

EC DEPARTMENT FACULTY ACHIEVEMENT

Faculty Achievement : Patent/Industrial Design

Sr No	Title	Branch	Innovator Name	Status	Date of filing	Date of Approval	Filing Number	IP Type
1	DEVICE FOR COLLECTING SCATTERED OBJECTS ON GROUND AND METHOD THEREOF	EC	Krishna Raval Dr M S Prajapati	Published	8-6-2023	under process	202321039324	Patent
2	POWER SWITCHING CONTROL SYSTEM	EC	Krishna Raval Dr M S Prajapati	Filed	15-6-2023	under process	202321040808	Patent
3	IOT ENABLED WALKING STICK FOR BLINDS	ELECTRICAL	Yashvi Shah Brijesh Patel Falguni Patel Dr Mitchell Prajapati	Approved	23-6-2023	23-8-2023	388943-001	ID
4	WALL MOUNTABLE SOLAR TRACKER	EC	Krishna Raval Dr M S Prajapati	Approved	30-6-2023	4-9-2023	389353-001	ID
5	BOTTELE WITH MAGNETIC CAP	ELECTRICAL	Yashvi Shah S K Raval Dr M S Prajapati	Approved	10-10-2023	8-12-2023	397195-001	ID
6	LIQUID FLUORESCENT BASED ADVERTISING BOARD	ELECTRICAL,EC	Yashvi Shah Krishna Raval M S Prajapati	Approved	10-10-2023	21-12-23	397199-001	ID
7	COLD WATER VENDING MACHINE	EC/ELECTRICAL	Krishna Raval Pushkar V Patel Dr M S Prajapati	Approved	10-10-2023	27-12-23	397223-001	ID

Sr No	Title	Branch	Innovator Name	Status	Date of filing	Date of Approval	Filing Number	IP Type
8	'WIRELESS CLOUD BASED VEHICLE WEIGHMENT SYSTEM AND METHOD OF WEIGHING THEREOF'	MECHANICAL,EC	Saumya Vakhariya Dr M S Prajapati Samir Raval	Filied	27-10-2023	under process	E-12/4263/2023/MUM	Patent
9	SMART NECK BAND FOR ANIMAL TRACKING	EC	Krishna raval, Dr M S Prajapati	Filied	5-2-2024	under process	406612-001	ID
10	OBJECT DISINFECTANT DEVICE	Civil	Rudraksh Dr Shriji Gandhi; Dr M S Prajapati	Filied	11-3-2024	under process	410096-001	ID



ORIGINAL
क्रम सं/ Serial No. : 142405



पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India
डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 388943-001
तारीख / Date : 23/06/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **IOT ENABLED WALKING STICK FOR BLINDS** से संबंधित है, का पंजीकरण, श्रेणी 03-03 में 1.Government Polytechnic, Ahmedabad 2. Yashvi Shah 3.Brijesh Patel 4.Falguni Patel 5.Mitchell Prajapati के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 03-03 in respect of the application of such design to **IOT ENABLED WALKING STICK FOR BLINDS** in the name of 1. Government Polytechnic, Ahmedabad 2. Yashvi Shah 3.Brijesh Patel 4.Falguni Patel 5.Mitchell Prajapati.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



[Signature]
सहानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

जारी करने की तिथि : 23/06/2023
Date of Issue :

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देय का नाम। डिजाइन का स्वतंत्रिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निर्बंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।
The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

Faculty Achievement : Publication Details

Sr. no	Dept	Name of Faculty member	Name of Journal	Title of Publication	Year
1	EC	H D PANCHAL	International journal "Multimedia Tools and Applications" (SCOPUS, SCIE Indexed)	" Video tampering dataset development in temporal domain for video forgery authentication"	2020
2	EC	H D PANCHAL	International journal "Multimedia Systems" (SCOPUS, SCI Indexed)	" Multiple forgery detection in digital video based on inconsistency in video quality assessment attributes".	2023
3	EC	Dr M S Prajapati	Acta Geophys. 69, 323–333 (2021), Impact factor:1.395 (2019) (SCI indexed)	Prajapati, M., Rawat, A. & Sharma, S. Characterization of amplitude scintillation and distribution of positioning error for IRNSS/GPS/SBAS receiver.	2021
4	EC	Dr M S Prajapati	IETE Journal of Research, Impact factor: 1.125 (2020) (SCI indexed)	Mitchell Prajapati, Abhishek Rawat & Divyash Kumbhani (2021) Analysis of Amplitude Scintillation and Positioning Error of IRNSS/GPS/SBAS Receiver for Heavy Rainy Days.	2021
5	EC	Dr M S Prajapati	Lecture Notes in Electrical Engineering book series (LNEE, volume 556), Page No. 65-72 (SCOPUS indexed)	Performance Analysis of Triband Elliptical Patch Microstrip Antenna for GPS and Radar Application, Lecture Notes in Electrical Engineering book series (LNEE, volume 556), Page No. 65-72 (SCOPUS indexed)	2018
6	EC	Dr M S Prajapati	Lecture Notes in Electrical Engineering book series book series (LNEE, volume 556), Page No. 505-516 (SCOPUS indexed)	Analysis of Impact of Circular Cut on Microstrip Patch Antenna at 2.49 GHz for S Band Application,	2018
7	EC	Dr M S Prajapati	Acta Geophys. 68, 1223–1228 (2020). Impact factor: 1.395 (2019) (SCI indexed)	Prajapati, M., Rawat, A. Performance analysis of IRNSS using compact microstrip patch antenna for S band application.	2019

