

NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

ISO 14001:2015 & ISO 9001:2015 Certified Institution,
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Accredited by NAAC A+, Recognized by UGC with Section 2(f) and 12(B)
NBA Accredited UG Courses: AERO, CSE
T. M. Palayam, Coimbatore-641 105



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3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs) (2021-2022) 3.1.3 Number of departments having Research projects funded by government and non-government agencies during the year (2021-2022)

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co- investivator	Department of Principal Investigator	Amount Sanctioned	Name of the Funding Agency	Page no
Conduct of Project under Research Promotion Scheme	Dr.V.Jayaraj	Electronics and Communication Engineering	10.7	All India Council for Technical Education	03
Fabrication of solar grass cutting Machine	Mr. S.Daison Stallon	Electrical and Electronics Engineering	0.075	Tamilnadu State Council for Science and Technology	
Thermomechanical and SEM studies on short basalt fiber (SBF) reinforced PA6 composites and its hybrids.	Dr. C.R. Raajesh Krishna	Aeronautical Engineering	0.075	Tamilnadu State Council for Science and Technology	
Advanced System Controlling and water saving in Agriculture	Mr. A. WasimRaja	Computer Science and Engineering	0.075	Tamilnadu State Council for Science and Technology	08
Computing-Based Smart and Portable System for Drug Dispatch System using IoT in Real Time	Mr.Madan Mohan	Computer Science and Engineering	0.075	Tamilnadu State Council for Science and Technology	
CSIR Seminar on State of the art of hybrid super capacitor for greener environment	Dr. P. Periasamy	Electrical and Electronics Engineering	0.25	Council of Scientific and Industrial Research	14



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T. M. Palayam, Coimbatore-641 105

Perspective Amelioration in Computing via IoT in Real Time Applications	Mr.Madan Mohan	Computer Science and Engineering	0.1	Council of Scientific and Industrial Research	23
Advanced Data Science and its Applications	Dr. N.K. Sakthivel & Dr.S. Subasree	Computer Science and Engineering	0.5	Science and Engineering Research Board	33
Security Issues & Challenges in 5G Wireless Networks	Dr.D.Satishkumar	Computer Science and Engineering	0.1	Council of Scientific and Industrial Research	48
ATAL Academy Programme on Conceptual and Practical Knowledge Sharing and Training Sessions on Computational Fluid Dynamics	Dr.K.Sathish Kumar	Aeronautical Engineering	0.93	AICTE Training and Learning Academy	55

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj,

New Delhi-110070

RPS - Sanction Letter

File No. 8-118/FDC/RPS/POLICY-1/2021-22

The Drawing and Disbursing Officer All India Council for Technical Education Nelson Mandela Marg, Vasant Kunj, New Delhi-110070. J. Me

10 FEBDate:2

Dr. P. MANHARASAN

Principal

Nehru Institute of Engg & Technology

T.M.Palayam, Coimpatore - 641 105 Release of a sum of Rs. 936250/- being the 1st installment of the total grant of Rs. 1070000/- for conduct of Project under Research Promotion Scheme (RPS) during the financial year 2021-22.

Sir.

Sub:

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs. 936250/- (Rupees Nine Lakh Thirty Six Thousand Two Hundred Fifty Only) as 1st installment out of a total approved grantin-aid of Rs.1070000/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:-

	Name and address of the Beneficiary Institution (University / College / Institution)		Registrar / Director / Principal, NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY, "NEHRU GARDENS" THIRUMALAYAMPALAYAM (PO), COIMBATORE-641105, TAMIL NADU
11.	Principal Investigator's Name & Dept./Course	:	Dr. VELUSAMY JAYARAJ (COMMUNICATION SYSTEMS)
J. S.	Co-Principal Investigator's Name & Dept.		METTUPALAYAM RAJA (ELECTRONICS AND COMMUNICATIONS ENGINEERING)
IV.	Grant-in-aid Sanctioned	:	Rs. 1070000/- (Rs. 802500/- for non-recurring and Rs. 267500/- for recurring expenditure)
v.	Amount to be Released during the year 2021-22 (as 1 st installment)	:	Rs. 936250/- (Rs. 802500/- Full amount of non-recurring & Rs. 133750/- recurring i.e. 50 % of total sanctioned recurring grant)
VI.	Project Duration	:	3 Years
VII.	Title of the Project	:	Experimental Inquiry of fault analysis in modified multiphase inverter based permanent magnet BLDC drive with interleaved luo converter for reliable transportation solution

I. Release of funds:

- The amount of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY, "NEHRU GARDENS"THIRUMALAYAMPALAYAM (PO) COIMBATORE-641105, TAMIL NADU through PFMS.
- 2. The sanctioned grant-in-aid is debitable to the Major Head "601.12.a (RPS Plan)" Gen. and is valid for payment during the financial year 2021-22.
- 3. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and principles of the Scheme.
- 4. The grant-in-aid is being released in conformity with the Terms & Conditions as well as norms of the scheme as already communicated and also being communicated in this letter.
- II. Maintenance of account by the Institute/PI:
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount
 of interest accrued on the grant.
- 2. The grant is intended to cover items of expenditure/equipment approved by AICTE.
- 3. Acknowledgement of receipt of grant and letter of acceptance of terms and conditions is to be submitted to AICTE within 15 days from the receipt of the grant to the following address:

Director (Faculty Development Cell), AICTE, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

- 4. The accounts of the grantee will be opened for test check by the Council or Comptroller & Auditor General of India or by any officer designated by them.
- 5. The Principal and PI of the institute are requested to verify the correctness of the undermentioned bank account/RTGS/PFMS details submitted by them alongwith the Proposal, in which the grant is being released. In case of any omission, the same should be reported to AICTE immediately along with refund of entire grant: -

Institute Pan No.	Bank Name	Bank Branch	Bank Branch Add.	Account Name	Holder	Account	Account Number	IFSC Code
AAATN3 375R	CANARA BANK	Thirumalay ampalayam	Nehru Garden, Thirumalayampalaya m(po),Coimbatore.	Principal, Institute Engineering Technology	Nehru of &	Saving Account	61692200016024	CNRB0016169

- 6. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/Government of India from time to time. Grantee institution must follow GFR guidelines in procuring the sanctioned items and maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
- 7. Interest accrued on the sanctioned grant-in-aid will be reported and refunded to AICTE and not adjusted against the

III. General Instructions:

- 1. It should be ensured that no RPS project in favour of the same P.I. has been sanctioned during the last 03 years before utilizing this amount and the matter be brought to the notice of this Council immediately in case a faculty is sanctioned
- 2. The duration of Project is 03 years and the date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Registrar/Director/Principal shall intimate about the receipt of the grant to AICTE. Any Expenditure, incurred prior to issuance of this Sanction Order, would not allowed to be adjusted in the grant and if the University/Institution do not take-up the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse and the Institute has to necessarily refund the entire grant to AICTE along with interest within a month. In case the grant is not refunded within said duration 18% interest will be levied on it. The grant has to be refunded to AICTE, through

Account Number	MANUFACTURE AND
Name of the Account Holder	55113199952
Bank Name	Member Secretary, AICTE, New Delhi
Branch Name	State Bank of India
IFSC Code	Shashtri Bhawan, New Delhi
THE RESIDENCE OF THE PROPERTY	SBIN0050203
he Institute may constitute and	

- 3. The Institute may constitute a Project Monitoring Committee (PMC). The composition of the PMC shall be as under:
 - Principal/Director of the institution (Chairperson) Í.
 - ii. Two HODs from institute (Members)
 - In case of private institute one subject expert from government institute, not below the rank of Associate Professor iii. iv.
 - Coordinator of the project (Member Secretary)
- 4. The grant shall be utilized strictly for the purpose as specified in the sanction letter. Re-appropriation of funds from one Head to another is strictly not permitted viz. Recurring and non-recurring Heads. Further, the equipment(s)/item(s) purchased should be as per the specifications and individual item-wise costs sanctioned by AICTE, and not taking the total grant sanctioned as one entity. Item-wise purchase cost shall be matched with the sanctioned cost, and the cost of item purchased below the sanction cost shall be restricted as actual cost. If the item purchase cost is higher than its sanctioned cost, the cost shall be restricted to the sanctioned cost and the additional amount shall be met by the Institute from its own
- 5. Similarly, the recurring grant can be used for the items (non-recurring) sanctioned by the AICTE. No money be used for going abroad to attend Conference / seminars. However, for presenting a Paper in a Seminar / Conference within the country,

Contd...3/-

Principal Nehru Institute of Engg & Technology T.M. Palayam, Compatore - 641 105.

8.M

Dr. P. MANIIARASAN

- 6. No request for additional grant over an balayarth complete grant amount, if any, expended beyond the sanctioned grant shall be met by the Institute from its own resources.
- 7. The institute/University shall not charge any overheads on this Project and will provide all the administrative support and timely release of grant to PI for completion of the Project.
- 8. The grantee shall utilize grants only on approved items as per list of equipment attached. However, if the grantee wishes to recast the Project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as per the norms/procedures of AICTE/Government of India. The revised proposal should be within the total grant sanctioned and duly supported with reasons and recommendations of the Project Monitoring Committee (PMC).
- 9. The assets acquired wholly or substantially out of All India Council for Technical Education's grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the All India Council for Technical Education.
- 10. Each project sanctioned by AICTE is assigned a specific Reference Number, which is given on pre-page. All correspondence address to AICTE regarding the project must quote this number alongwith year of sanction of the project, otherwise correspondence may not be entertained.
- 11. The grantee shall follow the terms and conditions of Research Promotion Scheme (RPS) as laid down by the Council from time to time.

IV. Submission of documents by the institute/PI to AICTE:

- A. Documents to be submitted within one month of completion of each financial year:
 - i. Annual Progress Report, indicating therein the number of patents, publications or any other achievement.
 - ii. Utilization Certificate, Audited Utilization Certificate, Receipt & Payments, Statement of Expenditure.
 - iii. Audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets in the prescribed form i.e. GFR-19.
 - iv. Separate Bills/vouchers related to Non-recurring and recurring expenditures duly signed & stamped by the PI & Head of the institution.
 - v. Stock entry register duly verified by the Store-in-charge and PI & counter signed by Head of institution.
- B. Documents to be submitted within two month of completion of the Project:
 - i. The consolidated Utilization Certificate (UC) and Receipt & Payment Account for the Project duration, duly audited.
 - ii. Consolidated audited statement of expenditure, to the effect that the grant has been utilized for the purpose for which it has been sanctioned. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council.
 - iii. Project Completion Report duly signed & stamped by the PI & Head of the institution and Project Evaluation Committee (PEC) Members.
- iv. Principal Investigator/institute to submit the Feed Back Form in AICTE format.
- v. The prescribed formats for submission of necessary mandatory documents and Terms & Conditions may please be downloaded from www.aicte-india.org/schemes/research-innovations-development-schemes.

Note: Any deviation from the above said time schedule will cause serious action against the institute.

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V. Approved List of Items under Non-recurring grant:

S. No.	Approved Items (As per proposal)	No. of Units	Amount recommended (in Rs.)
A.	Non-recurring		· /
i)	Battery (Lithium Iron)	and the state of t	
ii)	Design and Fabrication of 2Kw five phase BLDC motor drive	The state of the s	
iii)	FPGA	management company of the first	
iv)	Fluke 80I-110Sac/dc current probe, 600V AC rms voltage, 70A AC/100A DC current	2	Rs. 802500/-
v)	Fluke-Handheld digital storage oscilloscope color scope meter	anno anno traste con a anno an anno a che di Paris de la collection de l'annotation de consequences	
vi)	Desktop PC		
vii)	Power Analyzer fluke 87 meter and a DM-111 amprobe	1	
viii)	Power electronics multi-phase inverter	A commence and a few all property of the commence of the comme	
ix)	luo converter	And the second s	Rs. 133750/-
В.	Recurring i.e. 50% of total approved recurring grant) for Contingencies & Consumables only		13. 2337307
	The second secon	and the second s	Rs. 936250/-
	Grand Total (A) + (B)	promote the second of the second	the considerate of the state of

Copy forwarded for information and necessary action to:

1. REGISTRAR / DIRECTOR / PRINCIPAL,

NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY, "NEHRU GARDENS"THIRUMALAYAMPALAYAM (PO) COIMBATORE-641105, TAMIL NADU

2. NAME OF PRINCIPAL INVESTIGATOR,

Dr. VELUSAMY JAYARAJ,
(COMMUNICATION SYSTEMS)
NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY,
"NEHRU GARDENS"THIRUMALAYAMPALAYAM (PO) COIMBATORE641105,
TAMIL NADU

- 3. OFFICE OF DIRECTOR GENERAL OF AUDIT GENERAL REVENUES, AGCR BUILDING J.P. ESTATE, NEW DELHI-110002.
- 4. GUARD FILE

Dr. P. MANIIARASAN
Principal
Nehru Institute of Engg. & Technology

T.M.Palayam, Coimbatore - 641 105.

