



Patents Filed by Faculty Members/Students at NHCE

Sl.No	Title of Patent/Discovery/Patent Pending No./Patent No./ Patent Application Number	Jurisdiction/ Published in Indian Patent Journal/ Published Date	Inventors' Name Faculty Members/ Students/Emeritus Professors	Year of Application/ Grant/ Department
1.	Super charger Assembly for Small Capacity Internal Combustion Engines and Method of Using the Same – 3118 / CHE / 2011 – Intepat IP Services.	India	Dr.Manjunatha	Mechanical 2011
2.	Patent rights for Encoding of RFID, WO/2006/043876 & WO/2009/070936 Also been awarded by Sweden: SE/0402571-4	Sweden	Dr. Dhanesh G Kurup	ECE 2012
3.	World's First and Largest 3D Screen (16'6") Video Simulator Ride having 20 Seats Built on 35' Truck Chassis with Expandable Auditorium On Wheels. India's First Simulator Ride ON WHEELS Built on Multi-purpose Expandable Auditorium. International Patent has been filed at Russian Federation under Utility Model Application No. 2014115371; Patent Granted No. 152801.	Russian Federation / India	Dr. K. Gopalakrishnan	Mechanical 2013
4.	International Patent "Compartmentalized Air Inflated Seat" has been filled at United States Patent and Trademark Office, Foreign Filing License Granted on 09/16/2015, Number of Priority Application is US 62/211,828, Confirmation No. 6846	USA	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra	Mechanical Confirmation2 015
5.	International Patent "Dump but Smarter Phone" has been filled at United States Patent and Trademark Office, Foreign Filing License Granted on 09/24/2015, Number of Priority Application is US 62/216,380, Confirmation No. 6002	-do-	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical 2015
6.	International Patent "Competitive Model of Institute-Industry Collaboration" has been filled at United States Patent and Trademark Office, Foreign Filing License Electronic Acknowledgement Receipt, EFS ID 24418948, number of Priority Application is 62269932, Confirmation No. 6090	-do-	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical 2015
7.	International Patent "Mobile Theatre Type Classroom" has been filled at United States Patent and Trademark Office, Foreign Filing License Electronic Acknowledgement Receipt, EFS ID 24418944, number of Priority Application is 62269930, Confirmation No. 2137	-do-	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical 2015
8.	International Patent "Design Education Enhancement" has been filled at United States Patent and Trademark Office, Foreign Filing License Electronic Acknowledgement Receipt, EFS ID 25289981, number of Priority Application is 62312475, Confirmation No. 5131	-do-	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical 2015
9.	International Patent "Learning Network Growth Model" has been filled at United States Patent and Trademark Office, Foreign Filing License Electronic Acknowledgement Receipt, EFS ID 25289973, number of Priority Application is 62312472, Confirmation No. 6279	-do-	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical 2015
10.	Smart Materials Used Inside Mobile Auditorium in Walls, on Roof and on Floor. Indian Application Number/NoC to filling at Myanmar: 2285/DEL/2015. Published in Patent Journal, 2017	New Delhi, India / Myanmar 05/2017, Dt. 03/02/2017	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical Civil 2015-16
11.	Pulse Rate Controlled Helmet. Indian Application Number/NoC to filling at Myanmar: 2288/DEL/2015 Published in Patent Journal, 2017	-do- 05/2017, Dt. 03/02/2017	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. CharuMonga	Mechanical ECE 2015-16

12.	Inflation of Compartmentalized Seat. Indian Application Number/NoC to filling at Myanmar: 2283/DEL/2015 <i>Published in Patent Journal, 2017</i>	-do- 05/2017, Dt. 03/02/2017	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical 2015-16
13.	Tilting Floor in Bus. Indian Application Number/NoC to filling at Myanmar: 2286/DEL/2015 <i>Published in Patent Journal, 2017</i>	-do- 05/2017, Dt. 03/02/2017	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical Automobile 2015-16
14.	Auditorium On Trailer. Indian Application Number/NoC to filling at Myanmar: 2289/DEL/2015 <i>Published in Patent Journal, 2017</i>	-do- 05/2017, Dt. 03/02/2017	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical 2015-16
15.	Windows of Bus Transmitting Radio Signals for Cell Phones Inside. Indian Application Number/NoC to filling at Myanmar: 2287/DEL/2015 <i>Published in Patent Journal, 2017</i>	-do- 05/2017, Dt. 03/02/2017	Dr. K. Gopalakrishnan Dr. Saurabh Kwatra Dr. L. V. Muralikrishna Reddy	Mechanical ECE 2015-16
16.	Chlorella rotunda 18S ribosomal RNA gene, partial sequence. Accession Number: KX258768. A novel elite microalga with high natural lipid content. <i>Submitted to NCBI-GenBank-USA</i>	India	Dr. R.S.Upendra Dr.PratimaKhandelwal	Biotechnology 2015-16 Discovery
17.	Molecular characterizations of lovastatin-producing fungal isolate <i>Aspergillus terreus</i> SSM4	-do-	Dr. R.S.Upendra Dr.PratimaKhandelwal	Biotechnology 2013-14
18.	Isolation and molecular characterization of natural fungal isolates producing lovastatin <i>Aspergillus terreus</i>	-do-	Dr. R.S.Upendra Dr.PratimaKhandelwal	Biotechnology 2013-14 Discovery
19.	Molecular characterizations of lovastatin-producing fungal isolate <i>Aspergillus flavus</i>	-do-	Dr. R.S.Upendra Dr.PratimaKhandelwal	Biotechnology 2013-14 Discovery
20.	Process Patent	-do-	Dr.PratimaKhandelwal et al	Biotechnology 2003-04 Discovery
21.	Jacketed Pervious Bricks E-2/1427/2017-CHE and Application No. 201741018090 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Pawan Kumar K R	Civil .2017
22.	Design and Fabrication of Autonomous Lubrication of Chain E-2/1422/2017-CHE and Application No. 201741018085 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C, Vikas Kumar, Utkarsh Singh, PappuSaha, Saroj Kumar, Dr. ShirdharKurse, Puneeth. H.V, Bopanna. K.D	Mechanical 2017
23.	Dual Cam Operated Drum Brake E-2/1415/2017-CHE and Application No. 201741018078 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Likhith Sai K.S Sunil Prashanth Kumar	Automobile 2017
24.	Design and Development of Electric Powerless Refrigerator E-2/1423/2017-CHE and Application No. 201741018086 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha Dr. M S Ganesha Prasad Ronald R Reagon Arshad Ayub, Khaiser Ahmed Mohammed Sufiyan S Abdul Samadh M.N, Lohith. N Madhusudhan, Santhosh	Mechanical 2017
25.	Glass Cleaning Automated Robot for High Rise Building Applications E-2/1417/2017-CHE and Application No. 201741018080 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Lokesh, Priyanka Sairam Dr. M. S. Ganesha Prasad Dr. Manjunatha, Dr. ShirdharKurse, Dr. BellieViswanath Chetan Kumar. D.S, Veerasha. G, Manjesh. B.C	Mechanical Auto 2017
26.	Turmeric powder (<i>Curcuma longa Linn.</i>) based novel plant tissue culture media by means of enhanced callus inducing and anti fungal abilities E-2/1431/2017-CHE and Application No. 201741018094 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	R.S Upendra PratimaKhandelwal Asha B.M	Biotechnology 2017
27.	Mullite ceramic Coating on cast aluminum pistons and cylinder heads for IC Engine applications E-2/1420/2017-CHE and Application No. 201741018083 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. BellieViswanath Dr. Manjunatha, Dr. M S Ganesha Prasad, Nagabhushana. N Ravikumar. M, Nagendra	Mechanical 2017

