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3.2.1 (Sample Proofs)

Innovation Ecosystem

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

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

Ref.: CRCE / 2016 / 059

Date : February 5, 2015.

NOTICE

Intellectual Property Rights (IPR) Cell has been constituted in our Institute. This cell will provide guidance to students and faculties in IPR related matters. Constitution of IPR Cell is as follows:-

Sr.No	Name	
1	**Dr.Bhushan Patil**	**Coordinator**
2	**Dr. Vasim Abdul Majid Shaikh**	**Member**
3	Mr. Mahendra Chandrasingh Mehra	Member
4	Mrs. Binsy Joseph	Member
5	Mr. Vaibhav Vasant Godbole	Member

All interested students and teachers can take their help in IPR related matters.

(DR. SRIJA UNNIKRISHNAN)
PRINCIPAL

MOULDING ENGINEERS WHO CAN BUILD THE NATION

Report of IDEA COMPETITION 2019

Institute Innovation Council – Fr.C.R.C.E. Bandra. (IIC-FrCRCE), organized the event "IDEA COMPETITION" to harness the project ideas which are buzzing in the mind of the students. The aim of this event was to provide a platform to showcase their ideas and take a step to convert it to a real working model. Participants were expected to use their creativity to develop innovative, cost-effective and practical ideas and present them in terms of poster presentations. Idea Proposals were evaluated by a team of research, industry and domain experts. Shortlisted ideas will get the chance to move to design competition and compete in the project competition.

Major focus of this event:

- To create a vibrant local innovation ecosystem.
- Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas.
- Develop better Cognitive Ability amongst Technology Students.

Name of the event: ***IDEA COMPETITION 2019***.
Date of event: ***MARCH 16TH 2019, 9.30AM-3.00PM***
Location of the event: *Fr. C.R.C.E. Bandra*
Sponsoring organisation: *Fr.C.R.C.E. Bandra*
Total number of teams registered: **34**

Event Summary

Teams submitted their idea(s) in the form of proposal**. Ideas** were shortlisted for final presentation on the basis on novelty, technologies used, technical and financial feasibility and market survey **by IIC members.**

Each team was provided with 15 mins slot for poster presentation, out of which 10 mins were allocated for presentation by the students and 5 mins were allocated for question and answer session between judges and the team.

No. of total teams submitted the proposals: **54**
No of Shortlisted teams: **45**
No of registered teams: **34**

Themes

1. Health Care
2. Agriculture & Rural Development
3. Energy
4. Environment
5. Others

Evaluation Committee

Sr.No	Judge Name	Judge Details	Domain Expert
1	Mr. Shreekant Shiralkar,	Principal Consultant, Tata Consultancy Services. Mumbai	Data Science Energy
2	Mr.Gangan Rajendra	Founder and Executive Chairman, Conbuss Online Manufacturing Pvt Ltd	Energy
3	Dr. Sushil Thale	Dean R&D and Professor Dept. of Electrical Engineering, Fr. C. Rodrigues Institute of Technology, Vashi	Agriculture Others
4	Dr. Hemant Khanolkar	Dept. Of Humanities, Fr. Conceicao Rodrigues College of Engineering, Bandra-west	Healthcare and Environment
5	Mr. Manthan Dakshini	Co-Founder, Brillmax Private Limited, Mumbai-400064	Mechanical
6	Ms. Kamakshi Anantharaman	Client Engagement Manager, Quantiphi Analytics Solution Private Limited. Mumbai	Machine learning and Artificial Intelligence
7	Prof. Swati Ringe	Department of Computer Engineering, Fr. Conceicao Rodrigues College of Engineering, Bandra-west	President- IIC FrCRCE
8	Prof. Dileep Chandra	Department of Humanities, Fr. Conceicao Rodrigues College of Engineering, Bandra-west	IIC Convenor faculty
9	Prof. Kranti Wagle	Department of Electronics Engineering, Fr. Conceicao Rodrigues College of Engineering, Bandra-west	IIC Member faculty

Top three teams were declared immediately at the end of session:

First prize Winners: Idea - “Analysis of growth and planning of urbanisation and correlated changes in natural resources" , Participants Name: Edwin clement, Joshua Noronha,

Second Prize Winners: Idea -" IOT grid" , Participants Name: Edwin Clement, Joshua Noronha, Edison Arulraj

Third Prize Winners: Idea-" Tezz Logistics", Particpants Name: Prakhar Saxena, Ashoktezz B., Atharva Mane

Shortlisted Teams

Rank	Idea-No.	Idea-No.	Theme
1	Idea-2019-16	Analysis of growth and planning of urbanisation and correlated changes in natural resources	Environment
2	Idea-2019-37	IOT grid for smart city	Others
3	Idea-2019-54	Tezz Logistics	Others
4	Idea-2019-48	PsyCare-Mental Health Analyzer and Tracker	Healthcare
5	Idea-2019-43	Fingerprint Enabled Voting System	Others
6	Idea-2019-29	Bed Management software	Healthcare
7	Idea-2019-19	Solid Waste Management	Environment
8	Idea-2019-57	SEE-SAW STRAP CLAMP	Environment
9	Idea-2019-52	Application/web pages that identifies available parking spaces.	Others
10	Idea-2019-2	Virtual Assistant for Agriculture	Agriculture
11	Idea-2019-30	SAATHI: chatbot	Healthcare
12	Idea-2019-8	Agrotech : Jute based irrigation	Agriculture
13	Idea-2019-4	Real time object detection and weather Forecasting	Agriculture
14	Idea-2019-56	Bio-inspired Robotics, Amphibians frog Robot	Others
15	Idea-2019-49	Dynamic traffic signal control system	Others
16	Idea-2019-18	Citizen Feedback on Maintenance of Roads	Environment
17	Idea-2019-41	Facial Recognition Ticket Checking	Others
18	Idea-2019-5	E-Farmer	Agriculture
19	Idea-2019-58	Energy through open gym.	Energy
20	Idea-2019-14	Aerial Water Harvesting System using Theroresponsive Electrospun Fibres and Unmanned Aerial vehicle	Environment
21	Idea-2019-33	Brain Computer Interface	Healthcare
22	Idea-2019-1	Virtual Assistant Application for farmers	Agriculture
23	Idea-2019-39	Intellectual property Facilitation Centre management	Others
24	Idea-2019-53	Smart ATM	Others
25	Idea-2019-9	Smart Battery System	Energy
26	Idea-2019-38	Block chain based certificate validation	Others
27	Idea-2019-11	Block chain enabled energy storage and distribution solution	Energy

Sample Poster of Idea Presented.

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

IIC-CRCE AND ECELL-CRCE PRESENTS

Fr. Conceicao Rodrigues College of Engineering,Bandra (West)

THE IDEA COMPETITION

Idea No : 16

Analysis of growth and planning of urbanisation and correlated changes in natural resources

ABSTRACT

Our project focuses on developing a City Analysis and Development App.

- Focused on tracking changes over time in areas relying on satellite imagery.
- Predicts trends of urban growth and natural resources over time.
- Finds optimal location for social neccesities by figuring out high socio-economic growth

INTRODUCTION

In today's world, the World is moving to data based decision techniques. Urban city planning is a domain where the potential of the huge data records that governments keeps can be manifested.

By tapping into Satellite Imagery that has been opened to public and the public records, we aim to create a City Plan Assist System.

PROBLEM STATEMENT

This project aims at improving bringing the power of Data Science to Urban Planning. By utilizing the Satellite Imagery, infer the underlying patterns in city structure. Adding Land Registery data and further supplementary data to the system will provide actionable outputs to guide betterment of the local growth.

HARDWARE REQUIREMENTS

High Power Compute Systems. Ideally multi GPU System.

SOFTWARE REQUIREMENTS

The software stack that is going to be implemented in the system will be as follows:

- Online Satellite Data Extraction System from Government Websites(LANDSAT and SENTINEL)
- Web interface for the Urban Planners
- Deep NN for Segmentation of Satellite Data
- ANN for processing Land Use Data and converting to pros and cons of current Scenario
- Model for providing actionable output based on current scenario

SOCIETAL IMPACT

This project aims to ease the daily life of population and at the same time improve the city efficiency. Tiny changes in City structure can have a great impact on City happiness index. By this app and a great deal of effort, hard to spot issues can be denoted so that focused attention can be applied on pressing issues .

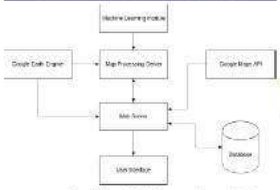
The Application will promote a social awareness for the common man that is untainted by the media and hype that inflates minor and diminishes the crux issues. It is our expectation that this will usher a better informed nation and empowered young population.