(Col. B. Venkat) Director (FDC)

Date	Particulars	Withdrawals	Deposits	Balance
02-02-2022	NEFT DR-P033220151149804-SBIN0010432-MANI SEKARAN-PRINCIPAL NEHRU INST	2,500.00		4,96,572.95
02-02-2022	P. NEFT SC	3.00		4,96,569.95
02-02-2022	NEFT RETURN-ACCOUNT DOES NOT EXIST-DR N K KARTHIKEYAN-P033220151138209PRINCIPAL NEHRU INST		2,500.00	4,99,069.95
25-02-2022	SELF - THIRUMALAYAM	15,000.00		4,84,069.95
25-02-2022	SELF - THIRUMALAYAM	17,322.00		4,66,747.95
25-02-2022	NEFT DR-P056220155271991-IDIB000S107- KARTHIKEYAN-PRINCIPAL NEHRU INST	2,500.00		4,64,247.95
25-02-2022	NEFT SC	3.00		4,64,244.95
28-02-2022	MICR CHQ BK ISSUE OTH THAN IND	118.00		4,64,126.95
08-03-2022	ECS CREDITTHROUGHPFMS		9,36,250.00	14,00,376.95
19-03-2022	SMS ALERT CHARGES NEW	18.00		14,00,358.95
23-03-2022	NEFT CR-P082220160097796-CNRB0019100-EMR CSIR-21047		25,000.00	14,25,358.95
24-03-2022	BY CLG:CHN ACCT SEC-INDIAN BANK (INB), MEMBER SECRETARY TN STATE COUNCIL SCIENC		30,000.00	14,55,358.95
04-04-2022	COMM - SERVICE CHARGES 04-APR-22 STMT CH	100.00		14,55,258.95
04-04-2022	SL - GST - NORMAL CHARGE	18.00		14,55,240.95
12-04-2022	DAISON STALLON S - DAISON STALLON S	7,500.00		14,47,740.95
12-04-2022	RAAJESHKRISHNA C R - RAAJESHKRISHNA C R	7,500.00		14,40,240.95
12-04-2022	WASIM RAJA - WASIM RAJA	7,500.00		14,32,740.95
12-04-2022	M MADAN MOHAN - M MADAN MOHAN	7,500.00		14,25,240.95
30-04-2022	SBINT FOR THE PERIOD FROM01-FEB-22 TO 30-APR -22		7,489.00	14,32,729.95
04-07-2022	UPI/CR/218516918427/MR. S VEN/IDIB/**01540@PAYTM/NA//PTM0C136935C31C42 98A9CDB445A74B626A/04/07/2022 11:20:58		13,954.00	14,46,683.95
31-07-2022	SBINT FOR THE PERIOD FROM01-MAY-22 TO 31-JUL -22		10,504.00	14,57,187.95
21-09-2022	NEFT CR-RBI2642247316421-RBIS0PFMS01-CSIR- EMR-NULL		10,000.00	14,67,187.95
		Closing Bala	ance	14,67,187.95

Dr. P. MANIIARASAN

Principal
Nehru Institute of Engg & Technology
T.M.Palayam, Coimbatore - 641 105.



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennal - 600 025 Ph : 044-22301428, Telefax : 044-22301552 www.tanscst.nic.in

Dr.R.Srinivasan, M.Sc., Ph.D.,F.I.C.S., M.A.C.S.(USA)., Member Secretary

Lr.No.TNSCST/SPS/2021-2022/

11.03.2022

To

The Principal

Nehru Institute of Engineering and Technology

Thirumalayampalayam, Coimbatore-641105

Sir/Madam.

Sub: TNSCST - Student Project Scheme (2021-2022) - approval intimation-grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and seminar paper in time.

No	in time. Guide Name and	Title of the Project	Students Name	Project	Amount
NO	Institutional Address		L.Manickavasaka	Code EEE-0246	7500/-
ì	Mr.S.Daison Stallon, AP Department of EEE Nehru Institute of E&T	Fabrication of solar grass cutting machine	m, S.Shajadh		
2	Dr.C.R.Raajeshkrishna Associate Professor, Dept. of Aeronautical Engineering Nehru Institute of E&T	Thermomechanical and SEM studies on short basalt fiber (SBF) reinforced PA6 composites and its hybrids	Garry Kiristen.A Rakesh.B Sakthivel.P Steeve Calch.J	ЕМЕ-0591	7500/-
3/	Thirumalayampalayam, Coimbatore-641105 Mr.A.Wasim Raja Assistant Professor, Department of CSE Nehru Institute of E&T	Advanced system controlling and water saving in agriculture	Venkatesh.N, Ajaykumar.J, Akash.R	AS-045	7500/-
4	Coimbatore-641105 Dr.M.Madan Mohan Assistant Professor, Department of Computer Science and Engineering Nehru Institute of E&T Thirumalayampalayam, Coimbatore- 641105.	Computing-based smart and portable system for drug dispatch system using IoT in real time	Anju Mol.K, Harini.A, Kesiya George, Naurin.M	CSE-0211	7500/-

Herewith enclosed the cheque for the approved grant and disburse the grant to the concerned students through the guides at the earliest.

Kindly send the utilisation certificate (format enclosed) and seminar paper (Ref.T&C-No.5&6) on completion of the project.

Thanking you,

Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 105.

Yours faithfully.

Member Secretary.

Encl: a) Terms & Conditions (T&C)

b) Format of Utilisation Certificate (UC)

c) Cheque for Rs.30,000/- No: 409345 dt:11.03.2022

..... The individual guides

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE Campus, Chennai-600025

STUDENT PROJECTS SCHEME 2021-2022

Terms and Conditions of the grant

- 1. The project team <u>SHOULD NOT</u> change the topic of the project and should not deviate from the objectives of the sanctioned proposal. In the event of any such changes, sponsoring will be treated as cancelled and the college should return the sanctioned amount to TNSCST.
- Every sanctioned project is allotted with a Project code Number. Please refer this number while corresponding with TNSCST.
- 3. The project sanction letter and the money will be sent to the Principal/Registrar of the institution with a copy to the Project guide.
- 4. The sanctioned project should be completed and the report should be submitted before end of May 2022.
- 5. The state council will review the progress of the project at any time before completion of the project.
- 6. On completion of the project, 2-3 pages seminar paper (500 words, Times New Roman, 12 font size, single column, margins left- 2.5cm, right-2cm, top-2cm & bottom- 2cm, Word format without any figures & tables) should be submitted/uploaded in the council website.(link will be activated in due course of time) by mentioning the project code.
- 7. Utilization certificate (UC) should be sent to The Member Secretary, Tamilnadu State Council for Science and Technology, DOTE Campus, Chennai-600025. The Utilization Certificate should be signed by the Guide, HOD and Principal/Registrar/Dean with official seal as the case may be.
- 8. The guides are responsible for timely submission of Seminar Paper and UC.
- 9. The seminar paper will be included in the form of <u>Proceedings</u> which will be brought out during Seminar cum Exhibition, only for those who submit the UC
- 10. Anyone student of the project team should present and exhibit the findings before the experts in the Seminar cum Exhibition which will be organized during July/August 2022.
- 11. The project model /fabrication/equipment are all properties of the council and therefore these are to be kept safely in the college and it should be handed over to the council with necessary details and bills as and when required.
- 12. During the Seminar cum Exhibition," best project award and certificate" will be presented to the outstanding selected projects and completion certificates to all.
- 13. The council reserves the right to terminate the project at any stage if it is convinced that the grant has not been properly utilized or appropriate progress is not being made. In addition, the Council may designate officer/an Expert to review the work done.
- 14. If the guide wishes to leave the Institution where the project is based, the Institute/guide will inform the same to the Council and in consultation with Council, evolve steps to ensure successful completion of the project, before relieving the guide. The Council reserves the right to order verification/audit of accounts by any Officer authorized by it. The bills and accounts shall be kept safely.

Dr. P. MANIIARASAN

Principal
Nehru Institute of Engg. & Technology
T.M.Palayam, Coimbatore - 641 105,

- 15. Unspent money if any should be refunded in the form of DD drawn in favour of The Member Secretary, Tamilnadu State Council for Science and Technology, DOTE Campus, Chennal-600025 payable at Chennal.
- 16. Students/faculties are requested to publish the research papers emerging out of the project work in leading Journals.
- 17 Investigators must acknowledge the Council in reports and technical/scientific papers publishing based on the research work done under the project
- 18. If the results of research are to be legally protected by way of patent/copy rights etc. the results should not be published in any form without action being taken to secure legal protection for the research results.
- 19. The state council encourages the students/faculties, who want to protect the results/invention created out of the project by getting patents through its Patent Information Centre free of cost.
- 20. The knowledge generated from the project will be the property of TNSCST and should be properly acknowledged. Transfer to technology generated shall be done in consultation with the Council.
- 21. The recipient organization shall comply, with such other conditions as may be suggested in the 'guidelines' issued in this regard from time to time.
- 22. All further correspondence should be addressed to The Member Secretary, Tamilnadu State Council for Science and Technology, DOTE Campus, CHENNAI-600025 and should include project code.

MEMBER SECRETARY

Dr P MANIIARASAN

Principal
Nehru Institute of Enga & Technology
T.M.Palayam, Coimpatore 641 105.

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE CAMPUS, CHENNAI - 600 025

STUDENT PROJECT SCHEME 2021-2022 **UTILIZATION CERTIFICATE**

(TWO COPIES)

Name of the guide and address 1.

C.R.Raajeshkrishna,

Associate Professor,

Department of Aeronautical Engineering,

Nehru Institute of Engineering and Technology,

Coimbatore - 641 105 rajesh17171@gmail.com

2. Name of the students(s) Garry Kiristen A

Rakesh B

Sakthivel P

Steev Caleb J

Title of the project 3.

THERMOMECHANICAL AND SEM STUDIES

BASALT FIBER SHORT (SBF) REINFORCED PA6 COMPOSITES AND ITS

HYBRIDS

4. Project code EME-0591

It is certified that a sum of Rs 7,500 (Seven Thousand Five Hundred) sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs 0.00 remaining unutilized is refunded.

Signature of the Guide

Signature of the HOD

institute of Engineering and Technology venru Gardens, Thirumalayampalayam,

Compatore - 341 105.

Nehru Institute of Engg & Technology T.M.Palayam, Coimbatore - 641 lus.

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE CAMPUS, CHENNAI - 600 025

STUDENT PROJECT SCHEME 2021-2022 UTILISATION CERTIFICATE

(TWO COPIES)

1. Name of the guideandaddress

: Mr. A. WASIM RAJA

2. Name ofthestudent(s)

: AJAY KUMAR J, AKASH R K, VENKATESH N

3. Title oftheproject

: ADVANCED SYSTEM CONTROLLING AND

WATER SAVING IN AGRICULTURE

4. Projectcode

: AS-045

It is certified that a sum of Rs 7500 (Seven Thousand Five Hundred) Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of NIL amount remaining unutilized is refunded.

Signature of the guide

REGISTRAR/PRINCIPAL/DEAN

With SEAL

Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg & Technology I.... Falayam, Coimbatore - 641 105.

Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 105.

Date	Particulars	Withdrawals	Deposits	Balance
02-02-2022	NEFT DR-P033220151149804-SBIN0010432-MANI SEKARAN-PRINCIPAL NEHRU INST	2,500.00		4,96,572.95
02-02-2022	P. NEFT SC	3.00		4,96,569.95
02-02-2022	NEFT RETURN-ACCOUNT DOES NOT EXIST-DR N K KARTHIKEYAN-P033220151138209PRINCIPAL NEHRU INST		2,500.00	4,99,069.95
25-02-2022	SELF - THIRUMALAYAM	15,000.00		4,84,069.95
25-02-2022	SELF - THIRUMALAYAM	17,322.00		4,66,747.95
25-02-2022	NEFT DR-P056220155271991-IDIB000S107- KARTHIKEYAN-PRINCIPAL NEHRU INST	2,500.00		4,64,247.95
25-02-2022	NEFT SC	3.00		4,64,244.95
28-02-2022	MICR CHQ BK ISSUE OTH THAN IND	118.00		4,64,126.95
08-03-2022	ECS CREDITTHROUGHPFMS		9,36,250.00	14,00,376.95
19-03-2022	SMS ALERT CHARGES NEW	18.00		14,00,358.95
23-03-2022	NEFT CR-P082220160097796-CNRB0019100-EMR CSIR-21047		25,000.00	14,25,358.95
24-03-2022	BY CLG:CHN ACCT SEC-INDIAN BANK (INB), MEMBER SECRETARY TN STATE COUNCIL SCIENC		30,000.00	14,55,358.95
04-04-2022	COMM - SERVICE CHARGES 04-APR-22 STMT CH	100.00		14,55,258.95
04-04-2022	SL - GST - NORMAL CHARGE	18.00		14,55,240.95
12-04-2022	DAISON STALLON S - DAISON STALLON S	7,500.00		14,47,740.95
12-04-2022	RAAJESHKRISHNA C R - RAAJESHKRISHNA C R	7,500.00		14,40,240.95
12-04-2022	WASIM RAJA - WASIM RAJA	7,500.00		14,32,740.95
12-04-2022	M MADAN MOHAN - M MADAN MOHAN	7,500.00		14,25,240.95
30-04-2022	SBINT FOR THE PERIOD FROM01-FEB-22 TO 30-APR -22		7,489.00	14,32,729.95
04-07-2022	UPI/CR/218516918427/MR. S VEN/IDIB/**01540@PAYTM/NA//PTM0C136935C31C42 98A9CDB445A74B626A/04/07/2022 11:20:58		13,954.00	14,46,683.95
31-07-2022	SBINT FOR THE PERIOD FROM01-MAY-22 TO 31-JUL -22		10,504.00	14,57,187.95
21-09-2022	NEFT CR-RBI2642247316421-RBIS0PFMS01-CSIR- EMR-NULL		10,000.00	14,67,187.95
		Closing Bala	ance	14,67,187.95

Dr. P. MANIIARASAN

Principal
Nehru Institute of Engg & Technology
T.M.Palayam, Coimbatore - 641 105.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Human Resource Development Group CSIR Complex, Library Avenue, Pusa, New Delhi 110 012

