

**SSN COLLEGE OF ENGINEERING
DEPARTMENT OF ECE - PATENTS**

Sr. No.	Name of the Patent	Patent Filed Date	Name of the Faculty	Patent reference number	Status
					Published/Granted with Date
1	Quad Band RF shield using a mechanically configurable venetian blind structure	15/3/2021	Dr. Esther Florence S	202141010951	Published
2	Novel Optically Transparent UWB MIMO Antenna System: A Method And Device Thereof	15/3/2021	Dr. S. Radha, Dr. Gulam Nabi Alsath, Dr. Kirubaveni	202141010975	Published
3	A System, Device and Method for Plant Disease Detection and Alert.	13/11/2020	Dr. S. Radha, Dr. R. Hemalatha	202041047647	Published
4	Multifunctional sensors for the detection of toxic gases and pipeline leakages in the sewage system	13/11/2020	Dr. S. Radha, Dr. S. Kirubaveni	202041047648	Published
5	One Stretch Micromachining of Microfluidic Chip with Microchannels and Micro-holes using Ultrashort Laser	13/11/2020	Dr. S. Radha, Dr. B. S. Sreeja	202041047649	Published
6	Optically Transparent Multiband Antenna: A Method & Device Thereof	13/03/2020	Dr Gulam Nabi Alsath	202041009264	Granted on 02/11/2020. Patent No.:350627
7	Beam Steerable Antenna: A method and device thereof	30/12/2019	Dr Gulam Nabi Alsath	201941054575	Published
8	Directional UWB Antenna: A Method and Device Thereof	27/12/2019	Dr Gulam Nabi Alsath	201941054091	Published
9	Flexible Wearable Sensor for Wireless Screening of Obstructive Sleep Apnea	26.11.2019	Dr Esther Florence S	201941048258	Filed
10	Ultra-Wideband (UWB)	20.08.2019	Dr Gulam Nabi Alsath Dr	201941033454	Published

	Reconfigurable Filtering Antenna: A Method & Device Thereof		Kirubaveni		
11	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	Filed
12	Multiband Reconfigurable Microwave Filter	24.02.2018	Dr Gulam Nabi Alsath	US 10333225/2019	Granted on 25.06.2019
13	Multiband Pattern Reconfigurable Antenna: A Method and Device Thereof	05.08.2019	Dr Gulam Nabi Alsath	201941031648	Published
14	Multiband Folded Antenna for Tablet Computers	15.10.2018	Dr Gulam Nabi Alsath	201841039028A	Published
15	Hidden Markov model-based sign language to speech conversion system in Tamil	11.10.2018	Dr. P. Vijayalakshmi N. Naren Raju, Aishwarya V	201841038594	Filed
16	A method of fabricating micro features in NbN superconductor using ns-pulsed laser	12.09.2018	Dr.B.S.Sreeja, Dr.S.Radha,	201841030305/CHE/2018.	Published
17	Quantifying Cholesterol Level in Human Serum using Laser Induced Breakdown Spectroscopy	21.09.2018	Dr.S.Radha, Dr.B.S.Sreeja	201841030310/CHE/2018	Published
18	Tunable Band Notched Filter	15.06.2018	Dr. M. Gulam Nabi Alsath, Dr. S. Ramprabhu	201841021702	Filed
19	Multiband MIMO antenna for tablet application	11.01.2018	Dr. M. Gulam Nabi Alsath, Dr. S. Ramprabhu	201841001232	Published
20	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	Published
21	A Method To Achieve Compound Reconfiguration In Microstrip Filters And The Device Thereof	21.08.2017	Dr Gulam Nabi Alsath, Dr. S. Ramprabhu	201741029509	Published

22	Planar Microwave Sensor For Fracture Detection In Human Bones	21.08.2017	Dr Esther Florence S	201741029503	Filed
23	Compound Reconfigurable Antenna Array	09.08.2017	Dr Gulam Nabi Alsath	201741028261	Published
24	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	Published
25	Polarization Independent Reconfigurable 3-D Frequency Selective Surface and method thereof	22.09.2016	Dr. S. Ramprabhu	201641032341	Filed
26	Novel 3T head actuation mechanism with low actuation voltage for bistable switching mechanism	07.04.2016	Dr.B.S.Sreeja, Dr.S.Radha,	201641012220	Published
27	Compact Mushroom Shaped Multiband Antenna with slot loaded elliptical Microstrip and improved Performance	08.07.2016	Dr.B.S.Sreeja, Dr.S.Radha,	201641023407	Granted on 26-06-2020
28	Shared Aperture Multi-service Antenna for Automotive Communications	9.12.2015	Dr. Gulam Nabi Alsath	6413/CHE/2014	Published
29	Method And Apparatus For Non-Destructive Testing Of Composites Using Planar Sensor	6.10.2015	Dr Esther Florence S	5338/CHE/2015 A	Filed
30	A Method and device for a passive Reconfigurable Frequency Selective Surface	19.10.2015	Dr. S. Ramprabhu	5621/CHE/2015	Filed
31	A Device and Method to Fabricate Ultra-wideband Microstrip Grid Array Antenna (GAA)	6.10.2015	Dr. Gulam Nabi Alsath	5337/CHE/2015	Published
32	A UHF RFID Reader Antenna Integrated	6.10.2015	Dr. Gulam Nabi Alsath	5336/CHE/2015	Granted. Patent No.:

	With Near Field And Farfield Operations				322861: Date: 25.09.2019
33	Novel fully integrated multi-layer woven electro-textile patch antenna	19.10.2015	Dr Esther Florence S	5620/CHE/2015	Granted
34	Mutual coupling reduction in MIMO Antenna with serpentine type structure resonator	30.05.2014	Dr.Gulam Nabi Alsath,	2660/CHE/2014	Published
35	Dual band notched dielectric resonator reflect array for C/X band	4.04.2012	Dr.Gulam Nabi Alsath	1374/CHE/2012	Granted on 12/03/2020. Patent No.: 334492