



INDEX

CRITERION: 3.1.1

Grants for research projects sponsored by government/non government sources such as industry, corporate houses, international bodies, endowment, chairs in the institution during the last five years

| Academic Year | Department | Nature of award | Name of awarding agency | Amount In Rs. | Page No. |
|---------------|---|------------------------|---|---------------|----------|
| 2019-20 | Electrical and Electronics Engineering | Student Project Scheme | Tamil Nadu State Council for Science & Technology | 7,500.00 | 2 |
| 2018-19 | Computer Science and Engineering | Student Project Scheme | Tamil Nadu State Council for Science & Technology | 5,000.00 | 5 |
| 2018-19 | Electronics and Communication Engineering | Student Project Scheme | Tamil Nadu State Council for Science & Technology | 7,500.00 | 7 |
| 2018-19 | Electronics and Communication Engineering | Student Project Scheme | Tamil Nadu State Council for Science & Technology | 7,500.00 | 11 |



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
(Established by Government of Tamilnadu)
Directorate of Technical Education Campus, Chennai – 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/AR/2019-2020

LAO.

18.03.2020

To
The Principal
Kings College of Engineering
Pudukkottai - 613 303

Sir/Madam,

Sub: TNSCST – Student Project Scheme – 2019-2020 – 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.

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,

Yours faithfully,

[Signature]
18/3/20

Member Secretary.

[Signature]
18/3/20

- Encl: a) Terms & Conditions (T&C)
b) Format of Utilisation Certificate (UC)
c) Cheque for Rs.7500/- No: 852977 dt.18.03.2020

Copy to: Individual Guides

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

STUDENT PROJECT SCHEME 2019-2020
APPROVED LIST OF PROJECTS - ENGINEERING STREAM

| No. | Guide Name & Address | Title of the Project | Student(s) Name | Code | Amt. Rs. |
|-----------------------------|---|---|--|---------|----------|
| Chemical Engineering | | | | | |
| 1. | Dr.M.Rengasamy Assistant Professor Dept. of Petrochemical Engg, Anna University Tiruchirappalli-620024 | Fabrication of capillary action crude oil removal and recovery model to clean up oil spills | V.Krishna Theja S.Manojkumar V.Vijayakumar | CHE-001 | 7500/- |
| 2. | Dr.N.Samsudeen, AP & Dr.K.M.Muthukumar Professor Dept. of Chemical Engg National Institute of Tech. Tiruchirappalli-620015 | Simultaneous electricity and bio butanol production from industrial waste water treatment using microbial fuel cell | Khadeeja Parveen | CHE-002 | 7500/- |
| 3. | Mr.S.Yuvaraj Assistant Professor Dept. of Chemical Engg Adhiyamaan College of Engg, Hosur-635109 | Experimental investigation on extraction (Soxhlet + Microwave assisted) and drying characteristics of red dragon fruit (Hylocereus polyhizus) | Arun R Kabileeshwaran S Muthupandi S Nandhakumar T | CHE-003 | 7500/- |
| 4. | Mr.M.P.Murugaesan Assistant Professor Dept. of Chemical Engg Erode Sengunthar Engineering College Erode-638057 | Production of the oral dosage form for the treatment of cholestrol and vitamin deficiency from the natural source | J.V. Dhanagopal M.S.Idhikaskumar A.Aravinth R.Hariharan | CHE-004 | 7500/- |
| 5. | Dr.R.Palani Associate Professor Dept. of Chemical Engg Sri Venkateswara college of Engineering, Sriperumbudur-602 117 | Removal of Chromium(VI) from contaminated water by using the petals of banana blossoms | I.Becky Miriyam | CHE-005 | 7500/- |
| 6. | Dr.M.D.Duraimurugan Professor Dept. of Petro Chemical Technology Excel College of Engg and Technology, Namakkal-637303 | Extraction and recovery of azo dye into an anionic liquid | Kanchaiya Kumar Sumit Kumar Sajid Ahmed K Mohamed Arshad Mahboob N | CHE-006 | 7500/- |
| 7. | Dr.C.Gomadurai Associate Professor Dept. of Chemical Engg Kongu Engg College Erode-638 060 | Experimental Studies on leaching of copper from chalcopyrite using mixed solvent | C.Prabhu V.Shree Ram R.Vinith | CHE-007 | 7500/- |
| 8. | Mr.D.Sreenivasan Assistant Professor Dept. of Chemical Engg., Paavai Engg College Namakkal-637018 | Isolation of Chitin and Chitin derivative from shell waste (Scylla serrata) | A.Suresh Babu S.Parandhaman P.Adnan Sreerag Manikandan | CHE-008 | 7500/- |
| 9. | Dr.S.Satheeskumar Professor Dept. of Nanotechnology KSR College of Tech Namakkal-637215 | Electroless deposition of copper - zinc oxide nano particle on banana bark fiber silk to produce high efficient anti-bacterial bandages | S.Praveen Kumar | CHE-009 | 5500/- |

