



CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Criteria 3

Research, Innovations and Extension

Metric 3.4.2	<p>The institution provides incentives to teachers who receive state, national and international recognition/awards</p> <ol style="list-style-type: none">1. Commendation and monetary incentive at a University function2. Commendation and medal at a University function3. Certificate of honor4. Announcement in the Newsletter / website
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Supporting Documents

1	E- copies of the letters of awards (Year : 2019-20)
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**Commendation and
monetary incentive at a
University function**

2019-20

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

Date: 6th January 2020

OFFICE ORDER

Appreciating the efforts of faculty members of Charotar University of Science and Technology (CHARUSAT), in cultivating a conducive research culture in the university, the following faculty members whose research work has been published in reputed journals, would be felicitated with **CHARUSAT Research paper award** and a cash prize on the Foundation day i.e. 28th January 2020.

List of Faculty Members Awarded / Rewarded with Monetary Incentive for Research Publication(s)

Sr. No.	Academic Year	Name of the Faculty Member	Department	Institute	Research paper Title	Amount Awarded
1	2019-20	Dr. Shweta Dabhi	PHYSICS	PDPIAS	The First Principle Calculation of Structural, Electronic, Magnetic, Elastic, Thermal and Lattice Dynamical Properties of Fully Compensated Ferrimagnetic Spin-Gapless Heusler Alloy Zr ₂ MnGa	3000
2	2019-20	Dr. Shweta Dabhi	PHYSICS	PDPIAS	Strain And Layer Modulated Electronic and Optical Properties of Low Dimensional Perovskite Methyammonium Lead Iodide: Implications to Solar Cells	7831
3	2019-20	Dr. Shweta Dabhi	PHYSICS	PDPIAS	Density Functional Study of Adsorption and Desorption Dynamics of Hydrogen in Zirconium Doped Aluminium Clusters	7229
4	2019-20	Dr. Rekha Chamanlal Akhani	CIPS	CIPS	Column Chromatography Free Purification of Recombinant α -Amylase from Bacillus licheniformis by Tagging with Hydrophobic Elastin Like Polypeptide	3000
5	2019-20	Dr. Rekha Chamanlal Akhani	CIPS	CIPS	Molecular and Biochemical Characterization of a Thermostable Keratinase from Bacillus Altitudinis RBDV1	4786
6	2019-20	Dr. Amit Ganatra	CE	CSPIT	A Known in Advance, What Ontologies to Integrate? For Effective Ontology Merging Using K-means Clustering	3000
7	2019-20	Mr. Ashwin Makwana	CE	CSPIT	A Better Approach to Ontology Integration using Clustering Through Global Similarity Measure	3000

8	2019-20	Dr. Chintan Bhatt	CE	CSPIT	Hybrid Group Recommendation Using Modified Termite Colony Algorithm: A Context Towards Big Data	3000
9	2019-20	Mr. Dippal israni	CE	CSPIT	Feature Descriptor Based Identity Retention and Tracking of Players Under Intense Occlusion in Soccer Videos	3000
10	2019-20	Mr. Dippal israni	CE	CSPIT	Identity Retention of Multiple Objects Under Extreme Occlusion Scenarios Using Feature Descriptors	3000
11	2019-20	Mr. Dippal israni	CE	CSPIT	An Efficient Satellite Image Super Resolution Technique for Shift-Variant Images Using Improved New Edge Directed Interpolation	3000
12	2019-20	Mr. Dippal israni	CE	CSPIT	High Speed Multi-channel Data Acquisition Technique for Efficient Hardware Utilization Using Quad Data Rate Approach	3000
13	2019-20	Mr. Nilesh Kumar Dubey	CE	CSPIT	A New Paradigm: Psychovisual Modulation to Project Movie in Theatre to Get Rid of Theatre Piracy	3000
14	2019-20	Dr. Vijay Panchal	CIVIL	CSPIT	Comparative Studies Between Indian Standard codes IS 802 (part 1/ sec 1):2015 and IS 802 (part 1/ sec 1):1995 Used for Overhead Transmission Line Towers	3000
15	2019-20	Mr. Alpesh Vala	EC	CSPIT	A Low-cost and Efficient Cloud Monitoring Camera System Design for Imaging Satellites	4782
16	2019-20	Mr. Alpesh Vala	EC	CSPIT	Highly Selective Bandpass Filter Using Substrate Integrated Waveguide Technology for FMCW radar application	3000
17	2019-20	Dr. Amit V. Patel	EC	CSPIT	Millimeter-wave TE ₀₁ –TE ₁₁ –HE ₁₁ Mode Converter Using Overmoded Circular Waveguide	3000
18	2019-20	Dr. Arpan H Desai	EC	CSPIT	High Gain Flexible CPW Fed Fractal Antenna for Bluetooth/WLAN/WPAN/WiMAX Applications	3000
19	2019-20	Dr. Arpan H Desai	EC	CSPIT	Transparent Dual Band Antenna with μ -Negative Material Loading for Smart Devices	3000
20	2019-20	Dr. Arpan H Desai	EC	CSPIT	Compact Wideband Transparent Antenna for 5G Communication Systems	3000
21	2019-20	Dr. Dharmendra V Chauhan	EC	CSPIT	Improved VBLAST MAP: A Novel Point-to-Point Symbol Detection Algorithm for MIMO Wireless Communication Systems	3000
22	2019-20	Dr. Falguni Raval	EC	CSPIT	Patch Antenna Array Using Paper as Substrate	3000
23	2019-20	Dr. Hiren K Mewada	EC	CSPIT	Concurrent Design of Active Contour for Image Segmentation Using Zynq ZC702	4750