Faculty Achievement : Gold/Silver medals in MOOC Training

Sr. no	Dept	Name of Faculty member	Name of Training	Training Result achieved	Year
1	EC	J. S. Dhumale	Yoga & Positive Phycology for Managing Career and Life	80% (Top 1% - Silver Medal)	2023
2	EC	J. S. Dhumale	The Joy of Computing Using Python	94% (Top 1% - Gold Medal)	2022
3	EC	J. S. Dhumale	Introduction to Internet of Things	77% (Top 1% - Silver Medal)	2022
4	EC	J. S. Dhumale	Electronics Waste Management – Issue and Challenges	94% (Top 1% - Gold Medal)	2023
5	EC	J. A. Chauhan	Soft Skill	85% (Top 1% - Silver Medal)	2021
6	EC	J. A. Chauhan	The Joy of Computing Using Python	80% (Silver Medal)	2022
7	EC	A. P. Patel	Research Methodology	80% (Silver Medal)	2022
8	EC	A. P. Patel	Soft Skill	76% (Silver Medal)	2022
9	EC	M. P. Shah	The Joy of Computing Using Python	86% (Silver Medal)	2022

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22GE08S13040071

To
ASHA PINALKUMAR PATEL
6/A,ANKIT SOCIETY(INDEPENDANT PLOT)
OPP-SARVODAY -3,GHATLODIA
AHMEDABAD
GUJARAT - 380061
PH. NO :9925614157



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
ASHA PINALKUMAR PATEL
for successfully completing the course



Research Methodology

with a consolidated score of **86** %

Online Assignments	18.91/25	Proctored Exam	67.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **566**

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Apr 2022
(12 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No:NPTEL22GE08S13040071

To validate and check scores: <https://nptel.ac.in/noc>



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

DHUMALE JITENKUMAR ARUNBHAI

for successfully completing the course

Electronic Waste Management - Issues and Challenges

with a consolidated score of **94 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Feb 2023)

Roll No: NPTEL23CE25S34040263

Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SHAH MANSHI PRAVINKUMAR

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of **87 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Oct 2022)

Roll No: NPTEL22CS122S63520320

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21HS76S33050344

To
JANHVI ARVINDBHAI CHAUHAN
126 2ND FLOOR ANUPAM SHOPPING CENTRE B/S
RATHI HOSPITAL JODHPURGAM ROAD SATELLITE
AHMEDABAD
GUJARAT - 380015
PH. NO :9537648557



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
JANHVI ARVINDBHAI CHAUHAN
for successfully completing the course



Soft Skills

with a consolidated score of **85** %

Online Assignments	23.56/25	Proctored Exam	61.13/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7293**

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Jul-Oct 2021
(12 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL21HS76S33050344

To validate and check scores: <https://nptel.ac.in/noc>

Faculty Achievement : FDP conducted

Event Name	“Patent Drafting and Filing”
Venue	Gujarat Student Startup & Innovation Hub, Gujarat (iHub), KCG Campus, Navrangpura, Ahmedabad
Knowledge Partner	Gujarat Student Startup & Innovation Hub, Gujarat
From - to date	20-24 February 2023
Duration	5 days (1 week)
No of Participation	40
No of Experts	16
FDP Co-ordinator	Dr M S Prajapati

Event Name	“Patent Drafting, Filing and IP Commercialization”
Venue	Commissionerate of Technical Education, Gandhinagar
Knowledge Partner	Director of Technical Education
From - to date	11-16 November 2023
Duration	5 days (1 week)
No of Participation	29
No of Experts	14
FDP Co-ordinator	Dr M S Prajapati

FDP Photo 1



FDP Photo 2



FDP Photo 3



Faculty Achievement : Reviewer

Mr. Hitesh Panchal is working as a reviewer in a SCOPUS indexed International journal.

He has reviewed 11 papers till now.

Year :- 2024

As a part of PhD research work, an algorithm is developed by Hitesh D. Panchal under the guidance of Dr. Hitesh B. Shah, Prof. and Head, GCET Vallabh Vidyanagar, Anand, to detect tampered videos or deep fake videos. Video tampering, or deep fake, has become a growing concern in recent years due to its potential to spread disinformation, misrepresent the content, or create a false narrative.

The article about the research work was published in a local Gujarati newspaper on March 13, 2024.