| | | | | | |
|------|---|---|--|---------|--------|
| 200. | Dr. S. Sivakumar Professor, Dept. of EEE Kings College of Engg. Pudukottai - 613 303 | Generation of fuel from plastic wastes | R.Pavithra M.Rasika R.Sakthi Sridevi | EEE-073 | 7500/- |
| 201. | Mr. E. Kannan Asst. Professor Dept. of EEE K.S.R. College of Engg., Tiruchengode - 637 215 | Automatic yeast filling and sealing machine using PLC | Logesh G Prabhakaran P Prasanth M Praveen Kumar P | EEE-074 | 7500/- |
| 202. | Dr. V. Agnes Idhaya Selvi Associate Professor Dept. of EEE Kalasalingam Academy of Research and Education Krishnankoil - 626 126 | Smart life jacket for fisherman | Saran Ganesh M Vasantha Kumar R Praveen Shai M | EEE-075 | 7500/- |
| 203. | Dr. S. Senthilrani Asst. Professor Dept. of EEE Vellammal College of Engineering and Tech., Madurai - 625 009 | Alleviation of Fishery using Sensor Based Technology: A Step Towards Life Shelf Improvement | S. Babitha Sri U. Gayathri R.M. Sanju Vikasini | EEE-076 | 7500/- |
| 204. | Ms. A. Keerthana Asst. Professor Dept. of Biomedical Engineering Vels Institute of Science, Technology and Advanced Studies, Pallavaram Chennai - 600 117 | Design and development of 3D printed prosthetic socket for lower limb amputees | Jenkins Albert.A | EEE-077 | 7500/- |
| 205. | Mr. S. Mathankumar Associate Professor Dept. of Biomedical Engg Vinayaka Mission's Kirupananda Variyar Engineering College Salem - 636 308 | Electronic nerve stimulation device for paralyzed drop foot correction | Divya C Karan G Devi Priya S Nandhini R | EEE-078 | 7500/- |
| 206. | Mr.S.Gnanamurugan AP / Dept. of ECE Vivekanandha College of Engineering for Women, Elayampalayam Namakkal – 637 205 | Belligerent's Foe Robot with Night Vision wireless Camera using RF Technology | S.Rama Devi K.Sonia M.Subbulakshmi S.Suruthi D.Yazhini Chellam | EEE-079 | 7500/- |
| 207. | Dr. R. Rajkumar Asst. Professor/ECE VLB Janakiammal College of Arts and Science Kovaipudur Coimbatore - 641 042 | Rapid response ambulance management system for accident rescue operation | Joshua.B Ajithkumar.M Subair.S.M | EEE-080 | 7500/- |
| 208. | Mr. G. Sadiq Basha Associate Professor/ ECE V.R.S. College of Engineering and Technology Villupuram - 607 107 | Design and implementation of an interactive road safety system for young bikers | P.Sivaganga P.Karthiga E.Kiruthika | EEE-081 | 7500/- |
| 209. | Dr. K. Penyameen Asst. Professor Dept. of ECE Vaigai College of Engineering Madurai - 625 122 | Money withdrawal without ATM Card | B.R.K. Balaji K.R. Vishal | EEE-082 | 7500/- |



TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Govt. of Tamilnadu)

DOTe Campus, Chennai - 600 02

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

Ref: TNSCST/SPS/AR/2018-2019/

24.06.2019

To: Ms.R.Suganthia Lakshmi
Assistant Professor
Dept. of Computer Science and Engineering
Kings College of Engineering
Punalkulam
Thanjavur -613003

Sir/Madam,

Sub: TNSCST Programme 'Student Project Scheme' – Conduct of Seminar–Cum–Exhibition – Invitation extended – reg.

With reference to the above, the Seminar-cum-Exhibition has been arranged on 19th and 20th **JULY 2019 at Kalasalingam Academy of Education and Research (Kalasalingam University), Krishnankoil, Srivilliputhur-626126.** I request you to kindly ensure that one of the student who did the project must come to Krishnankoil and present the findings of the project in the seminar. Models pertaining to the project can be exhibited and share your innovative ideas with others.

The following points may please be noted:

- The student must report to coordinator Dr.R.Ramalakshmi (9486488642 & rama@klu.ac.in) & Dr. N. Nallamuthu (8220471458 & nnallamuthu@gmail.com) Kalasalingam Academy of Education and Research, Krishnankoil, Srivilliputhur-626126.
- Accommodation and food will be provided from the evening of 18th July 2019 till the evening 20th July 2019 in the college hostel.
- Only one student will be provided boarding and lodging in the College hostel. No charges need to be paid. **Second sleeper class train fare / Actual Bus (Govt. bus) fare** (Up & Down) from the Place of study to Kalasalingam Academy of Education and Research, Srivilliputhur will be provided for one student of each project.
- The student must be present on both the days (i.e) **19th and 20th JULY 2019.**
- The student should make the oral presentation within the allotted time of 10 minutes and LCD Projectors will be provided.
- Request for specific requirement for display of project must be made in advance to the Co-ordinator.
- Certificate will be given to those who have done the project.
- Prizes will be given to the best presentation and best exhibit in each discipline.

Those who have not submitted the Utilization Certificate so far, kindly arrange to send the same immediately without any further delay.

I request you to co-operate in making this seminar-cum-exhibition a successful academic event.

Thanking you,

Yours faithfully,

Member Secretary

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Dr R.SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S (USA),
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Lr.No.TNSCST/SPS/AR/2018-2019

To
 The Principal
 Kings College of Engineering
 Puunakulam - 613303, Thanjavur - Dt.,



Sir/Madam,

Sub: TNSCST – Student Project Scheme – 2018-2019 – 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. Kindly read and ensure adherence to the terms and conditions such as submission of UC and seminar paper in time.

Kindly find enclosed here with 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,

Yours faithfully,


 Member Secretary.

Encl: a) Terms & Conditions (T&C)
 b) Format of Utilisation Certificate (UC)
 c) Cheque for Rs 20000/- No: 795040 dt:18.02.2019.