24	2019-20	Dr. Kanwar Preet Kaur	EC	CSPIT	Dual-Band Compact Metamaterial-Inspired Absorber with Wide Incidence Angle and Polarization Insensitivity for GSM and ISM Band Applications	4048
25	2019-20	Dr. Kanwar Preet Kaur	EC	CSPIT	Performance Evaluation of Wide-Angle Ultrathin Microwave Metamaterial Absorber with Polarization Independence	3000
26	2019-20	Dr. Kanwar Preet Kaur	EC	CSPIT	Wide-angle and Polarisation-independent Triband Dual-Layer Microwave Metamaterial Absorber	4187
27	2019-20	Mr. Keyur Mahant	EC	CSPIT	Substrate Integrated Waveguide Based Dual-band Bandpass Filter Using Split Ring Resonator and Defected ground structure for SFCW Radar Applications	4306
28	2019-20	Dr. Rikikumar Hasmukhbhai Patel	EC	CSPIT	Design of Printed Monopole Antenna for Wireless Energy Meter and Smart Applications	3000
29	2019-20	Dr. Rikikumar Hasmukhbhai Patel	EC	CSPIT	An Electrically Small Antenna for Nearfield Biomedical Applications	3000
30	2019-20	Dr. Rikikumar Hasmukhbhai Patel	EC	CSPIT	Capacitive Couplings Compact Antenna for LTE/WiMAX/ WLAN Application	3000
31	2019-20	Dr. Rikikumar Hasmukhbhai Patel	EC	CSPIT	Planar Dual Band Electrically Small Antenna for Wireless Applications	3000
32	2019-20	Dr. Trushit Upadhyaya	EC	CSPIT	An Electrically Small Antenna Using Defected Ground Structure for RFID, GPS and IEEE 802.11 a/b/g/s Applications	3000
33	2019-20	Dr. Sagarkumar Patel	EC	CSPIT	Near Optimal Receive Antenna Selection Scheme for MIMO System Under Spatially Correlated Channel	3000
34	2019-20	Dr. Trushit Upadhyaya	EC	CSPIT	Wideband High Gain Fractal Antenna for Wireless Applications	3000
35	2019-20	Dr. Trushit Upadhyaya	EC	CSPIT	Electrically Small Inverted L Planar Patch Antenna for Wireless Application	3000
36	2019-20	Dr. Trushit Upadhyaya	EC	CSPIT	Wireless Sensor Network for Monitoring & Control of Environmental Factors Using Arduino	3000
37	2019-20	Mr. Upeshkumar Parbhubhai Patel	EC	CSPIT	Investigation on Radiation Characteristics of μ - Negative Material Array Loaded Planar Resonator	3000

38	2019-20	Mr. Upeshkumar Parbhubhai Patel	EC	CSPIT	Design and Analysis of Periodic Split Ring Resonator Array Inspired Defected Ground Plane Antenna	3000
39	2019-20	Mr. Jigar Sarda	EE	CSPIT	Optimal Active–Reactive Power Dispatch Considering Stochastic Behavior of Wind, Solar and Small-Hydro Generation	4426
40	2019-20	Dr. Kartik Pandya	EE	CSPIT	Optimal Coordination of Directional Overcurrent Relays Using Improved Mathematical Formulation	5618
41	2019-20	Dr. Kartik Pandya	EE	CSPIT	A Hybrid Improved Harmony Search Algorithm-Nonlinear Programming Approach for Optimal Coordination of Directional Overcurrent Relays Including Characteristic Selection	3000
42	2019-20	Dr. Nilaykumar Patel	EE	CSPIT	SSR Mitigation in Power System with Static Synchronous Series Compensator	3000
43	2019-20	Mr. Amitkumar J. Nayak	IT	CSPIT	Modeling Transport Layer Protocol Behaviour to Improve Data Center Network Performance	3000
44	2019-20	Mr. Nirav Bhatt	IT	CSPIT	A Survey on Issues of Data Stream Mining in Classification	3000
45	2019-20	Mr. Nirav Bhatt	IT	CSPIT	A Novel Hybrid Method for Time Series Forecasting Using Soft Computing Approach	3000
46	2019-20	Mr. Priteshkumar Prajapati	IT	CSPIT	Casper: Modification of Bitcoin Using Proof of Stake	3000
47	2019-20	Mr. Priteshkumar Prajapati	IT	CSPIT	Provable Data Possession Using Identity-Based Encryption	3000
48	2019-20	Mrs. Purvi Prajapati	IT	CSPIT	Survey and Evolution Study Focusing Comparative Analysis and Future Research Direction in the Field of Recommendation System Specific to Collaborative Filtering Approach	3000
49	2019-20	Ms. Radhika B. Patel	IT	CSPIT	P-TORA: A TORA Modification Under TCP E2E-NewReno Model	3000
50	2019-20	Mr. Vivek Ayar	ME	CSPIT	Enhancement of Mechanical Properties of AISi5Cu3 Aluminum Alloy Using TiB2 Reinforcements	3000
51	2019-20	Mr. Dipal Patel	ME	CSPIT	Predicting the Thermal Sensitivity of MR Damper Performance Based on Thermo-rheological Properties	4430

52	2019-20	Mr. Dipal Patel	ME	CSPIT	Testing and Evaluation of Linear Shear Mode Magnetorheological (MR) Damper Based on Rheological Properties of MR Fluid	3000
53	2019-20	Mr. Gaurang Patel	ME	CSPIT	Tribological and Physical Characterization of Citrus-Limetta Peel Reinforced Polyester Composites	3000
54	2019-20	Mr. Akshay L. Sonera	ME	CSPIT	Effect of Sputtering Pressure on Molybdenum Oxide Thin Films Prepared by RF Magnetron Sputtering	3000
55	2019-20	Mr. Dharmesh B. Chauhan	ME	CSPIT	Study the Effect of Nitrogen Flow Rate on Tribological Properties of Tantalum Nitride Based Coatings	3000
56	2019-20	Dr. Kamlesh Chauhan	ME	CSPIT	Synthesis And Studies of Titanium Based Films Deposited at Different Oxygen Flow Rates	3000
57	2019-20	Dr. Kamlesh V. Chauhan	ME	CSPIT	FEA Analysis of Zirconium Nitride Coatings Prepared by RF Magnetron Sputtering: CFD Approach	3000
58	2019-20	Dr. Kamlesh V. Chauhan	ME	CSPIT	Development and Analysis of Tantalum Nitride Coatings Prepared by DC Reactive Sputtering	3000
59	2019-20	Dr. Kamlesh V. Chauhan	ME	CSPIT	Assessment of Sputtered Chromium Oxide-Nitride Coatings	3000
60	2019-20	Mr. Nishant S. Makwana	ME	CSPIT	Tribological Characterization of TiN Coatings Prepared by Magnetron Sputtering	3000
61	2019-20	Dr. Kundan Patel	ME	CSPIT	Investigations on Drilling of Hemp/Glass Hybrid Composites	5274
62	2019-20	Mr. Sagar Chokshi	ME	CSPIT	Effect of Starin Rate on Tensile Strength of Natural Fiber Reinforced Polyester Composites	3000
63	2019-20	Mr. Sujal Dadhaniya	ME	CSPIT	Policy Norms and Proposed Ways to Achieve Goals of Indian Vehicle Emission Program	4620
64	2019-20	Dr. Sapna Patel	MTIN	MTIN	A Mixed Method Study on Utilization of Maternal Health Services and Barriers Among Women of Reproductive Age in Gujarat State- Pilot Study	3000
65	2019-20	Dr. Abhishek Dadhania	BIOTECH	PDPIAS	Magnetic Nanoparticle Supported Phosphotungstic Acid: An Efficient Catalyst for the Synthesis of Xanthene Derivatives	3000
66	2019-20	Dr. C K Sumesh	PHYSICS	PDPIAS	Investigation of Structural, Electrical and Optical Properties of SbXW1-XSe2 Single Crystals	5722
67	2019-20	Dr. C K Sumesh	PHYSICS	PDPIAS	An Approach for Scalable Production of Silver (Ag) Decorated WS2 Nanosheets	3180
68	2019-20	Dr. C K Sumesh	PHYSICS	PDPIAS	Effect of Doping on All TMC Vertical Heterointerfaces	3180

