A.V.PAREKH TECHNICAL INSTITUTE , RAJKOT

Tech Chronicle

AVPTIans' Vision on Platter

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About Team

Co-ordinators

- R. D. Panchal (Electrical Dept.)
- A. K. Panchasara (Computer Dept.)

Editors

- D. S. Pathak (Computer Dept.)
- C.K. Vyas (Electrical Dept.)

Members

- R.B.Jani (E.C. Dept.)
- A.B.Bhatt (Bio-Medical Dept.)
- N. M. Khant (C.A.C.D.D.M. Dept.)
- R.M.Pathak (I.C. Dept.)
- G.B.Harnesha (General Dept.)
- C.C.Shah (Electrical Dept.)

Directorate of Technical Education
Gandhinagar - Gujarat

Vision

❧ To provide globally competitive technical education;

❧ Remove geographical imbalances and inconsistencies;

❧ Develop student friendly resources with a special focus on girls' education and support to weaker sections;

❧ Develop programs relevant to industry and create a vibrant pool of technical professionals.

A.V.PAREKH TECHNICAL INSTITUTE

Vision

"To cater skilled engineers having potential to convert global challenges into opportunities through embedded values and quality technical education."

Mission

A. V. Parekh Technical Institute is committed to

M1: Impart quality technical education and prepare diploma engineering professionals to meet the need of industries and society.

M2: Adopt latest tools and technologies for promoting systematic problem-solving skills to promote innovation and entrepreneurship.

M3: Emphasize individual development of students by inculcating moral, ethical and life skills.

A.V.PAREKH TECHNICAL INSTITUTE

About the Institute

Amrutlal Virpal Parekh Technical Institute, popularly known as AVPTI, was established in 1948 by a generous donor of that era Sheth Amrutlal Virpal Parekh. The courses like Wireless Telegraphy got introduced for the first time in this campus in the whole country. The institute has District Innovative Centre and SSIP Regional Centre for the Saurashtra and Kutch Region. The Institute shares its expertise with the engineers coming up with innovative ideas and upscales all the resources to convert their dreams into reality. Institute assists not only technically and financially but also supports the patent filing process. With all these consistent efforts and contribution, the institute has become an apple in the eyes of the society.

--- • ----NBA Accredited Courses --- • ----
• -- Computer Engineering -- • -- Electrical Engineering -- •
• -- Bio-Medical Engineering -- • –
• -- Computer Aided Costume Design & Dress Making -- •

Diploma Engineering Intake: Programme wise

Programmes	Sanctioned Intake
Biomedical Engineering	60
Computer Aided Costume Design & Dress Making	30
Computer Engineering	180
Electrical Engineering	150
Electronics & Communication Engineering	60
Instrumentation & Control Engineering	60
Information & Communication Technology	60
Renewable Energy Engineering	30

A.V.PAREKH TECHNICAL INSTITUTE

Message from Principal's Desk

"Winners don't do different things. They do things differently."

It is a matter of immense pleasure to roll out newsletter from one of the education pioneer institutes of Saurashtra Zone - AVPTI. In this newsletter prime activities of all the Departments of the Institute are highlighted.

The newsletter incorporates briefing of co-curricular and extra-curricular activities, executed in the past 6 months, like workshops, seminars, expert talks, industrial visits, SSIP programs, faculty development programs, articles on current trends and so on to equip the students as well as faculties to acquire the skills and expertise as per the demand of the current times.

I strongly believe that education is a collaborative effort that involves professional administrators, committed teachers and motivated students. We dedicate ourselves as professional administrators and academicians in creating a vibrant education Campus culture, empowering students on a global perspective!

A.V.PAREKH TECHNICAL INSTITUTE

SSIP Activities

On regular basis SSIP Cell - A.V.Parekh Technical Institute Rajkot & GTU Design Innovation Center Rajkot, Spoke have organized Seminars/Expert Talks/Webinars for Students and faculties of each Department.

Student learnt about various government grant related Startups, How to Select title for SSIP Project, how to prepare Presentation, PR filling etc.

Following are Details about Seminar/Webinar.

SSIP Cell - A. V. Parekh Technical Institute, Rajkot & GTU Design Innovation Centre, Rajkot Spoke organizes Seminar on,

Pitch Deck For Grants

With
Mr. Parth Sejpal
CEO,SU Start-up Council,Incubation Centre,Saurastra University

Friday, 17th February, at 11:30 AM IST

Co-coordinator	Coordinator	Patron
Shri. B. S. Bhatt	Shri. R. D Panchal	Shri.D.B.Vagadia
SSIP Coordinator	DIC Spoke Coordinator	Principal. AVPTI
Lect., EC Department	Lect. EE Department	DIC Spoke Head

SSIP Cell - A. V. Parekh Technical Institute, Rajkot & GTU Design Innovation Centre, Rajkot Spoke

Awareness Training Programme on "Lean/Waste Management for Operational Excellence"

Mr.Pranav Pandya
Project officer MSME
17 March-2023   11 am onwords

Register at,
bit.ly/AVPTI-Webinar

coordinator	Convener	Patron
Shri. B. S. Bhatt	Shri. R D Panchal	Shri.D.B.Vagadia
Lect., EC Department	lect. E.E.Dept.	Principal. AVPTI
		DIC Spoke Head

GTU Design Innovation Centre - AVPTI, Rajkot Spoke
SSIP Cell AVPTI
organizes Workshop on,

IPR filing for Enterpreneurs

With
Mr. Parth Sejpal
CEO-SU start-up and entrepreneurship Council, Saurastra Universityg

Saterday, 29th April, at 02:00 PM IST

Register at,
bit.ly/AVPTI-Webinar

Co-coordinator	Coordinator	Patron
Shri. B. S. Bhatt	Shri. R. D. Panchal	Shri. D. B. Vagadia
DIC Spoke Co-coordinator	DIC Spoke Coordinator	Principal. AVPTI
Lect., EC Department	Letterer EE Department	DIC Spoke Head

Visit : GTU Design Innovation Center ,Rajkot

On regular basis SSIP Cell - A.V.Parekh Technical Institute Rajkot & GTU Design Innovation Center Rajkot, Spoke have organized Seminars/Expert Talks/Webinars for Students and faculties of each Department.

The Students of Semester 4 Computer Engineering Department and Computer Department SSIP Coordinators Have Visited the GTU Design Innovation Center Rajkot on 16/03/2023.Guidance about Working of DIC , various tools and equipment provided to students.

Various startups shown to students by the founder and they also discussed their startup journey.

Following is glimpse of the visit.