LITERATURE SURVEY

"Using convolutional networks and satellite imagery to identify patterns in urban environments at a large scale" - eprint arXiv:1704.02965

- The system will use map tiles sourced from google earth datasets and satellites like LANDSAT over the past few years and it will analyze it using an ANN. The Initial Labelling will be done manually. which will be then be improved with further samples using a supervised learning algorithm.

IMPLEMENTATION PLAN



Our network will be a feed-forward centralized neural network. We will be processing map tiles obtained from Sentinel or Landsat 8.Land use classification,which is segregation of different landforms such as forests, water bodies , urban areas , agricultural lands, etc. will be done by training the dataset by using paired sample data in our existing dataset.

MARKET POTENTIAL

- The current system is very intensive and manual process. Misinterpretation due to inattention and mental limitations are common.
- This system can be used by the government as well as public for general welfare.
- In the long term this system provides a huge improvement both as an analysis system and also as a platform for added functionality.

FEASIBILITY

1. Financial Feasibility - Compute requirements can be sourced by utilizing grants from institutions.
2. Economic Feasibility - The System will improve as the domain expertise of the experts are added to the knowledge base making the economic advantages increase throughout the lifespan of the system.

REFERENCES

[1]Shahreen, Fareea & Voghera, Angioletta. (2018). Urban planning and design methods for sustainable development

[2]Satellite Imagery Multiscale Rapid Detection with Windowed Networks, Adam Van Etten, arXiv:1809.09978 [cs.CV]

[3]"High-Resolution Global Maps of 21st-Century Forest Cover Change" - Science 15 Nov 2013: Vol. 342, Issue 6160, pp. 850-853 DOI: 10.1126/science.1244693

[4]"Using convolutional networks and satellite imagery to identify patterns in urban environments at a large scale" - eprint arXiv:1704.02965

Sample Evaluation sheet:

Fr.Conceicao Rodrigues College of Engineering
Idea Competition 2019

Reviewer(s) Feedback

ID					
Title					
(Not appropriate – 0, Most appropriate – 4)					
	0	1	2	3	4
Proposal 's suitability for the Competition					
Correlation between work done and title					
Originality					
Novelty					
Societal Impact					
Technical and Financial Feasibility					
Market Survey					
The technical content of the idea in terms of Theory is:					
Excellent	Good	Moderate	Poor		
The technical content of the idea in terms of Application is:					
Excellent	Good	Moderate	Poor		
Significant contribution of the idea to the theme:					
Excellent	Good	Moderate	Poor		
In this proposal- English and technical writing is:					
Excellent	Good	Moderate	Poor		
Overall paper rating:					
Excellent	Good	Moderate	Poor		
Comments to Students (Please write legible or type and use additional sheet if necessary):					

Organized By ECell-CRCE and IIC-CRCE, under MHRD, Govt. of India.

Participants Feedback Form

Fr. C. Rodrigues College of Engineering
MHRD IIC-Fr.CRCE and ECELL-CRCE presents

THE IDEA COMPETITION 2019

PARTICIPANT FEEDBACK FORM

Rate the following on scale of 5 (maximum) to 0 (minimum)

- **Your overall experience of presenting in competition** ☐
- **Idea Competition was up to your technical expectations** ☐
- **Technical team was prompt and helpful throughout** ☐

You would like to be contacted about such similar technical events in future (Tick the appropriate option) **YES / NO**

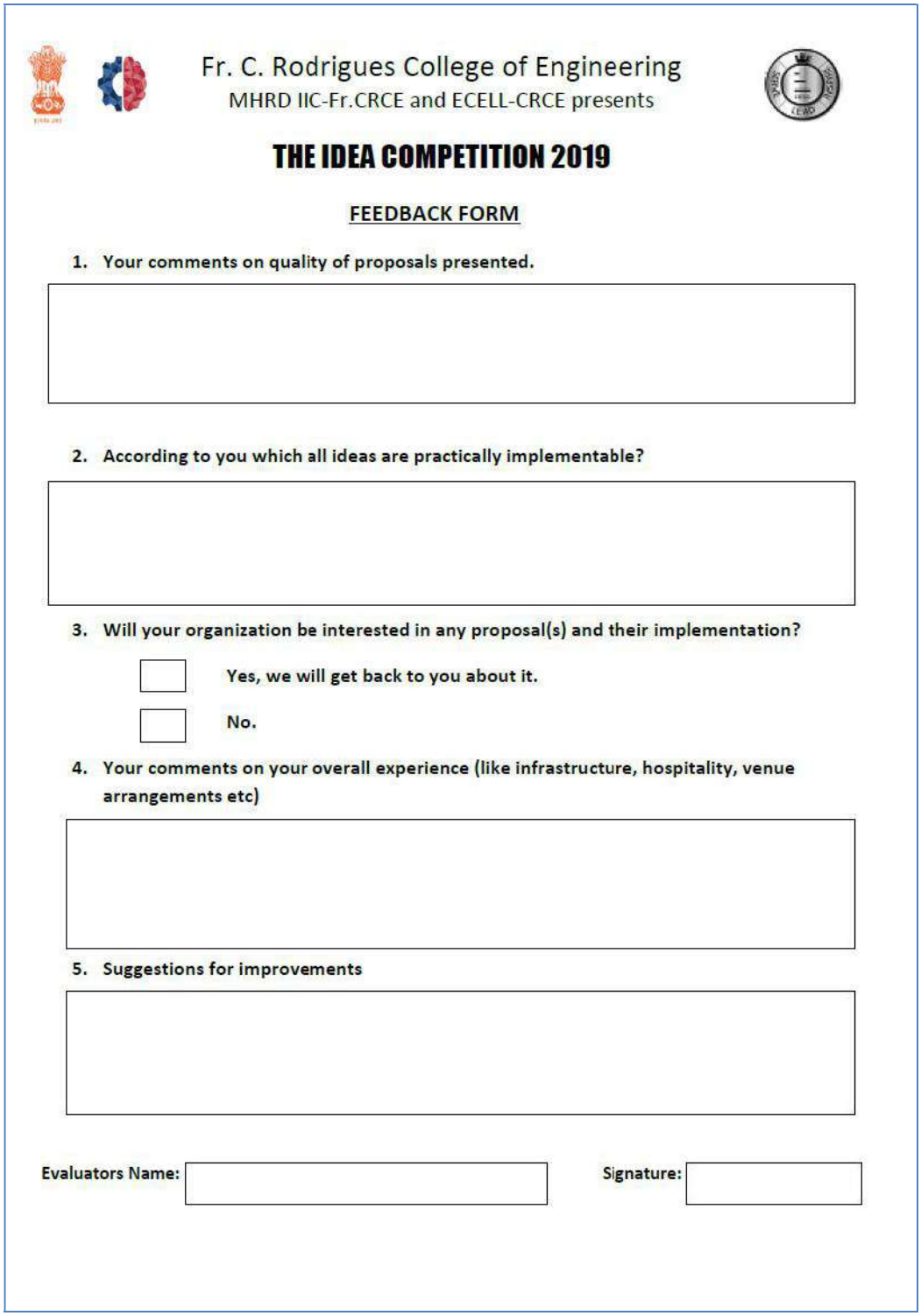
How did you come to know about Idea Competition? (Tick the appropriate option below)

Crescendo Poster **Online Media** **Friends** **PR Message**

Give your suggestions for improvements

Idea No and Signature:

Judges Feedback Form



Fr. C. Rodrigues College of Engineering
MHRD IIC-Fr.CRCE and ECELL-CRCE presents

THE IDEA COMPETITION 2019

FEEDBACK FORM

1. Your comments on quality of proposals presented.

2. According to you which all ideas are practically implementable?

3. Will your organization be interested in any proposal(s) and their implementation?

   ☐ Yes, we will get back to you about it.

   ☐ No.

4. Your comments on your overall experience (like infrastructure, hospitality, venue arrangements etc)

5. Suggestions for improvements

Evaluators Name: Signature:

Report on Visit to Incubation Centre SP-TBI

(9th March 2018)

The IIC council of Fr. Conceicao Rodrigues College of engineering visited the Incubation Centre of the Sardar Patel Institute of Technology of Bharatiya Vidhya Bhavan's campus in Andheri west, Mumbai on 9th March 2018. SP-TBI is an initiative of Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology and is affiliated with Department of Science and Technology, Govt of India.

The Incubation centre works as a catalyst for entrepreneurs ensuring they get the best infrastructure, technology support, seed funding, talent pool, mentoring, training and much more. They strive to make startups successful and help them in scaling new heights. SP-TBI has around 18 incubates.