69	2019-20	Dr. C K Sumesh	PHYSICS	PDPIAS	Fabrication and Photoresponse of n-WS2/p-V0.25W0.75Se2 Van Der Waals Heterojunction	3000
70	2019-20	Dr. C K Sumesh	PHYSICS	PDPIAS	Two-Step Facile Preparation of MoS2·ZnO Nanocomposite as Efficient Photocatalyst for Methylene Blue (Dye) Degradation	5882
71	2019-20	Dr. Jimitkumar R. Patel	MATHS	PDPIAS	Ferrofluid Lubrication of a Double Layer Porous Rough Slider Bearing	3000
72	2019-20	Dr. Jimitkumar R. Patel	MATHS	PDPIAS	A Comparison of Magnetic Fluid Flow Models on the Behavior of a Ferrofluid Squeeze Film in Curved Rough Porous Circular Plates Considering Slip Velocity	3000
73	2019-20	Dr. Kaushal Patel	BIOTECH	PDPIAS	Electrospun ZnO Nanoparticles Doped Core–Sheath Nanofibers: Characterization and Antimicrobial Properties	5765
74	2019-20	Dr. Kaushal Patel	BIOTECH	PDPIAS	Methacrylate Copolymers and Their Composites with Nano-CdS: Synthesis, Characterization, Thermal Behavior and Antimicrobial Properties	3000
75	2019-20	Dr. Kinnari Parekh	KRADLE	PDPIAS	Effect of Size and Morphology on Stability and Thermal Conductivity of ZnO Nanofluid	4160
76	2019-20	Dr. Kinnari parekh	KRADLE	PDPIAS	The Effect of Magnetic Field on the Structure Formation in an Oil-Based Magnetic Fluid with Multicore Iron Oxide Nanoparticles	3000
77	2019-20	Dr. Kinnari Parekh	KRADLE	PDPIAS	Effect of Particle Concentration on Lubricating Properties of Magnetic Fluid	3000
78	2019-20	Dr. Kinnari Parekh	KRADLE	PDPIAS	Heating Efficiency Dependency on Size and Morphology of Magnetite Nanoparticles	3000
79	2019-20	Dr. Kinnari Parekh	KRADLE	PDPIAS	Defragmentation of lysozyme Derived Amyloid β Fibril Using Biocompatible Magnetic Fluid	5460
80	2019-20	Dr. Kinnari Parekh	KRADLE	PDPIAS	Design and Development of Large Radial Clearance Static and Dynamic Magnetic Fluid Seal	5067
81	2019-20	Dr. Manan Shah	PHYSICS	PDPIAS	Status of Quarkonia-Like Negative and Positive Parity States in a Relativistic Confinement Scheme	8331
82	2019-20	Dr. Mitesh Patel	BIOLOGY	PDPIAS	Low Cost and Efficient Hetero-Anthracene Based Small Organic Hole Transporting Materials for Solid State Photo Electrochemical Cells	4621
83	2019-20	Mr. Rajesh Savalia	MATHS	PDPIAS	p-Deformation of a General Class of Polynomials and its Properties	3000

84	2019-20	Dr Shweta Dabhi	PHYSICS	PDPIAS	Sensing Properties of Pristine Boron Nitride Nanostructures Towards Alkaloids: A First Principles Dispersion Corrected Study	7439
85	2019-20	Dr Shweta Dabhi	PHYSICS	PDPIAS	Hydrogen Evolution Reaction and Electronic Structure Calculation of Two Dimensional Bismuth and its Alloys	7229
86	2019-20	Dr. Amit A. Patel	RPCP	RPCP	Nanomedicine for Intranasal Delivery to Improve Brain Uptake	5078
87	2019-20	Dr. Avani Chokshi	RPCP	RPCP	Rational Discovery of Novel Squalene Synthase Inhibitors Through Pharmacophore Modelling	3000
88	2019-20	Mrs. Jagruti Brijesh Prajapati	RPCP	RPCP	Peyer'e Patch Targeting of Isradipine Loaded Solid Lipid Nanoparticles: It's Cellular Uptake Study	5200
89	2019-20	Dr. Umang Shah	RPCP	RPCP	In Silico Analysis and Molecular Docking Studies of Novel 6,7-Dihydropyrano [2,3-d] Pyrimidin-5-One Derivatives as Human Epidermal Growth Factor Receptor 2 (HER2) and Epidermal Growth Factor Receptor (EGFR) Inhibitors	3000
90	2019-20	Dr. Umang Shah	RPCP	RPCP	Molecular Docking, in-Silico ADMET Study and Development of 1,6-Dihydropyrimidine Derivative as Protein Tyrosine Phosphatase Inhibitor: An Approach to Design and Develop Antidiabetic Agents	4090
91	2019-20	Dr. Prakash V.	ARIP	ARIP	Global, Regional, and National Disability-Adjusted Life-years (DALYs) for 359 Diseases and Injuries and Healthy Life Expectancy (HALE) for 195 Countries and Territories, 1990–2017: A Systematic Analysis for the Global Burden of Disease Study 2017	15,000
92	2019-20	Dr. Prakash V.	ARIP	ARIP	Global, Regional, and National Incidence, Prevalence, and Years Lived with Disability for 354 Diseases and Injuries for 195 Countries and Territories, 1990–2017: A Systematic Analysis for the Global Burden of Disease Study 2017	
93	2019-20	Dr. Prakash V.	ARIP	ARIP	Global, Regional, and National Age-Sex-Specific Mortality and Life Expectancy, 1950–2017: A Systematic Analysis for the Global Burden of Disease Study 2017	

