

Institute Name	K S RANGASAMY COLLEGE OF TECHNOLOGY
India Ranking 2017 ID	IR17-ENGG-2-1-2810997882
Discipline	ENGINEERING
Details of Patents Filed (F) / Published (P) / Granted (G)	

Calendar Year	Departments																		Total		
	BioTech			NST			Mechanical			Civil			Mechatronics			Textile					
	F	P	G	F	P	G	F	P	G	F	P	G	F	P	G	F	P	G	F	P	G
2015	0	1	0	2	0	0	4	0	0	-	-	-	0	1	0	1	0	0	7	2	0
2014	-	-	-	0	1	0	2	0	0	-	-	-	-	-	-	-	-	-	2	1	0
2013	0	17	0	0	1	0	-	-	-	-	-	-	-	-	-	-	-	-	0	18	0
2012	0	0	2	-	-	-	7	0	0	-	-	-	-	-	-	-	-	-	7	0	2
2011	0	1	1	1	0	0	1	0	0	-	-	-	-	-	-	-	-	-	2	1	1
2010	0	0	1	0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	0	1	2
2009	0	2	0	0	3	1	-	-	-	-	-	-	-	-	-	-	-	-	0	5	1
2008	-	-	-	-	-	-	1	0	0	0	1	0	-	-	-	-	-	-	1	1	0
2007	-	-	-	1	0	0	0	0	0	-	-	-	-	-	-	-	-	-	2	0	0
Total	0	21	4	4	6	2	15	0	0	F	P	G	0	1	0	1	0	0	20	29	6
Grand Total																			55		

Stake holders; Students, Faculty, Parents, Industries can give their comments, feedback and suggestions through e-mail: ksrctcms@ksrct.ac.in

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India Ranking 2017 ID	IR17-ENGG-2-1-2810997882			
Discipline	ENGINEERING			
Details of National Patents Filed / Published				
S.No.	Name of the Patent owner (s) / Inventor (s)	Title	Reference No. & Date	Status
1.	Dr.R.Dhanasekaran Dr.A.Kumaravel Dept. of Mechanical	Design and Fabrication of Piston by using Aluminum alloy	E-2/1323/2015-CHE 30.04.2015	Filed
2.	Dr.R.Dhanasekaran Dr.A.Kumaravel Dept. of Mechanical	Improving the Mechanical Properties of LM25 by adding Alloying Elements	E-2/1324/2015-CHE 30.04.2015	Filed
3.	Mr.G.Venkatachalam Dr.R.Dhanasekaran Dr.A.Kumaravel Dept. of Mechanical	Effect of Lithium and Zirconium addition on LM25 Aluminum cast alloy	E-2/1321/2015-CHE 30.04.2015	Filed
4.	Mr.G.Venkatachalam Dr.R.Dhanasekaran Dr.A.Kumaravel Dept. of Mechanical	Analysis of Mechanical Properties of LM25 in Comparison with other Grades of Aluminum	E-2/1322/2015-CHE 30.04.2015	Filed
5.	P.K.Panda, V.Rajendran B.B.Shau, P.Shau, N.Sahoo, J.N.Tiwari, Dept. of NST	A precursor for producing nano sized Titanium dioxide from titanium bearing materials	Application in Process 21.01.2015	Filed

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S.No.	Name of the Patent owner (s) / Inventor (s)	Title	Reference No. & Date	Status
6.	V.Rajendran, S.R.Srither, A.Karthik, S.Arunmetha, Dept. of NST	Mass production of MnO ₂ nanoparticles employing spray pyrolysis method for zine primary	Application in Process 20.04.2015	Filed
7.	S.Durairaj Dept. of Mechatronics	Integrated Dam Automation System (IDAS)	2997 / CHE / 2015 16.06.2015	Published
8.	M.Chenganmal Dept. of Textile	A process for preparing anti diabetic herbal medical devices and products thereof	2132/CHE/2015 27.04.2015	Filed
9.	P.Deepak kumar B.Mahendra Kumar G.Ayyapadasan P.Ponmurugan Dept. of Bio Technology	Effective method of extraction and separation of antioxidant molecules from lichens obtained from Kolli hills of Tamil Nadu	1799/CHE/2015A 17.04.2015	Published
10.	Dr.R.Dhanasekaran Dr.A.Kumaravel Dept. of Mechanical	Studies on Thermal Properties of Aluminium Silicon(AL-SI) Material	1903 / CHE / 2014 11.04.2014	Filed