Presentation for Grant Under SSIP

SSIP Cell AVPTI have organized Presentation of various department Students for Grant under SSIP Scheme on 04/03/2023.Two Teams of Computer Engineering Department semester - 6 and one pass out student of computer department have participated and gave presentation for their idea in front of various Industry and Academic Experts. Mentor of these students from computer department and department SSIP Coordinators were also present during the presentation.

Following are Details of teams.

Sr No.	Enrollment No.	Name	Title
1	206020307116	PANSURIYA UMANG JAYESHBHAI	Arobe
	206020307094	Parmar Shlock Anandbhai	
	206020307008	VISHVAM MOLIYA	
	206020307090	RAJPAL MEET SHANKARBHAI	
	206020307197	JOSHI KANDARP MEHULBHAI	
2	206020307045	MEHTA MAHEK KAMLESH	Foodix Application (What's in your Kitchen)
	206020307029	TRIVEDI SHREEYA CHETANBHAI	
	206020307050	CHAVDA VRUNDA NILESHBHAI	
	206020307066	VADHER SHILPA MAHESHBHAI	
	206020307064	Ponda Urvi Jayeshbhai	
3	176020307533	Makati Tirth	Viprach

Following is glimpse of students' presentation.

SSIP Cell AVPTI have organized Presentation of various department Students for Grant under SSIP Scheme on 01/05/2023.Two Teams of Computer Engineering Department semester - 4 have participated and gave presentation for their idea in front of various Industry and Academic Experts. Mentor of these students from computer department and department SSIP Coordinators were also present during the presentation.

Following are Details of teams.

Sr No.	Enrollment No.	Name	Title
1	216020307001	AMRANIA UMANG YOGESHBHAI	Aura House : A Smart Home Automation System
	216020307058	Vakharia Bhavarth Tusharbhai	
2	216020307078	Makwana Drashti Mukeshbhai	Human Identification with Face Recognition & Social Media Integration
	216020307079	Chhatrala Yatri Chetan	
	216020307080	Vasani Jenisa Kalubhai	

Following is glimpse of students' presentation.

Standard Writing Competition by BIS Standard Club

BIS is the National Standard Body of India established under the BIS Act 2016 for the harmonious development of the activities of standardization, marking and quality certification of goods and for matters connected therewith or incidental thereto. IS has been providing traceability and tangibility benefits to the national economy in a number of ways – providing safe reliable quality goods; minimizing health hazards to consumers; promoting exports and imports substitute; control over proliferation of varieties etc. through standardization, certification and testing.

A V Parekh Technical Institute in association with BIS organized Standard **Writing Competition** for students of A V Parekh Technical Institute.

The details of the event are as under.

- ➢ **DATE: - 27/6/2022 TUESDAY**
- ➢ **TIME: - 11:00 AM TO 3:30 PM**
- ➢ **VENUE: - Electrical Department Machine Lab**
- ➢ **EXPERT: - Mr. Rajesh Kumar Chaubey QC In charge at Intech Forge India Pvt. Ltd.**
- ➢ **Co Ordinator Prof. A D Marvaniya, Mrs. P V Ladani (Electrical Department)**
- ➢ **TOTAL PARTICIPANTS: - 40 students**

Session was started with welcome speech by Principal Shri Vagadiya sir. Brief introduction about BIS was given by the expert Mr. Rajesh Kumar Chaubey. Resource person had given a brief introduction regarding BIS and its activities, BIS Standard Club Roles & Responsibilities. Further the students were briefed about the standard formulation activity by citing example of several Indian Standards like Pressure Cooker, Electric Iron. He had nicely explained the standard format of Domestic pressure cooker. He had also given the utilization of the BIS official website & BIS Care mobile application to the students.

All dignitaries and Student who participated were provided with refreshments.

Standard writing competition was arranged in machine lab. 40 students participated formed group of 2. They were given the theme and rules and regulation for competition priorly. Copies were collected and were evaluated by BIS resource person BIS Club faculty member. Results were declared and were awarded with prize money

Sr. No.	Rank	Group Members	Reward (In Cash)
1	1st	Dabhi Viraj & Maru Rajendra	Rs. 1000/-
2	2nd	Bakraniya Viral & Chavda Jimil	Rs. 750/-
3	3rd	Vala Prajesh & Goswami Vaibhav	Rs. 500/-
4	4th	Nikunj Parmar & Dinesh Parmar	Rs. 250/-

ISTE PROJECT COMPETITION

ISTE Student Chapter, A.V. Parekh Technical institute organized a project competition for final year students. Students from final year have participated very enthusiastically. They worked on various technical problems and come up with innovative solutions.

- ➤ **DATE: - 6/5/2023**
- ➤ **TIME: - 11:00 AM onwards**
- ➤ **THEME: Recent Technical issues**
- ➤ **EVENT OUTCOME: To develop skill for solving recent technical issues.**
- ➤ **VENUE: - Electrical Engineering Department**
- ➤ **ORGANISERS: - ISTE STUDENT CHAPTER,**

  A.V. PAREKH TECHNICAL INSTITUTE
- ➤ **TOTAL TEAMS: - 18**
- ➤ **JUDGES: 1. Dr. Bhargav V. Vyas**

  AP, Electrical Engineering Department

  GEC Morbi

  2. Mr. Vishal Harsoda

  Lecturer, Electrical Engineering Department

  GP Rajkot

  3. Kalpesh Vyas

  Senior Engineer

  Adani Power Ltd.

PROJECT COMPETITION G-20

The theme of S20 for 2023 will be Disruptive Science for Innovative and Sustainable Development. Within this broad theme, the deliberations – to be held in different parts of India over the course of the year. focus on three sets of issues: Universal Holistic Health, Clean Energy for a Greener Future, and Connecting Science to Society and Culture. The consultations will also include an Inception meeting in Puducherry and a Summit meeting in Coimbatore. The Indian Institute of Science (IISc) will be the Secretariat for S20.

With its intellectual heritage and current prowess in science and engineering, combined with a tradition of innovation with sustainability, India now has an opportunity to become a leader in disruptive science for development. The S20 summit is emblematic of India's journey in forging a new path for advancement.

Gymkhana committee and Electrical engineering department had jointly organized a project competition as a part of G20 summit under engagement group U-20, S20 with theme of education and science and engineering. Projects were made by student considering various concepts of applied engineering for development that have been happening in round the globe.

DATE: 2/4/ 2023

THEME: Energy Conservation

VENUE: - Electrical Department, Machine Lab

EVENT CORDINATOR: - Ms. C C Shah **EVENT CO-CORDINATOR**: - Ms. D J Kapupara

Students of A V Parekh Technical Institute were given prior instruction for participation in project competition. They were allowed to form group maximum of 3 for making of project. Students prepared project within time limit. Competition was arranged in Electrical department, Machine lab. Projects were based on energy transition, green energy , optimum utilization of energy like DC pump , DC motor Fan, Enclosed heater for conserving more heat, siren and light based water level indicator, anti-theft system for home with less cost and many more. Principal sir, along with senior faculties visited competition and motivated students. Judges were nominated for evaluating working competency using project-based parameters. Dr. H H Bhatt, Prof G V Parmar and Prof R R Dudani evaluated projects for various parameters. 70 Students participated in competition. 33 different projects were displayed in competition.