94	2019-20	Dr. Prakash V.	ARIP	ARIP	Measuring Performance on the Healthcare Access and Quality Index for 195 Countries and Territories and Selected Subnational Locations: A Systematic Analysis from the Global Burden of Disease Study 2016	
95	2019-20	Dr. Prakash V.	ARIP	ARIP	Global, Regional, and Country-Specific Lifetime Risks of Stroke, 1990 and 2016	
96	2019-20	Dr. Hiteshri Shastri	CIVIL	CSPIT	Future Urban Rainfall Projections Considering the Impacts of Climate Change and Urbanization with Statistical–Dynamical Integrated Approach	4090
97	2019-20	Dr. Jitendra M. Mistry	ME	CSPIT	Research Review of Diversified Reinforcement on Aluminum Metal Matrix Composites: Fabrication Processes and Mechanical Characterization	3000
98	2019-20	Dr. Pratik Shah	ME	CSPIT	Effect of Various Welding Parameters on Corrosion Behavior of Friction-Stir-Welded AA 7075-T651 Alloys	4040
99	2019-20	Dr. Neeraj Jain	AS	PDPIAS	TLR4 Polymorphisms and Expression in Solid Cancers	5716
100	2019-20	Dr. Neeraj Jain	AS	PDPIAS	Absence of Association Between TLR4 Thr399Ile Polymorphism and Cervical Cancer Susceptibility	3000
101	2019-20	Dr. Neeraj Jain	AS	PDPIAS	Absence of Toll-Like Receptor 9 Pro99Leu Polymorphism in Cervical Cancer	3000
102	2019-20	Mr. Urveshkumar Sunilkumar Soni	PHYSICS	PDPIAS	Magnetic Field Induced Birefringence in Magnetic Fluid	3000
103	2019-20	Dr. Gayatri Patel	RPCP	RPCP	Thermosensitive Nanohydrogel of 5-Fluorouracil for Head and Neck Cancer: Preparation, Characterization and Cytotoxicity Assay	7370
104	2019-20	Dr. Gayatri Patel	RPCP	RPCP	Recent Patents on Polymeric Electrospun Nanofibers and Their Applications in Drug Delivery	4475
105	2019-20	Mrs. Jagruti Brijesh Prajapati	RPCP	RPCP	Oral Bioavailability Enhancement of Agomelatine by Loading into Nanostructured Lipid Carriers: Peyer's Patch Targeting Approach	7471
106	2019-20	Dr. Nilay Solanki	RPCP	RPCP	Impact of Migraine on Patient's Quality of Life	3000
107	2019-20	Dr. Samir G. Patel	RPCP	RPCP	Development And Validation of Stability-Indicating RP-HPLC Method for the Determination of Potential Degradation Products of Difluprednate in Ophthalmic Emulsion.	3400

108	2019-20	Dr. Samir G. Patel	RPCP	RPCP	Development and Validation of Stability-Indicating Reverse-Phase High-Performance Liquid Chromatography Method for the Simultaneous Quantification of Potential Degradation Products of Regadenoson From its Parenteral Dosage Form	3000
109	2019-20	Dr. Samir G. Patel	RPCP	RPCP	Parametric Study on Effect of Corrosion Inhibitors for Improving the Durability of Reinforced Concrete (RC) Structures	5317
110	2019-20	Dr. Samir G. Patel	RPCP	RPCP	Degradation Kinetic Study of Difluprednate by using Validated Stability-Indicating Liquid Chromatographic Method	3000
111	2019-20	Mrs. Nehal Patel	IT	CSPIT	Smart Trash Monitoring and Segregation System Using Emerging Technology—A Survey	3000

6th January, 2020, Changa



D. P. Shah
Registrar

**Commendation and medal
at a University function**

2019-20

Faculty of Medical Sciences



Ashok & Rita Patel
Institute of Physiotherapy

ASHOK & RITA PATEL INSTITUTE OF PHYSIOTHERAPY

A Constituent Institute of

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Accredited with "Grade A" by NAAC, Bengaluru

(Formed under Gujarat State Act No. : 8 of 2009, and degrees conferred u/s 22 of UGC Act, 1956)



CHARUSAT

To.

Date: 25/02/2020

Dr. Sweni Shah.

Assistant Professor,

A.RIP.

Sub: Information regarding Appreciation Award.

Dear Mam,

This is to inform that you have been selected for the appreciation award for the following categories: ~~Academics~~ / Research / Administration for the 11th Annual Day function to be held on 29th February, 2020.

Your performance in the selected category is well appreciated.

Dr. M. Balaganapathy PT, PhD.

ASSOCIATE PROFESSOR & PRINCIPAL I/C
ASHOK & RITA PATEL INSTITUTE OF PHYSIOTHERAPY
CHARUSAT CAMPUS, CHANGA
AT. CHANGA - 388 421
TA. PETLAD, DIST. ANAND (GUJARAT)



To,

Date: 25/02/2020

Dr. Prakash V.

Assistant Professor,

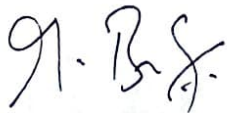
ARIP.

Sub: Information regarding Appreciation Award.

Dear Sir,

This is to inform that you have been selected for the appreciation award for the following categories: Academics / Research / Administration for the 11th Annual Day function to be held on 29th February, 2020.

Your performance in the selected category is well appreciated.



Dr. M. Balaganapathy PT, PhD.

ASSOCIATE PROFESSOR & PRINCIPAL I/C
ASHOK & RITA PATEL INSTITUTE OF PHYSIOTHERAPY
CHARUSAT CAMPUS, CHANGA
AT. CHANGA - 388 421
TA. PETLAD, DIST. ANAND (GUJARAT)



Faculty appreciation award for annual day 2020 – Excellence in Research

Dr Sweni Shah



Dr. V Prakash



Certificate of honor
2019-20

Date: 17/03/2019

Dear **Dr. V. R. Panchal**

Hearty Congratulations to you for **Member of NAAC peer team** by NAAC.

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. A. D. Patel
Principal, CSPIT



Date: 05/11/2019


Dear **Dr. V. R. Panchal**

Hearty Congratulations to you for **Appointment as Reviewer** by **Nirma University, Ahmedabad.**

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards


Dr. A. D. Patel
Principal, CSPIT



Date: 11/06/2019


Dear **Dr. V. R. Panchal**

Hearty Congratulations to you for receiving financial grant for organizing **STTP**
on Urban Transporatation Planning from **GUJCOST, Gandhinagar.**

Your achievement for which you had worked very hard is worthy of
appreciation.