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI-600025

APPROVED LIST OF STUDENT PROJECTS 2018-2019
ENGINEERING STREAM

CHEMICAL ENGINEERING

| No. | Guide Name & Address | Title of the Project | Student(s) Name | Code | Amt. Rs. |
|-----|---|---|--|---------|----------|
| 001 | Dr. S. Venkatesan Associate Professor Dept. of Petrochemical Technology Anna University (BIT Campus) Tiruchirappalli - 620024 | Deep desulfurisation of liquid fuels using ionic liquids | Abirami R Samanya R | CHE-001 | 7500/- |
| 002 | Dr.N. Samsudeen Assistant Professor Dept. of Chemical Engineering National Institute of Technology Tiruchirappalli - 620015 | Design of a controller for enhancing the hydrogen production in microbial electrolysis cell | Aenai Premkumar K P | CHE-002 | 7500/- |
| 003 | K Chithra Associate Professor Dept. of Chemical Engineering A.C.Tech, Anna University Chennai-600025 | Experimental Studies on Residual vacuum oil viscosity reduction | K Zeliyan | CHE-003 | 7500/- |
| 004 | Dr P Mullai Professor Dept. of Chemical Engineering Annamalai University Chidambaram-608002 | Bitumen binding with lignin for road construction - An eco-friendly approach | J Iyyappan | CHE-004 | 7500/- |
| 005 | K P Bhuvana Associate Professor Dept. of Plastics Technology Central Institute of Plastics Engineering and Technology Chennai-600032 | Development of long lasting polymer material for tower systems to install photovoltaic panels in water bodies | Aakshai Kumar G Gayathri V Priya S Rathimalar S | CHE-005 | 7500/- |
| 006 | N Subramanian Assistant Professor Dept. of Chemical Engineering Kongu Engineering College Erode-638060 | Biodegradable plastic from mixed starch | Haritha S R Chandra Choodan K David Madhusudhanan K | CHE-006 | 7500/- |
| 007 | Raj Kumar A Assistant Professor Dept. of Petrochemical Engineering SVS College of Engineering Coimbatore-642109 | Efficient Removal Of Acid And Base Dye From Aqueous Solution Using A Nanocomposite Of Polypyrrole grafted - Sodium Alginate And Incorporated Bentonite | Mohamed Yasar I | CHE-007 | 7500/- |
| 008 | Dr J B Veeramalini Assistant Professor Dept. of Chemical Engineering Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College Chennai-600062 | Comparative study and oxidative stability of various natural antioxidant potentials in essential oils | V N Kavya N U Yuvatri | CHE-008 | 7500/- |
| 009 | P Induja Assistant Professor | Synthesis Of Microcrystalline Cellulose, Silica And Imparting | G Ashwin A John | CHE-009 | 7500/- |

| | | | | | |
|-----|---|--|---|---------|--------|
| 184 | Mr.T.Jevaseelan Kings College of Engineering Punalkulam-61303 Thanjavur-DI. | VLSI Implementation of automated monitoring and detection for tonsillitis by image processing | S.Shoeba | EEE-059 | 7500/- |
| 185 | Mr.T.Yuvaraja Assistant Professor Dept. of ECE Kongunadu College of Engineering and Technology Thottiam,Trichy - 621 215 | Forest fire detection and rescue system for hill areas in India | N.Abuthaheer V.Gowtham B.Jaisurya M.S.Haribaran | EEE-060 | 7500/- |
| 186 | B Lalitha and Dr J Karpagam Associate Professor and Professor,Dept. of EEE KPR institute of engineering and Technology Coimbatore-641407 | Parametric monitoring and controlling of wind turbine based on wireless transmission using IoT | Pavithra M Sangavai S Shobika Varsini S Sreenithi SG | EEE-061 | 7500/- |
| 187 | Mr.A.Ravi Assistant Professor Dept. of ECE KSR Institute of Engineering and Technology Tiruchengode - 637 215 | Soldier navigation and health tracking system using arduino | S.Keerthana K.Nivedha C.Nivedhan Raj C.Selvarakeshkumar | EEE-062 | 7500/- |
| 188 | Mr.D.Allin Joe Assistant Professor Dept. of ECE Kumaraguru College of Technology,Saravanampatti Coimbatore -641 049 | Smart water can ordering system | U.S.Praveen Raj K.B.Ajithkumar L.Jey Ganesh G.Sushrut | EEE-063 | 7500/- |
| 189 | A.Jothivel Assistant Professor M.A.M. School of Engineering Siruganur, Tiruchirappalli-621105 | An increasing the engine speed by using flywheel booster | S.Ranjithkumar S.Denis I.Ajay Prasanth M.Aslam Nijamudeen | EEE-064 | 7500/- |
| 190 | Dr.S.Palanivel Rajan Associate Professor Dept. of ECE M. Kumarasamy College of Engineering,Thalavapalayam Karur-639113 | Design of an aided system for visually challenged people in bus transportation | L.Kavitha | EEE-065 | 7500/- |
| 191 | A.N.Sivadarshani Assistant Professor Dept. of ECE Mangayarkarasi College of Engineering Paravai, Madurai - 02 | Bridge monitoring and alerting system | A.Amirtha N.Lakshmi Priya M.Pavithra R.Nandhini | EEE-066 | 7500/- |
| 192 | Mr.Lalin L.Laudis Assistant Professor Dept. of EEE Mar Ephraem College of Engineering and Technology Elavuvilai Marthandam - 627 171 | Farm Watch an efficient way of monitoring and controlling a multi corp farm | Sudhan.S Jefrin.E Prabin.S | EEE-067 | 7500/- |
| 193 | Dr.S.Muralidharan Dept. of EEE Mepco Schelenk Engineering College,Sivakasi - 626 005 | MPPT implementation for fuel cell under various fuel flow condition | Kavipriya Dharshini.A Vinithra.V Vinothini.R | EEE-068 | 7500/- |
| 194 | Dr.V.Sathiesh Kumar Assistant Professor Dept. of EEE MIT Campus, Anna University,Chennai - 600 044 | Design and development of automatic skin lesion diagnostic system based on fully convolutional deep residual network | G.S.Jayalakshmi | EEE-069 | 7500/- |