Outcome of Event:

Students were able to demonstrate projects. They were able to communicate about the concept they selected for project.

ELECTRICAL ENGINEERING			
So No	Project	Name of Students	Rank
1	Law of Mutual Inductance	Parmar Abhishek, Solanki Taksheel, Parmar Yash	1st Rank
2	Faraday's Law of Electromagnetic Induction (Iron Core)	Dhey Bhut, Mavadiya Rutik	2nd Rank
3	Water Level Alarm	Jethva Meet, Limvasiya Henil, Chavda Parth	3rd Rank
3	Moisture detector	Hadiya Arpit, Mulasiya Paras, Kalsariya Yash	3rd Rank

Photographs of the event:

COMPUTER ENGINEERING

Angular 2.0 Workshop

May 16-17, 2023 10:30 PM to 5:30 PM

RESOURCE PERSONS:	**Prof. Samir Kariya** Assistant Professor, Computer Engineering, Marwadi university-Rajkot **Prof. Tejas Chauhan** Assistant Professor, Information Technology, Marwadi university-Rajkot
NO. OF STUDENTS PARTICIPANTS:	**64 Girl Students (ST, SC, OBC) of 4ᵗʰ Semester.**
TOPIC HIGHLIGHTS	**Angular 2.0 :** **Angular** is a TypeScript based, free and open-source web application framework led by the Angular Team at Google and by a community of individuals and corporations. Angular is used in creating active **Single Page Applications** (SPAs). Angular 2 is completely based on components. It consists of several components forming a tree structure with parent and child components. Angular is a part of revised curriculum of 4ᵗʰ semester. This workshop aimed to demonstrate the application of angular framework in web development.

EVENT OUTCOMES	Students were able to: ● Understand the necessity and benefits of using Angular framework in web development ● Understand the process and packages required for installation of angular framework and project structure, components, Modules and directives. ● Understand the component lifecycle hooks, views, view encapsulation, templates, decorators etc. ● Apply the concepts of data binding, interpolation, forms, routing, services in web development

COMPUTER ENGINEERING
"Workshop on Python Programming"

EVENT DATE & TIME:	17/03/2023 And 18/03/2023 11:00 to 05:00
EVENT TYPE:	Workshop
EVENT TITLE:	Workshop on Python Programming
EVENT VENUE:	Seminar Hall, Computer Department.
EVENT CO-ORDINATORS:	**V.J.Pambhar, R.A.Kadchha**

Expert	D P Mathukiya Mam lecturer ,K T Vakhariya Mam lecture ,P K Borkhataria sir lecturer
TOPIC HIGHLIGHTS	• Introduction of Python Programming, Basic Structure, Applications and Hands on Practice Session is arranged.
EVENT OUTCOMES	• Students are able to understand the importance of Python Programming in this modern programming age. • Students are also able to practice how basic programs can be made and run using python programming.

EC ENGINEERING

Quiz competition

The G-20 Summit focuses on strengthening multilateral economic relations among developed and developing countries of the world. The focus area is to ensure the revival and recovery of the global economy, work towards ensuring financial stability and strengthen pathways for achieving Sustainable Development Goals.

Gymkhana committee and Electronics & Communication engineering department had jointly organized a Quiz competition on G20 summit to make students aware about the historical background and objectives of G-20 Summit.

EVENT CORDINATOR: - Ms. K.V.Shingala

EVENT CO-CORDINATOR: - Mrs D M Kantaria

Brief description of event:

Registration form was circulated among students to participate in the quiz. Students were made to play quiz on G20 summit on myGOV portal. Total 16 students had submitted the registration form and 11 students had played the quiz. Faculties had encouraged students by explaining them the importance of G20 summit and motivating them to participate in such quizzes to increase awareness about global economics. After playing quiz, certificates were auto generated from the portal and students were given the first 3 ranks as per their performance.

Outcome of Event:
Students got aware about the history and about the objectives of G20 summit.
Award/ Certificate Details:

Rank	Student Name	Award/Certificate Name
1	Jadvani Takshan	Certificate of Participation
2	Gosai Krupangpuri Digneshpuri	Certificate of Participation
3	Jethwa Binal Piyushbhai	Certificate of Participation
3	Joshi Hemang Girishkumar	Certificate of Participation

IC ENGINEERING

Essay Competition on theme Environment & Sustainability

The G-20 Summit focuses on Strengthening multilateral relations and tourism activities among developed and developing nations of the world. Its focus is to develop relationship and cultural brotherhood between various nations and increase tourism activities to boost economy and help the culture to be spread across the world.

Gymkhana committee and Instrumentation & Control engineering department had jointly organized a Essay writing competition on theme Environment & Sustainability. The competition was aimed at encouraging research about vital issues effecting the environment as well as identifying children that are skilled at writing and are passionate about the environment, to motivate them and channel their influence into impacting social change.

EVENT CORDINATOR: - Priyal R Thummar

EVENT CO-CORDINATOR: - Ripal M. Pathak

Brief description of event:

A lot has been happening which has changed the environmental dynamics of the world and these can be documented in a fascinating fashion to spread environmental awareness. To create environmental awareness, amongst the future generation Instrumentation & Control Department organized the essay writing competition on theme Environment & Sustainability. 10 days before the event announcement has been made in the classroom and coordinator brief about event & encourage students to participate in the event.16 students of sem 5 enthusiastically participated in the event.1 hour is given the students to write essay. The main aim of the event was to increase awareness among students about how climate change affects the world, the importance of the environment, and the need to protect it. Winners of the competition were felicitated with certificates.

Outcome of Event:

It is a medium through which students can reach out to influence, engage the community to promote green environmental behavior. Students got aware about new environmental issues and the actions required mitigate them.