			Srinath. M.K, Kemparaju	
28.	Design of a novel Hybrid Photobioreactor for cultivation of microalgae for Biodiesel production E-2/1432/2017-CHE and Application No. 201741018095 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	R.S Upendra PratimaKhandelwal AakrutiRuia, Amulya Grace	Biotechnology 2017
29.	Combined Solar and Wind Energy Water Pumping System E-2/1419/2017-CHE and Application No. 201741018082 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha Dr. M S Ganesha Prasad Shivaprakash. S, Francis Evans, Kumar Ankit, Deepti, S. Vishanth, Hanamanth. Y Rajesh. A, Kamalashish Deb	Mechanical 2017
30.	Design and Fabrication of Solar Powered Bicycle E-2/1418/2017-CHE and Application No. 201741018081 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Bopanna K.D, Jebin Koshy Sabu, DilshadDavood, ShabazZaheer, Joby James, Ronald Regan, Raghu Tilak Reddy	Mechanical 2017
31.	Electronic Variable Speed Governor for Two Wheeler E-2/1433/2017-CHE and Application No. 201741018096 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dipesh Bhushan	Automobile 2017
32.	Breaking Head attachment for conducting bond strength test E-2/1421/2017-CHE and Application No. 201741018084 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Satish D	Civil 2017
33.	Novel Method for Conversion of Waste Plastic into Fuel E-2/1416/2017-CHE and Application No. 201741018079 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C Siddarth Dinesh, Mohnish Raj D, Markose, Sandeep Ramesh, Puneeth. H.V Karthik, Megha Shukla	Mechanical 2017
34.	System and Method Using Median Index Sort (MI Sort) for Integers E-2/1429/2017-CHE and Application No. 201741018092 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Prashanth CSR Dr. Mohan Kumar Beena BM, Suriya Begum Clara A, Pramila Rani	CSE 2017
35.	Apparatus and Novel Method Using Indexed Bucket Sorting Algorithm E-2/1428/2017-CHE and Application No. 201741018091 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Prashanth CSR Deepika, Jaya R, Anjana Sharma, Asha Rani, Sivabalan, Shanmugapriya Kundhavai	CSE 2017
36.	Novel Method to Ensure Wrong Window Message Alert System E-2/1430/2017-CHE and Application No. 201741018093 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Prashanth CSR	CSE 2017
37.	A Method to alert the user in case of a mobile theft/Unauthorized Use E-2/1412/2017-CHE and Application No. 201741018075 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Hari Kumar Venkatesh Kota Reddy Lakshmi	EEE 2017
38.	Scale up studies of microalgae <i>Chlorella rotunda</i> for biolipids (Biodiesel) as third generation biofuel along with value-added product using indigenously developed Photo bioreactor E-2/1411/2017-CHE and Application No. 201741018074 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	R.S Upendra, PratimaKhandelwal, Shalini R Pallavi B, SubhasmitaNayak Swati Jain	Biotechnology 2017
39.	System and Method for Smart Sustainable and Expandable Helmet with IoT Capabilities E-2/1413/2017-CHE and Application No. 201741018076 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Vishwa. G Dr. Prashanth. CSR Dr. K. Gopalakrishnan Dr. Manjunatha, Dr. M.S. Ganesha Prasad, Dr. Nisha. KCR, Dharmambal	CSE Mechanical ECE 2017
40.	System and Method for Exo Skeleton for Lower Limb E-2/1414/2017-CHE and Application No. 201741018077 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C S.M.Danish, Shivam, Harish Kumar Yadav, Atinder Pal Singh, Puneeth. H.V, Bopanna.KD,	Mechanical 2017

			Nagabhushana.N	
41.	Multi Purpose Agricultural Robot E-2/1424/2017-CHE and Application No. 201741018087 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesh Prasad, Shivaprakash. S <i>Chetan Kumar S,Tarihal Nandeesh P, Naveen M Vineet K Gokhale, Sujeeth</i>	Mechanical 2017
42.	Apparatus for Faculty Performance Management System in Private Business Management Educational Institutions E-2/1425/2017-CHE and Application No. 201741018088 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. G. Lakshminarayana	Management 2017
43.	Design, System and method of Jolt Anti-Lock Braking System E-2/1426/2017-CHE and Application No. 201741018089 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	<i>Rohith R Nair, AkhilKalibhat, Ravi Rathore, Silas Simon Isacc</i>	Automobile 2017
44.	A Sensor Ignition System for Two wheelers E-2/99/2017-KOL and Application No. 201731012865 Dt.11.04.2017	India	<i>Indranil Das</i>	EEE Automobile 2017
45.	Security Enhancement for Four Wheel Automotive System using light Stack Position E-2/1451/2017-CHE and Application No. 201741018336 Dt.25.05.2017	India 48/2018 Dt. 30/11/2018	Dr. R. Elumalai Duney. D Sam	EEE Automobile 2017
46.	Design and Installation of Economical Pico-Hydro Electrification Using Green Energy E-2/1664/2017-CHE and Application No. 2017410121383 Dt.19.06.2017	India	S. Inbasakaran Lithesh . J Karthik. M	EEE 2017
47.	Green Energy-Hybrid Renewable Power Generation (Solar-Wind) for Irrigation E-2/1663/2017-CHE and Application No. 2017410121382 Dt.19.06.2017	India	Lithesh . J S. Inbasakaran Prasanna. R	EEE 2017
48.	A Power Bank Apparatus E-2/225/2017-KOL and Application No. 201731033885 Dt.25.09.2017	India	<i>Indranil Das</i>	EEE 2017
49.	Sensorized Two USB Port Solar Charging System E-2/224/2017-KOL and Application No. 201731033884 Dt.25.09.2017	India	<i>Indranil Das</i>	EEE 2017
50.	System and Method for Reliability Assessment of Web Browsers E-2/1504/2017-CHE and Application No. 201741018883 Dt.30.05.2017	India No. 49/2018 Dt. 07/12/2018	Dr. R. Chinnaiyan Dr. V. Ilango	MCA 2017
51.	A Novel Method and apparatus for Reliability Estimation of Component Based Software Systems E-2/1505/2017-CHE and Application No. 201741018884 Dt.30.05.2017	India No. 49/2018 Dt. 07/12/2018	Dr. R. Chinnaiyan Dr. V. Ilango	MCA 2017
52.	Novel Arrangement of Apparatus, System and Method for Reaching out to Remote Rural Areas Through Voice-based Real-Time Medical Diagnostic System (RTMDS) E-2/2716/2017-CHE and Application No. 201741032333 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	<i>Ms. Neha Yalamanchi Mr. Sachin Mr. Animesh Sharma</i>	BCA/NHC 2017
53.	Novel Apparatus, System and Method for a voice based tool to have better communication E-2/2721/2017-CHE and Application No. 201741032337 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	<i>Mr. Denzel Abraham George Mr. Bhavan.A, Mr. Nikhil Riyaz, Mr. Hariraj. R, Mr. Vishwa Gopal, Mr. Sanketh S Huddar Mr. SrishaVittal, MCA., Mr. Sunil S. K, MCA., Mr. Mansoor Ahmed. F, MCA.,</i>	ECE CSE MCA R&D 2017
54.	Novel Arrangement of Apparatus, System and Method using Artificial Intelligence (AI) techniques facilitates the fruitful interaction with uneducated users E-2/2719/2017-CHE and Application No. 201741032336 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	<i>Mr. Bhavan.A, Mr. Denzel Abraham George, Mr. Nikhil Riyaz, Mr. Hariraj. R, Mr. Vishwa Gopal, Mr. Sanketh S Huddar Mr. SrishaVittal, MCA., Mr. Sunil S. K, MCA., Mr. Mansoor Ahmed. F, MCA.,</i>	CSE ECE MCA R&D 2017
55.	Novel Arrangement of Apparatus, System and Method for creating an efficient cloud platform where small and large enterprises can exchange resources and work together for	India No. 11/2019	<i>Mr. Hariraj. R, Mr. Bhavan.A Mr. Nikhil Riyaz, Mr. Denzel Abraham George, Mr. Vishwa</i>	ECE CSE