More than 10 members from the council were a part of this visit. The objective of this incubation centre was to facilitate start-ups and create the environment required to do so. Mr. Kapil Kaul, Manager of SP-TBI commenced the session by explaining the motive behind the incubation centre, before putting forward a couple of examples. He narrated the example of an individual, whose intention was to bring quality education to the rural areas of Maharashtra. The individual approached the incubation centre for assistance after which she was able to help more than five thousand students across the state.

The centre has helped start-ups in different fields- mechanical engineering, education, software etc. After the introduction, Mr.Kapil Kaul invited the team to have a look at the facilities of the centre. The team was shown exhibits of products made by start-ups which the incubation centre had assisted. The team got an opportunity to see multiple innovative designs and models- from simple electronic chips to a chair made from plastic bottles! The Manager later invited the team to feel free to use their facility should anyone from the team or their classmates be in need of assistance with their start-ups in the future. The visit provided us with great insights and motivation to become future Entrepreneur. The session ended with group photos, a vote of thanks and appreciation letter to Mr.Kapil Kaul from IIC –CRCE.

Student Community Benefiting the most from SP-TBI

LIMINAL
SAFEDAGE
PUSH
Shot on OnePlus

Institution Innovation Council

(IIC-FRCRCE)

Session on

"IPR for Faculty and Students"

Date: 10th Jan 2019 Time: 10.30-12.30

By

Dr. Bhushan Patil

Dean Research- Fr. CRCE

Post event summary report

Name of the Event: *Workshop on IPR By Dr.BhushanPatil*

Date of Event: *January 10th 2019*

Location of the event: *Samvaad Auditorium of Fr.CRCE College*.

Event organized by: *MHRD Innovation Cell (MIC)*

Total % of students attended:

Total % of Faculty members attended:

Seminar summary

On January 10th, an interactive and informative workshop on Intellectual Property Rights(IPR) conducted by Dr.Bhushanpatil (Professor and dean of Research and Development of Fr.CRCE College) was organized at Fr. CRCE College in Bandraby the Maharashtra Human Resources Development Innovation cell also known as MIC; whose objectives are to create a vibrant innovative ecosystem by encouraging and inspiring innovations and thus develop better cognitive development in technological students.

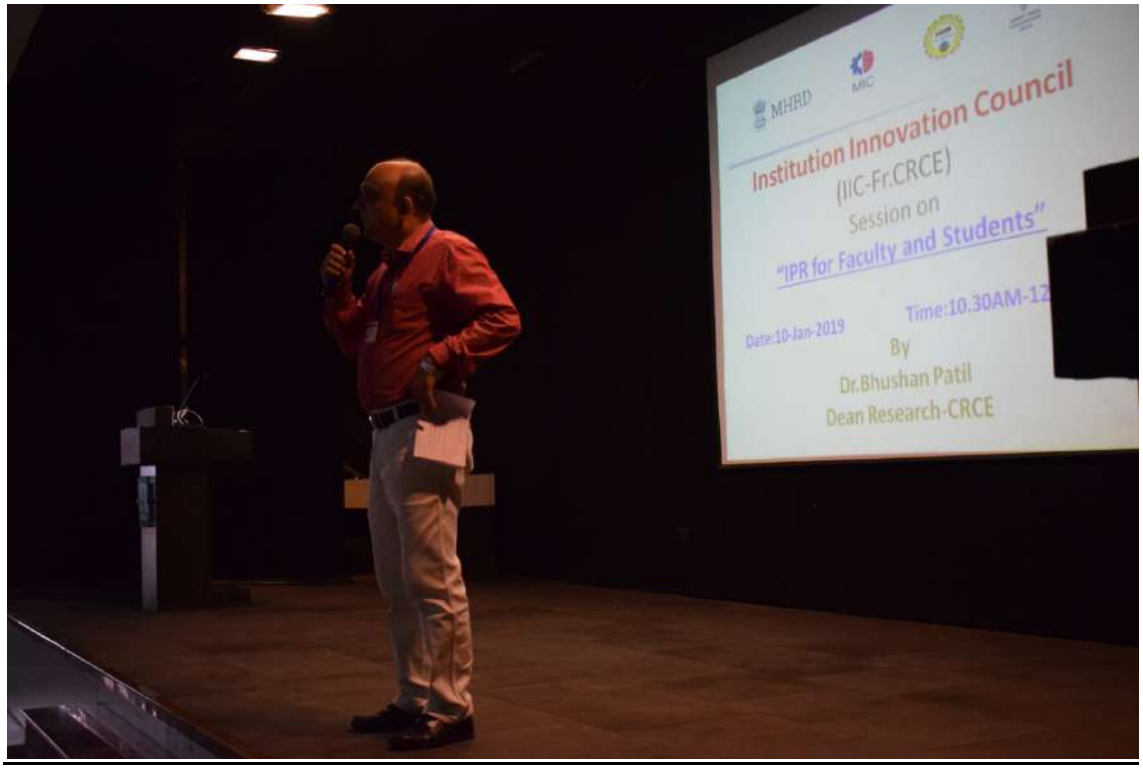
The two hour long workshop attended by almost every student and faculty members of the Third Year of Engineering started at 10.30 am. It was based on the importance of IPR, its types,etc. The speaker began first by pointing out the difference between intellectual property and intellectual property rights followed by explaining the different types of intellectual property rights like Copyright, Patents, Trademarks,etc. Each of the 8 IPRs explained individually with examples and a casual language for its easy understanding made it a fun experience. The main focus of this workshop was to explain to the students the process of filling a patent and the conditions required for it. The students were encouraged to make at least one innovative invention which is patentable as he said ," The progress of a countrydepends upon its technology and who else to expect it if not from you students of the technical field". The laws regarding

IPR and function of the national body which protects it was also briefly explained by the speaker.

The workshop ended at 12.15 after which the various inquiries of students regarding the IPR and topics related to it were answered by the speakerwho was later designated with a letter of appreciation by the council and a grand applause from the students.

MHRD
MIC
Institution Innovation Council
(IIC-Fr.CRCE)
Session on
"IPR for Faculty and Students"
Date:10-Jan-2019
Time:10.30AM-12.30PM
By
Dr.Bhushan Patil
Dean Research-CRCE

MHRD
MIC


MHRD
MIC
Institution Innovation Council
(IIC-Fr.CRCE)
Session on
"IPR for Faculty and Students"
Date:10-Jan-2019
Time:10.30AM-12
By
Dr.Bhushan Patil
Dean Research-CRCE

Report of Offline Session on IPR for faculty and students

Seminar on **"Intellectual Property Rights"** for faculty members and students was proposed by MIC and organized by IIC-FrCRCE at Father Conceicao Rodrigues College of Engineering Bandra on 10th January 2019 at 10.30AM to 12.30PM in the auditorium Samvad. **Dr. Bhushan Patil, Dean Research, Fr.C.R.C.E. bandra** was the speaker for the event. The session was attended by 28 faculty members and 209 students from all the branches enthusiastically. The session was conducted with many real life examples.

Summary of Dr. Bhushan Patil's seminar is as follows:

Intellectual property is any type of property that's a result of one's creativity. It is only when an individual reveals his invention to the public and is awarded a patent that he/she becomes eligible to exploit the IPRs for his/her invention.

A nine-year-old child from Rajasthan invented a 6-player chess game. Hence, being granted a patent is "irrespective of age".

Two songs were played, one by Kumar Sanu and the other by Mohammed Rafi. However, the latter ignored copyrights.

Plagiarism, photocopying and republishing are a few examples of copyright infringement.

The different types of IPRs are as follows:

Trademarks: Examples of violations were shown - that of widely recognised consumer goods "lays" and "bisleri" as against fake brand "legs" and "biloori" respectively.

Patent: this is an IPR granted to someone who discloses his invention. An application for patent must meet following criteria:

- Invention is “novel”, and that the product has not already been patented.
- Whether the invention is “industrially reproducible”.

Conditions for approval

- Patent shall not be given if two or more products already patented are combined to produce a new product. With no new or additional function.
- Term of Patent is 20 years after which it becomes available to the public.

Copyrights: These are IPRs that impose restrictions on copying literary, dramatic and artistic works.

Plagiarism and photocopying are falling under this category. If a person is found guilty of plagiarism, it could lead to cancellation of the copied work.

- The duration of copyrights is the lifetime of the author + sixty years for literary, dramatic and artistic works and sixty years from the date of publishing for anonymous, posthumous, sound records etc.
- An example of the importance of the need to file for copyrights was given in Kumar Sanu and Mohammed Rafi case. The latter did not enforce his copyrights, while Kumar Sanu did so.

Geographical Indication: These are IPRs that are for protecting the interest of local communities.

- Examples of geographical indications are Kolhapuri chapals which are made in Kolhapur and Darjeeling tea.
- The term of a GI is 10 years and can be renewed.

