



# KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE - 638 060



Transform Yourself



## KEC SPARK FUND

(An initiative by IICKEC, EMDC and TBI@KEC)

### Sanctioned Project Details

S No.	Title	NAME	ROLL NUMBER	Mentor	Duration	Sanctioned Amount in Rs	Outcomes
<b>2019-2020</b>							
1.	Analysis and Up gradation of Cardio Pulmonary Resuscitation Device for Health Care	K. Sudarsan G. Premkumar S. Sribhairav	21MER087 21MEL122 21MEL129	Dr.R.Rajasekar Dr.C.Moganapriya Mech	01.03.20 - 28.02.21	41,000	Patent Filed. App No: 202341039257A
<b>2020-2021</b>							
2.	Investigation on Geo Polymer Paver Blocks made with Steel Slag Aggregates towards Sustainable Urban / Smart cities development	Amarnath.A Abhinantha.S Chowndharian.A	17CER007 17CER002 17CER035	Mr.A.R.Krishnaraja Civil	01.01.21 - 31.12.21	44,000	Patent drafting under process
<b>2021-2022</b>							
3.	Agro tech Drone -A remote crop management Drone using spectral camera imaging	Gokul Raja N Kathiravan J Kaviyarasu S G. Tharakhamurthy R. Thiruselvam	17ECR042 17ECR071 17ECR080 19ECR204 19ECR207	Mr.R.P.Karthik, ECE	01.06.21- 31.05.22	89,000	Won 5G Hackathon Phase I & II with Rs: 4,00,000/- as cash prize. Event organized by GoI, DoT, TCOE. Student Startup.
4.	InDesi Cards	P.Kavin T.Shimar Ahamed K.Vignesh Kumar	20CSR091 17CER166 17CER199	Dr.G.S.Rampradheep, Civil Dr.N.Shanthi, CSE	01.06.21 - 31.05.22	38,510	Copyrights under Scrutiny Artistic Copyright Diary Number: 14172/2023-CO/A

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S No.	Title	NAME	ROLL NUMBER	Mentor	Duration	Sanctioned Amount in Rs	Outcomes
		M.Vignesh Bharathi Sri Balaji Syed Shanavaz C.N.Vinish Nandan	17CER198 17CER177 17CER186 17CER205	Co-Mentors Dr.P.S.Kothai, Civil Dr.D.Ambika, Civil Dr.S.Anandakumar, Civil			Literary Copyright Diary Number: 14174/2023-CO/L Won National Award in Toycathon 2021 under Government of India
5.	Study on reduction of scale formation in drip irrigation nozzle using natural coagulant	V. Harish K. Aravindh P.S. Nithisri N. Ponparudhi	19CER040 19CER008 21CER061 21CER062	Dr.S.Suchithra, Civil Dr.P.S.Kothai, Civil	01.01.22- 31.12.22	35,000	Design Patent Granted Grant Number: 380852-001
6.	Eco-friendly plastic paver block	Prabhu T Oviya S Raja Rethinam S Monisha P	18CER123 18CER116 18CER133 18CER098	Dr.S.Suchithra, Civil Dr.P.S.Kothai, Civil	01.01.22- 31.12.22	36,000	Design Patent Granted Grant Number: 375458-001
7.	Compact versatile cooking Gadget	K. Sudarsan G. Premkumar S. Sribhairav	21MER087 21MEL122 21MEL129	Mr.A.Ganesh, Mech Mr.K.V.Satheesh Kumar, Mech	01.01.22- 31.12.22	35,000	Product completed Report submitted to Prior art search. yet to file patent this week
<b>2022-2023</b>							
8.	Double sided napkin	A. Priyanga U. Dinakaran	19CHR065 20CHR015	Mr.S Pranav, Chem	01.08.22- 31.7.23	25,000	Patent Filed., 202341040972, 16/06/2023 Participated SIH 2022, Testing for commercialization in progress
9.	Smart Buffer Stock Solution for Onion Storage (Team Zelos)	Srivi V Keerthiraj N Abivarshini M A Kasiram P Hema S Santheeb Balaji V	19MER183 19MER091 19FTR001 19ECR076 19ECR061 19CHR076	Dr.C.Baskar Mech	Special Case for SIH	10,000	Participated in SIH -2022.

