



**K.S.R COLLEGE OF ENGINEERING, TIRUCHENGODE – 637 215.**

**(Autonomous)**

**PATENTS FILED**

<b>List of sanctioned IPR / Patent</b>				
<b>Sl. No</b>	<b>Name of the Student(s) /Faculty</b>	<b>Name of the Invention</b>	<b>Patent Application Number</b>	<b>Patent or IPR Status</b>
<b>Automobile Engineering</b>				
1	Mr.M.SyedThasthagir	Blood Pressure Monitoring and Safety Assistance in Vehicles	E-2/3142/2015-CHE	Filed
2	P.Satheswaran	Motor cycle Helmet with Natural air cooling system	1977/CHE/2015	Filed
3	Mr.P.Jayakumar Dr.R.Venkatachalam	Side Wind Screen and Rear View MirrorWipers	E-2/11288/2013-CHE	Filed
4	Mr.T.Sureshkumar	Metallurgical properties of AL(2024)-TiB <sub>2</sub> In-situ composite	936/CHE/2014	Filed
<b>Civil Engineering</b>				
1	Dr.T.Palanisamy Mr.G.Dineshkumar	Basaltcrete Building Blocks	4959/CHE/2012 Dt.29.11.2012	Application Awaiting Examination
2	Dr.T.Palanisamy	Luffacrete Panels	5316/CHE/2013 Dt.19.11.2013	Application Awaiting Examination
3	Dr.T.Palanisamy Mr.N.Sudharsan	Glasscrete Building Blocks	5315/CHE/2013 Dt.19.11.2013	Application Awaiting Examination
4	Dr.V.Revathi Mr.R.Saravanakumar	Innovative Bottom Ash Geopolymer Concrete Blocks	1830/CHE/2015 Dt.07.04.2015	Application Awaiting Examination
5	Dr.T.Palanisamy Mr.N.Muralimohan	Hybrid Natural Coagulants	5635/CHE/2014 Dt.10.11.2014	Application Not Yet Published
6	Dr.T.Palanisamy Mr.V.Senthilkumar	Microbialcrete Composite	5292/CHE/2014 Dt.24.10.2014	Application Awaiting Examination
7	Dr.V.Revathi Mr.R.Gopi	Development of Self Compacting Self Curing Concrete With FlyashAggregate	3512/CHE/2015 Dt.09.07.2015	Application Awaiting Examination
8	Dr.V.Revathi Mr.K.S.Elango	Development of FAL-G Binder Pervious Concrete	3513/CHE/2015 Dt.09.07.2015	Application Awaiting

		for Parking Lots		Examination
9	Dr.T.Palanisamy Mrs.A.Preetha	Manufacturing process of pavement blocks via earth moist concrete	5383/CHE/2015 Dt.08/10/15	Application Not Yet Published
10	Dr.T.Palanisamy Mr.P.V.SrinathKarthick	Manufacturing process of Aluvera-crete	6112/CHE/2015 Dt.13/11/15	Application Not Yet Published
11	Dr.T.Palanisamy Mrs.K.Vidhya	Fabrication and testing methods of strain measuring instruments for brick masonry "SMIBM"	6113/CHE/2015 Dt.13/11/15	Application Not Yet Published
12	Dr.S.Senthilkumar Mr.P.Velumani	An Innovative Sludge Integrated Flyash Bricks	3437/CHE/2015 Dt.06.07.2015	Application Not Yet Published
13	Dr.A.Geethaselvarani Mr.P.Sivakumar	Identification of Suitable Artificial Recharge Sites Using Fuzzy Logic	3436/CHE/2015 Dt.06.07.2015	Application Awaiting Examination
14	Mr.S.Southamirajan Mr.S.Santhosh Mr.R.Babu Mr.K.Santhoshkumaar	Plywood Sandwich Panel With Steel Slag and Bitumen	4421/CHE/2015 Dt.24.08.2015	Application Not Yet Published
15	Mr.S.Southamirajan Mr.S.Santhosh Mr.R.Babu Mr.K.Santhoshkumaar	Bitumen Bound Sewer Storage Tank	4422/CHE/2015 Dt.24.08.2015	Application Not Yet Published
<b>Computer Science and Engineering</b>				
1	Mr. M.Somu Mr. C.Anand Mr. C.Thirumalaiselvan Mr. G.Karthick	Foot Rest for Indian Baby in Two Wheelers	E-2/2609/2015-CHE	Filed
2	Dr.P.Balamurugan Mrs. V.Sharmila	Integrated securing schemes for data gathering in Wireless Sensor Networks	E-2/2691/2015-CHE	Filed
<b>Electrical and Communication Engineering</b>				
1	Dr.P.S.Periasamy B.S.Sarath	Development of Fingerprint Biometric Attendance and Messaging System for the Doctors in Veterinary Hospitals	2317/CHE/2015 Dt.07.05.2015	Filed
2	Mr.K.Karuppanasamy Mr.P.Mahendran Ms.A.Lavanya	An Improved Artificial Hand	1244/CHE/2015 Dt. 13.03.2015	Filed
3	S.S.Senthil Kumar P.Sivakumar	Automatic Electronic System to avoid accident	2016641009460	Filed

