light intensity and switching led on or off accordingly, while displaying intensity values on LCD.
- Accelerometer: The built in accelerometer on KL25Z used to detect flatness of a surface, changing LED color on each different axis, while also displaying the axis values on LCD. Importing the necessary libraries also taught.
- Touch Sensor: Built in touch sensor on KL25Z used to detect touch and change LED
 output for each touch detected on different portion of the touchpad.
- 5. Blinking LED in different colors and time intervals.
- 6. Ultrasonic sensor used to find distance, and displaying the distance on LCD.
- 7. PIR to detect intervention.

FINAL PROJECTS FOR PRACTICAL EXAM:

- ✓ Calculator using Matrix Keypad with Mbed board.
- ✓ Human Intervention detection using PIR and buzzer alarm for alerting.
- ✓ Temperature and humidity monitoring using DHT11 sensor.
- ✓ Controlling The Intensity And Tone Of Buzzer Using Accelerometer.
- Detecting temperature using LM35 sensor and tuning motor speeds low, mid and high accordingly to drive a fan.
- ✓ Data acquisition sensors: ultrasonic sensor and PIR

Outcomes:

Student Coordinator

At the end of the course, Students will be able to:

- 1. Gain detailed knowledge about embedded systems, its requirements and applications.
- 2. Learn the basics of programming
- 3. Learn programming in C++.
- 4. Get to know different microcontroller boards, their specifications and applications.
- 5. Learning to read datasheets and reading pin configurations to identify pins on the board.
- 6. Learning about various peripheral sensors, electronic communication and its protocols, and connections.

Staff Coordinator

HOD

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Department of Electronics & Telecommunication Engineering

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- 7. Studying important basics of sensor functioning, like accelerometer.
- 8. Learning to import libraries and use the predefined functions to ease coding.
- 9. Building real, live and useful projects and working as a team.
- 10. Learning about microprocessors.
- 11. Gaining confidence to build bigger, more complex projects and presenting it to an audience.

Summary of Feedback

: Attached along with

Action to be Taken based on Feedback:

Amendment in the course contents need to be done such as Inclusion of Raspberry Pi, and projects on them

Activity / Event Photograph:



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Student Coordinator

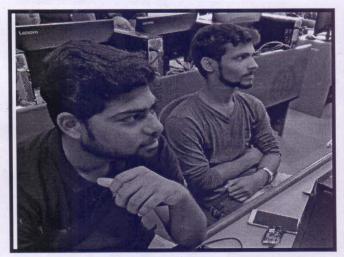
Staff Coordinator



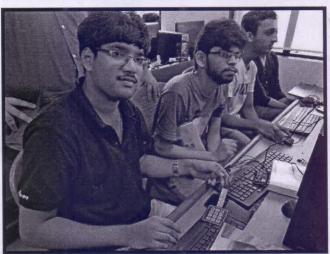
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Student Coordinator

Staff Coordinator



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Brief Activity/Event Report

1. Name of the Activity/Event : Summer Training Program 2019 - EMBEDDED SYSTEMS

2. Activity/Event Venue & Date: 18 JUNE 2019 - 28 JUNE 2019

3. Nature of Participants : Students of FCRIT / Staff of EXTC DEPT

4. Number of Participants : 28 (27 STUDENST, 01 STAFF MEMBER)

5. Student Coordinator :-

6. Staff Coordinator : Dr. Pranali Choudhari

7. Brief Summary of the Activity/Event (in maximum 500 words):

Objectives

The program aimed to bridge the gap between theoretical knowledge and hands-on practical learning. Students benefit from the experience and knowledge they take away from this program and it would also help them in their further academics as well as career aspects. The program provides a leap in the students' learning boosts their confidence in applying what they've learnt in creating applications that benefit the society and help them to grow as an engineer. Also students would get a good grip on programming their systems.

b. Technical Description

The 10 day program based on embedded systems involved detailed learning about Embedded Systems, its history, basic concepts and its applications in real world. Students also learnt about Microcontrollers w.r.t embedded systems, their difference from Microprocessors and the need to learn about them. The program also involved basics of Python programming, a language which is most widely being used in the up and coming development industries, and using it to learn some projects on Raspberry Pi.

SOFTWARE PLATFORM USED FOR PROGRAMMING: MBED (mbed.com)

Mbed is a free online compiler used for writing and compiling programs for embedded systems and boards. It provides a well arranged environment to develop and save codes and also upload/download project codes. It also contains provisions to import libraries and use them as well as provide information about various embed boards and their

Student Coordinator

Staff Coordinator

HOD

88/26-7-19

Note: This course was under by Mr Gaurar singh and his team faton We Can Education Nevel along with Dr. Pranai Choudhari



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specifications. It is the perfect environment to develop embedded systems projects and hence throughout the course period we have used mbed.com for training.

HARDWARE DEVICES USED AND VARIOUS COMPONENTS:

 FRDM KL25Z : A development board built on ARM Cortex M0+ processor.



16 x 2 Character LCD : A basic LCD to display outputs of the program from KL25Z.