	mutual benefits E-2/2718/2017-CHE and Application No. 201741032335 Dt.13.09.2017	Dt. 15/03/2019	Gopal, Mr. Sanketh S Huddar Mr. SrishaVittal, MCA., Mr. Sunil S. K, MCA., Mr. Mansoor Ahmed. F,MCA.,	MCA R&D 2017
56.	Novel Arrangement of Apparatus, System and Method for creating an efficient cloud platform where all stakeholders of agricultural industry E-2/2717/2017-CHE and Application No. 201741032334 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Mr. Mansoor Ahmed. F,MCA., Mr. Sunil S. K, MCA., Mr. Bhavan.A, Mr. Denzel Abraham George, Mr. Nikhil Riyaz, Mr. Hariraj. R, Mr. Vishwa Gopal, Mr. Sanketh S Huddar Mr. SrishaVittal, MCA.,	MCA ECE CSE R&D 2017
57.	Novel Arrangement of Apparatus, System and Method for evolving the Raja's Winning Basketball Pentagon Model E-2/2707/2017-CHE and Application No. 201741032324 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. KanapathyGopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
58.	Novel Method of Carbon Dioxide Sequestration from Exhaust Using Zeolites E-2/2726/2017-CHE and Application No. 201741032344 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha, Dr. M S Ganesha Prasad, Manjesh B C, RaghuramMacharaja, Mohith Vijay, Navdeep S, Rohit Srinivasan S, CharanNallode	Mechanical 2017
59.	Design of CNC Based Maintenance and Safety System for High Rise Buildings E-2/2725/2017-CHE and Application No. 201741032343 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Rakesh C, Baldev Raj C Aakash Murthy, Anwin TV Joseph, Jerry Sabore	Mechanical 2017
60.	Development of Three Wheel Handicapped Steering Propulsion Cycle E-2/2729/2017-CHE and Application No. 201741032347 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Srinath M.K, Mahesh S Praveen Kumar H.M, Satish.M	Mechanical 2017
61.	GSM Controlled Multi-Purpose Agricultural Robot E-2/2731/2017-CHE and Application No. 201741032347 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha, Dr. M S Ganesha Prasad Shivaprakash S Mohammed Sabir Chitwadgi Nurul Islam, Mohan Sharma Sandeep Sharma	Mechanical 2017
62.	Fresnel Lens and Thermoelectric Module Aided Solar Desalination Unit E-2/2732/2017-CHE and Application No. 201741032350 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Rakesh C, CharanNallode Adhvaith M, AH.Akshay Krishna	Mechanical 2017
63.	Novel Ergonomic Industrial Seating Support E-2/2728/2017-CHE and Application No. 201741032346 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Puneeth H V, SachinPamadinni, N Sreevathasa CharanNallode	Mechanical 2017
64.	Design and Optimization of Lever Propelled All-Terrain Wheel Chair E-2/2724/2017-CHE and Application No. 201741032342 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Ronald Reagon, Abhash Singh, Anuraj Joshi, AbhinavAnand, CharanNallode	Mechanical 2017
65.	Automatic Drain Cleaning Machine E-2/2734/2017-CHE and Application No. 201741032350 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Ravikumar M, BrijKishor Yadav, Tariq Hussain Gaurishankar, Suresh V B	Mechanical 2017
66.	Flexible Fixture for Towing E-2/2730/2017-CHE and Application No. 201741032348 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Nagendra J, Parameshwar ChandanSah, Dipak Tiwari Keshav Raj	Mechanical 2017
67.	Pedal Powered Reciprocating Pump E-2/2704/2017-CHE and Application No. 201741032321 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Nagendra J, Bachu Ravi Tejaswar Reddy, Bharath N Likith S, Nagesh K M	Mechanical 2017
68.	Improved Lead Acid Battery	India	Dr. Manjunatha	Mechanical

	E-2/2727/2017-CHE and Application No. 201741032345 Dt.13.09.2017	No. 11/2019 Dt. 15/03/2019	Dr. M S Ganesha Prasad Bopanna, <i>Aghil Babu</i> <i>Jefferey Joseph Stephen</i> <i>Joemine Gerald Joshy</i> <i>BhanuprakashSairam</i>	2017
69.	Novel Arrangement of Apparatus, System and Method for Experiential Learning System (ELS) and Method for Smart Coaching Team Game (MSCTG) E-2/2715/2017-CHE and Application No. 201741032332 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
70.	Novel Arrangement of Apparatus, System and Method for Evolving Winning Trilogy of Team Game (WTTG) E-2/2712/2017-CHE and Application No. 201741032329 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
71.	Novel Arrangement of Apparatus, System and Method for evaluating the major factors to be considered for the Basketball Winning Strategy (BWS) E-2/2714/2017-CHE and Application No. 201741032331 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
72.	Novel Arrangement of Apparatus, System and Method for evolving the Research Tool with Methodology and the Sequence of Study (RTMSS) E-2/2713/2017-CHE and Application No. 201741032330 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
73.	Novel Arrangement of Apparatus, System and Method for identifying effective tools and techniques for the Improvement of Performance of an Individual Player/Team (IPIPT) E-2/2710/2017-CHE and Application No. 201741032327 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
74.	Novel Arrangement of Apparatus, System and Method for developing Process Approach to Coaching Basketball (PACB) E-2/2708/2017-CHE and Application No. 201741032325 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra Dr. S. Mohankumar	MBA Mechanical R&D 2017
75.	Novel Arrangement of Apparatus, System and Method for developing the Winning Trilogy and Winning Metrics (WTWM) E-2/2703/2017-CHE and Application No. 201741032320 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra Dr. S. Mohankumar	MBA Mechanical R&D 2017
76.	Novel Arrangement of Apparatus, System and Method for developing the Raja's Taxonomy of Winning Strategies (RTWS) E-2/2721/2017-CHE and Application No. 201741032338 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra Dr. S. Mohankumar	MBA Mechanical R&D 2017
77.	Novel Arrangement of Apparatus, System and Method for evolving Winning Competency Model (WCM) E-2/2705/2017-CHE and Application No. 201741032322 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
78.	Novel Arrangement of Apparatus, System and Method for evolving Model to Identify the Parameters Influencing the Winning/Loosing (MIPIW/L) of any team game E-2/2706/2017-CHE and Application No. 201741032323 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
79.	Novel Arrangement of Apparatus, System and Method for ensuring Expected Cultural Change for Better Team Performance (ECCBTP) E-2/2702/2017-CHE and Application No. 201741032319 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
80.	Novel Arrangement of Apparatus, System and Method for Analyzing Cause and Effect Diagram for Better Performance during the Play (CAEDBP) E-2/2701/2017-CHE and Application No. 201741032318 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Raja Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	MBA Mechanical R&D 2017
81.	Novel Arrangement of Apparatus, System and Method for	India	Dr. Kanapathy Raja	MBA