Tel: 011 2584 1037

Email: symposia.travel@gmail.com , web http://csirhrdg.res.in

Hemant Kulkarni Senior Principal Scientist

> Ref No. SYM/10658/21-HRD August 31, 2021

Dr P Periasamy

Assistant Professor, Dept. of Science & Humanities

Nehru Institute of Engineering & Technology

Nehru Gardens, Thirumalayampalayam (Bart) Caimbatana (Cambatana Charles)

Nehru Gardens, Thirumalayampalayam (Post), Coimbatore - 641 105 Tamil Nadu

SUBJECT: State-Of-The-Art & Future Perspective of Hybrid Supercapacitor For Greener Environment during Oct 07-08,2021 at Nehru Institute of Engineering & Technology, Coimbatore

Dear Dr Periasamy

With reference to your application on the above subject, we are happy to inform you that Director General, CSIR has been pleased to sanction a grant of Rs.25000/- (Rupees Twenty Five Thousand Only) subject to the following conditions:

- 1. The grant received from CSIR should be duly acknowledged by email along with a certificate that the grant would be specifically utilized for the purpose for which it has been sanctioned.
- from reimbursed within four months grant may be Conference/Seminar/Workshop etc. is over by filling-in the Grant-in-Aid Bill Form in duplicate duly signed and rubber stamped by the concerned officials, indicating clearly the designation of the official along with Audited Statement of Expenditure for release of grant. Current Proforma for Grant-in-aid bill, Audited Statement of Expenditure and NEFT are available on our website http://csirhrdg.res.in/Home/Index/1/InPage/53/14. If any Utilization Certificates of Previous Grant for symposia (as per Col.No. 15 of the Application Performa) is not submitted till date, please attach copies of Utilization Certificates also. Any claim received beyond 4 months will be entertained only in exceptional cases subject to submission of reasons for delay, duly forwarded through Head of the Organization. In no case, the claim will be entertained after 6 months. All the pages of above documents should be self attested by the organizer.
- Invitation cards should be sent to the Director General, CSIR and Head, HRDG. CSIR may nominate
 three scientists for the above event and registration fee should not be charged from them. In case of
 nomination, the Head, HRDG or the undersigned would issue a letter with a copy to the nominee(s).
- 4. Softcopy (preferably in Pen Drive/CD/ DVD in PDF format) of the full paper proceedings of above event should be sent to the undersigned.
- 5. An overall activity report by the Convener / Organizing Secretary should be made available by email to us with regard to outcome of the gathering, the recommendations and plan of action for future. The names, addresses & email IDs of the participants / delegates should also be sent immediately after the event by email.

Yours sincerely.

(Hemant Kulkarni)

Copy to: Audit (EMR) HRDG

Dr. P. MANIIARASAN
Principal

Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 105.

Form-CSIR/SYM/19/GA



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH **HUMAN RESOURCE DEVELOPMENT GROUP** CSIR COMPLEX, OPP INSTITUTE OF HOTEL MANAGEMENT LIBRARY AVENUE, PUSA, NEW DELHI- 110012, INDIA Email: tgsm[at]csirhrdg[dot]res[dot]in Phone:0112584107

Symposia Grant Scheme for Organising Scientific Events (Symposia/ Seminars / Conferences/ workshops, etc. within India

GRANT-IN-AID BILL (To be filled by the Applicant and submitted in duplicate)

Date: 15.12,2021

To	:
Re	ference

07

Head, HRD Group, CSIR Complex, Pusa, New Delhi-110012

CSIR Sanction No: SYM/10658/21-HRD

10

(Kindly specify.

1. Name of the Organisation under whose auspices the Scientific Event was organized: Nehru Insitute of Engineering and Technology 2. Title/Name of the Scientific Event: State-of-the-Art and Future Perspective of Hybrid Supercapacitor for Greener Environment 3. Venue of the Event (Address): T.M. Palayam, Coimbatore-641105, Tamil Nadu. 4. Period: To From Month Year Date Year Month Date 2021 2021 08 10

5. Brief report (highlights) of the Scientific Event (Less than 1000 words- Attach separate sheet): Enclosed

6. (a) Grant Sanctioned: Rs. 25000 (Rupees Twenty Five thousand (b) Total Actual Expenditure: Rs. 36690 (Rupees Thirty Six Thousand and Six Ninety

(c) Actual expenditure as per Attached Audited Statement of Expenditure for claim from CSIR: Rs. 25000 (Rupees Twenty Five thousand Only Pl tick mark (v) the name of the authority to whom the NEFT payment is to be made:

S.No.	Authority	Mark√
i.	Director	
ii.	Registrar	
iii.	Dean	
iv.	Finance Officer	
v.	Medical Superintendent	
vi.	Principal	
vii.	Any Other Authority designated by your Organization/Institute	Polyanethropa

Note: Grant will be released in the account of Society/Institution/Organization etc only

P. MANIIARASAN

Principal |

Nehru Institute of Engg & Technology TM.Palayam, Compatore - 641 105.

Certified that the amount claimed in this bill was utilized for the purpose for which it has been sanctioned, and the Audited Statement of Expenditure is enclosed as per requirement. Organizer: Head of the Organisation (Place Signature Signature ____ Name: Dr. P. Periasamy Name : Dr. P. Manilarasan Designation: Assistant Professor Designation: Principal Address: Nehru Institute of Engineering Address: Nehru Institute of Engineering and Technology and Technology City: Coimbatore, State: Tamilnadu City: Colmbatore, State: Tamilnadu Pin: 641105 Pin: 641105 Mob No: +91-9894760725 Mob No. +91-9003936804 Email ID: nietperiasamy@nehrucolleges.com Email ID: nietprinsing & Why RASA 19m Seal / Stamp_ Seal / Stamp _ Principal Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 105 TO BE FILLED BY CSIR-EMR Budget Head- EMR (Misc.) P81-104 It is certified that no AC /UC is pending from the Organization/institute in connection with earlier such grants released to them. Pay: Rs:_____(Rupees ___ Name of the authority to whom the NEFT payment is to be made: Director/Registrar/ Dean/Medical Superintendent/ Principal/Finance Officer /_____ as per NEFT format enclosed. Deputy/Under Secretary /DDO TO BE FILLED BY CSIR-Audit (EMR III) MBR No._____ Dated:______Pay Rs._____(Rupees:____ **Dealing Assistant** SO (F&A)/F&AO/DyFA Rs _____paid vide Cheque No _____Dated____through NEFT/RTGS

Dr. P. MANIIARASAN

Principal

Nehru Institute of Enga & Technology T.M.Pałayam, Compatore - 641 105.

Form-CSIR/SYM/19/SE



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH HUMAN RESOURCE DEVELOPMENT GROUP CSIR COMPLEX, OPP INSTITUTE OF HOTEL MANAGEMENT LIBRARY AVENUE, PUSA, NEW DELHI- 110012, INDIA

Email: tgsm[at]csirhrdg[dot]res[dot]in Phone:0112584107

Symposia Grant Scheme for Organising Scientific Events (Symposia/ Seminars / Conferences/workshops, etc. within India

AUDITED STATEMENT OF EXPENDITURE To be filled by the applicant in duplicate

Date: 15.12.2021

Reference: CSIR Sanction No: SYM/10658/21 -HRD

1. Name of the Society / Organisation under whose auspices the Event was organized: NEHRU INSITUTE OF ENGINEERING AND TECHNOLOGY

2 Title/Name of the Event:

STATE-OF-THE-ART AND FUTURE PERSPECTIVE OF HYBRID SUPERCAPACITOR FOR GREENER ENVIRONMENT

3. Period:

From				То	**************************************
Date	Month	Year	Date	Month	Year
07	10	202	08	10	2021

4. Grant Sanctioned: Rs. 25000 /- (Rupees Twenty Five thousand only)

5. Certified that out of Total Expenditure of Rs. 36690 /- (Rupees Thirty-Six Thousand and Six Ninety Only) CSIR Grant of Rs. 25,000 /- (Rupees Twenty-Five Thousand Only) has

been utilized as per the details given below:

S. No.	Budget Head	Amount (Rs)
i	Travel expenses for c. Senior scientists: d. Young Scientists:	20,000
li	Registration Fee Waiver c. Senior scientists: d. Young Scientists:	Nil
lii	Promotion (web site, brochures, others)	5000
lv	Secretarial assistance	3000
v	Local Hospitality	***
vi	Venue Charges	
	TOTAL	25000

Certified by: (PLENSURE ALL SIGNATURES ARE ON THIS PAGE ONLY)

Signature

Name: Dr.P.Periasamy Designation: Asst.Professor

Mob No.: 9894760725 Email ID : nietperiasamy@

nehrucolleges.com Seal / Stampas

Chartered Accountant

Name:

Designation

Mob No.

Seal / Stinance Manager

Nehru Group of Institutions

Head of Organisation 15 (12 2024

Name: Dr.P.Manijarasan Designation: Principal Mob No.: 9003936804 K. CHANDRAN, M.Com., BGL., CAIIB Email ID: nietprinciapl@ nehrucolleges.com

Seal/Stamp Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 185

Dr. P. MANIIARASAN

Principal Nehru Institute of Engg & Technology T.M.Palayam, Coimpatore - 641 105.

REPORT

On

CSIR Sponsored Two Day National Level Seminar on

"State-of-the-Art and Future Perspective of Hybrid Supercapacitor for Greener Environment"

on 07.10.2021 & 08.10.2021

Preamble:

India is destined to make a new paradigm in the adoption of renewable sources of energy to meet the country's ever-increasing energy demand over the next decade.Our society is currently confronted with significant energy-related constraints. Could perhaps ${\rm CO_2}$ emissions and fossil fuel consumption be lowered? How can renewable energies be incorporated into the energy supply? Obviously, these are not new complications; simply stated, no one concerned about the scarcity of fossil fuels until the late twentieth century, even though some warnings emerged amid multiple oil crises. Regardless of the fact that both solar and wind energy deployments have reached a commercially sustainable price limit, the intermittent nature of energy generation from these sources is a significant barrier to their widespread adoption. As a result, in order to control fluctuation, India's planned deployment of renewable energy sources will require technologically and economically effective electrical energy storage.

Because of the significant increase in investments, global research on energy and energy-related topics is becoming increasingly intensive. This is due to the scarcity of conventional energy resources and the issue of global warming. The answers to the preceding questions are energy conservation and management. Electrochemical capacitors, also known as supercapacitors, can play this role because of their capacity to hold higher amounts of energy than regular dielectric capacitors.

It is undeniable that the supercapacitors' performance, such as specific capacities, cycling durability, energy densities, powder densities, price, and so on, are mostly linked to material properties and characteristics. Extrinsic characteristics of materials can be altered to accomplish the required phase. In addition to that the intrinsic properties could be controlled by the material preparation and fabrication techniques. Until recently, a variety of materials, such as carbon materials, conducting polymers, and metal oxides, have been investigated as electrodes for supercapacitor applications. The mainstream of electrification in the transportation is a parallel, but distinct, ambitious national goal.

To meet green environment across the nation, a national level discussion of electrification in vehicle should be arrange via seminar and conference etc. One noteworthy experiment in this direction has been the initiated by Nehru Institute of Engineering and Technology. This Seminar has been successfully organized on 7th and 8th October 2021.

MANIIARAS At lead of the Department

Principal Department of Science & Humanities Principal Itute of Engg & Technology Nehru Institute of Engg. & Technology Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 107

Inaugural Function:

- > The inauguration of CSIR Sponsored two days National Level Seminar was held on 7th October 2021 at 10.00 AM in Nehru Institute of Engineering and Technology, Coimbatore.
- > Dr.P.Maniiarasan, Principal, Nehru Institute of Engineering and Technology presided over the function. Dr.Shalini Packiam Kamala, Head of the Department, welcomed the gathering.
- Dr.M.Sathish, Senior Scientist, Electrochemical Power source division, CSIR-Karaikudi, inaugurated the programme.
- In his address, he pointed out the current scenario of energy storage and conversion research area in india and he also signifies the challenges and opportunities in implementation of energy storage device in vehicle to meet the green environment.
- Finally, **Dr.P.Periasamy**, Assistant Professor, Department of Science and humanities delivered vote of thanks to the gatherings. Faculty members and UG, PG Scholars from various Institutions attended the event.

Session 1:

- > **Dr.M.Sathish**, Senior Scientist, Electrochemical power source division, CSIR-Karaikudi, Tamil Nadu.
- He presented his seminar lecture on **Fundamental of electrochemical supercapacitor**. He pointed out the basic concepts in electrochemical reactions during the charge storage and discharge. He figured out the important of high energy density and power density to meet the requirement of E-vehicles.

Session 2:

- Dr. Perumal Elumalai, Professor & Head, Department of Green Energy Technology, Madanjeet School of Green Energy Technologies, Pondicherry University, Pondicherry
- He presented in his lecture about Hybrid supercapacitors which is prominent due to their higher energy density without affecting their power density. In comparison to traditional electric double layer capacitors (EDLC) and pseudocapacitors, the hybrid supercapacitor has a larger specific capacitance. According to their use within hybrid electric vehicles and other power-requirement-based technologies, research into building new improved storage devices has a bright and promising future ahead of it.

Session 3:

- Dr.S.Anandan, Professor, Nanomaterials & Solar Energy Conversion Lab, Department of Chemistry, NIT-Trichy.
- > He presented about Ultrasound-assisted Synthesis of CNT/Metal oxide

T.M. Palay sin Combatore 105.

Head of the Department

Bepartment of Science & Humanities

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Principal
Nehru Institute of Engg. & Technology
T.M. Palayam, Colimbatore - 641 105

Principal

Nehru Institute of Engo & Technology T.M.Palayam, Compatore - 641 105. Nanocomposite as a Promising Next-generation Energy Storage Material in his seminar lecture. He illustrated the applications of ultrasonic method for hybrid composites preparations with various examples. Finally, he pointed out the excellent outreach of the CNT/Metal oxides composites for electrochemical supercapacitor applications.