 Ultrasonic Sensor: Ultrasonic sensors measure distances based on transmitting and receiving ultrasonic signals.



4. PIR: A passive infrared sensor (PIR sensor) is an electronic sensor that measures infrared (IR) light radiating from objects in its field of view.



 LDR: An LDR is a component that has a (variable) resistance that changes with the light intensity that falls upon it. This allows them to be used in light sensing circuits.



DHT 11: DHT11 is a commonly used Temperature and humidity sensor.





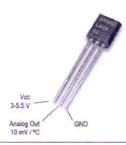




Department of Electronics & Telecommunication Engineering

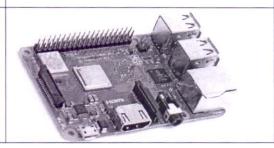
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Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

 LM35 Temperature Sensor: The LM35 series are precision integrated-circuit temperature devices with an output voltage linearly-proportional to the Centigrade temperature.



 Raspberry Pi 3B+: The Raspberry Pi is a low cost, credit-card sized computer that plugs into a computer monitor or TV, and uses a standard keyboard and mouse. Matrix Keypad: A Matrix keypad is the most commonly used input device in many of the application areas like digital circuits.





SOFTWARES USED:

- 1. C++ for mbed programming.
- 2. Python3 for raspberry pi programming.
- 3. Anaconda for python: A complete environment providing all the necessary software to code in Python.

HANDS-ON PRACTICALS:

- Printing onto LCD, manipulating the format of printing, scrolling alphabets, importing TextLCD library.
- LDR used for detecting light intensity and switching led on or off accordingly, while displaying intensity values on LCD.



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- Accelerometer: The built in accelerometer on KL25Z used to detect flatness of a surface, changing LED color on each different axis, while also displaying the axis values on LCD. Importing the necessary libraries also taught.
- Touch Sensor: Built in touch sensor on KL25Z used to detect touch and change LED output for each touch detected on different portion of the touchpad.
- 5. Blinking LED in different colors and time intervals.
- 6. Ultrasonic sensor used to find distance, and displaying the distance on LCD.
- 7. PIR to detect intervention.
- 8. Setting up, starting and booting Raspberry Pi, also flashing Raspbian OS.
- 9. Face detection on Raspberry Pi.
- 10. OCR on Raspberry Pi.

FINAL PROJECTS FOR PRACTICAL EXAM:

- ✓ Calculator using Matrix Keypad with mbed board.
- ✓ Human Intervention detection using PIR and buzzer alarm for alerting.
- ✓ Temperature and humidity monitoring using DHT11 sensor.
- ✓ Detecting temperature using LM35 sensor and turing motor speeds low,mid and high accordingly to drive a fan.
- ✓ Displaying 3- axis co-ordinate value each on different button press on a 4x1 matrix.

Outcomes

At the end of the course, Students will be able to:

- 1. Gain detailed knowledge about embedded systems, its requirements and applications.
- 2. Learn the basics of programming, its types and API style of programming.
- 3. Learn programming in C++.
- 4. Get to know different micro-contoller boards, their specifications and applications.
- 5. Learning to read datasheets and reading pin configurations to identify pins on the board.
- 6. Learning about various peripheral sensors, electronic communication and its protocols, and connections.
- 7. Studying important basics of sensor functioning, like accelerometer.
- 8. Learning to import libraries and use the predefined functions to ease coding.
- 9. Building real, live and useful projects and working as a team.
- 10. Learning about micro-processors.

Staff Coordinator

HOD

Student Coordinator



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- 11. Setting up Raspberry Pi and flashing the OS.
- 12. Learning Python3 programming.
- 13. Gaining confidence to build bigger, more complex projects and presenting it to an audience.

Summary of Feedback

: Attached along with.

pos polo and polo are getting mapped with this course and based on Flb the attainment lovel for above

Action to be Taken based on Feedback: Nil

Po's is 13!

Activity / Event Photograph :







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Student Coordinator

Staff Coordinator

8E/





National University Students' Skill Development Programme



Report 8th July 2019



- Introduction
- About NUSSD Courses
- Objective of the Programme
- Progress so far Batch I
- Session Content
- Assessment for Batch I
- Progress so far Batch II
- Workshops and Seminars
- Feedback from Students
- Participants List

Fr. C Rodrigues Institute of Technology (FCRIT)

INTRODUCTION

The employability of India's university graduates continues to remain weak even while there is an acute shortage of skilled manpower in an increasing number of high demand sectors. Though they have educational degrees, they lack the skills and the experience to get employed.

Skilling youth to enhance their employability and enabling them to be effective contributors to the nation's growth and development assumes paramount importance in the current context.

The Tata Institute of Social Sciences has been working to reach the youth through an innovative programme called 'National University Students' Skill Development (NUSSD)' for the same purpose. The aim is to enable the youth enrolled in the various degree programs in Colleges and Universities in India to acquire skills that would give them a certificate/diploma in a specific high demand domain area in addition to their degree.