Winner of the competition

1st Rank	NandiniSolanki
2nd Rank	Chauhan Ankur
3rd Rank	Nisarg Dave

Photographs of the event:

WORKSHOPS/SEMINARS/WEBINARS
JANUARY 2023 – JULY 2023

Sr.No	Department	Date	Workshop / Seminar / Webinar Topic	No.of Students
1	COMPUTER	10/1/2023	CONSUMER AWARENESS AND CYBER SECURITY	46
2	COMPUTER	30/1/2023 TO 1/2/2023	MICROCHIP DEVELOPMENT WORKSHOP UNDER SSIP STARTUP	FINAL YEAR STUDENTS
3	COMPUTER	17/3/2023 TO 18/3/2023	Workshop on "Python programming"	35
4	COMPUTER	16/5/2023 TO 17/5/2023	WORKSHOP ON "WOMEN IN COMPUTING UNDER RUSA"	63
5	EC	18/01/2023	Entrepreneurship Awareness Programme	100
6	EC	2/2/2023 to 4/2/2023	Boot camp on Semiconductor Product Design	40
7	EC	7/2/2023 to 9/2/2023	Hands-on Workshop On IOT	50
8	EC	15/2/2023	Pitch Deck For Grants	30
9	EC	16/2/2023	Academic and industry Ecosystem	30
10	EC	17/2/2023	Pitch Deck For Grants Seminar	30
11	EC	17/3/2023	Awareness Training Programme on Lean/Waste Management for Operational Excellence	100
12	Electrical	9/2/2023	New Product Development	54
13	Electrical	27/2/2023	SOLAR PVshist Software	36
14	Electrical	17/5/2023	Mass mobilization for mission life by GPCB	66
15	Electrical	12/5/2023	Training on INDUSTRIAL AUTOMATION technology by Sofcon PVT LTD	128

Sr.No.	Name of Faculty	Name of the Department	Title of the Training	Start Date	End Date	Organized by
1	Krunalkumar H. Parmar	Biomedical	Outcome based pedagogy principle for effective teaching	20/02/2023	17/03/2023	NPTEL
2	Darshit C. Shreegod	Biomedical	Outcome based pedagogy principle for effective teaching	20/02/2023	17/03/2023	NPTEL
3	Atulkumar N. Kataria	Biomedical	Outcome based pedagogy principle for effective teaching	20/02/2023	17/03/2023	NPTEL
4	Anand B.Bhatt	Biomedical	Induction Phase-II	13/02/2023	24/02/2023	NITTTR
5	Viral V. Makwana	Biomedical	Blended Learning	30/01/2023	03/02/2023	NITTTR
6	A. D. MARVANIYA	Electrical	MOOC on " Leadership and Tean Effectiveness"	23/01/2023	14/04/2023	NPTEL
7	S. M. KANANI	Electrical	MOOC on " Leadership and Tean Effectiveness"	23/01/2023	14/04/2023	NPTEL
8	P.V.LADANI	Electrical	FDP on "Promoting Innovations and Entrepreneurship in Technical & Vocational Professionals"	30/01/2023	03/02/2023	NITTTR
9	P.V.LADANI	Electrical	MOOC on "The science of Happiness and Wellbeing"	20/02/2023	14/04/2023	NPTEL
10	P.V.LADANI	Electrical	MOOC on "Yoga and positive psychology for managing career and life"	20/02/2023	14/04/2023	NPTEL
11	C. C. SHAH	Electrical	Emotional Intelligence in Teaching and learning	16/01/2023	20/01/2023	NITTTR
12	C. C. SHAH	Electrical	MOOC on "The science of Happiness and Wellbeing"	20/02/2023	14/04/2023	NITTTR
13	C. C. SHAH	Electrical	MOOC on "Yoga and positive psychology for managing career and life"	20/02/2023	14/04/2023	NITTTR

14	D. J. KAPUPARA	Electrical	FDP on "Promoting Innovations and Entrepreneurship in Technical & Vocational Professionals"	30/01/2023	03/02/2023	NITTTR
15	D B DHOKIYA	Instrumentation & Control	JOY OF COMPUTING USING PYTHON	23-01-23	14-04-23	NPTEL
16	P R THUMAR	Instrumentation & Control	HUMAN BEHAVIOUR(MOOC BY NPTEL)	20-02-23	14-04-23	NPTEL
17	J N KOTHARI	Instrumentation & Control	HUMAN BEHAVIOUR(MOOC BY NPTEL)	20-02-23	14-04-23	NPTEL
18	J B Dave	Instrumentation & Control	Induction Phase-2	13-02-23	24-02-23	NITTR
19	R M Pathak	Instrumentation & Control	Induction Phase-2	13-02-23	24-02-23	NITTR
20	A V TALA	Instrumentation & Control	Induction Phase-2	13-02-23	24-02-23	NITTR
21	KATHIRIYA BHAVESHKUMAR BABUBHAI	EC	Effective Engineering Teaching in Practice (NPTEL ONLINE)	23/01/2023	17/02/2023	NPTEL
22	JIGNESH SHAMJIBHAI ASAL	EC	Hazard Communication in Industries and disaster management	02/01/2023	06/01/2023	NPTEL
23	JIGNESH SHAMJIBHAI ASAL	EC	Outcome Based Education	16/01/2023	20/01/2023	NPTEL
24	RINA B JANI	EC	Human behaviour (NPTEL ONLINE)	20/2/2023	17/4/2023	NPTEL
25	DALSANIA PIYUSHKUMAR CHANDULAL	EC	MOTIVATIONAL CLIMATE, WORK ETHICS, POSITIVE ATTITUDE & TIME MANAGEMENT (Online NITTTR-Bhopal)	30-01-2023	03-02-2023	NPTEL
26	DALSANIA PIYUSHKUMAR CHANDULAL	EC	Effective Engineering Teaching in Practice (NPTEL ONLINE)	23/01/2023	17/02/2023	NPTEL
27	RAVINDRA RATILAL DUDANI	EC	Effective Engineering Teaching in Practice (NPTEL ONLINE)	23/01/2023	17/02/2023	NPTEL
28	Bhagirath S Bhatt	EC	foundation of cloud IOT edge ML	20/02/2023	24/04/2023	NPTEL
29	N R RADADIYA	Computer Engineering	SOFT SKILL DEVELOPMENT	23-01-2023	17-03-2023	NPTEL
30	V J PAMBHAR	Computer Engineering	SOFT SKILL DEVELOPMENT	23-01-2023	17-03-2023	NPTEL
31	R A KADCHHA	Computer Engineering	SOFT SKILL DEVELOPMENT	23-01-2023	17-03-2023	NPTEL