I look forward to more such achievements by you in the future and wish you
success in your endeavors.

With regards


Dr. A. D. Patel
Principal, CSPIT



Date: 03/03/2020

Dear **Dr. Prabhin Sukumaran**

Hearty Congratulations to you for receiving **INSA Visiting Scientist 2020 fellowship** from **Indian National Science Academy, New Delhi.**

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. V. R. Panchal
Professor and Head
M. S. Patel Department of Civil Engineering



Date: 30/05/2020

Dear **Mr. Vipul H. Vyas**

Hearty Congratulations to you for Being a Topper of 2nd, 4th and 5th day of Quiz Competition "National level Faculty Development Programme" on "Research Methodology" by Padmashri V. B. Kolte College of Engineering.

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. V. R. Panchal
Professor and Head
M. S. Patel Department of Civil Engineering



Date: 06/05/2019

Dear **Mr. Ankit Wankawala**

Hearty Congratulations to you for **Appointment as Observer for the Conduct of NEET (UG)-2019 by National Testing Agency.**

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. V. R. Panchal
Professor and Head
M. S. Patel Department of Civil Engineering



Date: 15/09/2017

Dear **Mr. Gaurav Kapse**

Hearty Congratulations to you for **appointment as team member in Schedule-I Environment Audit team, CHARUSAT recognized by GPCB, Gandhinagar.**

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. V. R. Panchal
Professor and Head
M. S. Patel Department of Civil Engineering



Date: 27/01/2020

Dear **Mr. Gaurav Kapse**

Hearty Congratulations to you for participating in **UN plastic tide turner Challenge by UN-WWF-CEE.**

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. V. R. Panchal
Professor and Head
M. S. Patel Department of Civil Engineering

Date: 12/07/2020

Dear **Dr. Hiteshri K. Shastri**

Hearty Congratulations to you for participating in **UN plastic tide turner Challenge** by UN-WWF-CEE.

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. V. R. Panchal
Professor and Head
M. S. Patel Department of Civil Engineering



Date: 12/07/2019

Dear **Mr. Jay K. Bhavsar**

Hearty Congratulations to you on your achievement for carrying out **Material Testing Consultancy Work** by **ANAND, GIDC**.

Your achievement for which you had worked very hard is worthy of appreciation.

I look forward to more such achievements by you in the future and wish you success in your endeavors.

With regards



Dr. V. R. Panchal
Professor and Head
M. S. Patel Department of Civil Engineering





(Formed under Gujarat State Act No; 8 of 2009 and degrees conferred u/s 22 of UGC act, 1956)
(Accredited with Grade 'A' by NAAC, Bengaluru)



The CHARUSAT Research Paper Award

for the year 2018 is awarded on

28th January 2020 to

D. V. Chauhan, J. K. Bhalani and Y. N. Trivedi

for the paper entitled

Improved VBLAST MAP: A Novel Point-to-Point Symbol Detection Algorithm for MIMO
Wireless Communication Systems

published in
Radioelectronics and Communications Systems

[Signature]
Registrar

Faculty of Computer Science and Applications

Letter of Appreciation

This letter is awarded to **GOHIL LATA AMRITLAL, DHARMENDRA
TRIKAMLAL PATEL** to appreciate their research work published under the title “A
Sentiment Analysis of Gujarati Text using Gujarati Senti word Net”.

We hope that you will continue similar research work in future. We wish you best
of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,
Dean,

Faculty of Computer Science and Applications,
Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **GOHIL LATA AMRITLAL, DHARMENDRA**

TRIKAMLAL PATEL to appreciate their research work published under the title

“Multilabel Classification for Emotion Analysis of Multilingual Tweets“.

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,
Dean,

Faculty of Computer Science and Applications,
Charotar University of Science and Technology.



**SMT. CHANDABEN MOHANBHAI PATEL
INSTITUTE OF COMPUTER APPLICATION**

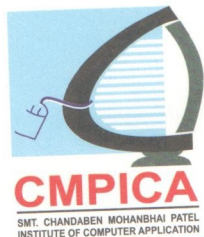
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CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY-CHARUSAT-CHANGA

At & Po. CHANGA - 388 421. Ta. Petlad, Dist. Anand

Phone : (02667) 248215, Fax : (02697) 247100

Website : www.charusat.ac.in - E-mail : cmpica@charusat.ac.in



Letter of Appreciation

This letter is awarded to **HARDIK ISHWARBHAI PATEL, CHIRAG
INDRAVADANBHAI PATEL, ARPIT RASESHKUMAR TRIVEDI** to appreciate
their research work published under the title "Assessment of Affecting Factors for
Higher Education Admission Process".

We hope that you will continue similar research work in future. We wish you best
of luck for the future.

Date: **30th November, 2020**


Dr. Atul Patel,
Dean,

Faculty of Computer Science and Applications,
Charotar University of Science and Technology.



**SMT. CHANDABEN MOHANBHAI PATEL
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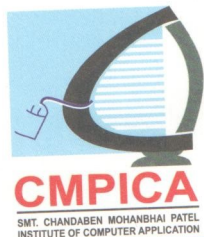
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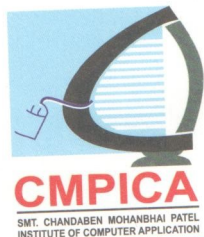
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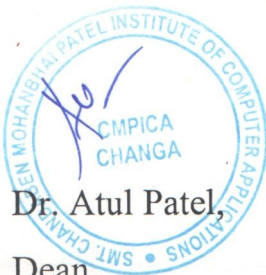
Letter of Appreciation

This letter is awarded to **PATEL ISHA VIJAYBHAI, SANSKRUTI VRIJLAL**

PATEL to appreciate their research work published under the title “Flower Identification and Classification using Computer Vision and Machine Learning Techniques“.

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,

Dean,

Faculty of Computer Science and Applications,

Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **GOHIL LATA AMRITLAL, DHARMENDRA
TRIKAMLAL PATEL** to appreciate their research work published under the title
“Affect Analysis of Multilingual Tweets for Predicting Voting Behavior“.

We hope that you will continue similar research work in future. We wish you best
of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,

Dean,

Faculty of Computer Science and Application,
Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **DHARMENDRA TRIKAMLAL PATEL, PRANAV
JYOTISHBHAI VYAS** to appreciate their research work published under the title
“Process Mining Based Software for Automated Business Process Discovery“.