	Analyzing Cause and Effect Diagram for Winning Basketball (CAEDWB) E-2/2709/2017-CHE and Application No. 201741032326 Dt.13.09.2017	No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha Dr. SheelanMisra	Mechanical R&D 2017
82.	Two In One Wheel Spanner Cum Jack Handle E-2/2924/2017-CHE and Application No. 201741034915 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Mechanical R&D 2017
83.	Novel Method and System to Increase the Berths and Seating Capacity of Rail Coaches E-2/2919/2017-CHE and Application No. 201741034910 Dt.03.10.2017	India	Dr. WyyuruAmarnath Dr. K. Gopalakrishnan Dr. Manjunatha	Automobile R&D 2017
84.	Novel Method and System to Increase the Safety of Rail Coaches E-2/2917/2017-CHE and Application No. 201741034907 Dt.03.10.2017	India	Dr. WyyuruAmarnath Dr. K. Gopalakrishnan Dr. Manjunatha	Automobile R&D 2017
85.	Novel Method and System to Increase the Internal Space of Rail Coaches with Single Channel Multi Purpose Window Sliding E-2/2909/2017-CHE and Application No. 201741034899 Dt.03.10.2017	India	Dr. WyyuruAmarnath Dr. K. Gopalakrishnan Dr. Manjunatha	Automobile R&D 2017
86.	Novel Method and System to Improve the Passenger Comforts in Chair Car of Rail Coach E-2/2916/2017-CHE and Application No. 201741034906 Dt.03.10.2017	India	Dr. WyyuruAmarnath Dr. K. Gopalakrishnan Dr. Manjunatha	Automobile R&D 2017
87.	Straight Drive Signal Indicator' for Automobiles E-2/2934/2017-CHE and Application No. 201741034936 Dt.03.10.2017	India	Dr. N. Ramani Dr. K. Goplakarishnan Dr. Manjunatha	Auto &Mech R&D 2017
88.	Method and System for Synthesizing Green Nanosilver as Reinforcing Eco-Friendly Additive to Epoxy Coating for Augmented Anticorrosive and Antimicrobial Behaviour E-2/2937/2017-CHE and Application No. 201741034939 Dt.03.10.2017	India	Dr. ManjumeenaRajarathinam	Biotech R&D 2017
89.	Method and System for Synthesizing "Green" Biocompatible Organic-Inorganic Hybrid Electrospun Nanofibers for Potential Biomedical Applications E-2/2938/2017-CHE and Application No. 201741034940 Dt.03.10.2017	India	Dr. ManjumeenaRajarathinam	Biotech R&D 2017
90.	Novel Method and System of Graphene UCAP Powered Insulin Pump E-2/2930/2017-CHE and Application No. 201741034932 Dt.03.10.2017	India	Dr. Nisha K. C. R. Prof. Anitha. A Prof. Dharmambal. V Prof. M. Karthika	ECE EEE 2017
91.	System and Method for Intelligent Data Analytics E-2/2931/2017-CHE and Application No. 201741034933 Dt.03.10.2017	India	Dr. V. Ilango Dr. R. Chinnaiyan	MCA 2017
92.	A Novel System and Framework for Time Series Analysis E-2/2939/2017-CHE and Application No. 201741034941 Dt.03.10.2017	India	Dr. V. Ilango Dr. R. Chinnaiyan	MCA 2017
93.	Firefighting with Low Cost CO ₂ Canister E-2/2928/2017-CHE and Application No. 201741034919 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Mechanical R&D 2017
94.	Improved Windscreen Wiper E-2/2920/2017-CHE and Application No. 201741034911 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Auto &Mech R&D 2017
95.	Replacing External Jack in Vehicles with Built-in Pillar Jacks E-2/2915/2017-CHE and Application No. 201741034905 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Auto &Mech R&D 2017
96.	LED Panel to Replace Individual Tail Lamps in Automobiles E-2/2927/2017-CHE and Application No. 201741034918 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Auto &Mech R&D 2017
97.	Refrigerator with Warmer Compartment E-2/2926/2017-CHE and Application No. 201741034917 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Auto &Mech R&D 2017
98.	New Column Box that will be Suitable for Reinforced Walls	India	Dr. WyyuruAmarnath	Civil &Mech

	Integrated with Columns E-2/2925/2017-CHE and Application No. 201741034916 Dt.03.10.2017		WyyuruKarthick Dr. Manjunatha	R&D 2017
99.	Low Cost Precast Sections for Rural Toilets E-2/2923/2017-CHE and Application No. 201741034914 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Civil R&D 2017
100.	Bubble Jet Bottle Cap Opener E-2/2922/2017-CHE and Application No. 201741034913 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Mechanical R&D 2017
101.	A Collapsible Bubble Jet Bottle E-2/2914/2017-CHE and Application No. 201741034904 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Mechanical R&D 2017
102.	Multiple Choices Pillow with Adjustable Height E-2/2932/2017-CHE and Application No. 201741034934 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Mechanical R&D 2017
103.	A Hand Tool with Detachable Gripping/Serrated Jaw E-2/2918/2017-CHE and Application No. 201741034908 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Mechanical R&D 2017
104.	Novel Fool Proof Flow Indicator with No Rotating Parts such as Blades or Vanes E-2/2921/2017-CHE and Application No. 201741034912 Dt.03.10.2017	India	Dr. WyyuruAmarnath WyyuruKarthick Dr. Manjunatha	Mechanical R&D 2017
105.	Novel Arrangement of Apparatus, System and Method to Provide Convenient E-Learning Platform to Reduce Student Dropout Rates and Enhance Job Opportunities E-2/2935/2017-CHE and Application No. 201741034937 Dt.03.10.2017	India	Dr. C.S.R. Prashanth <i>Mr. Sanketh S Huddar</i> <i>Mr. Vishwa Gopal, Mr. Hariraj</i> <i>Mr. Bhavan.A, Mr. Nikhil Riyaz</i> <i>Mr. Denzel Abraham George</i> <i>Mr. SrishaVittal, MCA.,</i> <i>Mr. Sunil S. K, MCA.,</i> <i>Mr. Mansoor Ahmed. F, MCA.,</i>	CSE ECE MCA R&D 2017
106.	Novel Arrangement of Apparatus, System and Method for creating an efficient cloud platform where an Uneducated Villagers can Serve as Tourist Guides or Service Providers to Tourists E-2/2936/2017-CHE and Application No. 201741034938 Dt.03.10.2017	India	Dr. C.S.R. Prashanth <i>Mr. Vishwa Gopal, Mr. Hariraj</i> <i>Mr. Bhavan.A, Mr. Nikhil Riyaz</i> <i>Mr. Denzel Abraham George</i> <i>Mr. Sanketh S Huddar</i> <i>Mr. SrishaVittal, MCA.,</i> <i>Mr. Sunil S. K, MCA.,</i> <i>Mr. Mansoor Ahmed. F, MCA.,</i>	CSE ECE MCA R&D 2017
107.	Novel Arrangement of Apparatus, System and Method for creating an efficient cloud platform to help the Uneducated Farmers and Fishermen Regarding the Weather and Water Source Related Information E-2/2933/2017-CHE and Application No. 201741034935 Dt.03.10.2017	India	Dr. C.S.R. Prashanth <i>Mr. SrishaVittal, MCA.,</i> <i>Mr. Vishwa Gopal, Mr. Hariraj</i> <i>Mr. Bhavan.A, Mr. Nikhil Riyaz</i> <i>Mr. Denzel Abraham George</i> <i>Mr. Sanketh S Huddar</i> <i>Mr. Sunil S. K, MCA.,</i> <i>Mr. Mansoor Ahmed. F, MCA.,</i>	CSE ECE MCA R&D 2017
108.	Novel Arrangement of Apparatus, System and Method of Process Approach Learning Model (PALM) for Overall Development of Students at Engineering Educational Institutions (EEl)s Using an Efficient Cloud Platform E-2/2910/2017-CHE and Application No. 201741034900 Dt.03.10.2017	India	Dr. K. Gopalakrishnan Dr. R. Manjumeena	Mechanical Biotech R&D 2017
109.	Novel Arrangement of Apparatus, System and Method of Institutional Transformation for Excellence in Corporate Education (ITECE) Model for Engineering Educational Institutions (EEl)s Using an Efficient Cloud Platform E-2/2911/2017-CHE and Application No. 201741034901 Dt.03.10.2017	India	Dr. K. Gopalakrishnan Dr. R. Manjumeena	Mechanical Biotech R&D 2017
110.	Novel Arrangement of Apparatus, System and Method of Learning Network Growth Model for Engineering Educational Institutions (EEl)s Using an Efficient Cloud Platform E-2/2912/2017-CHE and Application No. 201741034902 Dt.03.10.2017	India	Dr. K. Gopalakrishnan Dr. R. Manjumeena	Mechanical Biotech R&D 2017
111.	Novel Arrangement of Apparatus, System and Method for	India	Dr. K. Gopalakrishnan	Mechanical