Session 4:

- Dr.K. Sakthipandi, Associate Professor of Physics, SRM TRP Engineering College, Research Coordinator for SRM Trichy Campus, Trichy, Tamilnadu, India.
- ➤ In his presentation, he outlined on Recent advances in Perovskite oxides for Supercapacitors in our seminar. During his seminar lecture, he figured out the recent developments in perovskite oxides for supercapacitor application, and also he pointed some highlights of fundamental properties and thereof effect on supercapacitor performance.

Session 5:

- Dr.R.Kothandaraman, Professor, Department of Chemistry, IIT- Madras, Chennai, Tamilnadu, India.
- ➤ He presented on redox flow battery chemistries during his seminar lecture. He explained the fundamental of redox flow during battery functioning. Further, he illustrated his research team activity in redox flow battery.

Session 6:

- Dr.S.Balakumar, Director, National Centre for Nanoscience and Nanotechnology, Chairman, School of Nanoscience and Photonics, University of Madras, Guindy Campus, Chennai.
- ▶ He presented on Zinc Antimonate Nanostructures: An Advanced Functional Material for Super-capacitors in his seminar presentation. He explained about the preparation of various structures of Zinc Antimonate nanocomposites, its detailed characterizations methods. Finally, he concluded with the important findings of his research team and other research team across the globe.

Session 7:

T.M. Polayam

Coimbatore.

- Dr. S. N. Karthick, Assistant Professor, Electrochemical Materials & Devices Lab, Department of Chemistry, Bharathiar University, Coimbatore, Tamilnadu, India
- ➤ He presented on Strategic approach for developing high energy-density supercapacitors in his presentation. He pointed the significance of achieving high energy and power density in supercapacitor. He also shared on the obstacles in achieving these requirements to meet the E-vehicle production. Various techniques adopted for improving the energy density and power density was also discussed during his lecture.

Hor I of the Department

Department in Process & Romanities lehru Institute of Engineering & Technology Nehru Gardens, Thirumalayampalayam Principal Nehru Institute of Engg. & Technology F.M.Palayam, Coimbatore - 641 105

CoiDhat P. MANTARASA

Principal
Nehru Institute of Engg & Technology
T.M.Palayam, Compatore - 641 105.

Session 8:

- > Dr.R.Sivasubramanian, Assistant Professor, NRIIC, PSG Institute of Advanced Studies, Peelamedu, Coimbatore, Tamilnadu, India.
- > He presented on Materials for supercapacitors during his lecture. The selection of materials and synthesizing methodology is a fundamental key parameter in supercapacitor. He briefly explained various metal oxides, carbon based materials, polymer based materials for supercapacitor applications.

Session 9:

- > Dr. R. Gandhi, Professor, Department of EEE, Gnanamani College of Technology, Namakkal, Tamil Nadu, India.
- > He presented on Challenges and Opportunities in E-Vehicle during his lecture. He demonstrated the process of E-vehicle's battery performance with several demo videos. He highlighted the significance of suitable battery for e-vehicles.

Session 10:

T.M. Palay

- > Dr. Murthy Chavali, Dean-Research, Alliance University, Bangalore.
- > He presented on Clean and green hybrid supercapacitors for energy efficiency and other applications in his seminar lecture. He pointed out the significant of hybrid supercapacitors to switch over to the greener environment and also added the challenges and opportunities in hybrid supercapacitor applications.

CSIR Sponsored Two days National Seminar on entitled "State-of-the-Art and Future Perspective of Hybrid Supercapacitor for Greener Environment"was hosted on 7^{th} & 8^{th} October 2021 at 10.00 AM to 5.00 PM. The purpose of the seminar was to create opportunities for participants to gain and learn more about new things in hybrid supercapacitor and electric vehicle. The event started with the welcome address by Dr. Shalini Packiam Kamala, HOD-S&H and followedby Presidential Address of Dr.P.Maniiarasan, Principal, NIET. The chief guest of the function was Dr.M.Sathish, Senior scientist, CSIR, CECRI, Karaikudi, Tamilnadu, India.

. ANHARAS Nehru Institute of Enga & Technology Principal

T.M.Palayam, Coimbatore - 641 105

Head of the Department Companier Nehrullistitute of Engg. & Technology

Department of Science & Humanities Nehru Institute of Engineering & Technology Nehru Gardens, Thirumalayampalayam,

Coimbatore - 641 105

Date	Particulars	Withdrawals	Deposits	Balance
02-02-2022	NEFT DR-P033220151149804-SBIN0010432-MANI SEKARAN-PRINCIPAL NEHRU INST	2,500.00		4,96,572.95
02-02-2022	P. NEFT SC	3.00		4,96,569.95
02-02-2022	NEFT RETURN-ACCOUNT DOES NOT EXIST-DR N K KARTHIKEYAN-P033220151138209PRINCIPAL NEHRU INST		2,500.00	4,99,069.95
25-02-2022	SELF - THIRUMALAYAM	15,000.00		4,84,069.95
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04-07-2022	UPI/CR/218516918427/MR. S VEN/IDIB/**01540@PAYTM/NA//PTM0C136935C31C42 98A9CDB445A74B626A/04/07/2022 11:20:58		13,954.00	14,46,683.95
31-07-2022	SBINT FOR THE PERIOD FROM01-MAY-22 TO 31-JUL -22		10,504.00	14,57,187.95
21-09-2022	NEFT CR-RBI2642247316421-RBIS0PFMS01-CSIR- EMR-NULL		10,000.00	14,67,187.95
		Closing Bala	ance	14,67,187.95

Dr. P. MANIIARASAN

Principal
Nehru Institute of Engg & Technology
T.M.Palayam, Coimbatore - 641 105.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Human Resource Development Group

CSIR Complex, Library Avenue, Pusa, New Delhi 110 012 Tel: 011 2584 1037

Email: symposia trave@gmail.com . web http://csirnrdg.res.in

Dhirendra Bansal Principal Scientist

Ref No. SYM/10767/21-HRD March 14, 2022

Mr M Madan Mohan Assistant Professor Dept. of Computer Science and Engineering Nehru Institute of Engineering and Technology, Nehru Gardens, Thirumalayampalayam (Post) Coimbatore Tamilnadu 641 105

SUBJECT: Perspective amelioration in Computing VIA IoT in Realtime Applications during Mar 10-11,2022 at Nehru Institute of Engineering and Technology Coimbatore

Dear Mr Mohan

With reference to your application on the above subject, we are happy to inform you that Director General, CSIR has been pleased to sanction a grant of Rs.10000/- (Rupees Ten Thousand Only) subject to the following conditions:

- 1. The grant received from CSIR should be duly acknowledged by email along with a certificate that the grant would be specifically utilized for the purpose for which it has been sanctioned.
- date from the reimbursed within four months Conference/Seminar/Workshop etc. is over by filling-in the Grant-in-Aid Bill Form in duplicate duly signed and rubber stamped by the concerned officials, indicating clearly the designation of the official along with Audited Statement of Expenditure for release of grant. Current Proforma for Grant-in-aid bill, Audited Statement of Expenditure and NEFT are available on our website http://csirhrdg.res.in/Home/Index/1/InPage/53/14. If any Utilization Certificates of Previous Grant for symposia (as per Col.No. 15 of the Application Performa) is not submitted till date, please attach copies of Utilization Certificates also. Any claim received beyond 4 months will be entertained only in exceptional cases subject to submission of reasons for delay, duly forwarded through Head of the Organization. In no case, the claim will be entertained after 6 months. All the pages of above documents should be self attested by the organizer.
- 3. Invitation cards should be sent to the Director General, CSIR and Head, HRDG. CSIR may nominate three scientists for the above event and registration fee should not be charged from them. In case of nomination, the Head, HRDG or the undersigned would issue a letter with a copy to the nominee(s).
- 4. Softcopy (preferably in Pen Drive/CD/ DVD in PDF format) of the full paper proceedings of above event should be sent to the undersigned.
- 5. An overall activity report by the Convener / Organizing Secretary should be made available to us with regard to outcome of the gathering, the recommendations and plan of action for future. The names, addresses & email IDs of the participants / delegates should also be sent immediately after the event.

Yours sincerely,

(Dhirendra Bansal)

P. MANIIARASAN

Principal

Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 105.

Copy to: Audit (EMR) HRDG



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH HUMAN RESOURCE DEVELOPMENT GROUP CSIR COMPLEX, OPP INSTITUTE OF HOTEL MANAGEMENT LIBRARY AVENUE, PUSA, NEW DELHI- 110012, INDIA Email: tgsm[at]csirhrdg[dot]res[dot]in Phone:0112584107

Symposia Grant Scheme for Organising Scientific Events (Symposia/ Seminars / Conferences/workshops, etc. within India

GRANT-IN-AID BILL (To be filled by the Applicant and submitted in duplicate)

Date:

05/07/2022

To: Reference Head, HRD Group, CSIR Complex, Pusa, New Delhi-110012

CSIR Sanction No: SYM/10767/21-HRD

1. Name of the Organisation under whose auspices the Scientific Event was organized: NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

2. Title/Name of the Scientific Event: PERSPECTIVE AMELIORATION IN COMPUTING VIA IOT IN **REAL TIME APPLICATIONS**

3. Venue of the Event (Address) Thirumalayampalayam, Coimbatore-641 105

4. Period:

	From			To	
Date	Month	Year	Date	Month	V.
11	04	2022	12	MOILLI	Year
		2022	12	04	2022

- 5. Brief report (highlights) of the Scientific Event (Less than 1000 words- Attach separate sheet):
- (a) Grant Sanctioned: Rs. 10,000/- (Rupees Ten Thousand Only)

(b) Total Actual Expenditure: Rs. 19,806/- (Rupees Nineteen Thousand Eight Hundred and six

(c) Actual expenditure as per Attached Audited Statement of Expenditure for claim from CSIR: Rs10,000/- (Rupees Ten Thousand Only)

7. Pl tick mark ($\sqrt{\ }$) the name of the authority to whom the NEFT payment is to be made:

Authority Payment is to be	e made:
Director	Mark √
Registrar	
Dean	
Finance Officer	
Medical Superintendent	
Principal	
Any Other Authority designated by your Organization/Institute (Kindly specify)	1
	Director Registrar Dean Finance Officer Medical Superintendent Principal Any Other Authority designated by your Organization /Institute

Note: Grant will be released in the account of Society/Institution/Organization etc.only

Principal Nehru Institute of Engo & TechnologyNehru Institute of Engg & Technology T.M.Palayam, Compatore - 641 105.

Certified that the amount claimed in this bill was utilized for the purpose for which it has been sanctioned, and the Audited Statement of Expenditure is enclosed as per requirement. Organizer: Signature Signature Name: Prof. M. Mad Name: Dr. P. Manijarasan Designation: Assistant Professor Designation: Principal Address: Nehru Institute of Engineering Address: Nehru Institute of Engineering and Technology and Technology City Coimbatore State Tamilnadu Pin 641105 City Coimbatore State Tamilnadu Pin 641105 Mob No. +91- 7904361553 Mob No. 9003936804 Email ID Email ID nietmaadanmohancse@nehrucolleges.com nietprincipal@nehrucolleges.com Seal / Stamp Seal / Stamp Dr. P. MANIIARASAN Principal Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 105. TO BE FILLED BY CSIR-EMR Budget Head- EMR (Misc.) P81-104 It is certified that no AC /UC is pending from the Organization/institute in connection with earlier such grants released to them. Pay: Rs:___ ___(Rupees _ Name of the authority to whom the NEFT payment is to be made: Director/Registrar/ Dean/Medical Superintendent/ Principal/Finance Officer /_____ as per NEFT format enclosed. Deputy/Under Secretary /DDO TO BE FILLED BY CSIR-Audit (EMR III) MBR No._____ Dated:_____Pay Rs.__ (Rupees: **Dealing Assistant** SO (F&A)/F&AO/DyFA Rs _____paid vide Cheque No _____Dated ____through NEF/T/RTGS

Dr. P. MANIIARASAN
Principal
Nehru Institute of Engg & Technology

T.M.Palayam, Colmbatore - 641 105,

Form-CSIR/SYM/19/SE



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH HUMAN RESOURCE DEVELOPMENT GROUP CSIR COMPLEX, OPP INSTITUTE OF HOTEL MANAGEMENT LIBRARY AVENUE, PUSA, NEW DELHI- 110012, INDIA

Email: tgsm[at]csirhrdg[dot]res[dot]in Phone:0112584107

Symposia Grant Scheme for Organising Scientific Events (Symposia/ Seminars / Conferences/workshops, etc. within India

AUDITED STATEMENT OF EXPENDITURE To be filled by the applicant in duplicate Date: 05/07/2022

Reference: CSIR Sanction No: SYM/10767/21-HRD

1. Name of the Society / Organisation under whose auspices the Event was organized:

NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

2 Title/Name of the Event:

PERSPECTIVE AMELIORATION IN COMPUTING VIA IOT IN REAL TIME APPLICATIONS

3. Period:

	From			То	
Date	Month	Year	Date Month		Year
11	04	2022	12	04	
	1 D 40.00		12	04	2022

4. Grant Sanctioned: Rs. 10,000/-(Rupees Ten Thousand Only)

5. Certified that out of Total Expenditure of Rs. 19,806/- (Rupees Nineteen Thousand Eight Hundred and six Only) CSIR Grant of Rs. 10,000/-(Rupees Ten Thousand Only) has been utilized as per the details given below:

S. No.	Budget Head	Amount (D.)
i	Travel expenses for	Amount (Rs)
	c. Senior scientists:	₹ 9,500/-
	d. Young Scientists:	
li	Registration Fee Waiver	_
	c. Senior scientists:	-
	d. Young Scientists:	
Iii	Promotion (web site, brochures, others)	₹ 500/-
Iv	Secretarial assistance	(300/-
V	Local Hospitality	-
vi	Venue Charges	-
		-
rtified b	TOTAL	₹ 10,000/-

Certified by: (PL ENSURE ALL SIGNATURES ARE ON THIS PAGE ONLY)

Mob No.

