



Dr. D. Y. Patil Group of Institutions' Technical Campus
Dr. D. Y. PATIL SCHOOL OF ENGINEERING
Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412105.
Department of Electronics and Telecommunication Engineering

7. Research

RESEARCH ACTIVITY

Sr. No.	Research Activities	Total
1.	Research Project by faculty	5
2.	Paper Publication (International Journal and conference)	56
3.	Patent Filing of Students	06
4.	Internship done by student	02
5.	PhD completed by Staff	3
6.	Industrial Visit	2

RESEARCH PROJECT BY FACULTY:

Sr. No	Title of research	Name of PI	Name of CO-PI	Proposal No.	Sanctioned Amount (Rs.)	Year	Funding Agency
1	Design and implementation of high speed signed digit adder	Dr. S. S. Sonavane	Prof. Varsha Murgao	11ENG000642	2,20,000	2012-2014	RPS SPPU
2	K-complex Detection for EEG Signals	Prof. Bahubali Shiragapur	Prof. Vijaylaxmi Jain	11ENG000962	3,00,000	2012-2014	RPS SPPU
3	Performance measure of Circuit with proposed High Speed Devices	Prof. Rashmi Mahajan	Prof. Bahubali Shiragapur	11ENG000981	3,00,000	2012-2014	RPS SPPU
4	Spring (Strategic planning for water resources and implementation of novel biotechnical treatment solutions and global practices)	Dr. Saniya Ansari	Dr. S M Khairnar		9957000	2019-2022	EU & DBT
5	Performance enhancement	Prof. Rashmi	-	15ENG002545	1,40,000	2016-2018	BCUD SPPU

	ent of AES algorithm using dynamic partial reconfiguration	Mahajan					
Total Amount					1,09,17,000/-		
(Rs.)							

INTERNSHIP DATA:

Sr. no.	Title of the Course	Name of the partnering institution/ Industry/ research lab with contact details	Year of commencement	Duration (From – To)	Nature of course
1	Industrial Training for three weeks	BSNL	AY17-18	18/12/2017 to 05/01/2018	
2	Application of Electronics in injection molding tools and SPM's	TATA Motors	AY 16-17	20/06/2016 to 20/07/2016	

PATENT FILING BY STUDENTS

Paten-1:

Patent: Rescue System For Borewell Accidents

Patent No. : 201821010984

Status: Filed

Names: Dr. Ajeenkya D Y Patil Dr. S. S. Sonavane Pratik D. Shah

Paten-2:

Patent: Automatic baby cradle system

Patent No. : 201821010987

Status: Filed

**Student Names: Dr. Santosh S. Sonavane, Dr. S. M Ansari Kushal Mandge Pratik Shah
Gaurav Tiwari Vinod Kumar Pundir Pratik Gawande Harsha Tanti Shivam Gupta**

Paten-3:

Patent: Voice based personal Assistant

Patent No. : 201821010985

Status: Filed

**Student Names: Dr. Santosh S. Sonavane Dr. S. M Ansari Nishikant Surwade Praful Shinde
Vaishali Ramchandran Pradnya Chikane R. Manikandan Sohan Madalli Vishal Pandita**

Paten-4:

Patent: Brain Computer Interface

Patent No. : 201821010986

Status: Filed

**Student Names: Dr. Santosh S. Sonavane Dr. S. M Ansari Riyaj Kazi Sameer Datkhore
Swati Khawate Kundan Saraf Sumit Pathak Rohit Kadam Avinash Kumar**

Patent-5:

Patent: IoT based human intrusion detection system

Patent No. : 201821010988

Status: Filed

**Student Names: Dr. Santosh S. Sonavane Dr. S. M Ansari Manish Patel Parekar Abhinay
Thosar Aashutosh Palande Dileep Samrat Kamble Saurabh Rahatekar Piyush Marathe**

Patent-6:

Patent: Boiling milk detector

Patent No. : 201821010989

Status: Filed

**Student Names: Dr. Santosh S. Sonavane Dr. S. M Ansari Dr. S. M. Koli Rahul Bhivare Rashmi
Mahajan Suraj Sanjay Mali Akshay Dattatray Pawar Venkatesh Kalidas Kulkarni Heeralal
Kumar Sah**