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S.No.	Name of the Patent owner (s) / Inventor (s)	Title	Reference No. & Date	Status
11.	Dr.R.Dhanasekaran Dr.A.Kumaravel Dept. of Mechanical	Studies on wear Properties of carbide coating on case carburized steel	1904 / CHE / 2014 11.04.2014	Filed
12.	V.Rajendran R.Suriyaprabha D.Shanmughapriya R.Yuvakkumar , Dept.of NST	Titania and Neem Doped Chitosan-Hydroxypropyl Methylcellulose Nanocomposite Films for Food Packaging Applications	736/CHE/ 2014 17.02.2014	Published
13.	B.Nithya P.Ponmurugan N.Mathivanan Dept. of Biotechnology	Production of secondary metabolites from acid tolerant actinomycetes (<i>Streptomyces sannanensis</i> KSR11) and their analysis by GC-MS method	1366/CHE/2013 A 27.03.2013	Published
14.	A.Sriram M.Ramya Dept. of Biotechnology	Formulation of NBS-LRR gene transformed <i>E.coli</i> along with powdered egg shell for its use as a biocontrol agent	2854/CHE/2013 A 28.06.2013	Published
15.	J.Philip robinson Dept. of Biotechnology	<i>In vitro</i> regeneration and mass multiplication of <i>Emilia zeylanica</i> C. B. Clarke (Asteraceae)— A potential medicinal herb	2863/CHE/2013 28.06.2013	Published

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16.	S.Anita, D.Vaishunudevi Dept. of Biotechnology	Probiotication of nannari syrup by using <i>Lactobacillus acidophilus</i> isolated from curd	2859/CHE/2013 A 28.06.2013	Published
17.	B.Bagyalakshmi Dept. of Biotechnology	Potassium solubilizing efficiency of <i>Pseudomonas putida</i> isolated from tea plantation soil	2856/CHE/2013 A 28.06.2013	Published
18.	R.Subbaiya R.Kaviya divya Dept. of Biotechnology	Isolation and partial characterization of Biologically synthesised silver nano particles from <i>Streptomyces pseudogriseolus</i> and its anti-bacterial activity	2858/CHE/2013 28.06.2013	Published
19.	S.Venkatesa prabhu Dept. of Biotechnology	Bioleaching process of chromium, nickel, zinc and lead from electroplating industrial waste sludge using bubble column reactor	2851/CHE/2013 A 28.06.2013	Published
20.	G.Ayyapadasan P.Ponmurugan Dept. of Biotechnology	Microwave assisted detection of UV- absorbing compounds from Lichen	2860/CHE/2013 A 28.06.2013	Published

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21.	R.Arutselvi N.Ramachandran Dept. of Biotechnology	Enzyme based formulation of Chitinase from entomopathogenic fungi	2862/CHE/2013 A 28.06.2013	Published
22.	G.Bharath Karthikeyan Dept. of Biotechnology	An optimized packed bed reactor with <i>Aspergillus niger</i> – KSR- 21 biomass for textile effluent treatment- A Pilot study	2864/CHE/2013 A 28.06.2013	Published
23.	C.Monica R.Arulvel Dept. of Biotechnology	Extraction of crude dye stuffs from used flowers	2857/CHE/2013 A 28.06.2013	Published
24.	D.Gayathri S.Poornima Dept. of Biotechnology	Biosorption of hexavalent chromium by <i>Trichoderma atroviridae</i>	2852/CHE/2013 A 28.06.2013	Published
25.	R.Subhaharshini V.Balakrishnan Dept. of Biotechnology	Formulation of biocontrol insecticide against mosquito and mosquito larvae from plant leaf extracts	2855/CHE/2013 A 28.06.2013	Published

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26.	J.Ebinezer SamuelKing M.Balasubramaniam Dept. of Biotechnology	Anti snake venom property of <i>Ruta graveolens</i> L on <i>Naja naja</i> venom	2850/CHE/2013 28.06.2013	Published
27.	S.Kirubhakaran, M.Nithya Dept. of Biotechnology	Production and evaluation of <i>Manikara zapota</i> and <i>Carica papaya</i> flavoured yogurt	2853/CHE/2013 28.06.2013	Published
28.	B.Gangathara prabhu P.Ponmurugan Dept. of Biotechnology	Isolation and molecular depiction of DNA binding protein from <i>Salmonella typhi</i>	2865/CHE/2013 A 28.06.2013	Published
29.	S.Venkatesaprabhu R.Baskar P.Ponmurugan Dept. of Biotechnology	Indirect bioleaching process for leaching of zinc and iron from the sphalerite ore by isolate <i>Leptospirillum ferriphilum</i>	5144/CHE/2013 A 29.11.2013	Published
30.	P.K.Panda, V.Rajendran B.B.Shau, P.Manivasakan P.R.Rauta, Dept.of NST	Preparation of nanotitania (TiO ₂) from ilmenite	4042/CHE/2013 10.09.2013	Published