ABOUT NUSSD PROGRAMME

The National University Students' Skill Development (NUSSD) Programme is a unique initiative on skill development designed and undertaken by the Tata Institute of Social Sciences (TISS). The programme was initiated in 2013 in collaboration with Ministry of Youth Affairs and Sports, Government of India (Gol) and National Skill Development Agency (NSDA), GoI to enable graduating youth acquire employable skills while pursuing their graduation or post-graduation so that they are job-ready as and when they pass out from the colleges. After completion of a successful pilot in 34 colleges of 11 Universities, spread across 9 States, the programme is being implemented across 120 colleges, including Engineering and Management colleges. Currently, the programme covers a student population of more than 20,000, spread across several states in the country.

NUSSD offers **Certificate Programme in 'Management and Soft Skills'** for students who are pursuing their Engineering and Management and a skill-linked domain courses leading to a Diploma (e.g. Diploma in Entrepreneurship) in parallel to their regular coursework. The classes are held in the participating College or University and the programme is designed on a schedule that minimizes disruption of work and personal pursuits of participating students.

❖ NUSSD PROGRAMME AIMS AT:

- 1. Enhancing employability skills of students to have a suitable career option after graduation.
- 2. Develop skills, competencies and knowledge to intervene in an equal and sustainable manner in the social and economic development of people.
- 3. Foster socially conscious students grounded in respect for people and concerned about the welfare of others.

CERTIFICATE IN MANAGEMENT & SOFT SKILLS:

All students enrolled for NUSSD will gain competency in following areas - (Compulsory Foundation Courses for professional competencies):

SN	Name of the Course	Theory Hrs	Practical	Total Hrs
1	English Communication	60	-	60
2	Youth Leadership and People Skills	45	-	45
3	Analytical Skills	30	30	60
4	Legal Literacy	30	-	30
5	Financial Literacy or Introduction to Entrepreneurship or Digital Literacy	45	30	75
6	Employability Skills	30	-	30
	Total	240	60	300

OBJECTIVE OF THE PROGRAMME:

It is expected that the successful implementation of NUSSD programme will enhance employability of the participants to a considerable level and enable them to gain certification which is recognized by Industry for skills and competencies, and will help in enhancing employability of the graduates both locally and nationally.

A good number of skilled graduates emerging as transformational leaders after the successful completion of the course. Eventually, the availability of skilled human resources will be in several million college graduates.

FCRIT & NUSSD, TISS decided to collaborate in order to enable the students to enhance their skills and become employable.

Currently there are two batches that are being offered the NUSSD Programme at FCRIT. **Batch I** comprise of second-and third-year students and **Batch II** comprises of second year students from Information Technology, Mechanical, Electronics & Telecommunications, and Computer Science departments.

PROGRESS SO FAR - BATCH I:

<u>S.NO</u>	SESSION NAME	TRAINER NAME	COMPLETION STATUS
1	Youth Leadership & People Skills (Effective Communication, Time Management & Stress Management, SWOT Analysis & Mind Mapping)	Mr. Shijin Sreeraman, Ms. Leela Banerjee, Ms. Khushboo Mehta	Complete
2	Financial Literacy	Ms. Sumithra Ramesh & Ms. Gayathri Arvind	Complete
3	Introduction to Entrepreneurship	Mr. Amit Mere, Prof Satyajit Majumdar	Complete
4	English Communication	Ms. Bindu Swaminathan Prof. Vineeta Dwivedi, S P Jain Institute of Management & Research	Complete
5	Legal Literacy	Adv. Darshan Ingole Dr. D.K Sonawane, Faculty of LLM from University of Mumbai. He was a former Judge.	Complete
6	Analytical Skills	Mr. Aakash Sinha	Complete
7	Employability Skills	Mr. Aakash Sinha	Complete

SESSION CONTENT

❖ YOUTH LEADERSHIP & PEOPLE SKILLS (YLPS)

The course Youth Leadership and People Skills (YLPS) is divided in 3 sections and each section looks at specific inputs to develop inner capacity & confidence, skills & knowledge and competencies & understanding.

The students went through a journey of self – discovery, awareness of one's power and valuing diversity. They began with aspects of the self, sourcing inner power, practicing deep listening, assertiveness & managing stress. Further they progressed to Interaction Competencies & Skills including verbal & nonverbal communication skills, influencing skills, managing conflict & managing

time. Intervention Skills and Competencies like speaking responsibly, team building, decision making, resilience & stages of leadership helped in developing capacity to manifest one's full potential.

The YLPS course has benefitted students to be aware of self and sensitive towards others present around. They displayed actions through which it was evident how they respect others views and worked together as a team. It has thoroughly been a transformational journey for the students.

❖ FINANCIAL LITERACY

Financial Literacy is the combination of financial knowledge, skills and attitude and behavior necessary to make effective financial decision based on individual circumstances in order to have financial wellbeing.

With the expansion of banking services and incorporation of technology, the financial transactions have increased in the recent time. It has become necessary for students to understand basic money management skills like living within a budget, credits debt in the current consumer society to operate various transactions on online shopping, e-commerce sites, internet banking and in day-to-day consumption activities.