	Enhancing the Competitiveness of Institute-Industry-Collaboration (IIC) at Engineering Educational Institutions (EEIs) Using an Efficient Cloud Platform E-2/2913/2017-CHE and Application No. 201741034903 Dt.03.10.2017		Dr. R. Manjumeena	Biotech R&D 2017
112.	Motion Direction Indicator for an Automobile" to communicate unequivocally to the following Vehicles 'Overtake me on the Right or Left E-2/3494/2017-CHE and Application No. 201741041142 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. N. Ramani Dr. K. Goplakarishnan Dr. Manjunatha	Automobile R&D 2017
113.	Novel System and Method of Rediscovered Piston (X-Beam Piston) E-2/3503/2017-CHE and Application No. 201741041151 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	<i>Mr. Rishav Chhabra</i>	Automobile R&D 2017
114.	Novel System and Method of DNA based Computing Model for Solving the Star Coloring Problem E-2/3496/2017-CHE and Application No. 201741041144 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. Kavitha. J	BSH R&D 2017
115.	Novel System and Method of DNA based Molecular Computing Model (MCM) to Solve the Independent Dominating Set Problem (IDSP) E-2/3495/2017-CHE and Application No. 201741041143 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. Kavitha. J	BSH R&D 2017
116.	Novel System, Arrangement of Apparatus and Method for Development of Career Design Model to Enhance Happiness Index of an Individual (CDM2EHII) E-2/3499/2017-CHE and Application No. 201741041147 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. Kanapathy Gopalakrishnan	R&D 2017
117.	Novel System, Arrangement of Apparatus, Method and Metrics for Evaluating the R&D Performance of an Individual Continuously at Higher Educational Institutions (HEIs) E-2/3501/2017-CHE and Application No. 201741041149 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. Kanapathy Gopalakrishnan Dr. L.V. Muralikrishna Reddy	Mechanical R&D 2017
118.	Novel System, Arrangement of Apparatus, Method and Metrics for Evaluating the Progress of Academic Research (PhD/MS Thesis) Work as per the Calendar of an Individual Research Scholar, Continuously at Higher Educational Institutions (HEIs) E-2/3497/2017-CHE and Application No. 201741041145 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. Kanapathy Gopalakrishnan Dr. L.V. Muralikrishna Reddy	Mechanical R&D 2017
119.	Construction of Estimated Level Based Balanced Binary Search Tree (BBST) E-2/3507/2017-CHE and Application No. 201741041155 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. V. Ilango <i>Mr. Abhishek Kumar</i>	MCA 2017
120.	Estimation of Optimal Path in Wired Networks Based on Adjacency List E-2/3509/2017-CHE and Application No. 201741041157 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. V. Ilango <i>Mr. Abhishek Kumar</i>	MCA 2017
121.	Spherical Image Encryption (SPIE) for Secured Image Storage E-2/3505/2017-CHE and Application No. 201741041153 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. V. Ilango <i>Mr. Abhishek Kumar</i>	MCA 2017
122.	Model for Detecting Sensitive Data Leakage in Private to Public Network Systems E-2/3528/2017-CHE and Application No. 201741041189 Dt.23.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. S. Mohan Kumar Dr. JitendranathMungara	ISE 2017
123.	Novel System and Method for Power Saving Using Pulse Width Modulation Technology (PMT) E-2/3504/2017-CHE and Application No. 201741041152 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Ms. A. Anitha Prof. Sathish Kumar	EEE 2017
124.	Novel System and Method for Smart Optimization of Demand Side Management (DSM) for Productivity E-2/3512/2017-CHE and Application No. 201741041160 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha	EEE 2017

125.	Novel System and Method of Remote Power Charging with Mechanization Efficiently by Supercapacitor E-2/3498/2017-CHE and Application No. 201741041146 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Prof. Sathish Kumar Ms. A. Anitha	EEE 2017
126.	Novel System and Method of Autonomous Controls for the Smart Operation of a Metro Train E-2/3500/2017-CHE and Application No. 201741041148 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha	EEE 2017
127.	Novel System and Method of Photovoltaic Assortment Based Power Generation System Using Nine Level Inverter E-2/3502/2017-CHE and Application No. 201741041150 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Mr. Muniprakash Mr. Mohan B. S	EEE 2017
128.	Novel System and Method of Capricious Electronic Speed Governor E-2/3513/2017-CHE and Application No. 201741041161 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Priyanka S. Kole Muniprakash	EEE 2017
129.	Novel System and Method for Smart Detection of Electricity Theft in Modern Distribution Network E-2/3508/2017-CHE and Application No. 201741041156 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Prof. Mohan B. S Ms. KavithaChennareddy	EEE 2017
130.	Novel System and Method for Grid Unified Solar Based Irrigation System E-2/3510/2017-CHE and Application No. 201741041158 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Prof. Sunil. S K Mr. Vinod Kumar	EEE 2017
131.	Novel System and Method for Solar Based Voltage Source Inverter (VSI) Control Brushless DC (BLDC) Motor for Pump Applications E-2/3506/2017-CHE and Application No. 201741041154 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Prof. J. Joshua Daniel Raj Mr. Vinod Kumar	EEE 2017
132.	Novel System and Method for Alleviation of Power Quality Snags Using Integrated Power Quality Conditioner E-2/3511/2017-CHE and Application No. 201741041159 Dt.17.11.2017	India No. 21/2019 Dt. 24/05/2019	Dr. R. Elumalai Dr. S. Sujitha Prof. J. Joshua Daniel Raj Ms. Karthika. M	EEE 2017
133.	Novel Arrangement of Apparatus, System and Method as an integrated Farmer Information System (FIS) E-2/3626/2017-CHE and Application No. 201741041987 Dt.23.11.2017	India	Mr. Sunil S. K, MCA., Mr. Bhavan.A, Mr. Denzel Abraham George , Mr. Nikhil Riyaz, Mr. Hariraj Mr. Vishwa Gopal, Mr. Sanketh S Huddar, Mr. SrishaVittal, MCA.,MansoorAhmed.F,MCA.,	MCA CSE ECE R&D 2017
134.	Novel Arrangement of Apparatus, System and Method for Generation of Static Charge from Electroionising Radiation E-2/3627/2017-CHE and Application No. 201741041988 Dt.23.11.2017	India	Mr. Sunil S. K, MCA., Mr. Mansoor Ahmed. F, MCA. Mr. SrishaVittal, MCA.,	MCA R&D 2017
135.	Novel System and Method of Expanding Self-powered Multi-purpose Auditorium on Low Bed Trailer E-2/3622/2017-CHE and Application No. 201741041983 Dt.23.11.2017	India	Dr. K. Goplakarishnan Mr. Vishwa. G Dr. L. V. Muralikrishna Reddy	Mechanical Auto, CSE R&D 2017
136.	Novel System and Method of Multi-purpose Loader on Wheels E-2/3629/2017-CHE and Application No. 201741041990 Dt.23.11.2017	India	Dr. Kanapathy Gopalakrishnan Dr. L.V. Muralikrishna Reddy	Mechanical R&D 2017
137.	Novel System and Method of Multi-purpose Elevator on Wheels E-2/3631/2017-CHE and Application No. 201741041992 Dt.23.11.2017	India	Dr. Kanapathy Gopalakrishnan Dr. L.V. Muralikrishna Reddy	Mechanical R&D 2017
138.	Novel System and Method for IoT Based Herb Detection System E-2/3625/2017-CHE and Application No. 201741041986 Dt.23.11.2017	India	Prof. Dharmambal. V Dr. Nisha. K. C. R Ms. Bhavana. C Mr. Anirudhdha. C	ECE 2017
139.	Novel System and Method of Powering Bulb Using Piezo-Sensor and Power Management System with Zero Energy E-2/3624/2017-CHE and Application No. 201741041985 Dt.23.11.2017	India	Prof. Dharmambal. V Dr. Nisha. K. C. R Ms. Bhavana. C Mr. Anirudhdha. C	ECE 2017
140.	Novel System and Method of Self-Breathable Improved	India	Dr. K. Goplakarishnan	Mechanical

