

2016-2017

Er. PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING
HOSUR

IEDC, NSTEDB, DEPARTMENT OF SCIENCE AND TECHNOLOGY

VENUE: IEDC Auditorium

DATE: 8th August 2017
TIME: 2.30 PM

INVITATION:

With due respect, all the IEDC advisory Board members are invited for Third Advisory Committee meeting to discuss the following points mentioned in Agenda.

AGENDA

- * Welcome Address by Dr. S.P. Prabhakaran,
Professor / Physics, Pmc Tech.
- * Presentation of IEDC by Dr. S. Chitra,
Principal, Pmc Tech
- * Presentation of IEDC Projects by Dr. B. Madhusudhanan,
Research Co-ordinator, Pmc Tech.
- * Addressing the gathering by Dr. Nareen Vasishtha
NSTEDB, DST . .
- * IEDC Projects & Demo by Students of Pmc Tech.
- * Thanks by Mr. S. Senthil Kumar,
Coordinator - Operations,

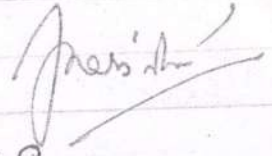


S. Senthil Kumar
Principal
Er. Perumal Manimekhalai College of Engineering
Koneripalli, HOSUR - 635 117, Krishnagiri Dist.

ADVISORY BOARD MEMBERS INVITED FOR THE MEETING.

6

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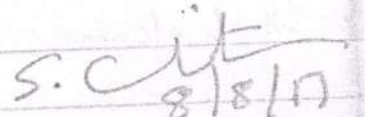

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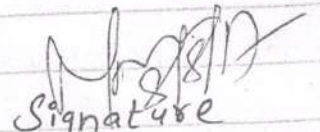
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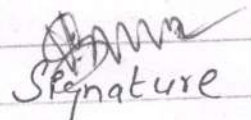
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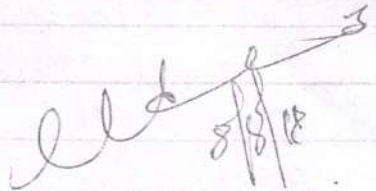
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11. Dr. B. Madhusudhanan,
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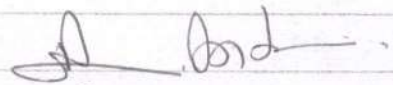
13. Dr. S.P. Prabhakaran,

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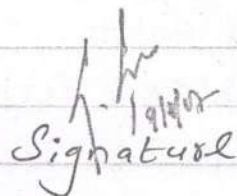
14. Prof. S. Senthil Kumar,

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MINUTES OF MEETING:

The third Advisory Committee meeting of TEDC took place on 8th August 2017 at TEDC Hall and the following minutes were recorded.

1. Prof. Senthil Kumar, initially listed out the agenda in brief.
2. Dr. S.P. Prabhakaran, Professor / physics, welcomed the gathering. He welcomed the gathering, which included scientist from DST, mentors from various educational institutions and delegates from banks.
3. Dr. S. Chitra, Principal, Pmc Tech, mam started her presentation by welcoming the delegates. It was then followed by brief introduction of the institution which included the establishment year, various achievements of the college, student strength. Mam gave a brief introduction of research centres in our institution. It was then followed by major achievements such as TEDC, MSME and WIP. She listed out the achievements of TEDC, and gave the vision and mission of TEDC.

Mam gave a brief introduction of the TEDC project completed so far and it was then followed by MoU's signed. Mam said the greater achievement is not only providing placement but also providing entrepreneurship.



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4. Dr. B. Madhusudhanan sir continued the presentation by explaining the innovative idea which is being followed by our institution "Industry Requirement Practices Lab".

Sir continued the presentation by giving a gist of the projects which has been completed in the academic year 2016-2017. It includes Smart Spectacle, Android application for mobile safety, Electronic weighing Jug, microcontroller based automated tyre burst preventer and Smart Basket.

It was then followed by listing the project proposals for the academic year 2017-18. The initial project was Clean Rest - Ozonation System in public rest rooms, fabrication of horticulture de-leafing machine, Mobile based ECG monitoring system, Capsicum greenhouse farming using Robot, Portable and low cost Thermoforming machine for Dental applications, Driver fatigue warning system using smart phone, Low cost mechanical weeding unit, Intelligent technical interview system for web enabled technologies in cloud, greens harvester and mechanized floor cleaning device.

* During this presentation, Dr. Naveen Vasishtha suggested green harvesters Project. Continued for multi-crops harvesting.



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5. It was then followed by Dr. Narayan Varishta addressing the gathering which included resource persons, mentors and students. Sir gave an introduction of DSI, the fellowship programmes organised. Sir highlighted the opportunities to the students available in DSI. Sir included the MoU signed between DSI and foreign countries. Sir motivated the students to concentrate on innovation, which will lead them to get good placement opportunities.