Students gained insights on various concepts like basics of Banking, Mutual Funds, Capital Markets, and Insurance. They thoroughly enjoyed doing the project work.

❖ INTRODUCTION TO ENTREPRENEURSHIP

This is an introductory module designed for all the students. This course provides an opportunity for the students to appreciate and understand the core of entrepreneurship. The topics covered include: understanding of the self, goal setting, working in team, and key process in entrepreneurship. The core process in entrepreneurship and an individual's journey to entrepreneurship/decision to become an entrepreneur is introduced by creating an environment of experiential learning through games, role plays and field works. This course gave clear understanding on what is really required and what approach one must have while considering to start his/her own venture.

❖ ENGLISH COMMUNICATION

English for Communication is a multi-level course in English for young adults. The course covers the four skills of listening, speaking, reading, and writing. The primary goal of the course is to develop in the learners an ability to communicate effectively and to be able to use language for real-life functions.

❖ LEGAL LITERACY

Legal literacy is a short course that is useful in developing a basic understanding of the Indian legal system and laws, as would apply to an ordinary person. It is extremely important in empowering the students with basic rights and enlisting their involvement in ensuring rule of law and good governance. Topics covered include amongst others Nature of the Indian Legal system, Basics of criminal law, juvenile law, consumer and contract laws, labour laws and RTI.

❖ ANALYTICAL SKILLS

Data analysis and interpretation of data to take meaningful decisions is an essential skill irrespective of stream, domain of work or skill level. It is a cross-functional skill that may be applied across manufacturing, services, infrastructure or any other type of industry, whether for employment or for entrepreneurial ventures. The Analytical Skills module covered topics such as Data analysis, Data interpretation, Probability, Permutations and Combinations and so on. This session was highly appreciated by the students.

❖ EMPLOYABILITY SKILLS

These skills are necessary for getting, keeping and being successful in a job. Some of the topics that will be covered here are – Communication, Teamwork, Problem solving, Initiative and enterprise, Planning and organizing, Self-management, Learning, Technology, CV writing, Group discussions, how to face interview, public speaking, presentation skills etc.

Students gained and enjoyed the activity-based sessions. Various topics like Decision Making, Negotiation Skills, Creative Thinking, Resume Writing, Interviews etc. were covered.



ASSESSMENT For Batch - I

The final assessment for Batch - I was scheduled on July 7, 2019 (Sunday)



PROGRESS SO FAR - BATCH II:

S.NO	SESSION NAME	TRAINER NAME	COMPLETION STATUS
1	Youth Leadership & People Skills	Ms. Khushboo Mehta	Complete
2	Introduction to Entrepreneurship	Prof Satyajit Majumdar	In progress

WORKSHOPS AND SEMINARS

❖ September 28, 2018: NUSSD and FCRIT organized a special expert session on 'Entrepreneurship – Whys & Hows' for the NUSSD students of FCRIT on 28 September, 2018. The session was conducted by Prof. Satyajit Majumdar, School of Management and Labour Studies at TISS and his colleague, Mr. Raviraj Durwas, Program Manager, School of Management and Labour Studies at TISS was also the co – facilitator of the session. The session was attended by undergraduate students from the second and third year of IT, Mechanical, Elect, Comp. Science from FCRIT.







- **❖ February 09, 2019**: A series of workshops were conducted by eminent speakers at Fr. C.R.I.T College. Students from NUSSD batch I & II attended the session.
 - Session I: English Communication by Prof. Vineeta Dwivedi from S P Jain Institute of Management & Research
 - Session II: Legal Literacy by Dr. D.K Sonawane, Faculty of LLM from University of Mumbai. He was a former Judge.
 - Session III: Performance evaluation/ Appraisal in organizations by Mr. Tanmay Nayak, Director, NUSSD.
 - Session IV: Technology disrupting the HR function by Mr. Bipin Shrestha, Cluster (Product) Head, TCS Chroma Product.



FEEDBACK FROM THE STUDENTS



Sumedha Mukherjee

The one-day workshop conducted in February was beautifully executed to bring together research and experience. I appreciate getting the chance to interact with professionals from various disciplines. I found it really insightful and interesting. The workshop was also very interactive, which profited all the participants enormously. Thank you TISS for this wonderful opportunity.



Harman Rayat

Being an engineering student is a tough job. The assignments and projects coupled with weekly tests take a toll on you and slowly starts to wash away your interactions with other people. These sessions and workshops definitely helped me to figure out more about myself and helped me boost my confidence by making me interact with people I have never spoken to before and also encouraged public speaking. I can certainly say that joining TISS has been a great experience.



Vaibhav Tiwari

The sessions on Analytical skills and Employability skills were well organized. Topics on Resume Building provided a great insight to the fine points to be considered while building one. Mock interview held during the session emphasized on the etiquettes to keep in mind while going for interviews. Aakash Sinha Sir made the sessions interactive which made the learning process more effective.