	Anti-Snoring Strap E-2/3623/2017-CHE and Application No. 201741041984 Dt.23.11.2017		Mr. Vishwa. G Dr. L. V. Muralikrishna Reddy	CSE R&D 2017
141.	Novel System, Method and Arrangement of Improved Anti-Snoring Pillow E-2/3630/2017-CHE and Application No. 201741041991 Dt.23.11.2017	India	Dr. K. Goplakarishnan Dr. M.S. Ganesha Prasad Mr. Vishwa. G Dr. L. V. Muralikrishna Reddy	Mechanical CSE R&D 2017
142.	Novel System and SrinivasaGovindaiah (SG) Algorithmic Method to any Harmonic Analysis Problem up to the First Harmonic Coefficients Using Built-In Functions of CASIO fx-991MS Scientific Calculator E-2/449/2018-CHE and Application No. 201841005150 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Dr. SrinivasaGovindaiah	Maths 2018
143.	Novel System, Design and Method of Hybrid Solar Water Heating System E-2/450/2018-CHE and Application No. 201841005151 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Mr. Nagabhushana. N	Mechanical 2018
144.	Novel System and Method of Fabrication of Small Scale Sugarcane Harvesting Machine E-2/451/2018-CHE and Application No. 201841005152 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Dr. M S Ganesha Prasad Mr. Ravi Kumar M Mr. Kishore K Reddy Mr. Narayana Swamy Mr. Sagar M H Mr. Siddaling	Mechanical Auto 2018
145.	Novel System, Design and Method of Vertical Stack Exhaust System to Control Direct Emission E-2/452/2018-CHE and Application No. 201841005153 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Mr. Rakesh C Mr. Abhijith N Mr. Harshavardhan V S Mr. Nagesha N Mr. Sharanakumar	Mechanical Auto 2018
146.	Novel System, Design and Method of Design and Development of Power Generating Revolving Door E-2/453/2018-CHE and Application No. 201841005154 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Mr. Ronald Reagon R Mr. VenkatSujith Krishna Mr. Reddy Mohan Posa Mr. Vinaya Prasad M.V Mr. V.Avinash	Mechanical EEE 2018
147.	Novel System, Design and Method of Design and Development of Smart Wheel to Two Wheeler for Physically Challenged. E-2/454/2018-CHE and Application No. 201841005155 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Mr. Ravi Kumar M Mr. Tejas.K.M Mr. Sharif.M.Nadaf Mr. Chowdeshwar.B Mr. Pramoda.G.K	Mechanical Auto 2018
148.	Novel System, Design and Method of Mechanical Characterization of Natural Fiber Reinforced Polymeric Composites With and Without Filler E-2/455/2018-CHE and Application No. 201841005156 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Mr. Vijay B.R. Mr. BharathBushman Reddy N Mr. Suraj S Hegde Mr. Pratish R Reddy Mr. Akhil A P	Mechanical Auto 2018
149.	Novel System, Design and Method of Water Injection for Two Wheeler Engines. E-2/456/2018-CHE and Application No. 201841005157 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Dr. M S Ganesha Prasad Mr. Suhaas.P Mr. Akshay.K.S Mr. RijinPavithran Mr. ChinnaThambi.M	Mechanical Auto 2018
150.	Novel System, Design and Method of Design and Development of Gearless Power Transmission Using Scotch Yoke Mechanism. E-2/457/2018-CHE and Application No. 201841005158 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Dr. M S Ganesha Prasad Mr. Srinath M K Mr. Manoj R Mr. Kantharaj N Mr. Praveen Kumar A Mr. Karhik L	Mechanical Auto 2018
151.	Novel System, Design and Method of Design and Development of Bladeless Vertical Wind Mill E-2/458/2018-CHE and Application No. 201841005159 Dt.12.02.2018	India No. 33/2019 Dt.16/08/2019	Dr. M S Ganesha Prasad Mr. Ravi Kumar M Mr. Mandeep Singh Mr. Aditya Kumar Gupta Mr. Sumit Kumar Mr. Amir Sohil	Mechanical Auto 2018
152.	Novel System, Method and Design and Fabrication of Manual and Automated System for Hydroponic Fodder E-2/1141/2018-CHE and Application No. 201841013785 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Mr. Ravi Kumar M Mr. Aneesh Gopal Mr. Krishna Maruthi Mr. Naga Chowdary Mr. Umakanth B S	Mechanical Auto 2018

153.	Novel System, Method of Design and Development of Eco-Friendly Refrigeration System. E-2/1142/2018-CHE and Application No. 201841013786 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Mr. Ronald Reagon R Mr. Karthigayan R M Mr. Mahiboobu Mr. ManjunathYelde Mr. Manoj	Mechanical Auto 2018
154.	A Study on Power Generation from Fluid Flowing Through Pipes. E-2/1143/2018-CHE and Application No. 201841013787 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Mr. Rakesh C Mr. Abhishek V Reddy Mr. Anuj M Thomas, Mr. Arun R Mr. Hafiz Kassim	Mechanical Auto 2018
155.	Mosquito Repellent Soap (MRS) - a novel formulation using N, N-Diethylbenzamide DEBA – In the forms of Detergent soap (MRS-D), Bath soap (MRS-B), Liquid soap (MRS-L) and Paper soap (MRS-P). E-2/1144/2018-CHE and Application No. 201841013788 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Dr.H.AnandaVardhan Mr. Pradeep S Mr. SinchanHait Mr. Vishal K. Mr. Shiladitya Banerjee Mr. Mohammed Mubassir	Biotechnology 2018
156.	Novel System, Method and Design of Smart Helmet for Air Quality and Hazardous Event Detection using Smart Band System E-2/1145/2018-CHE and Application No. 201841013789 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Dr. S Mohan Kumar Mrs. J. Karthiyayini Dr. JitendranathMungara	ISE 2018
157.	Novel System, Method and Design of Emergency Rescue System with IOT And Wireless Sensors E-2/1146/2018-CHE and Application No. 201841013790 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Mrs. J. Karthiyayini Dr. S Mohan Kumar Dr. JitendranathMungara	ISE 2018
158.	Novel System, Method and Design of Mathematical Modeling of Controlled Drug Delivery System E-2/1147/2018-CHE and Application No. 201841013791 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Mr. Sudhir Patel	Maths 2018
159.	Novel System, Method and Design of Solar Panel Deployment Mechanism for Cold Storage On Wheels E-2/1148/2018-CHE and Application No. 201841013792 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Dr. K. Gopalakrishnan Dr. L.V. Muralikrishna Reddy Mr. Anil Nakka Mr. Vishwa. G	R&D CSE 2018
160.	Novel System and Method of Rishav Chhabra-Intelligent Arc Valve (RC-i Arc Valve) E-2/1149/2018-CHE and Application No. 201841013793 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Mr. Rishav Chhabra	Auto 2018
161.	Novel System, Method and Design of IoT Based Real Time- Remote Healthcare Monitoring System E-2/1150/2018-CHE and Application No. 201841013794 Dt 11.04.2018	India 42/2019 Dt 18/10/2019	Dr. S Mohan Kumar Mrs. J. Karthiyayini Dr. JitendranathMungara	ISE 2018
162.	Novel System, Method and Design of Swarm Detection and Beehive Monitoring System Using Auditory and Microclimatic Analysis E-2/2458/2018-CHE and Application No. 201841030647 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Nirmal Anand V Bharath Raj, Ullas M S S P Rahul Kumar Sachin B S Ashutosh Srivastava	ECE 2018
163.	Novel System, Method and Design of Lubrication System for 2 Stroke Petrol Engine E-2/2459/2018-CHE and Application No. 201841030648 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Mr. Narasimha. R. V	Auto 2018
164.	Novel System, Method and Design of Rishav Chhabra-Torque Piston (RC-T Piston) E-2/2460/2018-CHE and Application No. 201841030649 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Mr. Rishav Chhabra	Auto 2018
165.	Novel System, Method and Design of N-2 PISTON E-2/2461/2018-CHE and Application No. 201841030650 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Mr. Narasimha. R. V	Auto 2018
166.	Novel System, Method and Design of N-2 CHARGER E-2/2462/2018-CHE and Application No. 201841030651 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Mr. Narasimha. R. V	Auto 2018
167.	Novel System, Method and Design of Compressed Air Generation from Suspension of Automobiles for Pneumatic Applications E-2/2463/2018-CHE and Application No. 201841030652 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Dr. M S Ganesha Prasad Ravi Kumar M	Mechanical Auto 2018