ડીપફેક વીડિયો આઈડેન્ટિફિકેશન કરતું સોફ્ટવેર વિકસાવ્યું

જી.ટી.યુ.માં પીએચ.ડી કરતા હિતેશ પંચાલ દ્વારા તૈયાર કરાયેલા સોફ્ટવેરથી ભવિષ્યમાં સાયબર સુરક્ષા ક્ષેત્રે મદદ મળી રહેશે

આ જે સોશિયલ મીડિયાના સમયમાં ઘણા એવા વીડિયો વાયરલ થતા હોય છે, જેમાં વીડિયોમાં રહેલું કન્ટેન્ટ કેટલું સાચું છે તે એક પ્રશ્ન છે.

ઘણા એવા વીડિયો પણ હોય છે જે એડિટેડ હોય છે. આ પ્રકારના વીડિયોમાંથી અમુક વીડિયો ડિપ ફેક અથવા તો ટેમ્પરિંગ કરેલા હોય છે. આ પ્રકારના ડીપ ફેક વીડિયોની ઓળખ મેળવવા માટે જી.ટી.યુ.માં પીએચ.ડી.ના ભાગરૂપે હિતેશ પંચાલે 'ડીપફેક વીડિયો આઈડેન્ટિફિકેશન સોફ્ટવેર' તૈયાર કર્યું છે.

આ સોફ્ટવેર વિશે તેઓ કહે છે કે, 'આજના સમયમાં દરેક લોકો સોશિયલ મીડિયા પર પોતાની દરેક બાબત વીડિયો કે ફોટો દ્વારા શેર કરતાં હોય છે ત્યારે ઘણી વખત હેક્સ દ્વારા કોઈ સાચા વીડિયો સાથે છેડછાડ કરીને તેને ખોટી રીતે લોકો સુધી પહોંચાડવામાં આવતા હોય છે. જેને કારણે ઘણી વખત લોકોમાં ડર કે અફવા ફેલાય છે અથવા તો

કોઈને નુકસાન પહોંચે છે. આ પ્રકારના વીડિયોને ઓળખવા માટે મેં 'ડીપફેક વીડિયો આઈડેન્ટિફિકેશન સોફ્ટવેર' બનાવ્યું. આ સોફ્ટવેરમાં કોઈ પણ વીડિયોને અપલોડ કરવાથી તેમાં જો કોઈ એડિટિંગ કરાયું હોય તો તેની જાણકારી મળી શકે છે. આ સોફ્ટવેરની મદદથી એ પણ જાણી શકાય છે કે વીડિયોનું કઈ જગ્યાએ એડિટિંગ કરવામાં આવ્યું છે. ઉદાહરણ તરીકે એક વીડિયોમાં એક કાર હોય છે, જેમાં તે કોઈ જગ્યાએથી પસાર થાય છે પરંતુ તે જ કારને કોઈ બીજા વીડિયોમાં એડિટ કરીને તેમાં ઉપયોગ કરવામાં આવ્યો હોય તો આ બનાવટી વીડિયોને આ સોફ્ટવેર થકી તપાસવામાં આવે ત્યારે સાચી જાણકારી મેળવી શકાય છે કે વીડિયોમાં કઈ જગ્યાએ કેટલી સેકન્ડ કે મિનિટનું એડિટિંગ કરવામાં આવ્યું છે. આ સોફ્ટવેરની મદદથી વીડિયોની ફેમમાં ડિલીટ અથવા ટેમ્પરિંગ કરવામાં આવ્યું હોય તો તે પણ જાણી શકાય છે.

આ સોફ્ટવેરમાં વિવિધ પ્રકારનાં વીડિયો અપલોડ કરીને મેં ટેસ્ટિંગ કર્યું છે અને તેના સાચા પરિણામો મળ્યા છે.

Mrs . Mishel Prajapati has finished her PhD from Institute of Infrastructure, Technology, Research And Management in year 2022.

Phd Convocation



अनुक्रमांक/Enrollment Number : 173020000103

क्रम संख्या /Serial Number : 10863

अधोसंरचना प्रौद्योगिकी अनुसंधान एवं प्रबंध संस्थान, अहमदाबाद



शैक्षणिक परिषद् की अनुशंसा पर
श्रीमती मिशेल एस. प्रजापति
को एतद् द्वारा
विद्या वाचस्पति



की उपाधि प्रदान की जाती है ।

अभिषद् की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि
अवाप्ति हेतु बिनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा अपने शोध-प्रबंध के सफल पक्षपोषण के उपरांत
अहमदाबाद, भारतीय गणराज्य में आज बाईस सितम्बर दो हजार तेईस को दी गई है ।

Institute of Infrastructure Technology Research and Management, Ahmedabad

upon recommendation of the Academic Council
hereby confers the degree of

Doctor of Philosophy

on

Mrs. Mitchell S. Prajapati

who has fulfilled the requirements for the degree as prescribed under the
regulations and successfully defended the thesis entitled

Analysis of Indian Regional Navigation Satellite System based on positioning error and amplitude scintillation

Given this day, under the seal of the Institute at Ahmedabad in the

Republic of India, the Twenty Second day of September Two Thousand Twenty Three



188522

अध्यक्ष, शैक्षणिक परिषद्

Chairman, Academic Council

अध्यक्ष, शासी मंडल

Chairman, Board of Governors

कुलसचिव

Registrar