We hope that you will continue similar research work in future. We wish you best
of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,

Dean,

Faculty of Computer Science and Applications,
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Dr. Atul Patel,

Dean,

Faculty of Computer Science and Applications,
Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **ABHILASH MAHESHKUMAR SHUKLA, ATUL MANUBHAI PATEL** to appreciate their research work published under the title "Bone Cancer Detection from X-Ray and MRI Images through Image Segmentation Techniques".

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



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Dr. Atul Patel,
Dean,

Faculty of Computer Science and Applications,
Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **PRANAV JYOTISHBHAI VYAS** to appreciate his research work published under the title “Modified Otway-Rees Protocol to Overcome Triple MAB Vulnerability”.

We hope that he will continue similar research work in future. We wish him best of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,

Dean,

Faculty of Computer Science and Applications,

Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **BOSAMIA MANSI PRAKASHBHAI, DHARMENDRA**

TRIKAMLAL PATEL to appreciate their research work published under the title

“Comparisons of Blockchain based Consensus Algorithms for Security Aspects“.

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



Faculty of Computer Science and Applications,

Charotar University of Science and Technology.



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INSTITUTE OF COMPUTER APPLICATION**

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Letter of Appreciation

This letter is awarded to **RACHANA SUNILKUMAR PATEL, SANSKRUTI**

VRIJLAL PATEL to appreciate their research work published under the title “A

Comprehensive Study of Applying Convolutional Neural Network for Computer Vision“.

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



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Dr. Atul Patel,

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Charotar University of Science and Technology.

Letter of Appreciation

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We hope that she will continue similar research work in future. We wish her best of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,
Dean,

Faculty of Computer Science and Applications,
Charotar University of Science and Technology.

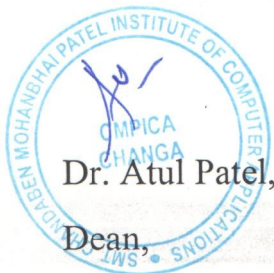
Letter of Appreciation

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PATEL to appreciate their research work published under the title "A Comparative Analysis of Applying Object Detection Models with Transfer Learning for Flower Species Detection and Classification".

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,
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Faculty of Computer Science and Applications,
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Quality Registrar



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Letter of Appreciation

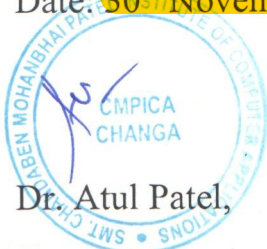
This letter is awarded to **NILAY PRAVINCHANDRA GANATRA, ATUL**

MANUBHAI PATEL to appreciate their research work published under the title

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We hope that you will continue similar research work in future. We wish you best
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Letter of Appreciation

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PATEL to appreciate their research work published under the title “An Optimized Deep Learning Model For Flower Classification Using NAS-FPN And Faster RCNN”.

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Date: **30th November, 2020**



Dr. Atul Patel,

Dean,

Faculty of Computer Science and Applications,

Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **BHARGAV RAJABABUSHIVJANARDANPRASAD**

VYAS, JEEGAR TRIVEDI to appreciate their research work published under the title "Review On Intelligent Law Based Working Systems".

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



Faculty of Computer Science and Applications,
Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **ABHILASH MAHESHKUMAR SHUKLA, ATUL MANUBHAI PATEL** to appreciate their research work published under the title “An Approach of Convolution Neural Network to Detect Cancer from Medical Radiology Images”.

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



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Dr. Atul Patel,

Dean,

Faculty of Computer Science and Applications,

Charotar University of Science and Technology.

Letter of Appreciation

This letter is awarded to **SANSKRUTI VRIJLAL PATEL** to appreciate her research work published under the title “Diabetic Retinopathy Detection and Classification using Pre-trained Convolutional Neural Networks“.

We hope that she will continue similar research work in future. We wish her best of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,

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Faculty of Computer Science and Applications,

Charotar University of Science and Technology.

Letter of Appreciation

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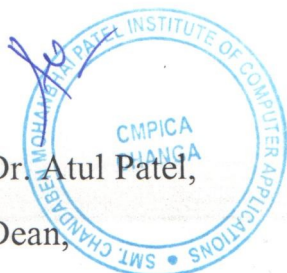
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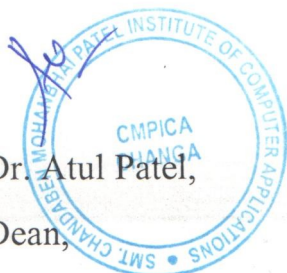
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Dr. Atul Patel,

Dean,

Faculty of Computer Science and Applications,

Charotar University of Science and Technology.



Letter of Appreciation

This letter is awarded to **BARAD HETAL HARSHADRAI, ATUL MANUBHAI**

PATEL to appreciate their research work published under the title “Application of Machine Learning and Deep Learning Methods for Brain Tumor Identification and Classification“.

We hope that you will continue similar research work in future. We wish you best of luck for the future.

Date: **30th November, 2020**



Dr. Atul Patel,
Dean,

Faculty of Computer Science and Applications,
Charotar University of Science and Technology.

Faculty of Management Studies



Indukaka Ipcowala Institute of Management

Letter of Appreciation

Awarded to

Ms. Kirti Makwana

Assistant Professor and Research Scholar

Indukaka Ipcowala Institute of Management (IIM), CHARUSAT, Changa, Gujarat

for a Research Paper Publication in

Journal of Management

(Established: 2010; Journal ID: 2010-0105; Total Volumes Published: 7; Issues: 19 with 276 Articles)

Indexed in

ELSEVIER

(Dutch publishing and analytics company specializing in scientific, technical, and medical content. Its products include many journals such as the Science Direct collection of electronic journals and the online citation database Scopus. It publishes more than 4,70,000 articles annually in 2,300 journals and its archives contain over 16 million documents and 30,000 e-books with a total yearly downloads exceeding 1 billion.)

Title of the Paper

A Study of Improving Hospital Out Patient Department (OPD) Using Queuing Network Analysis Methodology

Volume and Issue

6 (3), 2019, pp. 140-149

Prepared as an outcome of *International Collaborative Multidisciplinary Research Project on Operations Research in Healthcare* with PenCHORD, University of Exeter, Medical School, UK.