Vaidehi Shelar

The sessions on Analytical & Employability skills were really helpful. Aakash Sinha sir made the sessions very interactive and interesting. The activities helped us understand and enjoy the topics better. Overall it was a good experience.



Marlyn Binu

TISS conducted one of the best workshops that I have ever attended. It was a proper blend of Public Speaking Skills, Indian Judiciary & Financial Management that a youth of this country should know. I got tons of knowledge out of this workshop and I am leaving inspired and confident!



Roumil Sharma

The session on Entrepreneurship was very insightful & interactive. The examples presented were easy to relate to current trends of being an Entrepreneur. The concept of understanding the market, being an observer, listening to customer needs, humility in your work were just some of the virtues that made the session enlightening. It was a pleasure to have Prof. Satyajit Sir and Mr. Raviraj Durwas Sir to let us take a peek in the world of Entrepreneurship.



Akhil. M.V

I found the session on Entrepreneurship very useful. I especially liked the example about Thomas Edison's Bulb and the strategy to collaborate with GE. It was an eye opener that an entrepreneur must focus on needs fulfillment rather than focusing on the product itself.

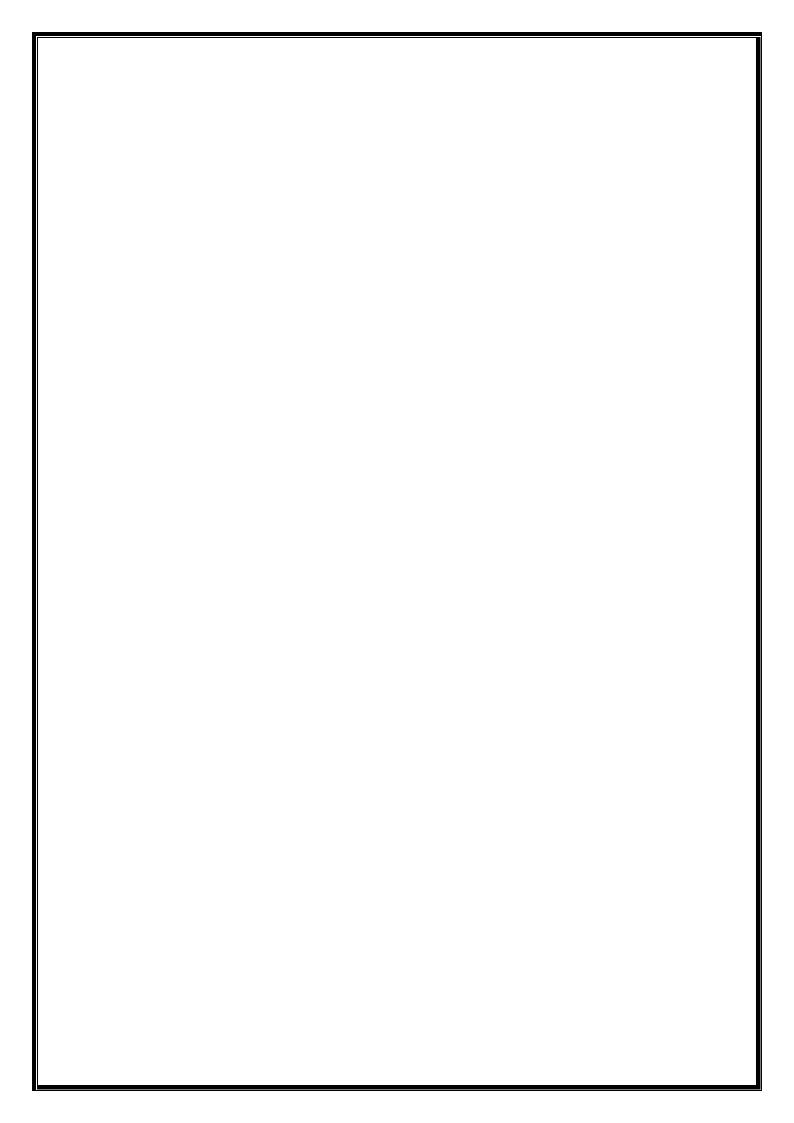
FCRIT - BATCH - I

SR. NO.	NAME OF STUDENTS	STREAM
1	ELVIS D'COSTA	IT-6
2	ROUMIL SHARMA	IT-6
3	LASYA VADA PALLY	IT-6
4	VAIBHAV SUVARNA	IT-6
5	SARVESH TULAPURKAR	IT-6
6	TANYA SERAH JACOB	COMP-4
7	ANNIE GRACE	COMP-4
8	KRANTI SHINGATE	COMP-4
9	VAIDEHI SHELAR	EXTC
10	VAIBHAV TIWARI	EXTC
11	AKHIL M.V.	EXTC
12	MERIN JOSE	EXTC
13	REEMA ANNE ROY	EXTC
14	TIASHA	EXTC
15	ASHELY	EXTC
16	KOUSHIK R.	EXTC
17	JOBIN SAMSON	EXTC
18	GYANDIP MALLHI	COMP-6
19	GURVIR SINGH	IT-4
20	ARYA KULKARNI	COMPS-4
21	ASHRIEL SAMSON	COMPS-4
22	MAITREYEE NILESH LIKHITE	EXTC-4
23	HUMERA R KHAN	EXTC-4
24	VARSHA KESAVAN	EXTC-6
25	MANIKANDAN	ELEC-4
26	KEYUR SANGWAI	MECH-4
27	AGNEL THOMAS	МЕСН 6
28	RENJU JOSE	МЕСН 6
29	ROHAN JOHN	МЕСН 6