Email ID

			6	1	
Signature	y	1	(X)	45	0/2012
Name:	Prof.	M	Mad	an l	Mohan
D!					

Designation: Asst Professor

Mob No. 7904361553 Email ID nietmadanmohancse

@nehrucolleges.com

Finance Officer/ Chartered Accountant

Signature

Name: K Chandray

Signature Name

mont com

Dr.P.Manniarasan

Designation Principal_ Mob No. 9003936804

Head of Organisation

nehm college accomemail ID nietprincipal@ nehrucolleges

Seal / Stamp

Organizer:

CHANDRAN, M.Com., BGL., CANBal /

9487027734

Dr. P. MANIIARASAN Principal

Nehru Institute of Engg & Technology

Nehru Institute - True & Technology T.M.Paicyani, Sonnbatore - 641 105.

NATIONAL ELECTRONIC FUND TRANSFER (NEFT) FORMAT

1	Account Holders Name/Name of the Beneficiary	PRINCIPAL, Technology	Nehru Institute of	Engineering and	
2	Bank Account Number	61692200016024			
3	Name of the Bank			1)	
4	Branch Address	Canara Bank – (E-Syndicate Bank) Thirumalayampalayam, Coimbatore-641 105			
5	Branch Code	016169			
6	Account type/Nature of Account (Pl tick $\sqrt{\text{mark}}$)	Saving	Current	Overdraft	
7	IPCC C 1	CNRB0016169			
8	MICR Number	641015097		•	
9	Malillan Cit	9003936804			
10	Empilia Cul C 111		nehrucolleges.co		

	ccpi incipal@nenrucolleges.com
Signature of the Head of the Institute/Director/Registrar/Dean/principal /Administrative Officer/Finance Officer Name: Do. P. Manii as and Date: OS 07 2022 Seal Dr. P. MANIIARASAN	Certified by (Bank) Signature of the Bank Official Name: Date: Seal
Nehru Institute of English & Technology	The state of the s
L.W. r dioyon, von succe : 05 i 100.	Minny (Mary

TO BE FILLED BY CSIR

Narration: CSIR SYM

(To be used by Bank while transferring the Payment/Grant)

Deputy/Under Secretary/DDO

Dr. P. MANIIARASAN

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Nehru Institute of Engg & Technology T.M.Palayam, Compatore - 641 105.

REPORT

On

CSIR SPONSERED TWO DAYS NATIONAL LEVEL SEMINAR ON

"PERSPECTIVE AMELIORATION IN COMPUTING VIA IoT IN REAL TIME APPLICATIONS"

On 11-04-2022 & 12-04-2022

Preamble:

A seminar entitled "PERSPECTIVE AMELIORATION IN COMPUTING VIA IoT IN REAL TIME APPLICATIONS" was hosted from 11-04-2022 to 12-04-2022 through Physical mode. The purpose of the seminar was to describes computing techniques helps IoT to handle the data on the basis of algorithms where they can convert data with the help of machine learning-based analytics. These Computing techniques and IoT help the real time applications to monitor operations that can give great insight from the data with greater accuracy.

• The Faculty Development Program (FDP) intends to include fundamental knowledge, present and futuristic applications in the field of Cloud, Fog, and Edge & Mist Computing via IoT. During this program the academicians and industry personnel in their respective areas of expertise discussed the fundamental learning and recent advancement in the above mention domains. The Internet of Things (IoT) and its interplay with computing is growing fast and will power a future application in domains, such as manufacturing, healthcare, agriculture, and smart cities, among others. The Main Objective during the seminar is Current Status & Future Prospect of IoT, Knowledge Management – From Data to Wisdom, The Future of IoT, The Potential of IoT, Applications of IoT, Technological Challenges of IoT, and how the IoT Will Deals with the Computing Techniques. It represents the trend of future networking, and leads the third wave of the IT industry revolution. The outcome of the FDP focuses on IoT, Cloud, Fog, and Mist Computing, its Technologies, Challenges, Architecture & System Level Design, security aspects, applications and future research directions.

The Internet of Things (IoT) and its associated technologies have the potential to generate breakthrough opportunities in real-life applications like healthcare, Smart Homes, Farming, Hospitality, Water Supply etc. This seminar will deal with the enable participants and practices encountered by the leading researchers the proliferation of smartphones, cloud, IoT devices, artificial intelligence, nanotechnology, compact battery etc. These devices and capabilities continue to evolve, driving new means to solve complex problems with greater precision.

Dr. P. MANIIARASAN

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Dr. P. MANIIARASAN

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DAY 01: (INAUGURATION)

The seminar was inaugurated on 11th April between 10.00 A.M. to 11.00 A.M. **Dr. S. Subasree**, HoD/CSE NIET welcomes the gatherings. **Dr. N. K. Sakthivel**, Dean (Computing), NIET gave presidential address. **DR. S. MAHADEVAN** resource person Deputy Dean, School of Engineering Amrita Vishwa Vidyapeetham University (Amrita School of Engineering) Coimbatore gave inaugural address by highlighting the importance of Current Trends using the computing and IoT. Finally, **Prof. M. Madan Mohan** (Program Coordinator), AP/CSE, NIET delivered Vote of thanks at the end of the session.

DAY 01: 11-04-2022 (FIRST SESSION)

DR. S. MAHADEVAN resource person Deputy Dean, School of Engineering Amrita Vishwa Vidyapeetham University (Amrita School of Engineering) Coimbatore gave the presentation that highlighting the importance of Current Trends using the computing and IoT & Life Skills for Engineering Graduates.

DAY 01: 11-04-2022 (SECOND SESSION)

Mr. SABARINATHAN MUTHU resource person, Software Developer, Gateway Software Solutions, Coimbatore gave presentation the real time applications that were used by the Cloud computing and IoT Devices.

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Principal

Nehru Institute of Engo & Technology T.M.Palayani, Coimpaiore - 64, 105.

DAY 01: 11-04-2022 (THIRD & FOURTH SESSION)

Dr. N. K. Sakthivel, resource person, Dean (Computing), NIET gave the presentation about the Connect World through IoT. Internet of things (IoT) refers to the ability of everyday objects to connect to internet and exchange information.

DAY 02: 12-04-2022 (FIRST SESSION)

Dr. Laxmi Raja, resource person, Professor, Department of CSE, Faculty of Engineering, Karpagam Academy of Higher Education, gave the presentation about the IoT & Cloud Computing for Real World Application, such as applications for smart energy management, smart water management, smart transport management, urban mobility of the citizens and more.

DAY 02: 12-04-2022 (SECOND SESSION)

Dr. M. Rajesh Babu, resource person, Professor, Department of CSE, NIET gave the presentation about the Recent Trends in Computing Techniques with IoT, the latest computer science trends include artificial intelligence, edge computing, and quantum computing. IT professionals are also knowledgeable about developments in IoT.

<u>DAY 02: 12-04-2022 (THIRD & FOURTH SESSION)</u>

Dr. S. Subasree, resource person, HoD/CSE, NIET gave the presentation about the Role of Machine Learning in Industrial IoT Applications of instrumentation, connected sensors, and other devices to machinery and processes in industrial settings.

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<u>DAY 02: 12-04-2022 (Valedictory)</u>

The Valedictory on 12th April between 03.00 P.M. to 03.30 P.M. **Prof. M. Madan Mohan** (Program Coordinator), AP/CSE, NIET welcomes the gatherings. **Dr. N. K. Sakthivel,** Dean (Computing), NIET gave presidential address and the participation certificate has been distributed to the seminar attended participants. Followed by the Feedback of the participant. Finally, **Dr. S. Subasree**, HoD/CSE NIET delivered Vote of thanks at the end of the session.

On behalf of Nehru Institute of Engineering and Technology, Department of Computer Science and Engineering, this event is organized by **Prof. M. Madan Mohan, AP/CSE, Assistant Professor/CSE**. This event was great successful with more than 50+ Participants in two Days.

Dr. P. MANIIARASAN

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P. Mr.

Dr. P. MANIIARASAN

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Date	Particulars	Withdrawals	Deposits	Balance
02-02-2022	NEFT DR-P033220151149804-SBIN0010432-MANI SEKARAN-PRINCIPAL NEHRU INST	2,500.00		4,96,572.95
02-02-2022	P. NEFT SC	3.00		4,96,569.95
02-02-2022	NEFT RETURN-ACCOUNT DOES NOT EXIST-DR N K KARTHIKEYAN-P033220151138209PRINCIPAL NEHRU INST		2,500.00	4,99,069.95
25-02-2022	SELF - THIRUMALAYAM	15,000.00		4,84,069.95
25-02-2022	SELF - THIRUMALAYAM	17,322.00		4,66,747.95
25-02-2022	NEFT DR-P056220155271991-IDIB000S107- KARTHIKEYAN-PRINCIPAL NEHRU INST	2,500.00		4,64,247.95
25-02-2022	NEFT SC	3.00		4,64,244.95
28-02-2022	MICR CHQ BK ISSUE OTH THAN IND	118.00		4,64,126.95
08-03-2022	ECS CREDITTHROUGHPFMS		9,36,250.00	14,00,376.95
19-03-2022	SMS ALERT CHARGES NEW	18.00		14,00,358.95
23-03-2022	NEFT CR-P082220160097796-CNRB0019100-EMR CSIR-21047		25,000.00	14,25,358.95
24-03-2022	BY CLG:CHN ACCT SEC-INDIAN BANK (INB), MEMBER SECRETARY TN STATE COUNCIL SCIENC		30,000.00	14,55,358.95
04-04-2022	COMM - SERVICE CHARGES 04-APR-22 STMT CH	100.00		14,55,258.95
04-04-2022	SL - GST - NORMAL CHARGE	18.00		14,55,240.95
12-04-2022	DAISON STALLON S - DAISON STALLON S	7,500.00		14,47,740.95
12-04-2022	RAAJESHKRISHNA C R - RAAJESHKRISHNA C R	7,500.00		14,40,240.95
12-04-2022	WASIM RAJA - WASIM RAJA	7,500.00		14,32,740.95
12-04-2022	M MADAN MOHAN - M MADAN MOHAN	7,500.00		14,25,240.95
30-04-2022	SBINT FOR THE PERIOD FROM01-FEB-22 TO 30-APR -22		7,489.00	14,32,729.95
04-07-2022	UPI/CR/218516918427/MR. S VEN/IDIB/**01540@PAYTM/NA//PTM0C136935C31C42 98A9CDB445A74B626A/04/07/2022 11:20:58		13,954.00	14,46,683.95
31-07-2022	SBINT FOR THE PERIOD FROM01-MAY-22 TO 31-JUL -22		10,504.00	14,57,187.95
21-09-2022	NEFT CR-RBI2642247316421-RBIS0PFMS01-CSIR- EMR-NULL		10,000.00	14,67,187.95
		Closing Bala	ance	14,67,187.95

Dr. P. MANIIARASAN

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T.M.Palayam, Coimbatore - 641 105.

Forwarded message From «SERS Administrator@serbonline in> Date. Mon. 31 Jan. 2022. 5 47 PM Subject Sanction Order SSY/2021/000363 To: «<u>sertanto L@gmair.com</u>»



Science and Engineering Research Board

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Department of Science and Technology, Government of India

Dear Dr. Subasree S.

The below details for Science & Engineering Research Board (SERB) Sanction Order (attached to this mail)

 Sanction Order No
 SSY/2021/000363

 Sanction Date
 20 January, 2022

 PI Name
 Dr. Subasree S

Institute/University NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY, Nehru Gardens, Thirumalayampalayam, Colmbatore, Colmbatore, Tamil Nadu-641105

Account Number 61692200016024

Bank & Branch Name CANARA BANK Nehru GardenThirumslayampalayamColmbatore 641105

 Amount
 INR 50000/

 In Rupees
 Fifty Thousand

 UTR No
 RBI0282273178809

P. Mr

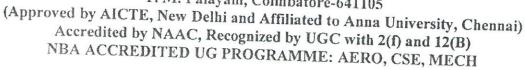
Dr. P. MANIIARASAN
Principal
Principal
Technology

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NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

T. M. Palayam, Coimbatore-641105





Department of Computer Science and Engineering

Submitting to Accounts department, NGI.

Date: 25.02.2022

SERB Sponsored Workshop of Advanced Data Science and its Applications Date: 27.12.2021 to 31.12.2021

Completed.