| 32	H C SAVALIYA	Computer Engineering	Measuring Learning Outcomes of Engineering Curriculum	22-08-2022	26-08-2022	NITTTR, BHOPAL
33	H C SAVALIYA	Computer Engineering	Blended Learning	30-01-2023	02-03-2023	NITTTR, BHOPAL
34	PARVEZ K FARUKI	Computer Engineering	CONCEPT OF AI AND ML TOWARDS RESEARCH APPLICATIONS	16-01-2023	20-01-2023	LDCE, AHMEDABAD
35	N R TRIVEDI	Computer Engineering	PYTHON PROGRAMMING	19/09/2022	23/09/2022	NITTTR, BHOPAL
34	N R TRIVEDI	Computer Engineering	COMMUNICATION SKILLS MODES AND KNOWLEDGE DISSEMINATION	Jan - 2023	Mar - 2023	NITTTR, BHOPAL
35	A K PANCHASARA	Computer Engineering	RTI Act 2005	18-03-2023	18-03-2023	SPIPA
36	A K PANCHASARA	Computer Engineering	COMMUNICATION SKILLS MODES AND KNOWLEDGE DISSEMINATION	Jan - 2023	Mar - 2023	NITTTR, BHOPAL
37	S V RAMANI	Computer Engineering	ENTERPRENEURSHIP AND START-UP IN CONTEXT OF NEP-2020	19-06-2023	23-06-2023	NITTTR, BHOPAL
38	Y A HATHALIYA	Computer Engineering	ENTERPRENEURSHIP AND START-UP IN CONTEXT OF NEP-2020	19-06-2023	23-06-2023	NITTTR, BHOPAL
39	M K GOSWAMI	Computer Engineering	COMMUNICATION SKILLS MODES AND KNOWLEDGE DISSEMINATION	Jan - 2023	Mar - 2023	NITTTR, BHOPAL
40	N K SHUKLA	Computer Engineering	COMMUNICATION SKILLS MODES AND KNOWLEDGE DISSEMINATION	Jan - 2023	Mar - 2023	NITTTR, BHOPAL
41	Dr. N.B. Marsonia	Computer Aided Costume Design and Dress Making	Digital Video Development	13/03/2023	17/03/2023	NITTTR, BHOPAL
42	H G AGRAVAT	GENERAL	Promoting Innovations and Entrepreneurship in Technical and Vocational Professionals	30-01-2023	03-02-2023	NITTTR, BHOPAL
43	H G AGRAVAT	GENERAL	Training and Development	23-01-2023	14-04-2023	NPTEL

INDUSTRIAL VISITS
JANUARY 2023 – JULY 2023

Sr.No	Department	Date	Name of Industry/ Company	No. of Students
1	Instrumentation & Control	28/04/2023	Rajkot Dairy	38
2	Instrumentation & Control	29/04/2023	Center of Excellence @ GEC, Rajkot	17
3	Computer Engineering	20/01/2023	SUPER COMPUTER PARAM FACILITY AT GEC RAJKOT	17
4	Electrical Engineering	11/5/2023	Silver Pumps and Motors	48
5	Electrical Engineering	15/5/2023	440 KV GETCO substation Hadala	42
6	Electrical Engineering	17/5/2023	Cinema Lightning	15

Finishing School Training Programme

Finishing School Training Programme was conducted at the institute for 6th semester students of all disciplines. The programmed was organized from 13/02/2023 to 25/02/2023 . During the training programme total 80 hours training of Set-A & Set-C of Life & Employability Skills of Finishing School was given to students by the trainers from H Kumars Education Institute, Ahmedabad under the aegis of Knowledge Consortium of Gujarat, Ahmedabad. Total 93 students from Computer, I.C., E.C., Biomedical and Electrical branches received the training. Finishing School coordinator B.J.Dave, the entire team of departmental coordinators of Finishing School and K.V.Dave, along with the trainers, took great efforts to make the entire training programme beneficial to the students.

