

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM-63110**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**DETAILS OF PATENTS**

**Patents Granted**

<b>Sr. No.</b>	<b>Name Of The Patent</b>	<b>Patent Grant Date</b>	<b>Name Of The Faculty</b>	<b>Patent Reference Number</b>
1	Dual Band Notched Dielectric Resonator Reflect Array For C/X Band	12.03.2020	Dr.Gulam Nabi Alsath	1374/CHE/2012
2	A UHF RFID Reader Antenna Integrated With Near Field And Farfield Operations	25.09.2019	Dr. Gulam Nabi Alsath	5336/CHE/2015
3	Multiband Reconfigurable Microwave Filtenna	25.06.2019	Dr Gulam Nabi Alsath	US 10333225/2019

**Patents Filed**

<b>Sr. No.</b>	<b>Name Of The Patent</b>	<b>Patent Filed Date</b>	<b>Name Of The Faculty</b>	<b>Patent Reference Number</b>
1	Beam Steerable Antenna: A Method And Device Thereof	30.12.2019	Dr Gulam Nabi Alsath	201941054575
2	Directional UWB Antenna: A Method And Device Thereof	27.12.2019	Dr Gulam Nabi Alsath	201941054091
3	Flexible Wearable Sensor For Wireless Screening Of Obstructive Sleep Apnea	26.11.2019	Dr Esther Florence S	201941048258
4	Ultra-Wideband (UWB) Reconfigurable Filtering Antenna: A Method & Device Thereof	20.08.2019	Dr Gulam Nabi Alsath Dr Kirubaveni	201941033454
5	Speech-Input Speech-Output Communication Aid For Speakers With Cerebral Palsy	02.08.2019	Dr. P. Vijayalakshmi, Dr. T. Nagarajan, Mariya Celin, T. A	201941031287
6	Multiband Pattern Reconfigurable Antenna: A Method And Device Thereof	05.08.2019	Dr Gulam Nabi Alsath	201941031648
7	Multiband Folded Antenna For Tablet Computers	15.10.2018	Dr Gulam Nabi Alsath	201841039028A
8	Hidden Markov Model-Based Sign Language To Speech Conversion System In Tamil	11.10.2018	Dr. P. Vijayalakshmi N. Naren Raju, Aishwarya V	201841038594
9	A Method Of Fabricating Micro Features In Nbn Superconductor Using Ns-Pulsed Laser	12.09.2018	Dr.B.S.Sreeja, Dr.S.Radha,	201841030305/CH E/2018.
10	Quantifying Cholesterol Level In Human Serum Using Laser Induced Breakdown	12.09.2018	Dr.S.Radha, Dr.B.S.Sreeja	201841030310/CH E/2018

	Spectroscopy			
11	Early Warning Asthma Trigger Detection System	10.07.2018	Dr.A.Jawahar, S.Indulakshmi	TN- PIC/2018/PA039
12	Tunable Band Notched Filtenna	15.06.2018	Dr. M. Gulam Nabi Alsath, Dr. S. Ramprabhu	201841021702
13	Microstrip Antenna Based Flexible Sensor For Fracture Detection	11.06.2018	Dr Esther Florence S	201841021701
14	Multiband MIMO Antenna For Tablet Application	11.01.2018	Dr. M. Gulam Nabi Alsath, Dr. S. Ramprabhu	201841001232
15	A Design To Achieve Multiband Operation In Miniaturized Antennas And The Device Thereof	21.08.2017	Dr. M. Gulam Nabi Alsath, Dr. S. Ramprabhu	201741029510
16	A Method To Achieve Compound Reconfiguration In Microstrip Filters And The Device Thereof	21.08.2017	Dr Gulam Nabi Alsath, Dr. S. Ramprabhu	201741029509
17	Planar Microwave Sensor For Fracture Detection In Human Bones	21.08.2017	Dr Esther Florence S	201741029503
18	Compound Reconfigurable Antenna Array	09.08.2017	Dr Gulam Nabi Alsath	201741028261
19	A Bio Organic Nanocomposite Membrane For Heavy Metal Adsorption And Preparation Method There Of	13.04.2017	Dr.B.S.Sreeja, Dr.S.Radha,	201741013238
20	Polarization Independent Reconfigurable 3-D Frequency Selective Surface And Method Thereof	22.09.2016	Dr. S. Ramprabhu	201641032341
21	Novel 3T Head Actuation Mechanism With Low Actuation Voltage For Bistable Switching Mechanism	07.04.2016	Dr.B.S.Sreeja, Dr.S.Radha,	201641012220
22	Compact Mushroom Shaped Multiband Antenna With Slot Loaded Elliptical Microstrip And Improved Performance	08.07.2016	Dr.B.S.Sreeja, Dr.S.Radha,	201641023407
23	Shared Aperture Multi-Service Antenna For Automotive Communications	9.12.2015	Dr. Gulam Nabi Alsath	6413/CHE/2014
24	Method And Apparatus For Non-Destructive Testing Of Composites Using Planar Sensor	6.10.2015	Dr Esther Florence S	5338/CHE/2015 A
25	A Method And Device For A Passive Reconfigurable Frequency Selective Surface	19.10.2015	Dr. S. Ramprabhu	5621/CHE/2015
26	A Device And Method To Fabricate Ultra-Wideband Microstrip Grid Array Antenna (GAA)	6.10.2015	Dr. Gulam Nabi Alsath	5337/CHE/2015

27	Novel Fully Integrated Multi-Layer Woven Electro-Textile Patch Antenna	19.10.2015	Dr Esther Florence S	5620/CHE/2015
28	Mutual Coupling Reduction In MIMO Antenna With Serpentine Type Structure Resonator	30.05.2014	Dr.Gulam Nabi Alsath,	2660/CHE/2014