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(Signature)
 12/2/19
 Member Secretary.

Encl: a) Terms & Conditions (T&C)
 b) Format of Utilisation Certificate (UC)
 c) Cheque for Rs 20000/- No: 795040

dt:18.02.2019.

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**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI-600025**

**APPROVED LIST OF STUDENT PROJECTS 2018-2019
SCIENCE STREAM**

AGRICULTURAL SCIENCES

| No. | Guide Name & Address | Title of the Project | Student(s) Name | Code | Amt. Rs. |
|-----|--|--|--|--------|----------|
| 001 | S.Kalaivani Assistant Professor Shri sakthikailash Women's College Salem-636003 | Biological control of leafminer (Aporocrem amodicella L.) in groundnut field against chitinase producing microorganism from soil | A Athira | AS-001 | 7500/- |
| 002 | Dr D Arulbalachandran Assistant Professor Dept. of Botany Periyar University Salam- 636011 | Screening of drought tolerance rice genotypes in varied arid regions of western Tamilnadu | M Ramya P shanumuga Priya V Sivaranjani | AS-002 | 7500/- |
| 003 | B Narenthiran Dept. of Mech. Engg. Karpagam Academy of Hr.Educator Coimbatore - 641021 | Design and fabrication of water filter using CNT/AGNW | P Ramkumar M Giri raja M Manikandan S Vinith Kumar | AS-003 | 7500/- |
| 004 | Dr. G. Ayyappadasan Assistant Professor Dept. of Biotechnology KS Rangasamy college of Technology Namakkal-637251 | Design and development of sprouted multi chamber for the formulation protein rich powder as a ready to serve for adolescent girls | Ramya, S | AS-004 | 7500/- |
| 005 | Dr R Selvakumar Associate Professor Dept. of CSE Adhi College of Engg. And Tech Kancheepuram - 631305 | iABIG: improved agriculture - best innovation for generations | N Kala G Geetha M Punitha E saranya | AS-005 | 7500/- |
| 006 | Dr R Durai singh Professor Regional Research Station Arappukottai-626107 | Evaluation of planting methods and weed management practices in SRI raised under puddled and un - puddled field conditions | Nandhini Y | AS-006 | 7500/- |
| 007 | Dr K Chinrusamy Professor, Dept. of ECE Velammal Inst. Of Technology Panchetti-601204 Thiruvallur DL. | Farmer to customer e-trade | B Ganasankari N R Abarna M Muthu Manjula | AS-007 | 7500/- |
| 008 | Dr. A. Joshi and Palariraj. A Professor Dept. of Information Technology Panimalar Institute of Technology Chennai-600123 | Farmers toy | Antony Dhanupaul. V Anand. B Cesha Jephil. A Bhuvanesh. M | AS-008 | 7500/- |
| 009 | Dr K S K Sasikumar Associate Professor Dept. of Mechanical Engineering Kongu Engineering College Perundurai-638052 | Design and development of coconut leaflet midrib separator | M.Gokulnath P Jagun S Gowthaman | AS-009 | 7500/- |