Trade Secret: These are secrets that unlike other IPRs are NOT revealed to the public.

- Examples are agreements between a company and the company heads to keep the "formulas" of the company's products confidential.

The need for IPRs is to incentivise Research and new product development. If there are no IPRs, new products, technology, other creative products would be copied by others and the Inventor or Creator of any new works cannot profit from his or her creation. Consequently, people and organizations will not invest "time and resources" into research.

In today's world, there is a growing demand for better technology. This new technology can only be achieved through investing in research. Hence the need for protection of one's intellectual property.

This session received a very good Participation from students and Faculty Members. Students and Faculties interacted proactively with the speaker.

The session was concluded with vote of Thanks and appreciation Letter given by our IIC President Prof.Swati Ringe.

MHRD
MIC
SMART INDIA HACKATHON 2019
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LEADERSHIP TALK SERIES
Tuesday, 08 January 2019, 02:00 PM
Send Your Questions for Shri Anand Mahindra on
www.mic.gov.in/questions.html before 5th January 2019
Shri Anand Mahindra
Chairman
Mahindra Group
Watch
Live on
LIVE
www.facebook.com/mhrds.innovationcell
YouTube
www.mic.gov.in/live.html
mhrd_innovation

Report of Webinar Session on India's First Leadership Talk Series

The webinar organized by MHRD's Innovation cell was a live session for "**India first leadership talk series**" by Shri Anand Mahindra, Chairman, Mahindra Group was an exceptionally brilliant and truly inspirational program.

Name of the event: ***India's first leadership talk series*** *by Mr.Anand Mahindra*.
Date of event: *January 8th 2019, 2.00-3.00PM*
Location of the event: *Samvad hall of CRCE College*.
Sponsoring organisation: *MHRD Innovation Cell (MIC)*
Total number of students attended: 201
Total number of Faculty members attended: 58

At the beginning **Ms. Sakshi Ghadigaonkar** and **Ms. Anu Thomas** introduced IIC-FrCRCE council to the students and announced about the events like **Idea competition**.

Webinar Summary

On January 8th, an informative and helpful webinar on leadership talks by **Mr. Anand Mahindra** (Chairman of Mahindra Group) was organized by IIC-FrCRCE at Fr. CRCE College in Bandra. The objective of this webinar talk series is to learn from the experience of industry leaders. In this connection, Mr. Anand Mahindra (AM) was the first person invited. MHRD invited questions from students of different institutions all over India and over 500 questions were received which were compiled and put under various categories. The first category was what to do with innovation, the second about the speaker's leadership and his success and failure stories, the third about the speaker's opinion on start-ups and the fourth to do with the speaker's company- Mahindra and Mahindra and its core business.

The talk was well received by the students and teachers alike. The objectives of MIC for organizing the event can be said to be achieved due to precise answering of some of the important questions by Mr. Mahindra dealing on issues like:-

1) Dealing with failure.
2) Qualities for becoming a leader.
3) Encouraging innovations and entrepreneurs.
4) Balancing life and work
5) Importance of competition, etc.

The questions that were asked are as follows:

Question 1:

Most of the audience were students who are about to graduate and are anxious about what they should do - whether to go for a job or for a startup. AM was asked to share his experience, more particularly what was it that was not taught in school which students should know.

The speaker replied saying that he graduated from Harvard business school (HBS). The acronym HBS was most important for students to know, where H stood for "humility", B for "brevity" and S for "self awareness".

Humility: Humility should be inversely proportional to the reputation of the institution one studied in. The speaker always tried to be humble and defer to the opinions of others.

Brevity: People tend to be verbose and speak too much. There is a need for one to be brief and being brief makes it simple for people to understand.

Self Awareness: Self awareness isn't taught in any school. One must be aware of one's motives. Following one's motives makes one happier and the speaker believed that happier people are more successful.

Question 2:

What was AM's motivation when he chose to go for films and then switch to business?

The speaker replied that he considered himself to be a rebel, a voracious reader who questioned the purpose of everything. He was born into a business family but didn't like the idea that his life seemed to be plotted by others, even if they were his parents. As a rebel, he wanted to paint his own canvas. He was more in favour of the arts and after several false starts; he applied for the liberal arts course in Harvard college where he majored in film making. He proved that he wasn't the one who inherited everything from his parents by his thesis film on kumbh Mela which turned out to be successful. Having done so, he chose to shift to business.

Question 3:

An individual has to go through many failures in his life. Have you (AM) seen such failures and how do you cope with that?

The speaker believes that everyone goes through failures. People usually advice "get up, get dusted and carry on". While all that is true, it is necessary for one to cope with the emotions of failure. "Allow yourself the terror and the tear of failure". "Take time off, allow yourself to feel low" which will make one bored and consequently want "yourself to move on".

Question 4:

Did you (AM) know how to cope with failure while in school or did you get it over time by experience.

The speaker said that he was no "baal yogi" while in school and that he learnt to cope with failure with experience.

Question 5:

Who is AM's role model?

The speaker said that his mother advised him to not have a single role model but instead, form a jigsaw puzzle of role models. A leader must have ideas but must share the ownership of the idea with all people and make themselves believe that it's theirs. A notable example was that of Gandhi ji, who believed in freedom but the idea of freedom was shared by all people. I.e. ownership of idea must belong to followers.

Question 6:

How can innovation become the fulcrum of a corporate?

The speaker said that innovation is critical which does not come from "jugaad" but from "jakhas". For innovation to become the fulcrum of a corporate, the company must provide the ecosystem for innovation which comes through "autonomy", "empowerment", "recognition of entrepreneurs" and "sharing of wealth" through ESOP.

Finally he added about the need for strong startup ecosystem in the company which he called "intrapreneurship".

Question 7:

Are leadership skills different while handling a small company as compared to a large company?

The speaker replied that regardless of the size of the company, leadership should be "transformational" and not "transactional". At the same time, the leader must identify people in the company who are good at being "transformational" and those good at being "transactional". The latter will be the executers of the idea.

Question 8:

Given that many students are confused, while in college, about what must be done upon graduation, should one go for start-up or go for a job and then a start-up?

The speaker replied that one must follow one's motivation. Whatever be the motivation, be it teaching, enormous wealth or global recognition, follow the motivation. If one decides to be an entrepreneur, assess one's own risk aversion. If not averse to taking risk, then one may start-up in his/her garage. If not, a company like mahindra provides an ecosystem for an individual to become an "intrapreneur".

Question 9:

How can one maintain his/her work life balance?

The speaker replied that an individual must always love his/her work and in such a case, there is no need for balance as there is so much joy. In such a case, "work is life and life is work" and there is no dichotomy.

Question 10:

What is the future business model?

The speaker replied that competition is always the one that brings out the best. However, in today's world, to be competitive, one must also be collaborative. I.e. a company should outsource work and learn to collaborate with other companies.

On a lighter hearted vein, Mr. Anand Mahindra was asked whether he had any plans to return to film. To that, he replied that such a case was very likely possible if everything were to fail, perhaps do the role of a villain!

Though it was one way session which prevented direct interaction between the speaker and the students, Mr. Anand Mahendra did try to help the students on planning their future more precisely. The MIC should be equally commended for reaching out to students by such new ways and explaining to them the importance of the term ‘Innovation’. The students dispersed with a sincere hope that such talks should be organized again by the council.

Feedback from an IIC student member:

“The Event was very helpful and encouraging and it also cleared some of my doubts regarding post-graduation plans. The way he said to embrace failure instead of fighting it was also something new I’ve heard. Overall it was great and I would be waiting for further sessions of the talk series given by such amazing people.”

Kailash Nair,
FE Electronics, Fr.CRCE Bandra

MHRD MIC AICTE SMART INDIA HACKATHON 2019

INDIA FIRST LEADERSHIP TALK SERIES

Talk on: Planning for Career

Thursday, 24th January 2019, 11:30

Send Your Questions for Dr. Anand on www.mic.gov.in/questions.html before 20th Januar

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MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA) www.mic.gov.in/live.html

mhrd_innovation

Anand Deshpande

ader, Chairman & Managing Director
Persistent Systems Ltd.

Report of Webinar Session on 'India First Leadership Talk Series"

The webinar organized by MHRD's Innovation cell was a live session for "**India first leadership talk series**" by Dr. Anand Deshpande, Founder, Chairman and Managing Director of Persistent Systems Ltd. was an exceptionally brilliant and truly inspirational program.