168.	Novel System, Method and Design and Optimization of Blades for Solar Grass Cutter E-2/2464/2018-CHE and Application No. 201841030653 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Rakesh C Aditya Pradhan Sumit Kumar Ansuman Dalai	Mechanical Auto 2018
169.	Novel System, Method and Design and Development of Magnetic Elevator. E-2/2465/2018-CHE and Application No. 201841030654 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Ravi Kumar Md. AsadullaShariff Akshay Kumar Rathor AbhayPratap Singh	Mechanical Auto 2018
170.	Novel System, Method and Design of Electronic Fuel Injection System (EFIS) for N-2 Stroke Engine E-2/2466/2018-CHE and Application No. 201841030655 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Mr. Narasimha. R. V	Auto 2018
171.	Novel System, Method and Design of Multifunctional Smart Construction Equipment E-2/2467/2018-CHE and Application No. 201841030656 Dt 16.08.2018	India 08/2020 Dt 21/02/2020	Mr. Rijan Kafle	Mechanical 2018
172.	Novel System, Design and Methods of Circular Stack Can Satellite (CSCS) E-2/3624/2019-CHE and Application No.201941046496 Dt 15/11/2019	India	Denzel Abraham George Tarun Sai Reddy, Shyam S Hariraj Rajkumar, Sainath Vamshi, Sanketh S Huddar Nikhil Riyaz, Athira Ajayakumar Dr. Nisha K C R Ashwin Shankar Reddy Vishwa Gopal, Sriram Gupta K Bhavana Savanth, Jaiteg Singh Joshua Tom Jaccob Dr. Mohankumar. S	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
173.	Novel System, Design and Methods of Compact CanSat: Satellite in a CAN E-2/3625/2019-CHE and Application No.201941046497 Dt 15/11/2019	India	Hariraj Rajkumar, Sainath G V Sanketh S H, Nikhil R Athira A K, Dr. Nisha K C R Denzel A G, Tarun S T Shyam S, Ashwin S R Vishwa Gopal, Sriram G K Bhavana Savanth, Jaiteg Singh Joshua T J, Dr. Mohankumar. S	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
174.	Novel System, Design and Methods of Vertical Stack A-Nano CanSat (VSANCS) E-2/3626/2019-CHE and Application No.201941046498 Dt 15/11/2019	India	Ashwin Shankar Reddy Hariraj Rajkumar, Vishwa Gopal, Dr. Sudha J Dr. Sujitha S, Sriram Gupta K Sainath Vamshi, Nikhil Riyaz Athira Ajayakumar Sanketh S Huddar Denzel Abraham George Tarun Sai Reddy, Shyam S Bhavana Savanth, Jaiteg Singh Joshua Tom Jacob Mithun Venkat	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
175.	Novel System, Design and Methods of A-Nano Pocket CubeSat (ANPCS) E-2/3627/2019-CHE and Application No.201941046499 Dt 15/11/2019	India	Hariraj Rajkumar, Vishwa Gopal Dr. Sudha Joseph, Suganya M Dr. Kavitha Joseph Sainath Vamshi, Nikhil Riyaz Athira Ajayakumar Sanketh S Huddar Denzel Abraham George Bhavana Savanth, Jaiteg Singh Joshua Tom Jacob, Mithun Venkat, Ashwin Shankar Reddy	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
176.	Novel System, Design and Methods of Vertical Stack Rectangular Board CanSat (VSRBCS) E-2/3628/2019-CHE and Application No.201941046500 Dt 15/11/2019	India	Sainath Vamshi, Nikhil Riyaz Athira Ajayakumar, Dr. Sujitha S Dr. Sudha Joseph Denzel Abraham George Tarun Sai Reddy, Shyam S Hariraj Rajkumar Sanketh S Huddar Ashwin Shankar Reddy	ECE, CSE, ME, EEE, ISE and R&D Cell 2019

			Vishwa Gopal, Sriram Gupta K Bhavana Savanth, Jaiteg Singh Joshua Tom Jacob, Mithun Venkat	
177.	Novel System, Design and Methods of Compact Interchangeable Stack CanSat (CICS) E-2/3629/2019-CHE and Application No.201941046501 Dt 15/11/2019	India	Nikhil Riyaz, Athira Ajayakumar Dr. Sujitha S, Denzel Abraham George Tarun Sai Reddy, Shyam S Hariraj Rajkumar, Sainath Vamshi, Sanketh S Huddar Ashwin Shankar Reddy Vishwa Gopal, Sriram Gupta K Bhavana Savanth, Jaiteg Singh Joshua Tom Jacob, Mithun Venkat	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
178.	Novel System, Method and Design of Swing Arm Configuration with Double Degree of Freedom (SA-DDF) E-2/3630/2019-CHE and Application No.201941046502 Dt 15/11/2019	India	Mr. Naveen Raj. L	Auto 2019
179.	Novel System, Method and Approach "VISTHAP" to Ensure Complete Combustion of Fuel inside Engine E-2/3631/2019-CHE and Application No.201941046503 Dt 15/11/2019	India	Mr. Naveen Raj. L	Auto 2019
180.	Novel System, Method and Design of High Frequency Temperature Compensated Crystal Oscillator E-2/3632/2019-CHE and Application No.201941046504 Dt 15/11/2019	India	Dr. Sujitha. S	EEE 2019
181.	Novel System and Method of DNA Computing Towards the Solution of Minimum Vertex Cover Problem E-2/3633/2019-CHE and Application No.201941046505 Dt 15/11/2019	India	Dr. Kavitha J Mr. Vishwa Gopal	CSE & Maths 2019
182.	Novel System, Method And Design of a CPRINCE Automatic Drive Chain Adjustor and Wheel-Base Toggler E-2/3634/2019-CHE and Application No.201941046506 Dt 15/11/2019	India	Mr. MouneshNagalingappa Rampur Mr. Udaykumar.MJoli	Auto 2019
183.	Novel System, Method and Design of a Saddle Height and Inclination Adjustment Device Along With a Motorcycle E-2/3635/2019-CHE and Application No.201941046507 Dt 15/11/2019	India	Mr. MouneshNagalingappa Rampur	Auto 2019
184.	Novel System, Method and Design of a Saddle Elevation Adjustment Device for a Motorcycle E-2/3636/2019-CHE and Application No.201941046508 Dt 15/11/2019	India	Mr. MouneshNagalingappa Rampur	Auto 2019
185.	Novel System, Method and Design of a Multi Functional Rear Saddle System E-2/3637/2019-CHE and Application No.201941046509 Dt 15/11/2019	India	Mr. MouneshNagalingappa Rampur	Auto 2019
186.	Novel System, Method and Design of a Motorcycle Ascender Mechanism E-2/3638/2019-CHE and Application No.201941046510 Dt 15/11/2019	India	Mr. MouneshNagalingappa Rampur	Auto 2019
187.	Novel System, Method and Design of Paper Bags Making Machine E-2/3639/2019-CHE and Application No.201941046511 Dt 15/11/2019	India	Prof. Veeresh C, Varun U. Chebbi SoumyadipSaha Suresh Yadav, Rohit	Mechanical 2019
188.	Novel System, Method and Approach of Undithering based on Linear Filtering and Nonlinear Diffusion E-2/3640/2019-CHE and Application No.201941046512 Dt 15/11/2019	India	Dr. Asha. V	MCA 2019
189.	Novel System and Method of Relation Between Sub Arithmetic and Arithmetic Series E-2/3641/2019-CHE and Application No.201941046513 Dt 15/11/2019	India	Vishal Gupta	
190.	Novel System, Method And Design of a SAS-Variable	India	Asiya. F	Auto