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10.	Edible film from excess milk (Food Tech Flyers)	Sanju Vikashni S Puviram P Nivedita P V Deepak G Deepak T Deepak K	19FTR040 19FTR037 19FTR033 19MER030 19MER031 19MER029	Ms.A.Sangeetha FT	Special Case for SIH	11,500	Participated in SIH -2022.
11.	Pervious path – paver block from corona waste (KEC Penet Path)	Sugandhan S S Siva Sankar P Ragul M Sona S Subitsha Roshini R Subikshaa S	21CER092 21CER080 21CER066 21CER083 21CER091 21CER090	Mr.A.Venkatachalam Civil	Special Case for SIH	10,000	Participated in SIH FINAL in jaipur-2022. Design Patent Filed: 373851-001
12.	Insta self-align bricks (KEC INFERNO)	Senbagam L Vignesh S C Vijay S Krishnamoorthi R Skathivignes G S	20CER088 20CER111 20CER114 19CEL135 19CER082	Mr.A.Venkatachalam Civil	Special Case for SIH	10,000	Participated in SIH FINAL in jaipur-2022.
13.	Transparent Concrete with supplementary cementitious materials and construction and demolition Debris	D.V.Dilbar Mohammed Naseer M. Dhanushri B.K. Apoorvaa A. George Rishan	20CER019 20CER015 20CER006 20CER027	Dr.P.S.Kothai, Civil DrD.Ambika, Civil	28.09.22- 30.09.23	50,000	Won prizes in many project presentation events, worth of Rs 10,150/-. Patent Drafting in Process
14.	Smart crop protection system from peacocks using IOT	S. Kishore S. Ajith	21CDR022 21CDR002	Ms.S.Hemalatha/CSD Mr.S.Selvaraj/ CSD	21.11.22- 30.11.23	25,000	Applied for SIH 2023.
15.	Food Delivery Robot	M.Mohamed Ajmal S. Nandita M. Karthika	21CDR025 21CDR028 21CDR018	Mr.S.Selvaraj/CSD Dr.C.Maheswari/MTS	21.11.22- 30.11.23	40,000	TN Startup Thiruvizha – 5 K won. Science Day event KEC - 3K Won. Patent Drafting in process.

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S No.	Title	NAME	ROLL NUMBER	Mentor	Duration	Sanctioned Amount in Rs	Outcomes
		J. Siddharthan B. Saran P. Sriram	20MTR078 20MTR072 20MTR081				
16.	AI and IoT based alert system for accident prone areas in highways	G.K. Ranga Kaarthi V. Sabarika K. Dhanushree	21CDR036 21CDR039 21CDR010	Ms.K.Jothimani/CSD Mr.S.Selvaraj/ CSD	21.11.22- 30.11.23	40,000	Applied for SIH -2023
17.	KEC Bus Notify	S. Karthick S.R. Ranjith	21CDR017 21CDR037	Mr.S.Selvaraj/CSD	21.11.22- 30.11.23	30,000	Applied for SIH 2023. fabrication work in process.
18.	Battery Thermal management using heat pipe integrated system	Adhitya L S Aravindh R Aruvi B Karthik S Santhosh Singh R Moniga B.	21AUR001 21AUR002 21AUR003 21AUR018 21AUL056 21AUR024	Mr. K.Nithyanandhan, Auto  Dr. P. C. Murugan / Automobile	Special Case for KPIT Sparkle	34,000	Won Rs. 15,000 on VIT University Startup Conclave, Chennai. Won the silver award with a cash prize of Rs. 5,000 on TN startup Thiruvizha Coimbatore. Secured the position in the top 50 projects of KPIT sparkle 2023. Won Prize in SIH internal Hackathon with a cash prize of RS. 5,000. Won prizes in other project presentation events.
19.	Design and development of an efficient indigenous hydrogen gas generation system by dry cell electrolysis method	S. Sivakarthick C. Vasanth S. Barath Kumar S. Kaaran	20AUR018 20AUR022 20AUR027 20AUR032	Mr. K.Nithyanandhan/ Automobile	Special Case for KPIT Sparkle	45,000	Won, gold award with the cash prize of Rs. 10,000 in TN startup Thiruvizha Coimbatore. Won the most popular project award with the cash prize of Rs. 1,00,000 in the KPIT sparkle 2023. Won Prize in SIH internal Hackathon with a cash prize of RS. 5,000. Won Prize in the science day expo with the cash prize of Rs. 5,000.