Name of the event: ***India's first leadership talk series*** *by Dr. Anand Deshpande*.
Date of event: *January 24th 2019, 11.30-12.30PM*
Location of the event: *Samvaad hall of CRCE College*.
Sponsoring organisation: *MHRD Innovation Cell-Institutions Innovation Council (MIC - IIC)*
Total number of students attended: 187
Total number of Faculty members attended: 11

Webinar Summary

On January 24th, an informative and helpful webinar on leadership talks by **Dr. Anand Deshpande** (Founder, Chairman and Managing Director of Persistent Systems Ltd.) was organized by IIC-FrCRCE at Fr. CRCE College in Bandra. The objective of this webinar talk series is to learn from the experience of industry leaders. In this connection, Dr. Anand Deshpande (AD) was invited.

The webinar started with Dr. Abhay Jere, Chief Innovation Officer, MHRD Innovation Cell, welcoming Dr. Deshpande and introducing him to the audience. MHRD invited questions from students of different institutions all over India and over 100 questions were received which were compiled and put under three categories. The first category was what to do with start-ups, the second about the IT field and its development, the third about the career.

The questions that were asked are as follows:

Question 1:

In 1990 when AD came back to India, what was his motivation to start his own business?

The speaker replied that he had good opportunities in the US but he had a desire to come back to India. At that time he had a few projects in mind but always wanted to do something innovative on his own. In 1990, lack of telecom infrastructure, networking facilities made communication difficult. The government had the foresight of heading the software technology by helping software-based companies. He said that he was lucky enough to be part of the first round of STP businesses.

Question 2:

Ease of doing business in this generation is more compared to AD's generation. To send a single email to the U.S. AD had to travel to Mumbai. Did you face bureaucratic problems in business?

The speaker said that it was difficult back then to start a business but we have come a long way since then. The climate for entrepreneurship is a lot better now. Sure, challenges were high back then but the condition was same for everybody. The whole point of being an entrepreneur is to solve problems and rise above them. You just learn to face difficulties

Question 3:

For a young person who has come from U.S, completing his education there, working there and then adapting to Indian Bureacracy, did you feel frustrated and demotivated anytime?

The speaker replied that he always had customers willing to provide work. So he never felt like leaving. He had only been to the US for 5-6 years so it wasn't much different.

Question 4:

Students have a major doubt whether they should pursue their entrepreneurship ideas immediately after graduation or secure a job first, take some experience and then go for entrepreneurship because many a times students face a lot of pressure from parents, from society to settle with a good job and give up on their dream?

The speaker believed that the key to a successful entrepreneurship is to have a problem to solve. If you have a problem compelling enough to be solved and if you have the ability to deliver a solution for it, that's when you start becoming an entrepreneur. Self-employment is a happening thing around the globe. For a student who has just graduated, it's a good idea to work for smaller businesses where you will work with an entrepreneur, will get ideas, will start to think like an entrepreneur. You should start your own business only when you know what you are doing. It is not advisable to start a business and then figure out what to do.

Question 5:

Large number of students participating in Hackathons, come up with innovative ideas and new technologies and their entire approach is how to use this technology to solve a particular problem?

The speaker replied, when you are building a product for a company, the focus is upon building something that someone is willing to buy for a reasonable price to

make your business viable. Knowing a certain technology doesn't entirely make a business happen. Unless you verify the viability of the business and make sure you can sustain it, there is no point in starting a business.

Question 6:

Nowadays topics such as Machine Learning, Artificial Intelligence, Blockchain, have become buzzwords. Students would like to know the scope and business opportunities provided by such topics.

The speaker explained that companies like his own work in such areas of IT and they definitely would hire students working in such areas as it is in great demand. If you have a good understanding of such technologies and are willing to apply them to problems faced by customers then potentially a business can be emerged from it. For example, it is not just about learning Machine Learning, but applying it to real-life problems such as farmer's problems, water purification or any other potential area of interest.

Question 7:

There is a rising fear amongst students whether the jobs are getting evaporated or whether the team size is sinking as a result of which the opportunities in the market are reducing. Also freelancing trend is on the rise. Please elaborate on this topic.

The speaker said that technologies are pacing forward rapidly and those who can keep up with this pace will always be in demand. Those who do not stay up with ongoing changes will find it difficult to sustain. So students should understand that this is a continuous learning process and you will be expected to keep learning as you move along and part of the responsibility of upgrading your skill just begins in college and should be continued further even after college. There is a misconception that after college learning generally stops. This is untrue. The kind of skills needed for industry is changing rapidly along with changing technologies.

An example of such rapid growth was given by the speaker. He mentioned that some 10-20 years back smartphones did not exist. 4G-3G never existed. So the change is technology is huge. And if we extrapolate it to the upcoming 10 years you will observe this change again. Younger generation is more inclined to try out new things and changes. The kind of security they share or their ability to take chances is a lot better than their older generations. This is what is known as 'Uberization' of industry. Essentially it is an individual's own personal responsibility to make ends meet. People are looking at self-employment, learning new things on their own and then building a career out of it. We are expected to invest on our own long term career advancements and long term skill-building.

Question 8:

Do you feel that it would not be wrong to say that, every student has to think of himself as an entrepreneur?

The speaker replied with an affirmative. He recalled a book called named, 'Me Enterprise' and its idea that every individual is an entrepreneur and is writing his own enterprise. You may work for an employer but actually your employer is your customer. So you are responsible for your own business and you need to have your own mission and vision. Secondly, students should try to build their skills based on some technology and also, irrespective of what other people might say, the curriculum is not the problem. What you do with it is. You need to learn to do things on your own. The speaker feels platforms like Smart India Hackathon are brilliant and provide students with opportunities to present their ideas and apply their skills. Thirdly, communication skills are what takes you up in your career. Technologies will come and go but communication skills are lifelong.

Question 9:

When a student gets out of college and gets into a job as a software engineer, he later aspires to be a team leader, in managerial position. But when you say about taking leadership in your hands, does it reduce the need of managerial positions?

The speaker said that, while a person is in college he spend time acquiring technical skills. Divide 40 years of your job phase into 4 parts.
1. In the initial 10 years, start with Learning and Networking. Learn as much as you can and build a strong network of people. Be open to ideas.

2. In the second 10 year phase, that is in the 16 -17 year of career you should be an expert in a particular field

3. In the next phase you should be in a position called 'The Corner Office' phase. Plan out your decisions such that you see yourself in a corner office position.

4. The last phase you need to manage your financial condition and lifestyle and be in a position to know your retirement plans.

Question 10:

When you look back at your career do you think that you have gone through these specific phases?

The speaker replied, that his career graph was slightly different as he was a CEO already when he started and he remained in the job for 28 years. But his responsibilities had changed over the years and he did learn new things. He believes that every year we should learn something new and develop it. The extra years of

experience of an individual should count in value for the organisation and himself. This is something that the speaker is very conscious about.

Question 11:

When you are recommending career steps, are they gender-agnostic because sometimes at a certain stage girls are asked to stay with their family and how should women cope up with this?

-Question from Ayushi, IIT Kanpur

The speaker said, he feels that women are equally competent and capable as men. That said, there are gender-biased opinions in our society regarding women, but as long as jobs are concerned women have to chart their own path and we will see more and more women who have fantastic achievements in their fields.

Question 12:

Is India really prepared to handle Industry 4.0 and as a software industrialist do you feel that we have a huge role to play in it or how industry is evolving in that perspective?

-Question from Veer Patel, IIIT Kanchipuram

The speaker believes that Industry 4.0 is going to happen. More and more devices, activities are going to get sensors. People are going to be able to track activities, look at events, combine them to do exciting things. Maybe India is a few years behind, but we will get there. This can be viewed as an opportunity for young people to check into this new generation of inter-connected devices, interconnected factories. Software 4.0 is our methodology of building Industry 4.0. It deals with distributed architecture and with the kind of networks and technology that we possess, it is being implemented across everywhere.

Question 13:

Do you believe that a companies are slowly moving towards a model where campus recruitments will be in the form of hackathons or based on how you perform in your projects and interviews will not be taken?

The speaker feels that it is not one out of many. The hiring process is now moving to a model where a combination of aspects are involved. Hackathons demonstrate what an individual is building on his own and that is a skill that businesses will expect. Thus, hackathons will be another input into considering people while hiring. People also want good communicators so interviews will obviously remain.

Question 14:

Will you categorize yourself as a technocrat, or sales person or a manager?

The speaker said that he loves doing salesmanship and he thinks I he is a good salesperson. All businesses are developed from sales and whoever will sell well will do well. No body opts to be a salesman but they should. If you look at any business and you don't have sales and customers, the business does not exist. If you don't have your own technology you can resell someone else's technology. Thus, sales is the most fundamental part of any business.

Though it was one way session which prevented direct interaction between the speaker and the students, Dr. Anand Deshpande did try to help the students on planning their future more precisely. The MIC should be equally commended for reaching out to students by such new ways and explaining to them the importance of the term 'Innovation'. The students dispersed with a sincere hope that such talks should be organized again by the council.