| | | | | | |
|-----|---|--|--|--------|--------|
| 086 | Dr.M.Aniskumar Associate Professor Dept. of Biotechnology Pavendar Bhurathidasan College of Engineering and Technology Trichy - 620 024 | Bioprocess consideration of bench top reactor for the production of cell biomass and secondary metabolites by using plant cell suspension cultures of andrographis paniculata | Vignesh.T | BS-036 | 7500/- |
| 087 | Dr.Prabhu G.R. Associate Professor Dept. of Biotechnology Karpagam Academy of Higher Education Coimbatore-641021 | Bioactive phyto-chemical inhibitors for the major enzymatic components (Serine- and Metallo- Protease) of snake venom - A step towards Phyto-Chemical Antidote | Sasikumar S Chandralekha S | BS-037 | 7500/- |
| 088 | Dr.S.Sandhi Professor Dept of ECE KalaignarKarunanidhi Institute of Technology, Coimbatore-641402 | Continuous glucose monitoring system in rural ICU | V.Sridevi J.Sandhiya R.Mouli | BS-038 | 7500/- |
| 089 | Mr.V.Boobalan Assistant Professor Dept. of Biomedical Engineering Mahendra College of Engineering Salem -626 106 | Sputtering of HAP Nanoparticle in Dental Implant to improve osseointegration | S.Murugan M.Vijay J.Pugazhenth S.Indra Kumar | BS-039 | 7500/- |
| 090 | M.Brindha Assistant Professor Dept. of Biomedical Engineering Velalar College of Engineering and Technology, Thindal Erode - 638 012 | Alzheimer's patient movement tracking and monitoring using MIWI technology | Paulson Mathew G.Sridevi R.Vanitha K.G.Vichetra | BS-040 | 7500/- |
| 091 | Dr. Supriya S Assistant Professor Dept of Mechanical Engg., Government College of Engineering, Tirunelveli-627 007 | Bio-mechanical and fracture analysis of FGM based human femoral bone through computational study | Sureshkumar T | BS-041 | 7500/- |
| 092 | Mr.M.Mohamed Yaseen Assistant Professor Dept. of ECE KCG College of Technology Chennai 600 097 | Mission Quintroids | A Ajay Narayanan V.Muthu Pattu V.Arun Kumar | BS-042 | 7500/- |
| 093 | Dr.S.Karthikumar Assistant Professor Dept. of Biotechnology Kamaraj College of Engineering and Technology Virudhunagar-625701 | Development of low cost IoT based high-throughput dip test for organophosphate pesticide detection in fruits and vegetables | D.Lenisha J.Juliana G.Janaki | BS-043 | 7500/- |
| 094 | Mrs.R.Ponni Assistant Professor Dept. of ECE Kings College of Engg Punalakulam-613003 Thanjavur -Dt. | R3 Mestrual Kit | L.Mowli K.Jaishree | BS-044 | 7500/- |
| 095 | Ms.P.Revathi Assistant Professor Dept. of ECE Kongu Engineering College Erode-636060 | Medical aid for multiple sclerosis patient | G.Prasanna Kumar K.Prashanthi N.Thoufeek Raja | BS-045 | 7500/- |



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