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		P. Nagulan	20AUR039				Won prizes in other project presentation events.
20.	Energy generation in highways using moving vehicles	Narasimmabharathi S Kavin Kumar P - Elamathi Kumaran S - Ramkumar J - Subishek M Komal Vasudhi S	20AUR013 20AUR008 21AUR009 21EER066 21EER094 22AUR014	Mr. K.Nithyanandhan/ Automobile	Special Case for KPIT Sparkle	35,000	Secured the position in the top 26 projects of KPIT sparkle 2023. Design Patent Filed. App No: 396549-001 Date: 04-10-2023
21.	Advent of aluminum polymer: replacing battery	Kaveya P Gokul J Leander Antony G Pavendhan Mourin Prasad B M	20ECR075 20ECL214 20ECR089 20ECR115 20ECR102	Dr.K.Senthil kumar, ECE	Special Case for KPIT Sparkle	40,000	Pitched on iCreate & KPIT Sparkle - won Rs. 50,000 grants.
22.	Pinch hitter of lithium-ion battery: development if Zinc activated carbon battery	Kavyadharshini D Gokulanand S Hemanth S N Kaviya Priya Haris T Meivelan B	20ECR080 20ECL215 20ECR055 21ECR104 21ECR076 21ECR117	Dr.G.Murugesan, ECE Dr.K.Senthilkumar/ ECE	Special Case for KPIT Sparkle	30,000	Pitched on iCreate & KPIT Sparkle - won Rs. 50,000 grants. Provisional Patent Filed. App No: 202341017599
23.	Automation of cashew cutting machine	Abinash A	19EER002	S.Chandrasekar, EEE S.Gomathi/EEE	28.01.23- 30.01.24	32000	
<b>2023-2024</b>							
24.	Portable 3 Phase Monitoring System.	Naveen A Suganth S	20EIR054 20EIR082	Dr. R. Subasri , EIE Dr. R. Rajkumar / EIE	01.09.23- 20.02.24	30,000	
25.	Cargo EV Tricycle	V Nagulraj Muzammil A K M	20MER079 20MER073	Dr.P.Selvakumar/ Mech.	21.10.23- 21.12.23	40,000	Participated in Bharath Cycle Design Challenge.

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		Joshua P S Devaprakash S Hareesh Vigram C	20MER055 21MER024 21MER037		(AICTE Bharath Cycle Competition)		

S.No.	Year	No. of Sanctioned Project	No. of Projects Completed	Amount Sanctioned	IP/ © Filled/Granted
1.	2019-2020	1	1	₹ 41,000.00	1
2.	2020-2021	1	1	₹ 44,000.00	0
3.	2021-2022	5	4*	₹ 233,510.00	4
4.	2022-2023	16	10*	₹ 467,500.00	4
5.	2023-2024	2*	-	₹ 70,000.00	0
	<b>Total</b>	<b>25</b>	<b>16*</b>	<b>₹ 856,010.00</b>	<b>9</b>

\*Recently Allocated/Work in Progress

#Till Date: 30 / 11/ 2023