A.V. Parekh Technical Institute-Rajkot

75th ANNIVERSARY
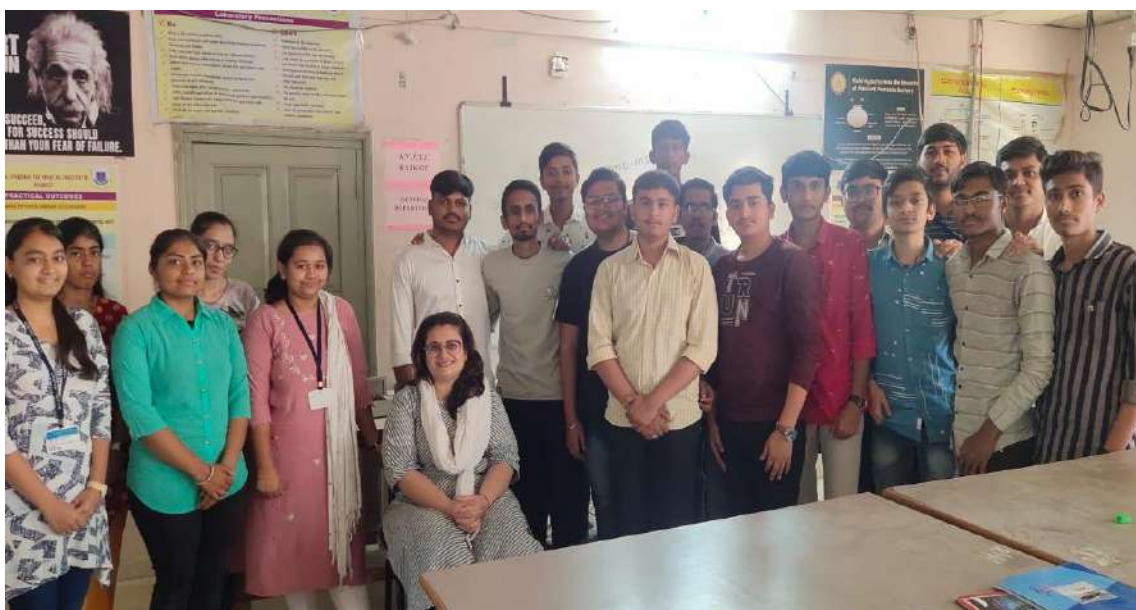
Congratulations

Winter 2022 5th Semester 10/10 SPI Scholars

VISHVAM MOLIYA
CE

CHAVDA VRUNDA
CE

PONDA URVI
CE

MEHTA MAHEK
CE

UMANG PANSURIYA
CE

KHUNT HENIL
ELECTRICAL
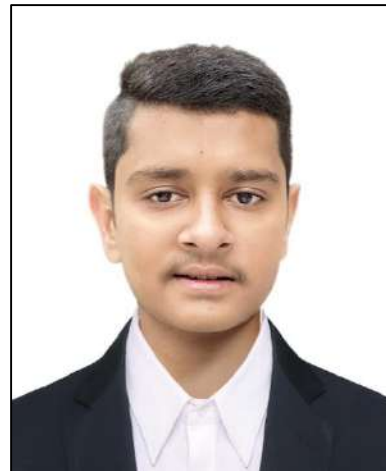
LALANI KRISH
CE

MAKVANA KASHISH
CE

HIMANSHI THAKKAR
CE

SHINTRE MANSI
CE

DEEP PADARIYA
IC

Sr.No	Department	Enrollment No	Full Name of Student	Compnay Name
1	Instrumentation & Control	186020317006	Chanpa Kiran N.	SRF Ltd. Dahej
2	Instrumentation & Control	206020317012	HADIYAL JAY BALVANTBHAI	SRF Ltd. Dahej
3	Instrumentation & Control	216020317501	CHAUHAN ANKUR NAGJIBHAI	SRF Ltd. Dahej
4	Instrumentation & Control	216020317503	PADARIYA DEEPKUMAR ASHOKKUMAR	Ultratech Cement Ltd.
5	Instrumentation & Control	206020317033	Chotaliya Raj Ashokbhai	RSPL Ltd. Dwarka
6	Instrumentation & Control	206020317015	Gohel Nirav Dharmesh	RSPL Ltd. Dwarka
7	Instrumentation & Control	206020317027	KANZARIYA PARITOSH NARSHIBHAI	DCM Shri Ram Ltd, Jhagadiya
8	Instrumentation & Control	206020317014	HADIYAL RAHUL ARAVIND BHAI	DCM Shri Ram Ltd, Jhagadiya
9	Instrumentation & Control	206020317028	PARMAR ROHITKUMAR MANJIBHAI	DCM Shri Ram Ltd, Jhagadiya
10	Instrumentation & Control	206020317021	Kanzariya Parth Parsotambhai	DCM Shri Ram Ltd, Jhagadiya
11	Instrumentation & Control	206020317020	SONGARA RAJESHBHAI JETHABHAI	DCM Shri Ram Ltd, Jhagadiya
12	Electrical	196020309113	Rathod Arun Kishorbhai	Yashi Electricals
13	Electrical	196020309517	Senjaliya Aelish	Mostli.Coctu
14	Electrical	196020309505	Chopda Chirag Bharatbhai	Shaktiman
15	Electrical	196020309029	Godavariya Frenchish P.	Aarohi Embedded System
16	Electrical	196020309513	Pansara Kishan Sudhirbhai	Yashi Electricals
17	Electrical	196020309003	Azab Shahnawaz Sajidbhai	Advantech System
18	Electrical	206020309504	Christian Parnil	Crompton Fan
19	Electrical	196020309019	Chhaya Jaydip	Innovsource Service Pvt Ltd (Adani Mundra Sez)
20	Electrical	196020309503	Bumtariya Hardik M	Aspent Tech

	STAFF'S TRAINING			
21	Electrical	206020309505	Balai Tejas Ukabhai	Aatomize
22	Electrical		Bharadva Rutvik	Manpower Group India Service Pvt.Ltd C/O Mundra Solar Pvt.Ltd
23	Electrical	176020309510	Dafda Rohan Harshadbhai	L.G.
24	Electrical	196020309101	Pathan Sohelkhan Asgarkhan	Flora Construction
25	Electrical		Jotva Nirmal B	Aravali Technical Servisec Pvt.Ltd
26	Electrical	196020309046	Jethva Dhaval Rajeshbhai	Arcelor Mittal Nippon Steel(Essar)/Ldce Ahmedabad
27	Electrical	196020309049	Jogal Karan Dharnat Bhai	Torrent Power
28	Electrical	196020309055	Khandhar Harsh Dipakbhai	Arcelor Mittal Nippon Steel(Essar)
29	Electrical	196020309067	Lotiya Deep Pareshbhai	Arcelor Mittal Nippon Steel(Essar)
30	Electrical	196020309087	Pandya Preet Prakash Bhai	Torrent Power
31	Electrical	196020309091	Parmar Kishan Kanabhai	Tds Lithium-Iron Battery Gujarat Pvt.Ltd
32	Electrical	196020309094	Parmar Paraskumar R	Subros Ltd
33	Electrical	196020309125	Solanki Hardik M	Tata Motors Pvt Ltd

RESEARCH PAPERS PUBLICATIONS
JANUARY 2023 – JULY 2023

COMPUTER ENGINEERING

Sr No.	Faculty Name	Publication Title	Journal/Conference Details	Publication Year
1	Dr. Parvez K. Faruki	Dense spatially-weighted attentive residual-haze network for image dehazing	Springer US, Volume 52, Issue 12, Pages 13855-13869	2022
2	Dr. Parvez K. Faruki	Congestion control in Internet of Things: Classification, challenges, and future directions	Elsevier, Sustainable Computing: Informatics and Systems, Volume 35 , Pages 100678	2022
3	Dr. Parvez K. Faruki	FloVasion: towards detection of non-sensitive variable based evasive information-flow in android apps	IETE Journal of Research, Volume 68 , Issue 4, Pages 2580-2594	2022
4	S.V. Ramani	SDN Framework for Mitigating Time-based Delay Attack	Journal of Circuits, Systems, and Computers, World Scientific, 31:15 (2250264-1 - 2250264-24)	2022
5	S.V. Ramani	Machine learning in SDN networks for secure industrial cyber physical systems: a case of detecting link flooding attack	International Journal of Engineering Systems Modelling and Simulation 13.1(76-84)	2022
6	D. S. Pathak	Sanchay: A Literary Dataset of Indian Filmy Songs	NeuroQuantology – Anka Publisher , ISSN 1303-5150 Volume 20 , Issue 10	2022

INSTRUMENTATION AND CONTROL DEPARTMENT

Sr No.	Faculty Name	Publication Title	Journal/Conference Details	Publication Year
1	Jaimin B. Dave	Milk adulteration detection for added water by conductivity	International Journal of Food and Nutritional Sciences, Vol :11, Issue: 6, Page No. 150 to 155, ISSN No: ISBN No: 2320-7876	2022
2	Jaimin B. Dave	Review on conductivity an under-developed method to detect milk adulteration	International Journal of Food and Nutritional Sciences, Vol :11, Issue: 7, Page No. 127 to 134, ISSN No: ISBN No: 2320-7876	2022

ELECTRONICS AND COMMUNICATION DEPARTMENT

Sr.no	Faculty name	Publication title	Journal	ISSN	year
1	B.B.Kathiriya	OPTIMIZATION BASED SPECTRUM SEMSISNG IN CRN FOR EFFECTIVE UTILIZATION OF AVAILABLE CHANNEL	Technical and Physical Problems of Engineering'(IJTPE),	2077-3528	2023
2	R.S.Tanna	CLASSIFICATION OF LOWER LIMB REHABILITATION EXERCISE WITH MULTIPLEAND INDIVIDUAL INTERTIAL MEASUREMENT UNITS	Indonesian Journal of Electrical engineeringand computer science	2502-4752	2023