	L.Raja V.B.SaiVignesh	while driving	Dt.18.03.2016	
4	Dr.P.S.Periasamy P.P.Sivakumar S.Senthilkumar	Fish Cleaning Machine	201641007852 Dt.07.03.2016	Filed
5	S.Senthil Kumar P.Balakrishnan S.Gokul	Electricity from gravity	201641007310 Dt.02.03.2016	Filed
6	R.Veeramani L.Raja J.Rameshkumar M.Jothimani A.Surendar S.Dinesh Kumar	RF Energy Harvesting System	6059/ CHE /2015 Dt.09.11.2015	Filed
7	Dr.P.S.Periasamy P.Sivakumar S.Senthilkumar R.Mohanraj,D.Sofika P.Sharmila,A.Abinaya	Thief Trapping System	6060/ CHE /2015 Dt.09.11.2015	Filed
8	Mr.K.Karuppanasamy Mr.P.Mahendran V.B.SaiVignesh	Generation of Electricity from movement of train	6905/CHE/2015 Dt.14.12.2015	Filed
9	Dr.C.Gowrishankar	A Portable and Cost Effective ECG Data Acquisition and Analysis system	3945/CHE/2015 Dt.31.07.2015	Filed
10	Dr.A.Maheswari	Power Quality Enhancement of Trinary Asymmetric Cascaded H-Bridge Multilevel Inverter using Specific Harmonic Elimination	4586/CHE/2015 Dt.31.08.2015	Filed
<b>Electrical and Electronics Engineering</b>				
1	Dr.T.R.Sumithira	Smart Solar Photovoltaic system based Multimode Matrix Converter.	3946/CHE/2015 & 31.07.2015	Filed
2	Dr.C.Gowri Shankar Mr.M.Senthilkumar Mr.J.Thiyagarajan	A Portable and Cost Effective ECG Data Acquisition and Analysis system.	3945/CHE/2015 & 31.07.2015	Filed
3	Dr.A.Maheswari	Power Quality Enhancement of Trinary Asymmetric Cascaded H-Bridge Multilevel Inverter	4586/CHE/2015 & 31.08.2015	Filed

		using Specific Harmonic Elimination		
4	Dr.G.Vijaykumar Mr.M.Karthick Mr.R.Karthick Ms.C.Maneesha Mr.M.Manoj Prabakaran	Novel Pin Number Shuffling Algorithm For Secured ATM Centre Interfaced With Automatic Shutter.	201641000241 & 05.01.2016	Filed
<b>Information Technology</b>				
1	Dr.G.SingaravelK.Ganesh Kumar	Adaptive Reusability Risk Analysis Model for Software Development	4685 / CHE / 2015 & 04-09-2015	Filed
2	K.Balamurugan, N.Saravanan S.Periyasamy	A Motion restoration model based on border deformation detection	201641005022 & 12-02-2016	Filed
<b>Mechanical Engineering</b>				
1	Dr.R.Marappan Dr.A.Karthikeyan	Five Finger Anthropomorphic hand	3268/CHE/2011 & 22.09.2011	Filed
2	Dr.R.Marappan Mr.G.Dhanasekaran	Improvised vertical axis wind mill	3269/CHE/2011 & 22.09.2011	Filed
3	Dr.A.Karthikeyan Mr.A.Saravanamaruthu	Vertical axis wind turbine with wind navigator vanes	4655/CHE/2011 & 30.12.2011	Filed
4	Dr.A.Karthikeyan Mr.A.Saravanamaruthu	Vertical axis wind turbine with directional wind guard	4656/CHE/2011 & 30.12.2011	Filed
5	Mr.A.V.Balan	Weld cladding of structural steel with super duplex stainless steel	4179/CHE/2011 & 02.12.2011	Filed
6	Dr.R.Marappan Mr.C.Senthil Kumar Mr.P.Sabarinath	Horizontal axis cam guided telescopic yaw controlled wind mill	570/CHE//2012 & 16.02.2012	Filed
7	Dr.R.Marappan Dr.A.Karthikeyan Mr.C.Senthil Kumar Mr.C.Senthil Kumar Mr.G.Dhanasekaran Mr.P.Sabarinath	Hybrid win mill	571/CHE/2012 & 16.02.2012	Filed
8	Mr.P.Jayakumar	Automatic sea fish juice extractor	1105/CHE/2012 & 26.03.2012	Request for exam
9	Dr.V.P.Venkatramanamoorthy	The use of TiO <sub>2</sub> nano particles in the	3388/CHE/2012 & 16.08.2012	Request for exam