Dr. P. MANIIARASAN

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Nehru Institute of Engg. & Technology S.No T.M.Palayam, Coimbatore - 641 105. Particulars Received Fund from SERB (To Principal NIET) 1. Rs 50,000 .00 Dated: 28/01/2022

Expenditure for the Five-day workshop 2. Rs 17.322.00 (Inaugural Function, Chief Guest Memento Invitation, Certificates, Refreshment, A4 sheets, Valedictory Function for Five Days etc.) 3. Expenditure for Resource Person Rs 17,500.00 (7 Nos X Rs 2500/- each = Rs 17,500)Total Expenditure: Rs 34,822.00 Balance Amount: Rs 15,178.00

Note: Balance amount to be deposited in Corporate Office: Rs 15,178.00

Coordinator

Dean (Computing) Dr. N. K. Sakthivel

Dr.D.Satishkumar

Dr. S. Subasree

hru Institute of Engineering & Technology Vehru Gardens, Thirumalayampalayam, Coimbatore - 641 105

Nehru Institute of Enag. & Technology



NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Thirumalayampalayam, Coimbatore-641 105, TN, India
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Accredited by NAAC, Recognized by UGC with 2(f) and 12(B)

NBA Accredited UG Courses: AERO, CSE, MECH



Department of Computer Science and Engineering

Science and Engineering Research Board (SERB)
Sponsored
Five Days Workshop on Advanced Data Science and its Applications
Dec 27, 2021 - Dec 31, 2021

Report

1. About the Workshop

The Science and Engineering Research Board (SERB) sponsored Workshop on Advanced Data Science and its Applications was organized by the department of Computer Science and Engineering on Dec. 27, 2021 to Dec. 31, 2021. It was hosted with the prime intention to introduce the emerging applications of industrial-research works carried out using feature engineering and machine learning and deep learning techniques regarding to the Participants. This workshop created opportunities for participants to gain and learn more about new emerging technologies like Data Science, Big Data and Artificial Intelligence. It provides an opportunity to explore the intersection of Statistics, Data Analytics and Machine Learning Techniques. There were 54 (Fifty Four) Participants have enthusiastically participated in the workshop and benefitted.

1.1 Goals and Objectives

This Workshop aims at providing Participants with expertise on Advanced Machine Learning Techniques. The primary objectives of this Workshop are to

- Learn the basic principles of Data Science, Data Analytics and Neural Computing based Machine Learning Techniques
- Understand Machine Learning and Deep Learning Techniques in solving computational problems.
- Practise Machine Learning and Deep Learning Techniques with Python Libraries

It enables sophisticated ways in learning the emerging trends in this dominating Data Engineering and Business Intelligence. The workshop focused the following Topics.

- Data Science and Engineering with Python Tools and Libraries
- Techniques for Data Preprocessing
- Supervised and Unsupervised Machine Learning Techniques
- Unsupervised Machine Learning Techniques
- Big Data Analytics and Deep Learning Techniques
- Business Intelligence, Business Modelling and Data Analytics
- · Research Trends and Opportunities in Data Science and Engineering

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2. Invitation and Banner



3. Inaugural Session

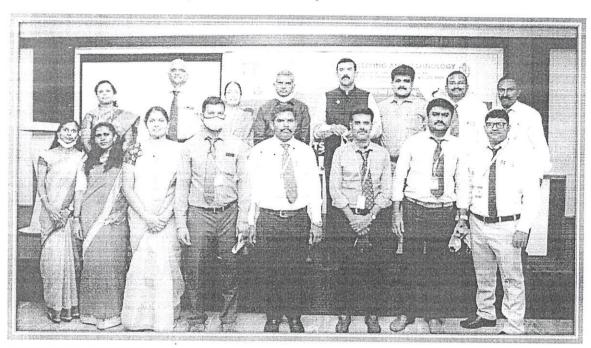
The workshop was inaugurated with lighting the **kuthu vizhaku** by the **Chief Guest Mr. Vinodhkumar Bose, Vice President**, Sales (India/SAARC) UBX Cloud, Coimbatore with the presidential Address delivered and blessed by the most respected **Dr. P. Krishna Kumar, CEO & Secretary, Nehru Group of Institutions**.

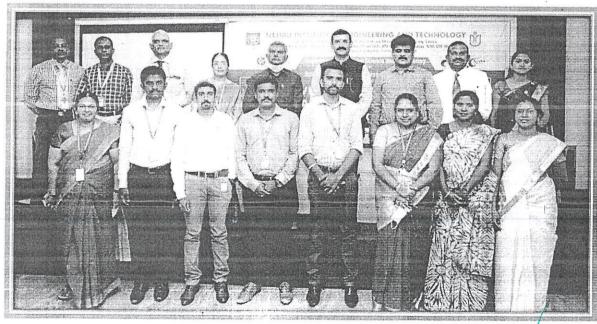


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The Convener Dr. S. Subasree, Head-Department of Computer Science and Engineering welcomes the Guests and Participants and Dr. N. K. Sakthivel, Dean-Computing, Convener of this Workshop has given Vote of Thanks in the Inaugural ceremony. He thanked SERB for considering the proposal of this workshop and scrutinized for sanctioned fund to conduct this Workshop very effectively. Dr. D. SatishKumar, Associated Professor and Prof. S. Mani were the Organizing Secretaries of this SERB Sponsored Workshop.





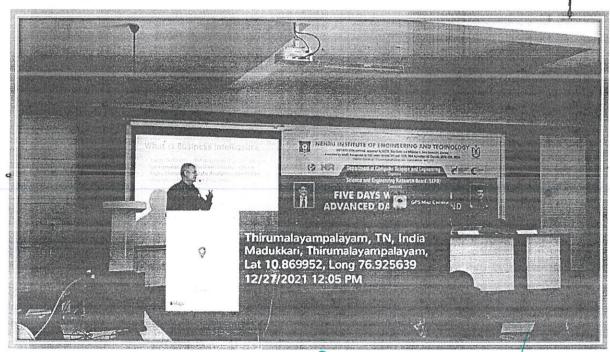
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Dr. P. MANIIARASAN
Principal
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T.M.Palayam, Coimbatore - 641 105.



4. Experts Team and Sessions

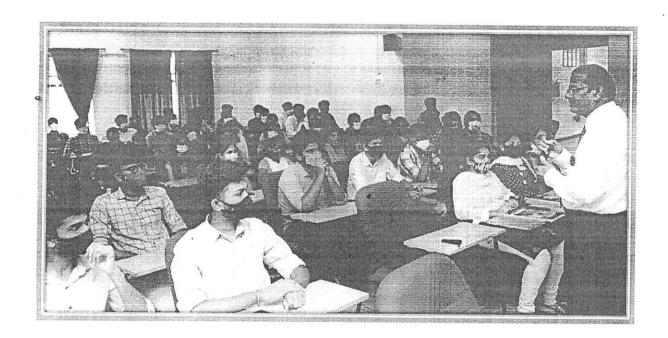
This Workshop was conducted for Five Days and the first session was handled by **Dr. N. K. Karthikeyan**, Professor & Head, Department of Information Technology, Coimbatore Institute of Technology, Coimbatore. He emphasized the importance of Data Engineering and highlighted the data preparation and analysis techniques to solve complex business problems. The Session also focussed key points for Successful Data Science Projects.



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Dr. N. . **Sakthivel**, Dean Computing, Nehru Institute of Engineering and Technology, Coimbatore demonstrated the importance of Python Tools and Tableau in the first day of second session. All the Participants were trained for Python Installation and highlighted the importance of Preprocessing Techniques to achieve better prediction with more accuracy. Also the Jupyter Notebook based Preprocessing Techniques were demonstrated in this session.

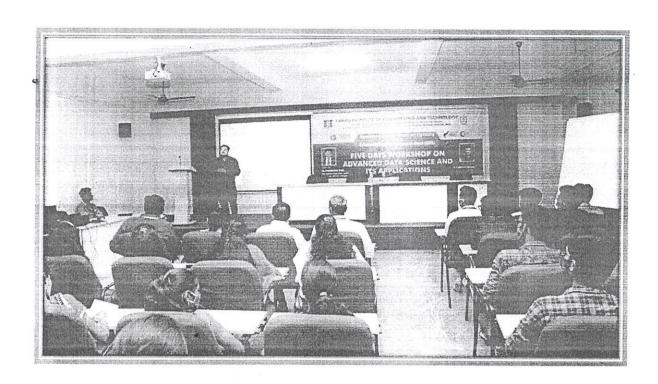


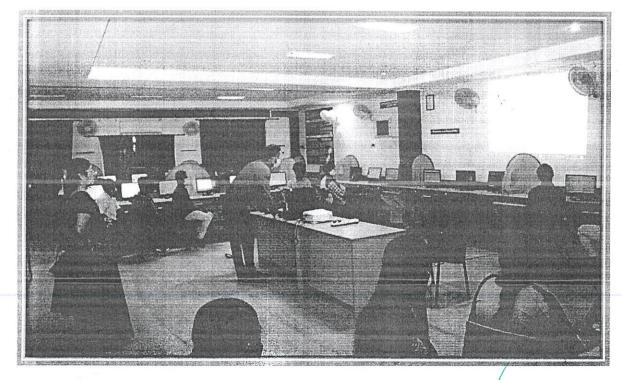
Dr. Prashant Nair, Professor, Computer Science and Engineering, School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore handled the second day of first session. He explained the Topic Business Intelligence, Business Modelling and Data Analytics. He emphasized the importance of Business Modelling and Data Analytics for various Industries Problems. He highlighted the Business Intelligence and data analytics techniques.

Mr. S. Thirugnanam, Senior Software Developer, PPTS India Private Limited, Coimbatore handled the second session of this day. The topic includes Data Analysis and Visualization. He emphasized the importance of Visualization for better Interpretation and Understanding the nature of Datasets. He also emphasised the process of cleaning, transforming, and modelling data to discover useful information for business decision-making.

Dr. P. MANIIARASAN

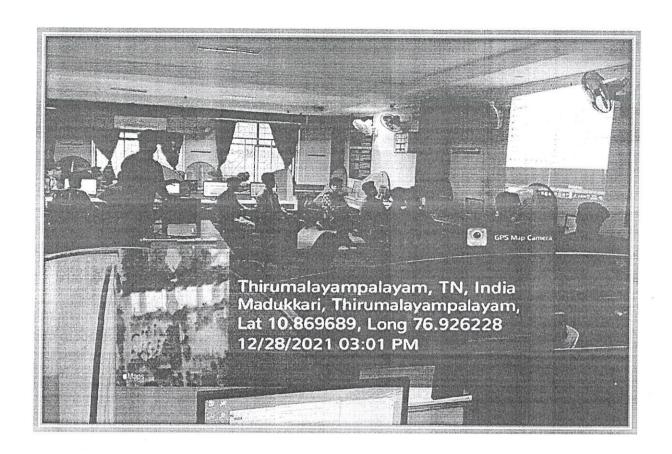
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Mr. Sabarishwaran Arunagirisamy, Python Developer, ACCENT TECHNO SOFT, Coimbatore handled the third day of the first session. His Session Topic was AI and Machine Learning. He emphasized the importance of Machine Learning for creating Models for various Industries Applications.

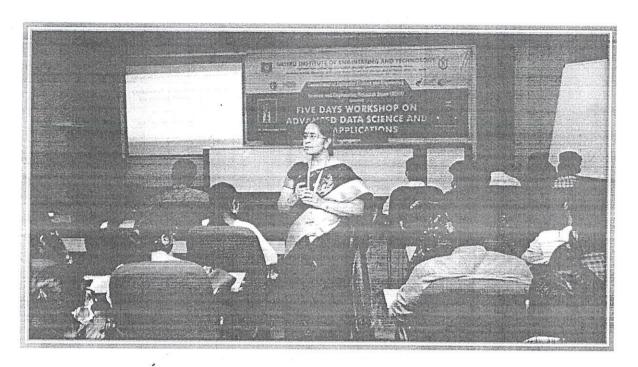
Dr. C. Arunkumar, Professor, Computer Science and Engineering, School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore conducted the second Session of this workshop and the topic includes Supervised and Unsupervised Machine Learning. He demonstrated the Supervised Learning, Unsupervised Learning and Semi-Supervised Learning. He focussed Classification and Regression, Clustering and Association Rule Mining with Example.

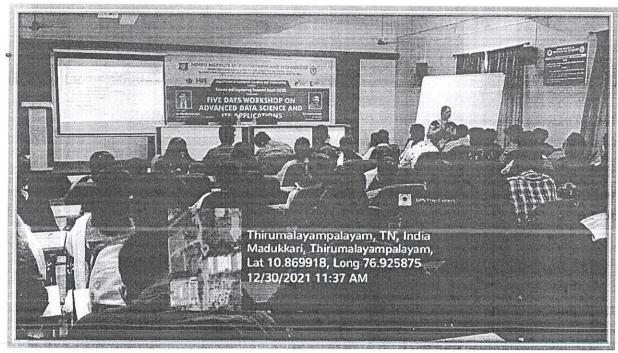
Dr. V. Manisekaran, Assistant Professor, Department of Information Technology, Anna University Regional Campus, Coimbatore conducted the third day of first Session and the topic includes the Emerging Trends in Data Science and its Applications. He demonstrated the various applications of Machine Learning, Operation Research, Methods and Algorithms. With great interactions, Experts has discussed about Who is Data Scientists?, GAN Models and has given demonstration with Synthesize Models and Examples.