GENERAL DEPARTMENT

Sr. No.	Name of Faculty	Title of Research Paper / Poster	Journal Name	Journal Publication Details	Impact Factor
1	Dr. G.B.Harnesha	Re/Periodization in Indian English Literary Historiography	SURABHI; Bhavnagar International Peer-Reviewed Referred Journal. Print. 2349-4557.	Volume-I;71st Issue; February-2023; Page-89 to 94	4.5
2	Dr. G.B.Harnesha	Indian Perspective of Womanhood in Sita Must Live	Ayudh International Peer-Reviewed Referred Journal ISSN: 2321-2160	Volume-I, 93rd Issue; February-2023; Page-104 to 107	4.9

Sr. No.	Name of Faculty	Title of Research Paper presented	Name of Conference/ Seminar	National / International	Organizing Institute	Date & Duration	Link of published paper (if available in soft copy)	Academic Year
							RESEARCH PUBLICATION	
1	B.J.Dave Lecturer in English AVPTI, Rajkot	Realism in Romen Basu's *The Tamarind Tree*	Humans, Nature & Environment Pre, During & Post-Pandemic (Covid-19) Scenario	National Conference	Ayudh Publication, Bhavnagar In Collaboration with IQAC, Government Science College, Mandavi - Kachchh	21st January, 2022	Conference paper published in hard copy.	2021-22
2	Dr. G.B.Harnesha Lecturer in English AVPTI, Rajkot	Re/Periodisation in Indian English Literary Historiography	History Curriculum: Recent Perspectives and Challenges	6th Young Historian's National Seminar	Sanchi Baudh-Bharatiya Gyan Adhyayan Vishwavidyalaya, Madhav Sanskriti Nyas, Akhil Bharatiya Itihas Sankalan Yojana & Bharat Shodh Sansthan	May-7 & 8, 2022.	-	2021-22
3	Dr. G.B.Harnesha Lecturer in English AVPTI, Rajkot	Indian Perspective of Womanhood in Sita Must Live	Social Science in India's Knowledge Tradition	5th Annual National Conference	Rashtriya Samaj Vigyan Parishad, in collaboration with Hansraj College, University of Delhi.	October-15, 16 & 17, 2022.	-	2022-23
4	N.M.Gauswami Lecuter in Physics AVPTI, Rajkot	Research paper poster presention on Effect of AI Doping in the Structural Properties of $Nd0.7Sr0.3Mn1-yAIyO3$ Perovskite	Advances in Materials Science: Challenges and Opportunities (AMSCO - 2023)	One Day National Conference	Department of Physics, M.K.B.U., Bhavnagar	3/6/2023	-	2022-23

SPECIAL ACHIEVEMENT

AICTE-UG BOOK TRANSLATION

Title of the Book	Translated by:
AICTE-UG- Non CSE Mathematics Translation in Gujarati	Mr. P.N.Joshi Lecturer in Mathematics AVPTI, Rajkot

COMPUTER AIDED
COSTUME DESIGN AND DRESS MAKING
WORKSHOP FOR
BEAUTY AND BODY CARE

Workshop was organized by CACDDM department A.V. Parekh Technical Institute on 1st Feb to 3rd Feb 2023. 17 students of semester III along with 3 faculty members have participated in this workshop. Miss Sonal Kothiya from NSIC Rajkot conducted this workshop. This workshop was useful to student for personality development and grooming. Students have participated in this workshop with great enthusiasm.

EXPERT TALK & DIY DEMO ON SKIN CARE & HAIR CARE PRODUCTS

Expert talk arranged by CACDDM department A.V. Parekh Technical Institute on 12 May 2023. 45 students along with 4 faculty members participated in this expert talk Mrs. Zainab M. Patel **(Entrepreneur/ alumni)** demonstrated making of homemade beauty and body care products. Guided students how to identify best product available in market. It was really nice program.

COMPUTER AIDED
COSTUME DESIGN AND DRESS MAKING

PROJECT COMPETITION ON RECENT TECHNICAL ISSUES

Project Competition organized by CACDDM department, A.V. Parekh Technical Institute, on 12th May 2023. Total 9 groups (41 students) of semester VI and IV have participated in project competition. Mrs. Zainab M. Patel (Entrepreneur/Department Alumni) has contributed service as an expert for this competition and given ranks to best projects (3 prizes).

WORKSHOP ON TIE & DYE, CLAY ART & FABRIC PAINTING

As part of curriculum CACDDM department, A.V. Parekh Technical Institute organized Workshop on subject 'Tie & Dye, clay art & Fabric Painting' on 1st July 2023 for II semester students. 20 students have participated in the workshop. Expert from Pidilite Company Mrs. Nimisha Khanna conducted this workshop. She demonstrated various technics of Tie and Dye, Clay art and Fabric Painting. Students have created beautiful articles and got enriched by this workshop.

EC ENGINEERING

BOOT CAMP ON SEMICONDUCTOR PRODUCT DESIGN

Boot camp was arranged for the final year students of E.C department on 2 Feb to 4 Feb 2023. The session was taken by Mr. Marmik bhatt who is the owner of Kalptechs. From the session student get aware from the real time world of semiconductors.