Sir gave the idea of 'NIDHI' which was initiated in 2016. Sir said a fellowship amount of Rs. 30,000/- will be provided to the students who has got an innovative idea under this scheme.

It was then followed by the introduction of PRAS. It allocates a fund of Rs. 10 Lakh for each project.

DSI has also organised 'NIDHI Award' last year in which 10 projects has received an fund of Rs. 10 Lakh per project. Sir said 15 start-ups has been in proposal which is yet to be started, which is named to be 'IEDC new'. In this plan an amount of Rs. 5 Lakh will be provided to the institution for setting up an high-tech infrastructure. Sir invited students to look into 'Invest India' website for further ideas.

Sir insisted the Govt is giving first priority to innovation and advised students to become entrepreneurs of job seekers.



6. The next session was followed by the presentation by the students for the academic year 2017-18.

1. Clean Rest - Ozonation System in Public Rest Rooms

Dr. Naveen Vasantha Sir enquired about the cost required to implement the project. Sir asked whether it can be recycled. All questions were answered by Dr. Madhusudhanan Sir.

2. Design and fabrication of Horticulture de-leafing machine:

Sir enquired whether there is any existing model or prototype. He asked whether the machine can be used for thorns.

Dr. Madhusudhanan Sir replied the crude model is available, and a little amount of fund is required for commercialization.

3. Mobile Based ECG Monitoring:

Sir asked about the uniqueness of the product and about the software methodology of implementation. Dr. Madhusudhanan Sir replied software includes cloud and cost is around Rs. 4000/-

4. Capsicum greenhouse farming using Robot:

Sir raised questions about the cost of the robot, how the robot can be controlled. Dr. Madhusudhanan Sir briefly described the challenges and the methods to overcome them.



5. Design and development of Portable and Low Cost Thermoforming machine for Dental applications

Sir discussed few points in design principle and about 3D model. Questions were raised about the cost of the project and it was answered by Prof. S. Senthil Kumar.

6. Driver fatigue Warning System using Smart phone

Sir asked about the existing models in market. Dr. Madhusudhanan Sir replied Volkswagen etc is working on this concept but the uniqueness of this project is to use machine learning algorithm, with accelerometer concept.

7. An automated Intelligent Technical Interview

Sir asked about the competitors availability in the market and the methods of uniqueness. Dr. Madhusudhanan Sir replied the competitors are interview Zen, Codility, Code interview and HackerRank for work. Further the uniqueness of the project were stated as 360° view of Company's requirements and algorithm can be re-trained.

8. Mechanical Weeding Unit:

Design Principle were discussed in detail. Sir raised questions about the manual power necessity and uniqueness.

Prof. S. Senthil Kumar explained about the model which is to be developed.



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9. Green Harvesters:

Sir gave few suggestions to include motor which will help farmers a lot. The concept for multi-crops was discussed. Prof. S. Senthil Kumar replied by changing the blades this can be achieved.

10. Efficient and cost effective Mechanized floor cleaning device.

The uniqueness and the cost of the product were discussed.

Dr. Naveen Vasishtha Concluded by stating all the ideas were good and motivated students to still come up with new ideas.

7. Vote of Thanks was delivered by Prof. S. Senthil Kumar.

8. All the delegates viewed the demo of old projects of IEDC.

S. Ch



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2017-2018

Er. PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING
HOSUR

IEDC, NSTEDB, DEPARTMENT OF SCIENCE AND TECHNOLOGY

VENUE: IEDC Board Room

DATE: 24th Jan 2019

TIME: 9.30 AM

INVITATION:

IEDC advisory Board members are cordially invited for fourth Advisory Committee meeting to discuss the following points from Agenda.

AGENDA

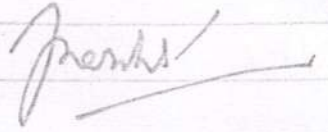
- * Welcome Address — Mr. D. Gajendran,
Manager Innovation Centre, PMC
- * IEDC Progress Report Presentation — Prof. S. Senthil Kumar
Coordinator Operation, Pmc Tech.
- * Presentation of Proposed Ideas — Students with
for Year 2018-19, Evaluation & Mentor Support
Demo of 2017-18 Projects
- * Address by Director IEDC-DST — Dr. Naveen Vasishtha,
Director/Scientist F,
Department of Science and Technology
- * Conclusion of IEDC Advisory
Committee Meeting — Dr. S. Chitra,
Principal,
Pmc Tech.
- * Vote of Thanks — Prof. M. Sahithullah



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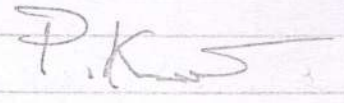
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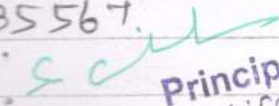
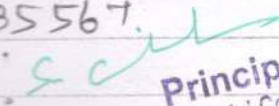
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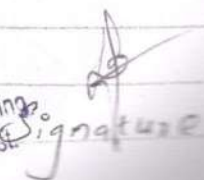
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11. S.