30	JOEL THOMAS	MECH 6
31	KEVIN JISSO	МЕСН 2
32	JOHN ROY	MECH 2
33	KELVIN ANTONY	MECH 4
34	NAEEM NIYAZ AHMED PATEL	COMPS-4
35	MELVIN MONCY JOSEPH	MECH 4
36	JINI ELIZABA BIJU	EXTC
37	TANVI DHAKATE	IT
38	GLANDA MENDEZ	IT

FCRIT – BATCH – II

S.NO	NAME OF STUDENTS	STREAM
1	EMMANUEL VAZ	MECH
2	VINEET ABRAHAM	MECH
3	RISHI AGARWAL	MECH
4	CINERITA ANDRADES	MECH
5	HEMANT AGARWAL	MECH
6	ABHISHEK PANDEY	MECH
7	MARLYN BINU	MECH
8	ADITYA MANE	MECH
9	SPANDAN BHATTACHARYA	MECH
10	TANAY IYER	MECH
11	JOSE CHIRAMEL	MECH
12	TRAYAMBAK GOUR	COMPS
13	CYNTHIA PATIL	EXTC
14	PRANAV DEEPAK	EXTC
15	AKANSHA CHANDEVAR	EXTC
16	VINISH LOUIS	IT
17	SUMEDHA MUKHERJEE	IT
18	NIKITA SURYAVANSHI	IT
19	NIKUNJ GAONKAR	IT
20	HARMANJYOT GAUR RAYAT	IT
21	SAKSHI KHOSE	IT
22	PRATHAMESH NERKAR	IT
23	ANIKET GHODINDE	IT
24	VARAD MORE	IT
25	MERIN ABRAHAM	IT
26	DAVID SASHA FRANKLIN	IT
27	KAUSHIKI SHARMA	ELEC
28	NIKITA BHOLE	ELEC





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Brief Activity/Event Report

Name of the Activity/Event : MOU between Endeavor and Fr.CRIT

2. Activity/Event Venue & Date :17th August 2017

3. Nature of Participants

: Students of Computer

4. Number of Participants

: 218

5. Student Coordinator

: Ms. Gloria Benny

5. Staff Coordinator

: Mrs. Shweta Tripathi

7. Brief Summary of the Activity/Event (in maximum 500 words):

Objectives

: To create awareness and train students technically on

Higher studies

 Technical Description : The trainer from Endeavor spoke about competitive exams for further studies in India after engineering like CAT, GATE, UPSC Exams. He also enlightened us about the important life skills one should have as well as the necessary things required to be a successful and a happy person in life.

Cutcomes

: Students were encouraged to take up higher studies.

3. Activity / Event Photograph :





Tenument of Computer Engineering



Academic Year: 2016-17



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Brief Activity/Event Report

1. Name of the Activity/Event : MOU between EC Council and Fr.CRIT

2. Activity/Event Venue & Date :3/3/2017 - 12/3/2017

3. Nature of Participants : Students of Computer & IT Department

4. Number of Participants : 20

5. Student Coordinator : Mr. ALok Chilka

6. Staff Coordinator : Mrs. Shweta Tripathi/Mr. Mritunjay Ojha

7. Brief Summary of the Activity/Event (in maximum 500 words):

a. **Objectives** : To create awareness

: To create awareness and train students technically on Ethical Hacking

 Technical Description : EC-Council is a global leader in InfoSec Cyber Security certification programs like Certified Ethical Hacker and Computer Hacking Forensic Investigator. To enrich students of Agnels in the field of Cyber Security and hacking this MoU was signed. CEH Certified trainer conducted the training

8. Outcomes : All 20 students were certified by EC Council as Ethical Hackers



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9. Activity / Event Photograph:



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secur	Ty cell to tra Will no to conduct remoded — research CYDERCRIMINALS ON THE PROVID. **TOTAL STATE OF THE PROVID. **TOTAL ST	in students exper laud, speed warmone **British and the state of the	Storm Coal Park



H.O.D

Department of Computer Engineering



Academic Year: 2014-15



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Brief Activity/Event Report

1. Name of the Activity/Event : Workshop Training Program 2015 – "EMBEDDED

SYSTEMS Design on MSP 430"

2. Activity/Event Venue & Date: 10-13 September 2015

3. Nature of Participants : Students of FCRIT / Staff of EXTC DEPT

4. Number of Participants : 32 (31 STUDENST, 01 STAFF MEMBER)

5. Student Coordinator :- Nadar Prince

6. Staff Coordinator : Yogesh Chandurkar

7. Brief Summary of the Activity/Event (in maximum 500 words):

This course was conducted by Gill Instruments (GI) - a Texas Instruments 3rd Party providing Design and Training services on MSP 430 Product Family (TI), a private limited company having its office at Plot No 110-0/1, Opp. Hotel Radha Regent, 1st Phase, Electronic City, Bangalore - 560100 represented by Mr. Gurjeet Gill, as Director.