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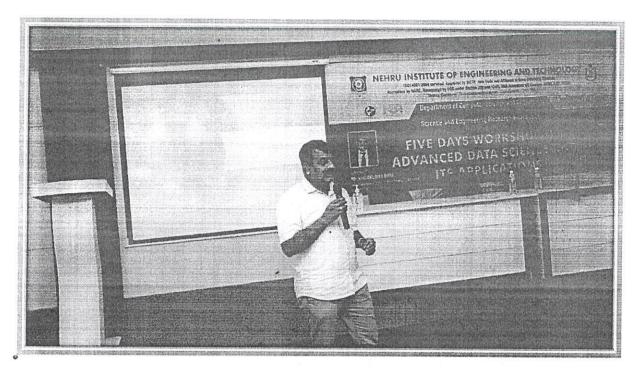


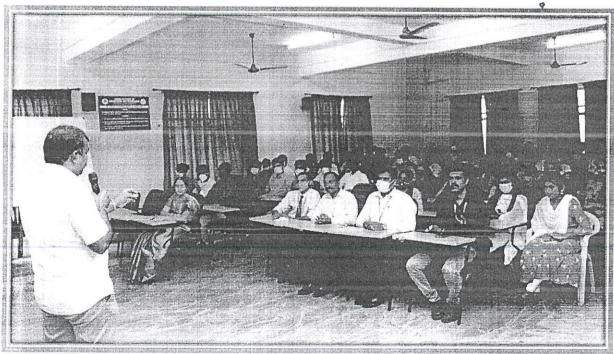
Dr. S. Subasree, Professor and Head, Department of Computer Science and Engineering, Nehru Institute of Engineering and Technology, Coimbatore conducted Session on Collaborative Business Intelligence for making Business Decisions. She demonstrated the various approaches and Techniques like Faster information and decision-making, Better Decision making approaches, fact-based decisions. She was also focused how to predict Employee Satisfaction Score, Stakeholder Involvement, Security Analysis with real time Industries Applications. She further discussed various

Dr. P. MANIIARASAN

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Nehru Institute of Enga & Technology T.M.Palayam, Comparore - 641 105. approaches about collaborative BI for taking decision-making process beyond the company boundaries. In addition with this, she also has given the real time practical demonstration of the data science tools.





Dr. T. Senthilkumar, Professor, Computer Science and Engineering, School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore conducted Session on Deep

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T.M.Palayam, Compatore - 641 105.

Learning Techniques. He demonstrated the various real time applications of Deep Learning which were typically employed in Real Word Applications. The Session was focused with real time concepts such as i) How may hidden units do we need?, ii) Are some activation functions better than others? iii) How do we choose the initial weights iv). How do we choose the learning rates? etc

5. Valedictory Function and Certificate Distribution

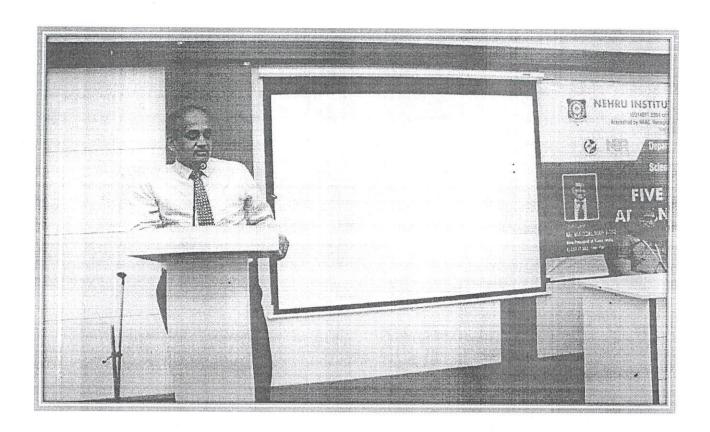
Dr. P. Maniiarasan, Principal was the invited Chief Guest for the Valedictory Function. During his Valedictory Address, the Guest emphasized the importance and applications of Data Science and Deep Learning in Industry. He highly encouraged participants to practise all the Techniques learned and understood in the Workshop for developing skill in Data Science. Chief Guest distributed Participants Certificates, and Certificates of Appreciation to Organizing Team Members of Workshop.

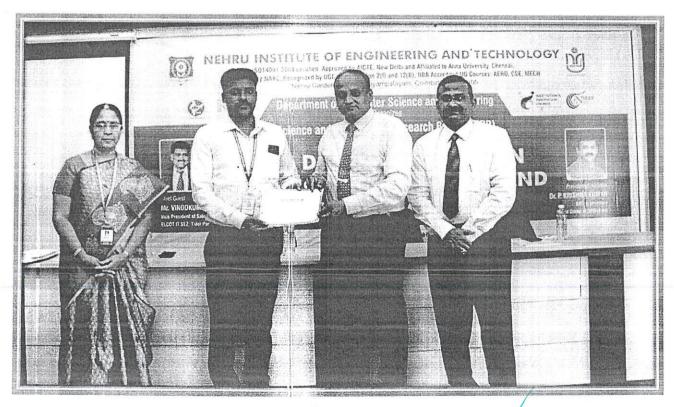


Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg & Technology T.M.Palayam, Coimbatore - 641 105.





Dr. P. MANIIARASAN

Principal
Nehru Institute of Engg & Technology
T.M.Palayam, Compatore - 641 105.



Participant Certificate:



14

Dr. P. MANIIARASAN

Principal
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Statement for A/c 61692200016024 Between 01-Jan-2022 and 29-Oct-2022

Client

309413038

Name Address THE PRINCIPAL NIET

NEHRU GARDENS THIRUMALAYAMPALAYAM

COIMBATORE SOUTH COIMBATORE

641105 TAMIL NADU

Phone

918825996557

Branch Code Branch Name Address

IFSC Code

Date	Particulars	Withdrawals	Deposits	Balance
	2	Opening Balance		4,51,753.95
06-01-2022	NEFT CR-FDRL0001092-SATHYAMURTHY VELUSAMY-NEHRU INSTITUTE OF ENGINEERING AND-FDRLH22006057890		9,000.00	4,60,753.95
28-01-2022	NEFT CR-RBI0282273178809-RBIS0PFMS01- SCIENCE AND ENGINEERING RESEARCH BOA-NULL		50,000.00	5,10,753.95
31-01-2022	SBINT FOR THE PERIOD FROM01-NOV-21 TO 31-JAN -22		3,337.00	5,14,090.95
02-02-2022	NEFT DR-P033220151137768-DLXB0000062- PRASHANTH NAIR-PRINCIPAL NEHRU INST	2,500.00		5,11,590.95
02-02-2022	NEFT SC	3.00		5,11,587.95
02-02-2022	NEFT DR-P033220151138209-IDIB000S107-DR N K KARTHIKEYAN-PRINCIPAL NEHRU INST	2,500.00		5,09,087.95
02-02-2022	NEFT SC	3.00		5,09,084.95
02-02-2022	NEFT DR-P033220151145398-HDFC0004264- SABARISHWARAN ARUNAGIRISAMY-PRINCIPAL NEHRU INST	2,500.00		5,06,584.95
02-02-2022	NEFT SC	3.00		5,06,581.95
02-02-2022	NEFT DR-P033220151139675-UTIB0000563-DR S THIRUGNANAM-PRINCIPAL NEHRU INST	2,500.00		5,04,081.95
02-02-2022	NEFT SC	3.00		5,04,078.95
02-02-2022	NEFT DR-P033220151150737-SBIN0007231-T SENTHIL KUMAR-PRINCIPAL NEHRU INST	2,500.00		5,01,578.95
02-02-2022	NEFT SC	3.00		5,01,575.95
02-02-2022	NEFT DR-P033220151148062-DLXB0000253-C ARUN KUMAR-PRINCIPAL NEHRU INST	2,500.00		4,99,075.95
02-02-2022	NEFT SC V. M.	3.00		4,99,072.95

Dr. P. MANIIARASAN

Principal

Nehru Institute of Enga & Technology T.M. Palayam, Compatore - 641, 105.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Human Resource Development Group

CSIR Complex, Library Avenue, Pusa, New Delhi 110 012 Tel: 011 2584 1037

Email: symposia travel@gmail.com , web http://csirhrdg.res.in

Hemant Kulkarni Senior Principal Scientist

Ref No. SYM/10640/21-HRD

June 22, 2021

Dr D Satishkumar

Associate Professor, Dept. of Computer Science & Engg.

Nehru Institute of Engineering & Technology

Nehru Gardens, Thirumalayampalayam (Post), Coimbatore - 641 105 Tamil Nadu

SUBJECT: Security Issues & Challenges in 5G Wireless Networks during Jun 07-08,2021 at Nehru Institute of Engineering & Technology, Coimbatore

Dear Dr Satishkumar

With reference to your application on the above subject, we are happy to inform you that Director General, CSIR has been pleased to sanction a grant of Rs.10000/- (Rupees Ten Thousand Only) subject to the following conditions:

- 1. The grant received from CSIR should be duly acknowledged by email along with a certificate that the grant would be specifically utilized for the purpose for which it has been sanctioned.
- 2. The grant may be reimbursed within four months from the date of Conference/Seminar/Workshop etc. is over by filling-in the Grant-in-Aid Bill Form in duplicate duly signed and rubber stamped by the concerned officials, indicating clearly the designation of the official along with Audited Statement of Expenditure for release of grant. Current Proforma for Grant-in-aid bill, Audited Statement of Expenditure and NEFT are available on our website http://csirhrdq.res.in/Home/Index/1/InPage/53/14. If any Utilization Certificates of Previous Grant for symposia (as per Col.No. 15 of the Application Performa) is not submitted till date, please attach copies of Utilization Certificates also. Any claim received beyond 4 months will be entertained only in exceptional cases subject to submission of reasons for delay, duly forwarded through Head of the Organization. In no case, the claim will be entertained after 6 months. All the pages of above documents should be self attested by the organizer.
- Invitation cards should be sent to the Director General, CSIR and Head, HRDG. CSIR may nominate
 three scientists for the above event and registration fee should not be charged from them. In case of
 nomination, the Head, HRDG or the undersigned would issue a letter with a copy to the nominee(s).
- 4. Softcopy (preferably in Pen Drive/CD/ DVD in PDF format) of the full paper proceedings of above event should be sent to the undersigned.
- 5. An overall activity report by the Convener / Organizing Secretary should be made available by email to us with regard to outcome of the gathering, the recommendations and plan of action for future. The names, addresses & email IDs of the participants / delegates should also be sent immediately after the event by email.

Yours sincerely,

(Hemant Kulkarni)

Copy to: Audit (EMR) HRDG

Dr. P. MANIIARASAN
Principal
Nehru Institute of Engg & Technology
T.M.Palayam, Colmbatore - 641 105.

Form-



COUNCIL OF SCIENTIFIC AND INDUSTRIAL

RESEARCH

HUMAN RESOURCE DEVELOPMENT GROUP

CSIR COMPLEX, OPP INSTITUTE OF HOTEL
MANAGEMENT

LIBRARY AVENUE, PUSA, NEW DELHI- 110012, INDIA Email: tgsm[at]csirhrdg[dot]res[dot]in

Phone:0112584107

Symposia Grant Scheme for Organising Scientific Events (Symposia/

Seminars / Conferences / workshops, etc. within India

AUDITED STATEMENT OF EXPENDITURE To be filled by the applicant in duplicate

Date: 25/09/2021

Reference

CSIR Sanction No: SYM/106040/21-HRD (22 JUNE 2021)

1. Name of the Society / Organisation under whose auspices the Event was organized: NEHRU INSITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE - 641105

2. Title/Name of the Event:

SECURITY ISSUES AND CHALLENGES IN 5G WIRELESS NETWORKS

3. Period:

From			To		
Date	Month	Year	Date	Month	Year
23	08	2021	24	08	2021

4 Grant Sanctioned: Rs. 10,000 (Rupees Ten thousand only)

5. Certified that out of Total Expenditure of Rs. <u>10,000</u> (Rupees <u>Ten thousand only</u>) CSIR Grant of Rs. <u>10,000</u> (Rupees <u>Ten thousand only</u>)

has been utilized as per the details given below;

S. No.	Budget Head	Amount (Rs)	
Ĭ	Travel expenses for	NIL NIL	
	c. Senior scientists:	LAIL	
	d. Young Scientists:		
li	Registration Fee Waiver	NIL	
	c. Senior scientists:	INIL	
	d. Young Scientists:		
lii	Promotion (web site, brochures, others)	D= 10.000 /	
Iv	Secretarial assistance	Rs 10,000 /-	
٧	Local Hospitality	NIL	
vi	Venue Charges	NIL	
		NIL	
:6.11	TOTAL	Rs 10,000 /-	

Certified by: (PLENSURE ALL SIGNATURES ARE ON THIS PAGE ONLY)

Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg & Technology T.M.Palayam, Combatore • 641 105,

Organizer:
Signature Signature
Name: Dr.D.SATISHKUMAR 3
Designation ASSOCIATE PROFESSOR
Address NEHRU INSITUTE OF
ENGINEERING AND TECHNOLOGY
NEHRU GARDENS.
THIRUMALAYAMPALAYAM (Post),
COIMBATORE 641105
City COIMBATORE State TAMILNADU
Pin 641105
Mob No. +91-9843723396
Email ID
nielsatishkumar@nehrucolleges.com
Seal / Stamp
6
Financial Officer/
Ghartered Accountant
1
Signature Land
Name
Designation: ACCOUNTS OFFICER
Address: NEHRU INSITUTE OF
ENGINEERING AND TECHNOLOGY
NEHRU GARDENS.
THIRUMALAYAMPALAYAM (Post),
COIMBATORE 641105
City COIMBATORE State TAMILNADU
Pin <u>641105</u>
Mob No. 9487927734 M.Com., BGL, CAIIB
Email ID K. CHANDIO
Seal / Stamp Nehru Group of Institutions

Seal / Stamp

Head of the Organisation Signature Name: Dr.P.MANIIARASAN Designation: PRINCIPAL Address: NEHRU INSITUTE OF ENGINEERING AND TECHNOLOGY NEHRU GARDENS, THIRUMALAYAMPALAYAM (Post) COIMBATORE 641105 City COIMBATORE State TAMILNADU Pin 641105 Mob No. +91-9003936804 Email ID nietprincipal@nehrucolleges.com

> Dr. P. MANIIARASAN Principal Mehru Institute of Engg. & Technology Palayam, Coimbatore - 541 10!