Principal Investigator of the Project and Co-Author of the Paper

Dr. Govind B Dave

Dean, Faculty of Management Studies (FMS)

Principal, Indukaka Ipcowala Institute of Management (IIM)

CHARUSAT, Changa, Gujarat

May you achieve more milestones in future!

THE PRINCIPAL, IIM AND DEAN, FMS



Indukaka Ipcowala Institute of Management

Letter of Appreciation

Awarded to

Mr. Binit Patel

Assistant Professor and Research Scholar

Indukaka Ipcowala Institute of Management (IIM), CHARUSAT, Changs, Gujarat
for a Research Paper Publication in

Journal of Management

(Established: 2010; Journal ID: 2010-0105; Total Volumes Published: 7; Issues: 19 with 276 Articles)

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Title of the Paper

**Operations Research Techniques and Its' Application in Healthcare Service Delivery
Decision Making: A Review of Evolution**

Volume and Issue

6(2), 2019, pp. 168-176

**Prepared as an outcome of International Collaborative Multidisciplinary Research Project on
Operations Research in Healthcare with PenCHORD, University of Exeter, Medical School, UK.**

Principal Investigator of the Project and Co-Author of the Paper

Dr. Govind B Dave

Dean, Faculty of Management Studies (FMS)
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CHARUSAT, Changs, Gujarat

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THE PRINCIPAL, IIM AND DEAN, FMS

Faculty of Medical Sciences



CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

Formed under Gujarat State Act No. : 8 of 2009

Accredited Grade A by NAAC

Date: 30 June 2020

To,

Dolly Sharma

Assistant professor/ Head of Department

Dept. of Medical Imaging Technology

CIPS

Subject: Appreciation for Quality work

Dear Dolly,

On behalf of the entire team of the Charusat family, I would like to express our sincere admiration for the amazing efforts put by you for the Improvement of the Scientific Articles. You have been active as the Editorial reviewer for the Journal of Clinical and Diagnostic Research (JCDR) and have reviewed 4 scientific articles in this academic year 2019-20.

We pride in your hard work and dedication to maintaining and reviewing the Quality of Research.

Thanks, and keep up the great work!

Sincerely,

Dr. Darshan Patel

Professor/ Principal

Charotar Institute of Paramedical Science

CHARUSAT University.



PRINCIPAL
CHAROTAR INSTITUTE OF PARAMEDICAL SCIENCES
CHARUSAT CAMPUS, CHANGA
AT. CHANGA - 388 421
TA. PETLAD, DIST. ANAND (GUJARAT)



CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

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Date: 10 September 2020

To, ..

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Thanks, and keep up the great work!

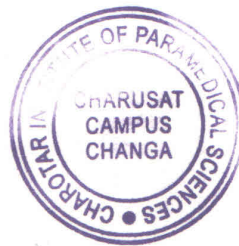
Sincerely,

Dr. Darshan Patel

Professor/ Principal

Charotar Institute of Paramedical Science

CHARUSAT University.



PRINCIPAL
CHAROTAR INSTITUTE OF PARAMEDICAL SCIENCES
CHARUSAT CAMPUS, CHANGA
AT. CHANGA - 388 421
TA. PETLAD, DIST. ANAND (GUJARAT)

**Announcement in the
Newsletter / website**

2019-20

Faculty of Medical Sciences

ચાર્સેટ યુનિવર્સિટી સંલગ્ન મણિકાકા ટોપાવાલા ઇન્સ્ટિટ્યૂટ ઓફ નર્સિંગની વિદ્યાર્થીનીઓએ ૬૦ કિશોરી પર કરાયેલા અભ્યાસમાં સફળતા મળી કિશોરીઓમાં લોહીની ઉણપને દૂર કરવા 'હેમોન્ટ્રી' અસરકારક

નવગુજરાત સમય > આણંદ

લોહીની ઉણપ એક આજકાલ મોટી સમસ્યા છે, એમાંય કિશોરીઓ મોટી સંખ્યામાં એનિમિયાથી પીડાય છે. મોટાભાગે લોકો શરીરમાં લોહીની ઉણપ વિશે અજાણ હોય છે, જેના કારણે લાંબાગાળે ઘણી બિમારીઓનો ભોગ બનવા સાથે શરીરમાં નબળાઈ આવી જતી હોય છે. જેથી કિશોરીઓમાં લોહીની ઉણપને દૂર કરી શકાય તે માટે ચાંગા સ્થિત ચાર્સેટ યુનિવર્સિટીમાં નર્સિંગનો અભ્યાસ કરતી વિદ્યાર્થીનીઓએ આયર્નથી સમૃદ્ધ એવી હેમોન્ટ્રી તૈયાર કરી છે. ડાયટિશિયનની મદદથી તૈયાર કરેલી હેમોન્ટ્રી લાડુડીનો ૬૦ કિશોરી પર અભ્યાસ કરાયો હતો. જેમાં હેમોન્ટ્રી લાડુડી લેનાર કિશોરીઓમાં હિમોગ્લોબીનનું સ્તર ૭.૬૬થી વધીને ૮.૨૫ થયું હતું.

ચાર્સેટ યુનિવર્સિટી સંલગ્ન મણિકાકા ટોપાવાલા ઇન્સ્ટિટ્યૂટ ઓફ નર્સિંગમાં અભ્યાસ કરતી વિદ્યાર્થીની નિષ્ઠા દેસાઈ, મીરાલી પટેલ, અર્પિતા પટેલ, ખ્યાતિ ચૌહાણ, પાયલ પારેખ અને શેલી સોનીએ જલ્પા પ્રજાપતિના માર્ગદર્શન હેઠળ આણંદ જિલ્લાની શાળાઓમાં અભ્યાસ કરતી વિદ્યાર્થીનીઓને હેમોન્ટ્રી લાડુડી આપ્યા બાદ હિમોગ્લોબીનના સ્તરમાં થયેલા