In coordination with Prof. Yogesh Chandurkar, Assistant Professor, EXTC deptt., FCRIT Vashi.

a. Objectives

The program aimed to bridge the gap between theoretical knowledge and hands-on practical learning on microcontroller based systems. Students benefit from the experience and knowledge they take away from this program and it would also help them in their further academics as well as career aspects. The program provides a leap in the students' learning boosts their confidence in applying what they've learnt in creating applications that benefit the society and help them to grow as an engineer. Also students would get a good grip on programming concepts of embedded systems.

b. Technical Description

The 4 day program based on embedded systems involved detailed learning about Embedded Systems, its history, basic concepts and its applications in real world. Students also learnt about Texas Microcontrollers MSP 430 w.r.t embedded systems, their difference from Microprocessors and the need to learn about them. The program also involved basics of embedded C, Assembly

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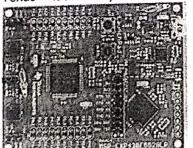
coding for critical section and modular programming using CCS (Code Composer Studio) used in industries, and using it to learn some application based projects on MSP 430. Some the sample case studies taken are - single phase energy meter, digital thermometer, RTC, speedo meter and finally application of MSP 430 to wireless sensor network, field of agriculture, building automation, bio-medical instrumentations, Embedded Web Server.

SOFTWARE PLATFORM USED FOR PROGRAMMING: MSP 430 (Texas kit-Launch pad)

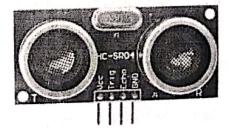
TI's Launch pad kit based on MSP 430 is a used as development kit (MSP430F5529 USB LaunchPad Evaluation Kit) for programming and system design. It provides a well arranged environment to develop and save codes and also upload/download project codes. It also contains provisions to import libraries and use them as well as provide information about various embed boards and their specifications. It is the perfect environment to develop embedded systems projects and hence throughout the course period we have used TI's launch pad for training.

HARDWARE DEVICES USED AND VARIOUS COMPONENTS:

pad-MSP 430 launch Texas



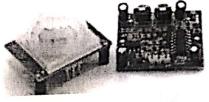
Ultrasonic Sensor: Ultrasonic sensors based on distances measure receiving and transmitting ultrasonic signals.



kit. 2. 16 x 2 Character LCD: A basic LCD to display outputs of the program from KL25Z.



4. PIR: A passive infrared sensor (PIR sensor) is an electronic sensor that measures infrared (IR) light radiating from objects in its field of view.



86) HOD

Student Coordinator



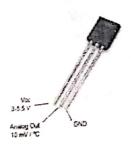
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- 5. LDR: An LDR is a component that has a (variable) resistance that changes with the light intensity that falls upon it. This allows them to be used in light sensing circuits.
- 6. DHT 11: DHT11 is a commonly used Temperature and humidity sensor.



- 7. LM35 Temperature Sensor: The LM35 series are precision integrated-circuit temperature devices with an output voltage linearly-proportional to the Centigrade temperature.
- 8. Matrix Keypad: A Matrix keypad is the most commonly used input device in many of the application areas like digital circuits.





SOFTWARES USED:

- 1. Embedded C for launch pad programming.
- 2. Proteus for circuit simulation
- 3. CCS (Code composer studio)

HANDS-ON PRACTICALS:

- 1. Printing onto LCD, manipulating the format of printing, scrolling alphabets, importing
- 2. LDR used for detecting light intensity and switching led on or off accordingly, while displaying intensity values on LCD. 881

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- 3. Accelerometer: The built in accelerometer on KL25Z used to detect flatness of a surface, changing LED colour on each different axis, while also displaying the axis values on LCD. Importing the necessary libraries also taught.
- 4. Blinking LED in different colours and time intervals.
- 5. Ultrasonic sensor used to find distance, and displaying the distance on LCD.
- 6. PIR to detect intervention.

Some hands-on examples executed:

- √ 4line LCD interfacing
- √ Timer programming
- ✓ Efficient interrupt handling.
- ✓ Interfacing matrix Keypad
- \checkmark Human Intervention detection using PIR and buzzer alarm for alerting.
- ✓ Temperature and humidity monitoring using DHT11 sensor.
- ✓ Detecting temperature using LM35 sensor and turning motor speeds low, mid and high accordingly to drive a fan.
- ✓ Accelerometer interfacing.