	Dr.P.Senthil Kumar	reciprocating compressor lubricant to decrease the total irreversibility of vapour compression refrigeration system		
10	Dr.V.P.Venkatramanam oorthy Dr.P.Senthil Kumar	The use of TiO <sub>2</sub> nano particles to increase the exergy efficiency of vapour compression refrigeration system	3389/CHE/2012 & 16.08.2012	Request for exam
11	Dr.V.P.Venkatramanam oorthy Dr.P.Senthil Kumar	The use of TiO <sub>2</sub> nano particles in the rotary compressor lubricant to decrease the total irreversibility of vapour compression refrigeration system	3391/CHE/2012 & 16.08.2012	Request for exam
12	Dr.V.P.Venkatramanam oorthy Dr.P.Senthil Kumar	The use of TiO <sub>2</sub> nano particles in the rotary compressor lubricant to increase the total exergy efficiency of vapour compression refrigeration system	3392/CHE/2012 & 16.08.2012	Request for exam
13	Dr.T.K.Kannan Dr.R.Marappan	Preparation of emulsified Bio-Diesel using stirrer	4138/CHE/2012 & 04.10.2012	Filed
14	Mr.Amala Justus selvam Dr.P.Senthil Kumar	Plate heat exchanger for dairy industry	4047/CHE/2012 & 28.09.2012	Request for exam
15	Mr.V.Natarajan Dr.P.Senthil Kumar	The persuade of the tube-in-tube compact heat exchanger to increase the performance of joule Thomson refrigeration system	4048/CHE/2012 & 28.09.2012	Request for exam
16	Dr.R.Dhanasekaran Dr.P.Senthil Kumar	The use of WC-CO micro particles on the EN353 steel substrate to increase the wear resistance and improve the life of the planetary gear drive	4117/CHE/2012 & 03.10.2012	Request for exam

		system by using plasma spray technology		
17	Mr.A.Durairajan Mr.A.Nedunchezhilan Mr.P.Janagarathinam Dr.P.Senthil Kumar	Advanced heat transfer enhancement by using hybrid Nano fluids	5249/CHE/2012 & 17.02.2012	Filed
18	Mr.P.Jayakumar	Fire Extinguished with lifting and trolley setup	5509/CHE/2012 & 31.12.2012	Filed
19	Mr.Chanran Dr.P.Senthil Kumar	Design & development of cryoprobes and spray	2868/CHE/2013A & 28.06.2013	Request for exam
20	Dr.N.sugunaRamu Dr.P.Senthil Kumar	Using R32/R125/R600a as alternate to R22 in residential air conditioners	937/CHE/2014 & 25.02.2014	Filed
21	Dr.N.sugunaRamu Dr.P.Senthil Kumar	Performance assessment of residential air conditioner using CH <sub>2</sub> F <sub>2</sub> /C <sub>2</sub> HF <sub>5</sub> / isobutene refrigerant mixture	938/CHE/2014 & 25.02.2014	Filed
22	Dr.N.Shivasankaran Dr.P.Senthil Kumar	A hybrid bubble sorting simulated annealing algorithm for flexible job shop scheduling	2164/CHE/2014 & 29.04.2014	Filed
23	Dr.N.Shivasankaran Dr.P.Senthil Kumar	A hybrid sorting immune simulated annealing algorithm for flexible job shop scheduling	2220/CHE/2014 & 02.05.2014	Filed
24	Dr.R.Marappan Dr.A.Karthikeyan Dr.N.Shivasankaran Mr.P.Sabarinath Mr.T.Santhosh Kumar	Device for rescuing trapped victims from bore-well and methods thereof	3490/CHE/2014 & 16.07.2014	Application awaiting for examination
25	Dr.R.Marappan Dr.A.Karthikeyan Mr.P.Sabarinath Dr.K.Paramasivam Mr.C.M.Dinesh Mr.T.Santhosh Kumar Mr.K.Karupannasamy Mr.P.Mahendran	An improved artificial hand	1244/CHE/2015 & 13.03.2015	Application awaiting for examination