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31.	Dr.P.S.Sampath Dept. of Mechanical	Borassus Fruit Fiber Reinforced Epoxy Composite Material	2304 / CHE / 2012 11.06.2012	Filed
32.	Dr.V.P.Venkataramanmurthy Dept. of Mechanical	The use of TIO2 nano particles in the rotary compressor lubricant to decrease the total irreversibility of vapour compression refrigeration system	3388 / CHE / 2012 16.08.2012	Filed
33.	Dr.V.P.Venkataramanmurthy Dept. of Mechanical	The use of TIO2 nano particles in the rotary compressor lubricant to increase the energy efficiency of vapour compression -refrigeration system	3389 / CHE / 2012 16.08.2012	Filed
34.	Dr.V.P.Venkataramanmurthy Dept. of Mechanical	Enhancement of pressure in refrigerator S&N BSP compressor using nanolubricants	3390 / CHE / 2012 16.08.2012	Filed
35.	Dr.V.P.Venkataramanmurthy Dept. of Mechanical	The use of TIO2 nano particles in the reciprocating compressor lubricant to decrease the total irreversibility of vapour compression refrigeration system	3391 / CHE / 2012 16.08.2012	Filed

S.No.	Name of the Patent owner (s) / Inventor (s)	Title	Reference No. & Date	Status
36.	Dr.V.P.Venkataramanmurthy Dept. of Mechanical	The use of TIO2 nano particles in the reciprocating compressor lubricant to increase the energy efficiency of vapour compression refrigeration system	3392 / CHE / 2012 16.08.2012	Filed
37.	Dr.R.Dhanasekaran Dept. of Mechanical	The Use of Wc-Co Microparticles on the En 353 Steel Substrate to Increase the wear resistance and improve the life of the planetary gear drive system by using plasms spray technology	4117 / CHE / 2012 03.10.2012	Filed
38.	P.Ponmurugan, G.Ayyappadasan D.Saravanan Dept. of Biotechnology	Bioseparation of algal and fungal partners from lichens obtained from eastern ghats for biomedical applications	2902/CHE/2011 A 25.08.2011	Published
39.	V.Rajendran, S.Pavithra, K.Sasipriya, Dept.of NST	Preparation of nanoparticles from <i>Acalypha indica</i> leaves employing milling technique for biomedical applications	1715/CHE/2009 28.01.2011	Filed
40.	Dr.A.Murugesan Dr.P.Shanmugam Mr.C.Vijayakumar Dept. of Mechanical	Innovative and efficient technology for Bio Diesel Production from non edible oil	1103/CHE/2011 01.04.2011	Filed

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41.	V.Rajendran, S.Pavithra, K.Sasipriya Dept.of NST	Preparation of Nanoparticle (Azadirachtha indica) leaves for biomedical applications	2177/CHE/2010 30.07.2010	Published
42.	P.Ponmurugan, D.Saravanan, M.Ramya Dept. of Biotechnology	Standardization of isolation techniques for <i>Cephaleuros parasiticus</i> Karst, a pathogenic alga in tea plants	1997/CHE/2009 21.08.2009	Published
43.	P.Ponmurugan M.Murugesan Dept. of Biotechnology	Screening of biocontrol agents against <i>Phomopsis theae</i> , a causal agent of <i>Phomopsis</i> canker disease in tea plants	1998/CHE/2009 21.08.2009	Published
44.	N.Kannan, V.Rajendran, V.Elango, R.Yuvakkumar Dept.of NST.	Influence of nano silica on the growth and yield of maize crop (<i>Zea mays</i> L.)	237/RQ-CHE/2009 18.05.2009	Published
45.	V.Rajendran, R.Palanivelu S.Sutha, Dept.of NST	Mono dispersed colloidal and cocoon shaped nano silica particles for industrial applications	430/RQ-CHE/2009 27.01.2009	Published

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46.	V.Rajendran, N.Kannan, R.Yuvakumar V.Elango, Dept.of NST	A novel method to prepare crystalline nano molybdenum particles	218/CHE/2009 30.01.2009	Published
47.	Dr.P.Somasundaram Dept. of Mechanical	Automatic Jaggery making machine	533 / CHE / 2008 03.03.2008	Filed
48.	R.malathi, D.Jagadeeshwaran Dept of Civil	Papercrete building blocks	2340/CHE/2008 25.09.2008	Published
49.	V.Rajendran, R.Palanivelu P.Padmananban Dept.of NST	Processing of amorphous nano silica particles from rice hulls through chemical route	CBR No: 79 06.04.2007	Filed