Outcomes

At the end of the course, Students will be able to:

- 1. Gain detailed knowledge about embedded systems, its requirements and applications.
- 2. Learn the basics of programming, its types and API style of programming.
- 3. Learn programming in embedded C.
- 4. Get to know different micro-contoller boards, their specifications and applications.
- 5. Learning to read datasheets and reading pin configurations to identify pins on the board.
- 6. Learning about various peripheral sensors, electronic communication and its protocols,
- 7. Studying important basics of sensor functioning, like accelerometer.
- 8. Learning to import libraries and use the predefined functions to ease coding.
- 9. Building real, live and useful projects and working as a team.
- 10. Learning about micro-processors.
- 11. Setting up CCS (code composer studio).

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12. Gaining confidence to build bigger, more complex projects and presenting it to an audience.

Summary of Feedback

: Attached along with

PO5, OPO10 and PO12 are getting mapped with this course and based on feedback the attainment level for the above PO's is 3.

Action to be Taken based on Feedback:

Activity / Event Photograph:





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851

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86A HOD

TI India university program

Feedback form

TI university program technology for tomorrow's innovators

TI India university program www.ti.com/univ-in

Forging Relations between Indian Universities & Texas Instruments

www.ti.com/univ-in

Thank You for your valuable feedback! We need you r feedback! Thanks for taking five minutes of your time to complete this form. Please hand it back to the instructor after you fill it out.

702

A - Please Introduce yourself

Nadar Prince	
Profession (Student/Faculty/Others)	The dia university Progra
Student	C - Feedback on TI India university Progra
Department	
EXTC	How do you keep in touch with TI India
Organization	University Program (Tick one of more):
FR. Agnels	1. Tl India University e2e Zone
Email Id	2. E-newsletter
nadarprince4@gmail.com	3. University Program Website
	3. 3.University Program re-
Mobile Number	4. Tl's University Partners
_9404178085	5. Email/Phone calls
	6. TI India Facebook
December to the plant on the mailing list	7. Other
Do you wish to be place on the mailing list	
and receive product information from TI? Yes	 How often do you visit TI University Program
or No	website?
Yes	1. Not aware of website
B – Description of the event you attended	2. Rarely
	3. Once in a year
Title of the Event	4. Once a quarter
MSP430	5. Every month
	6. Weekly/more Frequently
	How often do you visit TI Website?
Date	1. Not aware of website
13 th	2. Rarely
September	3. Once in a year
Venue	4. Once a quarter
Fr.Agnels	5. Every month
How did you come to know about the event?	6. Weekly/more Frequently
	Which TI product are you using currently (Ti
Through TI mailing list	one or more)
	1. DSP
2. Through the institution where the event is	2. MSP430
held	3. C2000
	4. Stellaris /Hercules
3. Through TI's University Partners	5. Analog
	6. Low Power Wireless
4. Through TI University Program website	7. Sitara MPU
5. Other – Please specify	8. Other
	How do you rate our communication (e-
	Newsletter, Website, TI India Facebook, TI
	University Program Group on TI e2e
	community, Blogs & Twitter)?
	1. I have not used them
	2. Don't Find them useful
	3 Not sure
	4. Sometimes read about TI Technologies
	and projects
	Very good, Helping in improving teaching
	/ Jearning skills
	6. Excellent, Helps in improving R&D skills

- How TI India University Program is helping you in your profession? Please Comment (Feel free to send e-mail to uniti-feedback@list.ti.com
 - D feedback on the event you attended
- Comment on the relevance and information content of the event
 - 1. Can be better
 - 2. Not sure
 - 3. Good
 - 4. excellent
- Comment on the instructor's knowledge and explanations
 - 1. Can be better
 - 2. Not sure
 - 3. Good
 - 4. excellent
- Was the instructor open to Q&A?
 - 1. Can be better
 - 2. Not sure
 - 3. Good
 - 4. excellent
- Were the hands-on lab sessions satisfactory? (if applicable)
 - 1. Can be better
 - 2. Not sure
 - 3. Good
 - 4. excellent
- Please comment on the arrangements
 - 1. Can be better
 - 2. Not sure
 - 3. Good
 - 4. excellent
- Do you think registration fee for this event / workshop seminar / conference is
 - 1. Too High
 - 2. Not Sure
 - 3. Too Low
 - 4. Reasonable
- Tell us about two things that you liked about the event

M:	P430 is an excellent processor
Things simpil	I liked were hands on experience and ity of the development board.

Tell	us about two things that could be don
bett	er
Mak	ke us do more
acti	vities.

For your future reference

The TI India University Program helps the educators and engineering student community from Indian Universities to achieve more in their research and learning initiatives



Our activities include:

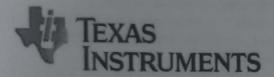
- 1. Setting up MCU, MPU DSP, Analog and LPRF Labs in universities with the help of our educational partners
- Communicating with Universities through:-
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Contacts:

Dr.C.P.Ravikumar, Director University Relations, TI India
Email Id – <u>ravikumar@ti.com</u>
Contact no: 080-25099727



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"Positive Feedback makes the strong grow stronger and the weak grow weaker"

-Carl Shapiro

"Negative Feedback is better than none"

-Hugh Prather