Feedback from a student member:

"The session focused on answering an important question which is whether one should start their own business or work for a few years to gain knowledge and experience. Different topics such as self-employment, business models, currently required skill sets were discussed in detail. G one's own business were explained beautifully. "

Sumedh Deshpande,
TE Computers, Fr.CRCE Bandra

MHRD MIC AICTE SMART INDIA HACKATHON 2019

INDIA FIRST LEADERSHIP TALK SERIES

Talk on: Art of Decision Making

Shri Ajit Doval,
nal Security Advisor, Govt. of India

Tuesday, 19 March 2019, 11:30 A

Watch on

SWAYAM PRABHA
GYAN DARSHAN

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MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA) www.mic.gov.in/live.html

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Report of Webinar Session on India's First Leadership Talk Series-Episode 03

The webinar organized by MHRD's Innovation cell was a live session for "**India first leadership talk series**" by *Mr. Ajit Doval* , National security advisor was an informative and inspiring program.

Name of the event: *Webinar on **Art of Decision making** by Mr. Ajit Doval, National Security Advisor, Govt.of India.*
Date of event: ***March 19th2019***
Location of the event: *Samvaad hall of CRCE College*.
Sponsoring organisation: *MHRD Innovation Cell (MIC)*
Total of students attended: **239**
Total of Faculty members attended: **21**

In the beginning **Ms. Sakshi Ghadigaonkar** and **Ms. Anu Thomas** introduced *shri. Ajit Doval* (*National Security Advisor, Govt. of India.)* to the participants of webinar.

Webinar Summary

India Leadership Talk Series-Episode 03 webinar on "Art of Decision Making" was organized on 19th March 2019 at Fr. CRCE College in Bandra-west , sponsored by the Ministry of Human Resources Development Innovation Cell also known as MIC. The objective of the webinar was to help the young minds in making firm decisions and to impart them with the ways to deal with problems faced during the process. The one hour long session was started at 11.30AM. The students participated in huge numbers, so IIC-FrCRCE members arranged extra chairs for some of the participants. The host had compiled a list of questions among the 900 questions Posted by the students and they were mostly sensitive security issues of the nation.

The questions to Mr. Dovalji consisted of the following enquiries -

1) Psyche of a person when making a critical decision.
2) Considerations that should be given during a tough decision.
3) Some personal experiences which helped shape his psyche.
4) Future of war and terrorism in the coming years.
5) Growing use of technology in intelligence agencies.

Some of the questions which were asked are as follows-:

Question 1.

What should be the mind-set or psych of a person while making a critical decision?

The speaker replied by pointing out that each person is different and what matters is making a vital decision. The person should brace himself for the worst circumstances possible and this can be only be achieved by self confidence, enough preparations

and with a belief that whatever decision you have made is correct. You should be ready to improvise based on the consequences with the help of a contingency plan.

Question 2.

What considerations do you take while making a tough decision which may have long term repercussions?

The speaker answered this question with the example of the Kashmir issue and how it could have been resolved in the bud. Tough decisions should be taken only after doing an objective analysis of the circumstances, problems, resources, etc. The state of mind should also be calm and clear. Then we should make a list of solutions or options to the problem and choose the one which is most cost effective and fulfils the objectives.

Question 3.

Would you like to share with us some experiences of yours which has helped in developing your psyche?

The speaker shared his experience of childhood. Being a loner, he had developed a sense of self dependency and lead to the rise of a never give up attitude in him. Even his coach in boxing used to praise him in his unique quality of never giving up. No matter how many times he was beaten or bruised, he would never come out of the ring. According to the speaker, his level of tolerance is high and this is what made him different from others. According to him, there may be many circumstances in life which may affect your psyche; what matters is how you respond to that situation.

Question 4.

In this era of technology, what do you think the future of war and terrorism would be?

According to the speaker, the wars in future will be conducted in other ways instead of the conventional way because it has become unaffordable due to invention of various weapons of mass destruction. As for terrorism it has become easier for terrorists to infiltrate a nation due to increase in technology and hence it has become very important to come up with various means to cope up with these factors.

Question 5.

Do you think that various technologies produced by today's youth are taken up by the intelligence agencies as shown in the movie Uri?

The speaker replied that the intelligence agencies like NSA have their own technology to use and even if they plan to undertake a idea from a person, it would be done in secrecy, having no idea on who and why they have undertaken the technology. According to him, the most important part is that the students keep on finding innovative solutions as they are the building blocks of the nation.

Question 6.

What advice would you like to give to the students in helping the nation become a safe and secure place?

According to the speaker, the current youth is knowledgeable enough for the need of any tips. He only had one advice to give and it was that the person should remember his identity as an Indian and should be proud enough to be an Indian without being a selfish one who only cares about himself.

The session ended at 12.30PM and it was equally appreciated by all the students which can be seen by the huge applause given by the audience at the end.

Feedback from an IIC student member:

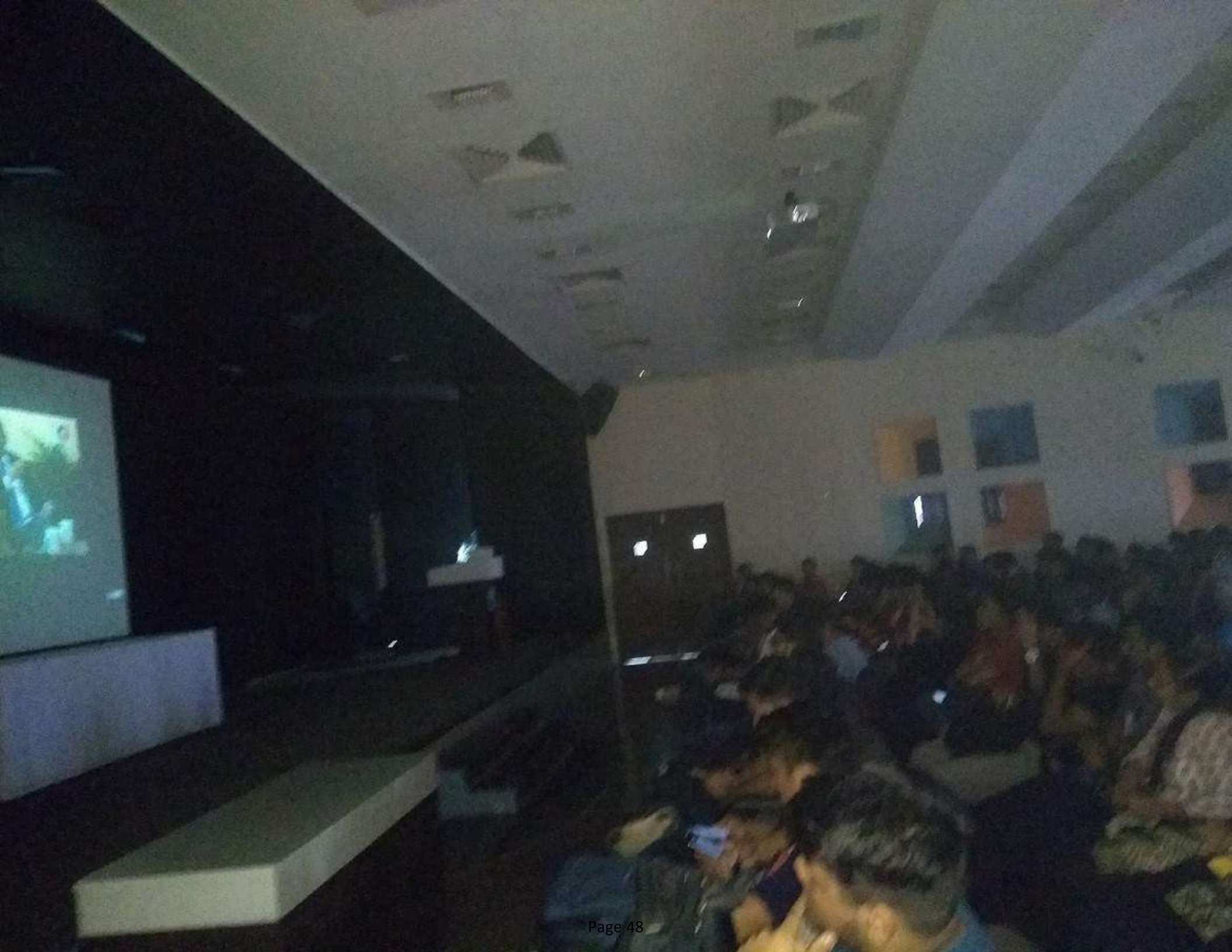
It was an inspiring session that helped us to understand about an Art of Decision Making. The speaker threw light upon questions like how to achieve objectives and how to select options. Decisions taken are never wrong or right. It is the way you execute or work towards it makes the difference. Some of the quotes used by speaker were

“Taking right decision is not as important as making the decision right”

“Validate your assumptions. Always!”