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MINUTES OF MEETING:

The fourth Advisory Committee meeting was held on 24.1.19 at TEdC Board Rooms and the following minutes were recorded.

1. Initially the meeting was started by welcome address by Mr. D. Gajendran, Manager, Innovation Centre. The Tech. Sir welcomed the gathering and expressed his happiness for the meeting to happen in our institution.

2. It was then followed Presentation of TEdC Program report by Prof. S. Senthil Kumar Co-ordinator Operation. The presentation began with a brief profile of the institution. and Sir continued with the list of advisory member Council and then the achievements in our institution was listed out.

This includes TEdC, MSME business incubator, Women Technology Park, SRO, and initiatives going on inside the institution. Sir then listed out the opportunities provided to the students in our campus. Sir briefed about "Atal Linking Lab" in which the government school students got benefited from our institution.

The achievement of the student in Project Skill Summit, in which students got 1st prize in 2 categories were listed. The inaugural function of Women technology park were also



Principal

The presentation included our alumni entrepreneurs, who are successfully running their own business. The project summary of previous Terc projects were listed out. Sir gave an basic idea of Terc projects which are going to be presented for this academic year 2018-19. Sir presented the self-sustenance plan to be carried out in future. Finally Sir gave a brief about the links with the professional bodies which is helping our institution a lot.

3. It was then followed by the presentation by the students for this academic year 2018-19.

1. Automated System of fertilizer requirement for infected rice crops:

* It was presented by the students of Computer Science and Engineering.

Dr. Nareen Varishtha enquired about the existing products in market. Dr. Madhukhona

Sir replied presented cameras are used.

Sir said the idea is good.

2. Development of Smart Sink for Domestic Purpose:

* It was presented by the students of Mechanical Engineering. The students presented a prototype which they have worked out earlier.

Sir asked about the innovation in this product.

Sir replied, even if the product is



3. Development of Preheat machine for chocolate 3D Printer:

It was presented by the students of Electrical and Electronics Engineering. The students clearly explained about the existing method and the proposed method. Sir enquired about the cost of both the methods. Sir further asked about the market value available for this product when commercialised.

4. Development of Low cost filament Extrusion unit for FDM Based 3D Printers:

It was presented by Mechatronics Engineering students. The members asked for the innovation in this product. Sir enquired about the market value for this product. When asked for the development cost the students replied to be around 66,000.

5. Design and Develop a More efficient and Low cost Solenoid Engine:

It was presented by Mechanical Engineering students. Sir asked about the innovation in this project. Students explained about the methodology and working principle in detail. Students briefed about the difference of Solenoid Engine from IC Engine. Finally Sir enquired about the market value and suggested to have discussion with the leading companies. The students displayed the concept through a video.



6. Energy Auditing application for Educational Institutions:

It was presented by the students of Information Technology. Sir enquired about the cost to which the students replied it is around 50,000. Sir replied taking it for house-hold appliance will be high, students replied for increasing the efficiency, the cost factor is high.

7. IoT Based MultiPurpose Digital Display Board:

It was presented by the student of Electronics and Communication Engineering. Sir enquired about the innovation of this product. Students replied this product can be used for multi-purpose applications. Sir asked for the market value.

8. Development of Drainage clog Removal Robot:

It was presented by the student of Mechatronics Engineering. The student presented the working principle and they gave the demo of the prototype. Sir enquired about the components used in this product.



S. [Signature]
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4. The presentation was followed by a Special address by Dr. Naveen Vasishtha, Scientist f-grade from Department of Science and Technology.

The first point Sir insisted to develop a Product and to Concentrate on Commercialisation. Sir gave a glimpse about the "INSPIRE" Program. Sir said 100 crore rupees the government is spending each year for the innovation and National Innovation festival is celebrated in Rastrapati Bhavan each year. The next point was to Concentrate on Eco-friendly products.

Sir briefed about New Gen TEdC which has been initiated now. Sir advised the students to participate in lot of innovation challenges.

Sir said to focus on IIT Bombay, SEED Support, and Sir said how to get Mentors, to focus on Commercialisation. Sir advised to apply for TBI which is a great initiation to the institutions. Sir then shared about NIDHI awards which is given to the students for best innovators. Sir said about DSI, which at present is doing lot of innovative programs. Sir interacted about the National innovative fest which is going to be held at March.

5. It was followed by the Conclusion of TEdC Advisory Committee meeting by Dr. S. Chitra, Principal, Puc Tech.



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6. The session ended with vote of Thanks by Prof. M. Sahithullah, IQAC co-ordinator. It was concluded by extending gratitude to everyone for making this day worthy.
7. All the delegates saw the demo of the previous IEDC projects.



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