Seal / Stamp

Dr. P. MANIIARASAN

Principal Nehru Institute of Engg. & Technology T.M.Palayam, Coimbatore - 641 105.

REPORT On

CSIR Sponsored Two Day National Level Seminar on "SECURITY ISSUES AND CHALLENGES IN 5G WIRELESS NETWORKS"

on 23.08.2021& 24.08.2021

Preamble:

Each new generation of mobile standards since 2G has been designed for one and the same goal: to boost bandwidth on packet networks. Faster Internet access is the name of the game. Other changes have been minimal. The voice codec in 3G changed only slightly. On 4G networks, voice traffic is transmitted over packet data using the IP Multimedia Subsystem (IMS), which many operators have not deployed. The 4G network may not transmit voice at all, instead falling back on 2G/3G to make calls. Yet recent mobile networks have certain drawbacks compared to their predecessors. 3G and 4G in particular are a less-thanideal fit for the IoT: compatible devices need to have high performance and corresponding high energy consumption. As a result, devices require frequent charging or battery swaps. This is unacceptable for many IoT devices, which may require battery life of up to 10 years without swapping or charging batteries. 5G networks are designed to account for such diverse needs. They can provide superfast access with minimal latency. At the same time, they retain the flexibility to provision slower speeds with lower device resource requirements.

5G Standalone networks may add new types of security flaws, because the entire packet core and additional services will depend on virtualization. Technologies such as NFV and SDN will make deployment simpler, faster, and more flexible. But replacing dedicated hardware with software-defined systems (some of them based on open-source code) may prove a double-edged sword that makes mobile networks more vulnerable to attack. One thing is for certain: availability, integrity, and confidentiality will remain the foremost concerns. As 5G begins to penetrate every area of life such as manufacturing, healthcare, and transport emboldened malefactors will surely follow with close interest.

One noteworthy experiment in this direction has been the initiative taken by Nehru Institute of Engineering and Technology. This Seminar has been successfully organized on $23^{\rm rd}$ and $24^{\rm th}$ August 2021.

Dr. P. MANIIARASAN

Principal
Nehru Institute of Engg. & Technology
T.M.Palayam, Coimbatore - 641 105.

Inaugural Function:

- The inauguration of CSIR Sponsored one day National Level Seminar was held on 23rdAugust 2021 at 10.00 AM in Nehru Institute of Engineering and Technology, Coimbatore.
- > Dr. P. Maniiarasan, Principal, Nehru Institute of Engineering and Technology presided over the function. Dr. S. Subasree, Head of the Department, welcomed the gathering.
- Dr. V. Mary Anita Rajam, Professor, Department of Computer Science and Engineering, Anna University- Chennai, Chennai, Tamil Nadu, - 600025 inaugurated the programme.
- In her address, she signposted the significance of 5G Security issues. She has also explained the methodologies used for 5G networks with examples. She explained that because the 5G network core is still being standardized, nobody has a full picture yet of 5G network security. However, the standards released so far allow us to make some early assessments. To understand the issues at play, it is worth first reviewing the key use cases contemplated by 5G standards.
- Finally,Mr. Mani, Assistant Professor, Department of Computer Science and Engineering delivered vote of thanks.
- Faculty members and UG, PG Scholars from various Engineering colleges attended the event with vehemence.

Session 1:

- > Dr. V. Mary Anita Rajam Professor, Department of Computer Science and Engineering. College of Engineering Guindy. (CEG)Anna University Chennai, Chennai,
- She gave a worthy speech about Introduction to wireless networks. A wireless network is a computer network that uses wireless data connections between network nodes. Examples of wireless networks include cell phone networks, wireless local area networks (WLANs), wireless sensor networks, satellite communication networks, and terrestrial microwave networks.

Session 2:

- ➤ Dr. E.S.Gopi , Associate Professor, Department of Electronics and Communication Engineering, National Institute of Technology Tiruchirappalli -620015
- ➤ He gave a worthy speech aboutMachine Learning for Wireless communication.Recent advances in Machine Learning research has led enable a wide range of novel technologies

Dr. P. MANIIARASAN Principal

Nehru Institute of Engg. & Technolov T.M.Palayam, Coimbatore - 641 100. such as self-driving vehicles and voice assistants. Such innovation is possible as a result of the availability of advanced ML models, large datasets, and high computational power. On the other hand, the ever-increasing demand for connectivity will require a lot of innovation in 6G wireless networks, and ML tools will play a major role in solving problems in the wireless domain.

Session 3:

- Dr.Maheswaran, Professor, Department of ECE, National Institute of Technology, Tanjore Main Road, NH67, near BHEL, Tiruchirappalli.
- He gave a worthy speech aboutPhysical Layer in Wireless Communication. The physical layer defines the means of transmitting a stream of raw bits over a physical data link connecting network nodes. The bit stream may be grouped into code words or symbols and converted to a physical signal that is transmitted over a transmission medium.

Session 4:

- Mrs. S. Shanmugapriya, Assistant Professor, Department of CSE, Sri Krishna College of Engineering and Technology, BK Pudur, Sugunapuram East, Kuniyamuthur, Tamil Nadu- 641008.
- ➤ ②She gave a worthy speech about Security Attacks in Wireless Network, Security is a process, not a one-and-done event. Despite a great deal of 5G security work at the standards level, major unknowns still remain.

Session 5:

- Dr.R.Bharati,Professor, Dept. of ECE, University College Of Engineering Nagercoil.A Constituent College Of Anna University.Konam, Nagercoil,Kanyakumari District,Tamilnadu-629 004
- She gave a worthy speech aboutSecurity Issues in 5G Wireless Networks. Threats such as semantic information attacks (the use of incorrect information to cause harm) often target the location data of users. Location data can also be leaked by access point selection algorithms in 5G mobile networks. In all, more 5G antennas allow for precise location tracking of users inside and outside.

Session 6:

- Dr.S.V.ManisekaranAssistant ProfessorDepartment of Information Technology,Anna University Regional Campus,CoimbatoreTamilnadu- 641046
- ► He gave a worthy speech aboutChallenges in 5G Wireless Networks.Top 7 challenges

Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg. & Technology T.W. Palayam, Coimbatore - 641 105.

faced during 5G network deployment, Spectrum availability and implementation issues, deploying hybrid LTE-NR is critical, Complex network architecture, Demand for extensive 5G networks testing., Scarcity in 5G devices, Investment requirements and Regulations on radiation.

Session 7:

- > Dr. M. Dinakaran, Associate Professor, Mrs. P. Deepthi , Assistant Professor, Dept. of ECE, Government College of Technology.Salem.
- ➤ He gave a worthy speech aboutChallenges in 5G Wireless Communications. Fifthgeneration (5G) wireless promises not just to increase speeds but to enable new applications like automated cars and smart factories.

Session 8:

- Dr. S. Mythili , Professor, PSNA College Of Engineering And Technology, Kothandaraman Nagar, Tamil Nadu 624622
- ➤ He gave a worthy speech aboutChallenges and Applications of 5G in Health Care.Current connectivity solutions for IoT face challenges, such as the support for a massive number of devices, standardization, energy-efficiency, device density, and security.

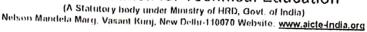
An CSIR Sponsored Two day National Seminar on entitled "Security Issues and Challenges in 5G wireless networks" was hosted on 23rd 24th August 2021 at 10.00 AM to 5.00 PM. The purpose of the seminar was to create opportunities for participants to gain and learn more about new things in Security Issues and Challenges in 5G wireless networks. The event started with the Inaugural function with welcome address by Dr. S.Subasree, HOD –CSE by Presidential Address Dr. N.K.Sakthivel, Dean (Computing), NIET, about the webinar by Dr.D.Satishkumar. ASP/CSE, the chief guest of the function was Dr. V. Mary Anita Rajam, Anna University Chennai.

Dr. P. MANIIARASAN

Principal
Nehru Institute of Engg & Technology
T.M.Palayam, Coimbatore - 641 105.



All India Council for Technical Education





AICTE TRAINING AND LEARNING (ATAL) ACADEMY (ONLINE FDP)

F. No. 01-App No. 1614930775/AICTE/ATAL-HQ/2020-21/321

Date: 23rd June, 2021

To
Dr. K Sathish Kumar
Coordinator for ATAL Online FDP,
Nehru Institute of Engg. and Tech.
Nehru Gardens, Thirumalayampalayam
Coimbatore
TAMIL NADU

Sub: Release of a sum of Rs 93,000 /- [Rupees Ninety three thousand only] for AICTE Training and Learning (ATAL) Academy programme Online FDP.

Sir,

This is to convey the sanction of the Council for payment of Rs. 93,000/-(Rupees Ninety three Thousand Only) for conduct of online AICTE Training And Learning (ATAL) Academy Programme [Conceptual and Practical Knowledge Sharing and Training Sessions on Computational Fluid Dynamics] from 14.06.2021 to 18.06.2021 to (Nehru Institute of Engg. and Tech., Nehru Gardens, Thirumalayampalayam, Coimbatore) under AICTE Training and Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- b. The cost for conducting per programme will be Rs.93,000/- as per detail given as under:

1.	Honorarium for Coordinator	Rs.	10,000/-
2.	Honorarium to Computer Operator	Rs.	2,000/-
3.	Honorarium for experts (Rs. 5000 per session for total 14 session)	Rs.	70,000/-
4.	Provision for payment to Lab Attendant	Rs.	1,000/-
5.	Miscellaneous charges [Petty expenses not covered above]	Rs.	10,000/-
	TOTAL:	Rs.	93,000/-

Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93 lakh being intact.

c. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form.

III. Conduct of test and issuance of certificate

A test shall be conducted by coordinator at the end of the program.

• The certificates shall be issued to those participants who have approved by coordinator attended the program with minimum 80% of attendance and scored minimum 60% marks in the test.

Dr. P. MANIIARASAN

Principal

Nehru Institute of Engg. & Technology T.M.Palayam, Comparere - 641 105.

IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of the program: -
 - List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of AICTE Training and Learning (ATAL) Academy programme.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grantin-aid shall to adjust.

V. General Instructions

- a. Maximum 200 participants may be allowed to attend online FDP. Coordinators are free to admit small number of participants depending on the feasibility.
- b. A test has to be conducted (may be online) on the last day and those who score more than 60% will be termed as successful candidates. Those who have attendance 80% or more and also score more than 60% in the test will be issued a digital certificate.
- c. These online sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP. You are also requested to upload recording on Youtube of Google drive share recording link of the sessions with AICTE.

d. Eligibility for Participants:

- (i) The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.)/ School Teachers and staff of host institutions.
- (ii) Not more than 30% from Host Institution
- e. If programme is not conducted in the financial year 2021 only, there leased amount, has to be returned back to AICTE.
- f. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.
- g. FDP Title Name, Name of Coordinator, Institute Name is not allowed to change without permission, however schedule dates may be changes with information to ATAL Academy Cell and Regional Office.

This Sanction Order may be treated as Offer Letter for all purposes.

M. Sundakesan REGIONAL OFFICER

AICTE, SRO, CHENNAI

Copy forwarded for information and necessary action to: -

1. , Nehru Institute of Engg. and Tech., Nehru Gardens, Thirumalayampalayam, Coimbatorefor information.

2. ATAL Academy Cell AICTE HQ

3. Guard File.

Dr. P. MANIIARASAN

Principal

Nehru Institute of Enga & Technology T.M.Palayam, Coimbatore - 641 100.



Statement for A/c 61692200016024 Between 01-Jun-2021 and 31-May-2022

Client 309413038

Name THE PRINCIPAL NIET
Address NEHRU GARDENS

THIRUMALAYAMPALAYAM

COIMBATORE SOUTH COIMBATORE

641105 TAMIL NADU

Phone 918825996557

Branch Code Branch Name Address

IFSC Code

Date	Particulars	Withdrawals	Deposits	Balance
		Opening Ba	lance	4,45,220.95
24-06-2021	NEFT CR-SBIN0001176-AICTE-NEHRU INSTITUTE OF ENGG AND TECH-SBIN521175983298		93,000.00	5,38,220.95
13-07-2021	NEFT DR-P194210117196291-G RAJU-ICIC0001900- THIRUMALAYAM	60,000.00		4,78,220.95
13-07-2021	NEFT SC	6.00		4,78,214.95
13-07-2021	NEFT DR-P194210117199748-G KUMARESAN- SBIN0006463-THIRUMALAYAM	5,000.00		4,73,214.95
13-07-2021	NEFT SC	3.00		4,73,211.95
13-07-2021	NEFT DR-P194210117209263-R KOUSHIK KUMAR- IOBA0000079-THIRUMALAYAM	1,000.00		4,72,211.95
13-07-2021	NEFT SC	3.00		4,72,208.95
13-07-2021	NEFT DR-P194210117211266-K SATHISH KUMAR- FDRL0001610-THIRUMALAYAM	15,000.00		4,57,208.95
13-07-2021	NEFT SC	6.00		4,57,202.95
13-07-2021	NEFT DR-P194210117210349-G EZHILMARAN- IDIB000C028-THIRUMALAYAM	2,000.00		4,55,202.95
13-07-2021	NEFT SC	3.00		4,55,199.95
13-07-2021	NEFT DR-P194210117182490-G GAYATHRI- IOBA0000095-THIRUMALAYAM	5,000.00		4,50,199.95
13-07-2021	NEFT SC	3.00		4,50,196.95
16-07-2021	SELF - THIRUMALAYAM Dr. P. MANI Prince			4,45,196.95
31-07-2021	SBINT FOR THE PERIOD FROM01-Merina 11 17 19 19 19 19 19 19 19 19 19 19 19 19 19	on & Technology	3,396.00	4,48,592.95