“Every day in your life is the first day of your life”

ELNINO ROSARIO
TE Electronics, Fr.CRCE Bandra-west



(17)

FR. CR... ...BRA
Inward 048
Date 23-3-2017
Sign

11/02/2012-NEB
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhawan,
New Mehrauli Road,
New Delhi 110 016.
Dated: 14/03//2017

ORDER

Sub: Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2016-17.

In continuation of this Department's sanction order of even no.dated 029/2/2014, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Indian Institute of Technology, at a total cost of Rs.800,000/- (Rupees eight lakh only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. **However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.**

2. Sanction of the President is also accorded for the release of grants- in- aid of Rs. 6,79,926/- (Rupees Six lakh seventy nine thousand nine hundred twenty six only) as the recurring expenditure for the 5th year of operation of IEDC to Fr.Conceicao Rodrigues College of Engineering, Mumbai. Sanction of the President is also accorded for carry forward of Rs. 1,20,074/- earned as bank interest and available fund.

Sl No	Items of expenditure	Amount Rs
	Recurring	
1.	Student projects (five Nos @ Rs 1.00 lakhs each)	5,00,000
2.	Contingencies (phone fax stationery travel and honorarium to the Coordinator of IEDC etc)	3,00,000
3.	Less balance amount available including bank interest	1,20,074
	Total	6,79,926/-

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3. ***The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No. A-20020/11/97 IFD dt.16.8.2002). In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project.***

4. The Drawing & Disbursing Officer, Department of Science & Technology, shall arrange to pay an amount of 6,79,926/- (Rupees Six lakh seventy nine thousand nine hundred twenty six only) to Fr. Conceicao Rodrigues College of Engineering, Fr. Agnel Ashram, Bandstand, Bandra (West) Mumbai – 400 050 by means of RTGS as per the details given below :

Name of the Account Holder	Fr. Conceicao Rodrigues College of Engineering
Name of the Bank	Corporation bank
Branch Address	105, Baitul Sharaf, Bandra (West), Mumbai 400050
IFSC code	CORP0000120
MICR code	400017003
Account No.	012000101033315

5. The sanction of this grant is subjected to the terms and condition mentioned in the Annexure.

6. The expenditure is debitable to Demand No. 77-Department of Science & Technology (DST) for the year 2016-17 (Plan):-

3425	Other Scientific Research (Major Head)
60	Other (Sub Major Head)
60.200	Assistance to Other Scientific Bodies (Minor Head)
08	Grants-in-aid for S&T programmes for Socio-economic Development
08.10	Science & Technology Entrepreneurship Development activities
08.10.31	Grants –in -aid General

7. The grantee should submit a six monthly progress report of activities of IEDC to the Department.

8. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.

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10. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.c/ 6167/IFD/2016-17 dated 9 /03/2017.

11. The sanction order has been entered in the sanction order register as per GFR-39 at Sl. No. 208 of the register.

12. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute be adjusted towards further installment of the grant.

13. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.

(Naveen Vasishta)
Scientist E

To,

The Pay & Accounts Officer
Department of Science & Technology
New Delhi.

Copy to:

1. Dr. Srija Unnikrishnan
   Principal,
   Fr. Conceicao Rodrigues College of Engineering,
   Fr. Agnel Ashram, Bandstand, Bandra (West)
   Mumbai-400 050
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
3. Office of the Accountant General, Maharashtra.
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section

(Naveen Vasishta)
Scientist-E

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11/02/2012-NEB(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology

FR. CHURCH - BANDRA INWARD MAIL	
No.	349
Date	8.3.2016
Sign	

Technology Bhawan,
New Mehrauli Road,
New Delhi 110 016.
Date: 29/02/16

ORDER

Sub: Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2015-16.

In continuation of this Department's sanction order of even no. dated 19/01/15, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai at a total cost of Rs.800,000/- (Rupees eight lakhs only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.

2. Sanction of the President is also accorded for the release of grants- in- aid of Rs. 646,087/- (Rupees six lakh forty six thousand eighty seven only) for the 4th year of operation of IEDC to Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2015-16. Sanction of the President is also accorded to carry forward an amount of Rs.143,231/- (Rupees one lakh forty three thousand two hundred thirty one only) as unutilized amount from recurring grants and Rs.10,682/- (Rupees ten thousand six hundred eighty two only) as bank interest.

3.Head wise break-up of the approved budget is shown below:

Sl No	Items of expenditure	Amount Rs
	Recurring	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	500,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	300,000
	Less bank interest	10,682
	Less Unspent balalnce	**143,231**
	Net release	**646,087**

4. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

5. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.

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6. *The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No. A-20020/11/97 IFD dt.16.8.2002). In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project.*

7. The host institution should also appoint an Advisory Board to be headed by the Principal/Head of the institution to monitor the progress of implementation of the IEDC project and its activities. This Board may advice the host Institute for raising funds from other sources for the IEDC for its activities.

8. The Drawing & Disbursing Officer, Department of Science & Technology, shall arrange to release an amount of Rs.646,087/- (Rupees six lakh forty six thousand eighty seven only) to Fr. Conceicao Rodrigues College of Engineering, Fr. Agnel Ashram, Bandstand, Bandra (West) Mumbai – 400 050 by means of RTGS as per the following details given below.

Name of the Account Holder	Fr Conceicao Rodrigues College of Engineering
Name of the Bank	Corporation bank
Branch Address	105, Baitul Sharaf, Bandra (West), Mumbai 400050
IFSC Code	CORP0000120
Account No.	012000101033315
MICR CODE	400017003

9. The sanction of this grant is subjected to the terms and condition mentioned in the Annexure.

10. The expenditure is debitable to Demand No. 86-Department of Science & Technology (DST) for the year 2015-16 (Plan):-

3425 Other Scientific Research (Major Head)
60 Other (Sub Major Head)
60.200 Assistance to Other Scientific Bodies (Minor Head)
08 Grants-in-aid for S&T programmes for Socio-economic Development
08.10 Science & Technology Entrepreneurship Development activities
08.10.31 Grants –in -aid (General)

11. The grantee should submit a six monthly progress report of activities of IEDC to the Department.

12. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.

13. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.

14. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.c/5306/IFD/2015-16 dated 11/02/16.

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15. The sanction order has been entered in the sanction order register as per GFR-39 at Sl.No.178 of the register.

16. "The Institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant".

17. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.

Sujit Banerjee
Scientist F

To,

The Pay & Accounts Officer
Department of Science & Technology
New Delhi.

Copy to:

1. Dr. Srija Unnikrishnan
   Principal,
   Fr. Conceicao Rodrigues College of Engineering,
   Fr. Agnel Ashram, Bandstand, Bandra (West)
   Mumbai-400 050
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
3. Office of the Accountant General, Maharashtra.
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section

(Sujit Banerjee)
Scientist F

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11/02/2012-NEB(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhawan,
New Mehrauli Road,
New Delhi 110 016.
Date: 19/01/15

ORDER

Sub: Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2014-15.

In continuation of this Department's sanction order of even no. dated 20/01/2014, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai at a total cost of Rs.800,000/- (Rupees eight lakh only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.

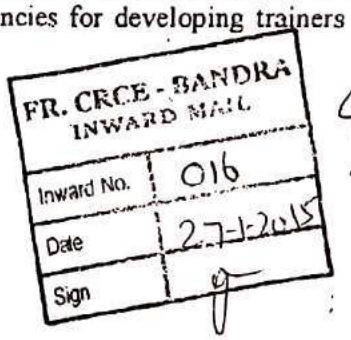
2. Sanction of the President is also accorded for the release of grants- in- aid of Rs. 785,973/- (Rupees seven lakh eighty five thousand nine hundred seventy three only) for the 3rd year of operation of IEDC to Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2014-15. Sanction of the President is also accorded to carry forward an amount of Rs. 3,345/- (Rupees three thousand three hundred forty five only) as unutilized amount from recurring grants and Rs 19,283/- (Rupees nineteen thousand two hundred eighty three only) as unutilized amount from non recurring grants.

3.Head wise break-up of the approved budget is shown below:

Sl No	Items of expenditure	Amount Rs
	Recurring	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	500,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	300,000
	Less bank interest	10,682
	Less Unspent balalnce	3,345
	Net release	785,973

4. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

5. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.



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6. *The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) , would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No. A-20020/11/97 IFD dt.16.8.2002). In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project.*

7. The host institution should also appoint an Advisory Board to be headed by the Principal/Head of the institution to monitor the progress of implementation of the IEDC project and its activities. This Board may advice the host Institute for raising funds from other sources for the IEDC for its activities.

