



DHANALAKSHMI SRINIVASAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
NH-47, Palakkad Main Road, Navakkarai, Coimbatore - 641 105



Best Practice -1: Innovation Project Contest (IPC)

The Innovation Project Contest is a visionary project of Dhanalakshmi Srinivasan College of Engineering Coimbatore (DSCE) practiced to provide the students an open platform to display their technical innovations converted into ideas on ground. The Young Inventors exhibit their working models of modernization ideas for open reviews and improvisation.

The platform has proven to be a extremely successful instrument for Collaboration of Ideas where likeminded young inventors interact, learn, join hands, and explore the opportunities with each other.

This project in the past 2 years has attracted more than 300-400 participants. The young inventors have been exploring, drafting, designing, prototyping, and demonstrating their inventions for expert reviews and improvisation.

The project provides ample opportunities to the students for exploring themselves beyond horizons under the able guidance of mentors and industrial experts. The project provides wider practical exposures to the students about implementation of theories in real life for modernization and improvement of lives.

In past 02 years, the project served its open platform to more than 150 projects on various innovative titles like, 3d printing model, electrical vehicle, plates out of onion, health monitoring systems, ERP development, hacking tools, bricks made of different materials and etc.

The project has been appreciated and endorsed by personalities like Mr. Shraavan Kumar, Program Planning, BMW Group Plant, Mahindra World City, Chennai and Mr. Charles Edwin, HR leader, ZOHO corporation Pvt Ltd., Guduvancherry, Chennai.

The project has proved outcomes towards creating start-ups venture on E-Vehicles, plate manufacturing, patents on health monitoring systems, publications of journals and funding for projects from TNSCST

Dhanalakshmi Srinivasan College of Engineering Coimbatore (DSCE) is deliberating to further expand this innovation project contest to a global level aiming at academic scholars from pan India and abroad to display their Technical innovations.

C. J. -

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Glimpse of "Innovation Project Contest"



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Tangible Outcomes of “The Innovation Project Contest”

Startup registration:

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202111019001 A
(19) INDIA	
(22) Date of filing of Application :24/04/2021	(43) Publication Date : 04/06/2021
(54) Title of the invention : WIRELESS SENSOR BASED ARTIFICIAL INTELLIGENCE SYSTEM AND DEVICE FOR FETAL HEALTH MONITORING DURING PREGNANCY	
(51) International classification	(71) Name of Applicant : 1) Dr. Vijay Dhir Address of Applicant : Professor, Computer Science and Engineering, Sant Baba Bhag Singh University, Village Khiala, Padhiana, Punjab 144030, India Punjab India 2) Dr. Harpreet Kaur 3) Mr. Dhiraaj Kapila 4) Dr. Chethana Prakash 5) Dr. Shantanu Saurabh 6) Dr. Sivakumar Sathasivam 7) Dr. Suresh Arumugam 8) P. Yuvaraj 9) Bhaskar Roy 10) S. Sam Karthik 11) Bikas Mondal 12) Ramkrishna Rakshit 13) Dr. S. Balamurugan
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA
(57) Abstract :	(72) Name of Inventor : 1) Dr. Vijay Dhir 2) Dr. Harpreet Kaur 3) Mr. Dhiraaj Kapila 4) Dr. Chethana Prakash 5) Dr. Shantanu Saurabh 6) Dr. Sivakumar Sathasivam 7) Dr. Suresh Arumugam 8) P. Yuvaraj 9) Bhaskar Roy 10) S. Sam Karthik 11) Bikas Mondal 12) Ramkrishna Rakshit 13) Dr. S. Balamurugan
The Wireless Sensor-based Artificial Intelligence System for Fetal Health Monitoring During Pregnancy (WSAIFHM) helps the user to make use of the WSAIFHM by the user itself to know the current status of the basic fetal and maternal health without going to the hospital. Sensors in the wearable elastic belt are sensing the fetal health data like heartbeat rate, size, and positions, movements, etc., and fetal surrounding data like amniotic fluid, etc., and mother heartbeat rate and breathing pattern while using the belt. These values are transferred to the WSAIFHM control unit dynamically. The WSAIFHM control unit analyzes and predicts the data and makes the necessary reports/warnings through the smartphone display and speaker to the user using a wireless antenna. The user can know the basic information about fetal health daily/whenever required. The control unit communicates with the registered stakeholders (hospital, doctor, nurse, relatives) through text messages, graphs, and voice calls about the fetal and mothers' current situations based on the sensed data. If any unexpected data then the user can contact the hospital immediately. The stakeholders are helping the user when the information is received. The WSAIFHM control unit is monitoring the successful functioning of the whole WSAIFHM system. By using this WSAIFHM, the user can make use of the WSAIFHM by the user itself to know the current status of the basic fetal and maternal health without going to the hospital and protect from unexpected situations.	
No. of Pages : 15 No. of Claims : 3	

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The Patent Office Journal No. 23/2021 Dated 04/06/2021




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Grant received:


TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
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DR. R. SRINIVASAN, M.A., M.S., M.L.S., M.A.S.S. (M.A.)
Member Secretary

Ref: TNSCST/FA/SSWVR/137/2018-19 6/2/19 09.05.2019

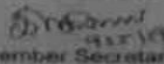
To:
Mr. S. Sathesh
Assistant Professor
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Sir/Madam,
Sub: Partial Financial Support- "National Level Seminar on Utilization of E-waste in Construction"- Coimbatore, 25.04.2019-26.04.2019- Approval - Reg.
Ref: Chairman approval dated 27.03.2019


With reference to the above we are happy to inform that a sum of Rs.20000/- has been approved as partial financial support for the above programme. If in case of those programmes which are already completed, you are requested to send two copies of the programme report containing details of the programme, invitations, technical details, list of participants, photographs, press release etc., and utilization certificate to the Council within one month from the receipt of this letter. In case of those programmes which are to be organized a copy of the invitation and final details of the programme may be sent to the Council. The rescheduled plan should be intimated to the Council on or before 31.05.2019. The grant will be released after the receipt of above materials.

Any programme material printed after the receipt of this approval should acknowledge the Council's support as "Catalyzed and financially supported by Tamilnadu State Council for Science and Technology, Dept. of Higher Education, Government of Tamilnadu".

With wishes,

Yours faithfully,

Member Secretary

Copy to:
The Principal,
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