ફેરફાર વિશે સંશોધન કર્યું હતું. હેમોન્ટ્રીના સંશોધન વિશે મીરાલી પટેલે જણાવ્યું કે, કોલેજના કોમ્યુનિટી હેલ્થ પ્રોગ્રામ અંતર્ગત અમારે ઘણીવાર આસપાસના ગામની સ્કૂલમાં જવાનું થતું હતું. જ્યાં અમે જોયું કે સ્કૂલમાં આવતી ઘણી વિદ્યાર્થીનીઓ એનિમિક હતી. આજની કઠિન અને ઝડપી જીવનશૈલી તેમજ યોગ્ય પોષણક્ષમ આહારના અભાવે બાળકોમાં પોષણની ઉણપ જોવા મળે છે. બાળકો પણ જંકફૂડ ખાવાનું જ પસંદ કરે છે જેના કારણે આયર્નના અભાવથી એનિમિક રહે છે. ખાસ કરીને કિશોરીઓમાં લોહીની ઉણપથી તેમના વિકાસ પર વિપરીત અસર કરે છે. જેથી અમે વિદ્યાર્થીનીઓમાં લોહીની ઉણપ દૂર થઈ શકે તેના પર સંશોધન શરૂ કર્યું. જેમાં આયર્ન મળી રહે તેવી વસ્તુઓનો અભ્યાસ શરૂ કર્યો અને તેની ઉપલબ્ધતા વિશે ચકાસણી કરી. ત્યારબાદ ડાયટિશિયનની મદદ લઈને હેમોન્ટ્રીની લાડુડી તૈયાર કરી. જેમાં ગોળ, મધ, સોયા બીન, ખજૂર, મગફળી અને નાળિયેર પાવડર જેવા આયર્ન સમૃદ્ધ ઘટકોનો ઉપયોગ કરાયો. ૧૫૦ ગ્રામની હેમોન્ટ્રીની લાડુડી તૈયાર કરવામાં આવી જેમાંથી ૧૪.૧૬ મિલિગ્રામ આયર્ન મળી શકે.

હેમોન્ટ્રીની લાડુડી તૈયાર થઈ ગયા બાદ ૬૦ વિદ્યાર્થીનીઓ પર કરાયેલા સંશોધનમાં અમને સકારાત્મક પરિણામ મળ્યું.



એનિમિયા માટે આયર્નથી સમૃદ્ધ ઘટકોની લાડુડી બનાવ્યાં

લાડુડી ખાધા બાદ હિમોગ્લોબીન 7.66થી વધી 8.25 થયું

કિશોરીઓમાં હિમોગ્લોબીનની ઉણપને દૂર કરવા માટે તૈયાર કરાયેલી હેમોન્ટ્રી લાડુડીનો અભ્યાસ ૬૦ વિદ્યાર્થીની પર કરાયો હતો. જેમાં પાડગોલ, ચાંગા, બાંધણી, મહેળાવની શાળાઓમાં અભ્યાસ કરતી એનિમિયાના લક્ષણો ધરાવતી અને હિમોગ્લોબીન ઓછું હોય તેવી વિદ્યાર્થીનીઓનો સમાવેશ કરાયો હતો. ૬૦ વિદ્યાર્થીનીઓનું સૌપ્રથમ હિમોગ્લોબીન કેટલું છે તેની નોંધ કરવામાં આવી હતી. ત્યારબાદ તેઓના બે વૃથ પાડવામાં આવ્યા હતા. જેમાં એક વૃથની કિશોરીઓને દસ દિવસ સુધી હેમોન્ટ્રીની લાડુડી આપવામાં આવી હતી. બીજા વૃથની વિદ્યાર્થીનીઓને હેમોન્ટ્રી લાડુડી આપવામાં આવી ન હતી. દસ દિવસ બાદ બંને વૃથની વિદ્યાર્થીનીઓનું હિમોગ્લોબીન તપાસવા સાથે હેમોન્ટ્રીની અસર ચકાસતાં સકારાત્મક પરિણામ મળ્યું હતું. હેમોન્ટ્રી લાડુડીનું સેવન કરનાર વિદ્યાર્થીનીઓનું સરેરાશ હિમોગ્લોબીનનું સ્તર ૭.૬૬થી વધીને ૮.૨૫ થઈ ગયું હતું. આમ હેમોન્ટ્રીની લાડુડીથી લોહીની ઉણપને દૂર કરી શકાય છે.

નવગુજરાત સમય

Thu, 21 November 2019

<https://epaper.navgujaratsamay.com/c/45985816>



STUDENTS OF MANIKAKA TOPAWALA INSTITUTE OF NURSING AT CHARUSAT UNIVERSITY SUCCESSFULLY CONDUCTED A RESEARCH STUDY ON 60 ADOLESCENT GIRLS.

HAEMONUTRISHOTS FOUND EFFECTIVE IN DECREASING THE LEVEL OF ANEMIA AMONG ADOLESCENT GIRLS

Nowadays, Anemia is a major problem. A large number of adolescents suffering from anemia. Most people are unaware about anemia, for that reason students from the nursing department, Charusat University, Changa have developed an iron-rich haemonutri shots to help them overcome from the anemia in adolescents. Haemonutri Laddu was studied on 60 adolescents. In which, the level of hemoglobin increased from 7.66 to 8.25 in the adolescents who took Haemonutri Laddu. Nistha Desai, Mirali Patel, Arpita Patel, Khyati Chauhan, Payal Parekh and Shaili Soni, students of Manikaka Topawala Institute of Nursing affiliated to Charusat University under the guidance of Jalpa Prajapati had done the research to identify the changes in the level of haemoglobin after the administration of Haemonutri laddu among the adolescent girls studying in various schools of Anand district.

About this research study Mirali Patel said "Under the college's community health program, we often had to go to various schools in nearby village, where we saw that many of the students who came to the school were anemic. Today's hard and fast lifestyle as well as lack of proper nutritious diet has led to malnutrition in children. Children also prefer to eat junk food because of which iron deficiency occurs & it leads to anemia. Especially in adolescents girls the anemic state has a negative effect on their development. Due to this we the students started our research on how to overcome the deficiency of iron in blood. For this we studied about the ingredients rich in iron and tested their availability. Furthermore in consultation with a dietician we prepared Haemonutri Laddu that contained jaggery, honey, soya beans, dates, peanuts and coconut powder like iron rich items. 150 gm of Haemonutri Laddu was prepared, from which 14.15 mg of iron could be obtained.

The hemoglobin level increased from 7.66 to 8.25 after eating laddu. These included students with symptoms of anemia & low hemoglobin level. This study conducted in schools of Padgol, Changa, Bandhani and Mehla. Firstly the level of hemoglobin of 60 students were checked. They were then divided into two groups. In which one group of adolescents were given a laddu for ten days. The other group of students were not given Laddu. Ten days later the hemoglobin of the students in both groups was tested and the effect of Haemonutri Laddu was found to be positive. The average hemoglobin level of female students consuming Haemonutri Laddu was increased from 7.66 to 8.25. Thus, the deficiency of blood can be removed by the Haemonutri Laddu.



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