	Ms.A.Lavanya			
26	Mr.D.Vinoth Kumar Mr.M.MurugaPrasath Mr.P.Manikandan Mr.S.Magibalan Mr.M.Prabhu Mr.R.Ramesh Kumar	Direct cloth handling clip	4218/CHE/2015 & 13.08.2015	Filed
27	Mr.D.Vinoth Kumar Mr.M.MurugaPrasath Mr.S.Magibalan	Vertical adjustment mechanism for glass window in passenger vehicle	4387/CHE/2015 & 21.08.2015	Filed
28	Mr.R.Srinivasan Dr.N.Rangarajan Mr.P.Jayakumar	Safe And Hygienic Portable Toilet For Fishermen In Trawler Boat	811/CHE/2010 &26.03.2010	First examination report received
29	Mr.P.ManumeethiArasu Dr.V.Krishnaraj Dr.A.Karthikeyan Dr.P.Senthil Kumar Mr.P.Dhiravidamani Mr.C.Sivakumar Mr.K.Perumal Mr.K.Selvaraj Mr.P.Krishnan Mr.D.Madhan	Investigation of impact properties for glass fiber, jute fiber and hybrid glass/Jute fiber	E-101/5917/2016-CHE & 25.01.2016	Filed
30	Mr.P.ManumeethiArasu Dr.V.Krishnaraj Dr.A.Karthikeyan Dr.P.Senthil Kumar Mr.P.Dhiravidamani Mr.C.Sivakumar Mr.K.Perumal Mr.K.Selvaraj Mr.P.Krishnan Mr.D.Madhan	[0/+30/+45/90] <sub>s</sub> and bi-directional glass fiber with isophathalic resin based composite car bonnet	E-101/5918/2016 – CHE & 25.01.2016	Filed
31	Dr.P.Senthil Kumar Mr.S.Rajaganapathy Mr.P.Jagatheesh Mr.P.K.Sriram Mr.A.Sridar Mr.M.Anbalagan	Aero-dynamic design & prediction methodology of grid fins	E-101/10817/2016-CHE 12.02.2016	Filed
32	Dr.P.Senthil Kumar Mr.P.Rajendran Mr.K.Manogar Mr.M.Bhuvaneshkumar Mr.R.Bharath Kumar	Experimental investigation & performance analysis of centrifugal pump using CFD.	7891/2016-CHE APN:20164100346 1 & 22.01.2016	Filed

	Mr.A.Sridar			
33	Dr.P.Senthil Kumar Mr.S.Rajaganapathy Mr.P.Rasagopal Mr.M.Prabhu Mr.C.M.Dinesh Mr.T.Santhosh Kumar	Design of computation device for T <sub>64</sub> powder alloy particles	7897/2016-CHE & 01.02.2016	Filed
34	Mr.M.Karthick Mr.J.Venkatesh Mr.P.PascalJetaseelan Mr.N.Vivek Mr.M.Tamilarasan Mr.M.Anbalagan	Performance & emission characteristics of single cylinder diesel engine using corn oil blend as bio-diesel	4.02.2016	Filed
<b>Physics</b>				
1	T. Kavitha, A. Rajendran, A. Durairajan, P. Senthilkumar	Synthesis and characterization of Nano TiO <sub>2</sub> -SiO <sub>2</sub> Composites via Sol Gel Technique	No.5248/CHE/2012 dated 17/12/2012 &	Filed