

PATENTS FROM THE DEPARTMENT OF MECHANICAL ENGINEERING, NSSCE

The major achievements in Patents & Innovation of Dept. of Mechanical Engg., for the year 2018-2025
(updated till 12/07/ 2025)

14 Indian Patents and 18 Innovation awards for our projects

SI No	Title of Invention	Name of applicant	Patent Grant No & Application Date of filing/Date of publication
1.	"A system and method for measuring an amount of fuel consumed and present in a cylinder" (E Stove-An electronic smart cooking gas stove which display the consumption and remaining amount of LPG in a cylinder and do automatic booking)	Dr. Vinod V., (Professor, MED), Saheer M (Student, ECD)	Granted Indian Patent: Patent No. 402939 dated 03/8/2022
2.	"A fuel volume measuring system for a vehicle and a method thereof " (An on time fuel measurement and display system in vehicles)	Dr. Vinod V., (Professor, MED), Dr. Resmi G, (Professor, CED), Dr. Ramesh U., Dr. Suresh P R, (Professor, MED), Saheer M (Student, ECD),	Granted Indian Patent: Patent No. 397483 dated 24/5/2022
3.	"LPG Cylinder Carrier and Stair Climber" (A device for carrying LPG Cylinder touppe floor through stairs easily without much effort)	Dr. Vinod V., (Professor, MED), Sreesankar, Sravan K K, Sreedhar N V, Sonu M, Sujeeth Kumar (Students, MED)	Granted Indian Patent: Patent No. 417111 dated 06/01/2023
4.	Pro Hands- Article Holding Device (This device is used to take and hold any items from a height which has 360 degree rotatable head with a telescopic handle bar)	Jithin Babu., KARavind Menon, Jaishnu Padman Students from MED (Batch: 2012-2016)	Granted Indian Patent: Patent No. 426561 dated 23/3/2023
5.	Gravity assisted dehusker for coconut dehusking (A device for dehusking coconut with the help of leg)	Dr A S Varadarajan Professor (Retd) MED	Granted Indian Patent: Patent No. 447111

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			dated 24/8/2023
6.	“Huxley Compact Private Vehicle” (This innovative project titled guided by Dr. Vinod V and Fayad S. From Dept. of Mechanical Engg has also received a project grant of Rs. 8,80,000/- by order no. 737/2017/KSCSTE dated 28/10/2017.)	Fayad S. Students from MED Batch:2014-18)	Patent Application no. 201741037309, Date of filing 23/10/2017, E Ref No.E-2/3094/2017-CHE,
7.	Coating composition for a medical device surface with nanoparticles.	Dr Jyothisankar P R (Professor, MED), Dr Kiron K R (Professor, MED), Dr Aneesh Kumar P(Asst. Professor, MED), Sajith V S(Asso. Professor, Mathematics),	Patent published Patent Office Journal No. 29/2022 dated 22/07/2022, page 45962
8.	“Portable dual powered grain transporter with variable height and flow rate	Dr A S Varadarajan Professor (Retd) MED	Granted Indian Patent: Patent No. 400166 dated 28/6/2022
9.	A solar assisted compact liquid desiccant comfort system	Sajesh M (Asst Professor , MED), Geletta F D, Kalpana	Granted Indian Patent: Patent No. 488395 Dated 23/12/2023
10	“Human weight operated coconut dehusking machine” (A device operated using leg to dehusk a coconut with very less effort)	Dr.Vinod V., (Professor, MED), Anuvind Ajit, Alvin Sebastian ,Amal Monsi, Anandakrishnan G, Akhil PK (Students, MED)	Granted Indian Patent: Patent No. 532698 dated 12/4/2024
11	“A coconut scrapper” (A portable and safer device used	Dr. Vinod V (Prof., MED, Sadasivan M	Granted Indian Patent:

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	to scrap coconut without effort)	(Individual)	Patent No. 492824 dated 01/01/2024
12	A Gravity assisted dehusker for coconut dehusking using dual piercing heads	Dr A S Varadarajan Professor (Retd) MED	Granted Indian patent: Patent no: 531218 dated 31/03/2024
13	Convertible Wheel Chair cum bed (A convertible wheel chair cum bed with a bed to bed transfer facility and IOT facilities for elderly people)	Dr.Vinod V., (Professor, MED), Dr. Resmi G, (Professor, CED), Dr. Sudeep U., Dr. Suresh P R, (Professor, MED), Adithya, Dananjay, Aswin Ajay Afrad Hussian (Student MED)	Patent Published Patent Office Journal No. 39/2024 dated 27/09/2024, page 87207
14	Charging System and payment method of an Electric Vehicle thereof (An App free charging system for EV vehicles without smart phones)	Dr.Vinod V., (Professor, MED), Dr. Sujith S, (Professor, EED), Dr. Anil Kumar K R, Associate Prof (ECD)., Dr. Lija Arun , Asst Prof. (ECD), Vibin P V, Alka, (Student EEE, NSSCE)	Patent Published Patent Office Journal No. 12/2025 dated 21/03/2025, page 27855

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Patents by Alumni (during 2018-2025)		
A portable sterile enclosure for surgical procedures	Dinoj Joseph (2008-2012 Mechanical Engg Student)	Indian Patent Granted Patent No: 472415 Date of Granting: 23/11/2023
A negative pressure portable sterile enclosures kit for dental procedures	Dinoj Joseph (2008-2012 Mechanical Engg Student)	Indian Patent Granted Patent No: 430781 Date of Granting: 04/12/2020

In a nut shell, he achievements of Department of Mechanical Engineering, NSSCE for the year 2018-25 (Updated till 12/7/2025) are as follows:	
Patents Granted -10 Nos	Patent searches done- 6 Nos
Patents Published -3 Nos	Innovation awards-18 Nos
Patents Applied-1 Nos	Patents granted by alumni (2018-25) -2 Nos