8. The Drawing & Disbursing Officer, Department of Science & Technology, shall arrange to release an amount of Rs.785,973/- (Rupees seven lakh eighty five thousand nine hundred seventy three only) to Fr. Conceicao Rodrigues College of Engineering, Fr. Agnel Ashram, Bandstand, Bandra (West) Mumbai – 400 050 by means of RTGS as per the following details given below.

Name of the Account Holder	Fr Conceicao Rodrigues College of Engineering
Name of the Bank	Corporation bank
Branch Address	105, Baitul Sharaf, Bandra (West), Mumbai 400050
IFSC Code	CORP0000120
Account No.	012000101033315
MICR CODE	400017003

9. The sanction of this grant is subjected to the terms and condition mentioned in the Annexure.

10. The expenditure is debitable to Demand No. 86-Department of Science & Technology (DST) for the year 2014-15 (Plan):-

3425 Other Scientific Research (Major Head)
60 Other (Sub Major Head)
60.200 Assistance to Other Scientific Bodies (Minor Head)
08 Grants-in-aid for S&T programmes for Socio-economic Development
08.10 Science & Technology Entrepreneurship Development activities
08.10.31 Grants –in -aid (General)

11. The grantee should submit a six monthly progress report of activities of IEDC to the Department.

12. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.

13. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.

14. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.c/5070 /IFD/2014-15 dated 14/01/15.

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15. The sanction order has been entered in the sanction order register as per GFR-39 at Sl.No.153 of the register.

16. "The Institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant".

17. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.

Sujit Banerjee
Scientist F

To,

The Pay & Accounts Officer
Department of Science & Technology
New Delhi.

Copy to:

1. Dr. Srija Unnikrishnan
   Principal,
   Fr. Conceicao Rodrigues College of Engineering,
   Fr. Agnel Ashram, Bandstand, Bandra (West)
   Mumbai-400 050
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
3. Office of the Accountant General, Maharashtra.
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section

(Sujit Banerjee)
Scientist F

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11/02/2012-NEB(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhawan,
New Mehrauli Road,
New Delhi 110 016
Date 20/01/14

ORDER

Sub. Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2013-14

In continuation of this Department's sanction order of even no dated 27/06/12, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai at a total cost of Rs.800,000/- (Rupees eight lakh only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.

2. Sanction of the President is also accorded for the release of grants- in- aid of Rs.433,569/- (Rupees four lakh thirty three thousand five hundred sixty nine only) for the second year of operation of IEDC to Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2013-14.Sanction of the President is also accorded to carry forward an unutilized amount of Rs.339,205/- (Rupees three lakh thirty nine thousand two hundred five only) from recurring budget and Rs.143,234/- (Rupees one lakh forty three thousand two hundred thirty four only) from the non recurring budget.

3.Head wise break-up of the approved budget is shown below:

Sl No	Items of expenditure	Amount Rs
	Recurring	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	500,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	300,000
	Less unspent recurring grants	339,205
	Less bank interest	27,226
	Net release	433,569

CHECKED BY INTERNAL AUDIT SIG

4. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

5. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.

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The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No A-20020/11/97 IFD dt 16 8 2002) In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project.

7 The host institution should also appoint an Advisory Board to be headed by the Principal/Head of the institution to monitor the progress of implementation of the IEDC project and its activities This Board may advice the host Institute for raising funds from other sources for the IEDC for its activities

8. The Drawing & Disbursing Officer, Department of Science & Technology, shall arrange to release an amount of of Rs. 433,569/- (Rupees Four lakh thirty three thousand five hundred sixty nine only) to Fr. Conceicao Rodrigues College of Engineering, Fr. Agnel Ashram, Bandstand, Bandra (West) Mumbai – 400 050 by means of RTGS as per the following details given below.

Name of the Account Holder	Fr Conceicao Rodrigues College of Engineering
Name of the Bank	Corporation bank
Branch Address	105, Baitul Sharaf, Bandra (West), Mumbai 400050
IFSC Code	CORP0000120
Account No.	012000101033315
MICR CODE	400017003

9. The sanction of this grant is subjected to the terms and condition mentioned in the Annexure.

10. The expenditure is debitable to Demand No. 85-Department of Science & Technology (DST) for the year 2013-14 (Plan):-

3425 Other Scientific Research (Major Head)
60 Other (Sub Major Head)
60.200 Assistance to Other Scientific Bodies (Minor Head)
08 Grants-in-aid for S&T programmes for Socio-economic Development
08.10 Science & Technology Entrepreneurship Development activities
08.10.31 Grants –in -aid (General)

11. The grantee should submit a six monthly progress report of activities of IEDC to the Department.

12. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.

13. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.

14. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.c/15929/IFD/2013-14 dated 15/01/2014.

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16. "The Institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant"

17. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme

Sujit Banerjee
Scientist F

To,

The Pay & Accounts Officer
Department of Science & Technology
New Delhi.

Copy to:

1. Dr. Srija Unnikrishnan
   Principal,
   Fr. Conceicao Rodrigues College of Engineering,
   Fr. Agnel Ashram, Bandstand, Bandra (West)
   Mumbai-400 050
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
3. Office of the Accountant General, Maharashtra.
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section

(Sujit Banerjee)
Scientist F

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11/02/2012-NEB(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhawan,
New Mehrauli Road,
New Delhi 110 016.
27.06.2012

ORDER

Sub: Establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai during 2012-13.

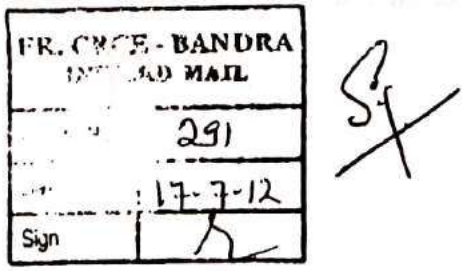
Sanction of the President is accorded for the establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Fr.Conceicao Rodrigues College of Engineering, Mumbai at a total cost of Rs 13,30,000/- (Rupees thirteen lakhs thirty thousand only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.

2. Sanction of the President is also accorded for the release of grants- in- aid of Rs 800,000/- (Rupees eight lakh only) as the recurring expenditure for the first year of operation of IEDC to Fr.Conceicao Rodrigues College of Engineering, Mumbai Head wise break –up of the approved budget is shown below:

Sl No	Items of expenditure	Amount Rs
	Recurring	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	5,00,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	3,00,000
	Total	8,00,000

4. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

5. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.



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6 *The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No. A-20020/11/97 IID dt.16.8.2002). In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project*

7. The host institution should also appoint an Advisory Board to be headed by the Principal/Head of the institution to monitor the progress of implementation of the IEDC project and its activities. This Board may advice the host Institute for raising funds from other sources for the IEDC for its activities.

8. The Drawing & Disbursing Officer, Department of Science & Technology, shall arrange to release an amount of of Rs. 8,00,000/- (Rupees eight lakh only) to Fr. Conceicao Rodrigues College of Engineering, Fr. Agnel Ashram, Bandstand, Bandra (West) Mumbai – 400 050 by means of RTGS as per the following details given below.

Name of the Account Holder	Fr Conceicao Rodrigues College of Engineering
Name of the Bank	Corporation bank
Branch Address	105, Baitul Sharaf, Bandra (West), Mumbai 400050
IFSC Code	CORP0000120
Account No.	012000101033315
MICR CODE	400017003

9. The sanction of this grant is subjected to the terms and condition mentioned in the Annexure.

10. The expenditure is debitable to Demand No. 85-Department of Science & Technology (DST) for the year 2012-13 (Plan):-

3425 Other Scientific Research (Major Head)
60 Other (Sub Major Head)
60.200 Assistance to Other Scientific Bodies (Minor Head)
08 Grants-in-aid for S&T programmes for Socio-economic Development
08.10 Science & Technology Entrepreneurship Development activities
08.10.31 Grants –in -aid (General)

11. The grantee should submit a six monthly progress report of activities of IEDC to the Department.

12. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.

13. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.

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14. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no. 100/IFD/1463/2012-13 dated 11.6.12.

15. The sanction order has been entered in the sanction order register as per GFR 19 at Sl.No. 40 of the register.

16. "The Institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant"

Sujit Banerjee
Scientist F

To,

The Pay & Accounts Officer
Department of Science & Technology
New Delhi.

Copy to:

1. Dr. Srija Unnikrishnan
   Principal,
   Fr. Conceicao Rodrigues College of Engineering,
   Fr. Agnel Ashram, Bandstand, Bandra (West)
   Mumbai-400 050
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
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(Sujit Banerjee)
Scientist F

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