	Tuning-Rear Suspension and Enhanced Comfort E-2/3642/2019-CHE and Application No.201941046514 Dt 15/11/2019		Sharan P.R Sadiq. H. Sipayi	2019
191.	Novel System and Method of BycEco-The Electric Bicycle E-2/3643/2019-CHE and Application No.201941046515 Dt 15/11/2019	India	Dr. Sanjeev Sharma Rahul BhimraoAher	ECE 2019
192.	Novel System, Design and Arrangement of 3U QubeSat (3UQS) E-2/3814/2019-CHE and Application No.201941048764 Dt 28/11/2019	India	Hariraj Rajkumar, Vishwa G, Dr. Sudha J, Dr. KavithaJ, Sainath V, Nikhil R, Athira A K, Sanketh S H, Denzel A George, Bhavana Savanth, Jaiteg Singh Joshua T J, Mithun Venkat Ashwin Shankar Reddy	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
193.	Novel System, Design and Arrangement of 2U QubeSat (2UQS) E-2/3815/2019-CHE and Application No.201941048765 Dt 28/11/2019	India	Nikhil R, Hariraj R, Vishwa G, Dr. Sudha J, Dr. Kavitha J, Sainath V, Athira A K, Sanketh S H, Denzel Abraham George Bhavana Savanth, Jaiteg Singh Joshua T J, Mithun Venkat Ashwin Shankar Reddy	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
194.	Novel System and Method of Dynamic Toll Charge System for TrafficManagement E-2/3816/2019-CHE and Application No.201941048766 Dt 28/11/2019	India	Ms.Mounica P, Dr.R. J.Anandhi Dr. S. Mohan Kumar Ms. Vandana, Ms. Swathi Ms. Merlin Mathew Ms. AishwaryaBalakrishnan Ms. Bikky Kumar Goit	ISE 2019
195.	Novel System, Method and Approach for Real-Time Dynamic Potholes AlertSystem (DPAS) for TwoWheelers Based on Sensor Devices and Android Based Application E-2/3817/2019-CHE and Application No.201941048767 Dt 28/11/2019	India	Dr. R. J. Anandhi Dr. S. Mohan Kumar Mrs. J. Karthyayini Mrs. RafegaBeham	ISE 2019
196.	Novel System, Design and Arrangement of 1U QubeSat (1UQS) E-2/3818/2019-CHE and Application No.201941048768 Dt 28/11/2019	India	Denzel Abraham George Hariraj R, Vishwa G, Dr. Sudha Joseph, Dr. Kavitha Joseph Sainath V, Nikhil R, Athira A K, Sanketh S H, Bhavana Savanth, Jaiteg Singh, Joshua Tom Jacob Mithun V, Ashwin S Reddy	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
197.	Novel System, Design and Making of Device Uses Neo Pixel Built-in Full Color Driving Lights Circular or Square PCB for TubeSat/CanSat/CubeSat E-2/3819/2019-CHE and Application No.201941048769 Dt 28/11/2019	India	Hariraj Rajkumar, Vishwa G, Dr. Sudha J, Dr. KavithaJ, Sainath V, Nikhil R, Athira A K, Sanketh S H, Denzel A George, Bhavana Savanth, Jaiteg Singh Joshua T J, Mithun Venkat Ashwin Shankar Reddy	ECE, CSE, ME, EEE, ISE and R&D Cell 2019
198.	Novel System, Method and Approach of Singular Value Decomposition (SVD)and Periodicity BasedCompression of Images of Structural Textures E-2/3820/2019-CHE and Application No.201941048770 Dt 28/11/2019	India	Dr. Asha. V	MCA 2019
199.	Novel System and Method of GRZMOT Mine E-2/3821/2019-CHE and Application No.201941048771 Dt 28/11/2019	India	Mohammed Ghassan Devashrutha S Naveen K M Dr. Sanjeev Sharma Naveen H	ECE 2019
200.	Novel System and Method for Automated Glass/Stainless Steel Tumbler Cleaner E-2/3822/2019-CHE and Application No.201941048772 Dt 28/11/2019	India	Gaurav Sharma Naimish Kumar Bareek Nikhil Prajapati	EEE 2019
201.	Novel System and Method of Design and Fabrication of Solar Dryer with Vapor Absorption Refrigeration E-2/3823/2019-CHE and Application No.201941048773 Dt 28/11/2019	India	Ronald Reagon R Dhanush H N Kaushik K N Maharaj S B Mani Kumar R	Mechanical Auto 2019

202.	Novel System, Method, Idea and Design of Selective Disinfectant Spray Pathway (SDSP) TEMP/E-1/16961/2020-CHE and Application No.202041015744 Dt 10/04/2020	India	Hariraj Rajkumar Durairaj Rajkumar	ECE R&D 2020
203.	Novel System, Method and Design of Ambu Bag Ventilator System (ABVS) Application No. 202041016881 Dt 20.04.2020	India	Nikhil Riyaz	ECE R&D 2020
204.	A Handkerchief To Fight Against Viral Infections and a Method of Fabricating the Handkerchief Application No. 202041017169 Dt 21/04/2020	India	Dr. M.S. Ganesha Prasad Sainath Vamshi	ME CSE 2020
205.	Novel System, Design and Methods of PocketQube Satellite (PQ Sat)	India	Hariraj Rajkumar	ECE R&D 2020
206.	The Remote Health Monitoring System with Wireless Sensor and IoT through Multivariate Medical Data M Application No. 201941044768 A Dt 05/11/2019	India 47/2019 Dt 22/11/2019	Dr. P. Mangayarkarasi et al (7) Filed by KLEF, Guntur, AP	ISE 2019
207.	Ensemble Multi-Stage System and Method to Predict Underwater Seismic Rated on Aquatic Behavior Application No. 202011009855 A Dt 07/03/2020	India 12/2020 Dt 20/03/2020	Dr. P. Mangayarkarasi et al (7) Filed by BPIT, New Delhi	ISE 2020
208.	Unmanned Aerial Vehicle (UAV) to Autonomously and Wirelessly Monitor Security Application No. 202041010349 A Dt 11/03/2020	India 11/2020 Dt 13/03/2020	Dr. K. Saravanan et al (7) Filed by PCT, Namakkal, TN	ISE 2020
209.	A System and Method for Automatic Street Lamp Lighting and Energy Saving Control Application No. 201941039625 A Dt 30/09/2019	India 42/2019 Dt 18/10/2019	Dr. B. Gunapriya et al (11) Filed by her with Others	EEE 2019