ISTE Project Competition

Under the ISTE student chapter, Project competition was arranged for the final year student of E.C department. On 6th May 2023. Prof. R.P.Sandhani and Prof. R.G.Mehta from GEC Rajkot play the role of judge. They guide the student regarding the project and its future application.
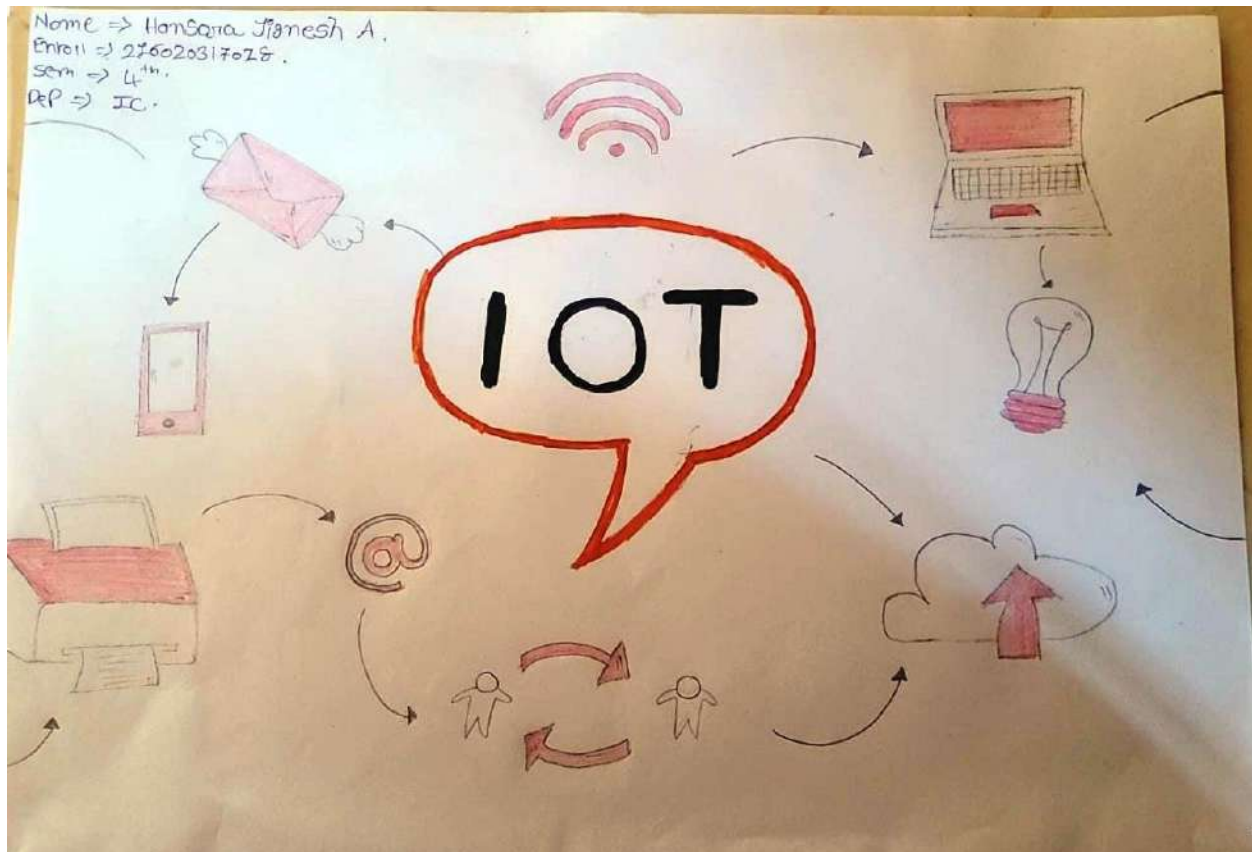
Session on Computer Hardware

Session arranged on computer hardware for the final year student on date 12th May 2023. In this session student get to know about how hardware is working. They get real time experience and practical knowledge with this session.

IC ENGINEERING

Drawing by Hansora Jignesh

INSTITUTE'S GLORIOUS EVENT
A.V.PAREKH TECHNICAL INSTITUTE

AVPTI AMRIT MAHOTSAV 2023

A.V.Parekh Technical Institute, Rajkot, established in the year 1948, is one of the oldest and leading Technical Institutes in Gujarat. It is a pioneer institute in the field of Electronics & Communication. Since its establishment, A.V.P.T.I. has developed a great deal more and has become very attractive in more ways than one. At present, the institute offers 8 courses in Diploma Engineering including Computer Engineering, Electrical Engineering, Biomedical Engineering, Electronics & Communication, Instrumentation & Circuit, Information & Communication Technology, Renewable Engineering and Computer Aided Costume Design & Dress Making. Out of the total eight programmes, 4 programmes have already been accredited by National Board of Accreditation.

On the grand occasion of the institute's 75th year, Diamond Jubilee celebration – Amrit Mahotsav - was organized along with the embedded celebration of Silver Jubilee (25th year) function of the Institute's Alumni Association which was established in the year 1997. During its glorious journey of seven and a half decade, the institute has bagged many credentials and groomed the career of a number of budding scientists, engineers, entrepreneurs and eminent personalities.

The programmes was graced by the august presence of Shri Arun Mahesh Babu M.S., I.A.S., honourable collector and D.M. of Rajkot district, Shri Varunkumar Baranwal, I.A.S., honourable managing director, P.G.V.C.L., Shri V.M.Patwari, President, A.V.P.T.I. Alumni Association, Shri D.B.Vagadia, Principal, A.V.P.T.I., Dr. A.S.Pandya, Principal, B.P.T.I., Shri D.C.Mehta, Vice President, Ahmedabad Chapter A.V.P.T.I. Alumni Association, Shri Dhirajlal Kotadia, Founder and Chairman of Sahjanand Group of Companies, Dr. Arvind Patel, Founder and Director of Sahajanand Laser Technology Ltd., Shri Balrajsinh Parmar, Executive Director of Suzlon Group of Companies, Shri Rakesh Aggarwal, C.E.O. Comcon Industries. The magnanimous presence of all these personalities provided huge encouragement and motivation and made the entire event highly successful. Along with them the rich presence of A.V.P.T.I.'s Alumni Association members including Shri Ramkubhai Thesia, Shri D.M.Pujara, heads of various departments, faculty members, staff members and students made the event a memorable one. Below given photographs of the event gives a glimpse of the lighting and decoration, fun and the fare, colours and joys, dance and music which served as a befitting tribute to the mother who has graced the lives of her children with countless blessings and bounties:

Lightening of the lamp by the Dignitaries on celebration of Amrit Mahotsav

A collage of A.V.P.T.I.'s continuous efforts to develop the all-round development of the personality of its students. Stage functions, technical symposiums, great dance music drama performances, fashion shows, festive celebrations and so on.

Welcoming of honourable guest of the function

Shri Arun Mahesh Babu, IAS,Collector & DM Rajkot District

Welcoming of honourable guest Shri Varunkumar Baranwal, IAS, MD, PGVCL

Felicitation of AVPTI Alumni Association by Team Xenhester Innovation Pvt. Ltd. – a successful start-up specialised in Drone and Electric Vehicle Motor.

AVPTI Alumni Association established in year 1998 and having members of 3000+ spread across entire world in various kind of sectors. In celebration of Amrit Mahotsav Alumni from various states of India including Delhi, Maharashtra, Madhya Pradesh , Assam , West Bengal ,Jammu & Kashmir, Rajasthan, Gujarat and many of alumni specially came from Foreign countries like UK,USA to attend this double celebration. Total of around 700+ alumni had attended celebration of Amrit Mahotsav at AVPTI Campus and relive their college memories again.

The Amrit Mahotsav celebration on Day 2 8th January started with felicitation of meritorious student who secured remarkable results in their final year examination. Total 26 students from all branches were felicitated with certificates and shield by hand of donors and presented guest on the occasion.

The arena was continuous were sound of proud by applauding all students for their good performances in their results.

Later on all proud AVPTIans relive their memories in Old building of AVPTI and were capturing group photos.


The Amrit Mahotsav held on 8th January 2023 was a grand cultural gala which inspired the spectators in awe with one mesmerising performance after the other. The photographs inserted below gives a mere glimpse of the same:

The two day programme was highly entertaining, educative and inspiring for one and all present. All performances include nearly 130 number of participants and outreach audience of 1000+ in two day's event. The glaring success of the entire event speaks volumes of the institute's team work which turned no stone unturned to make the event a memorable one.
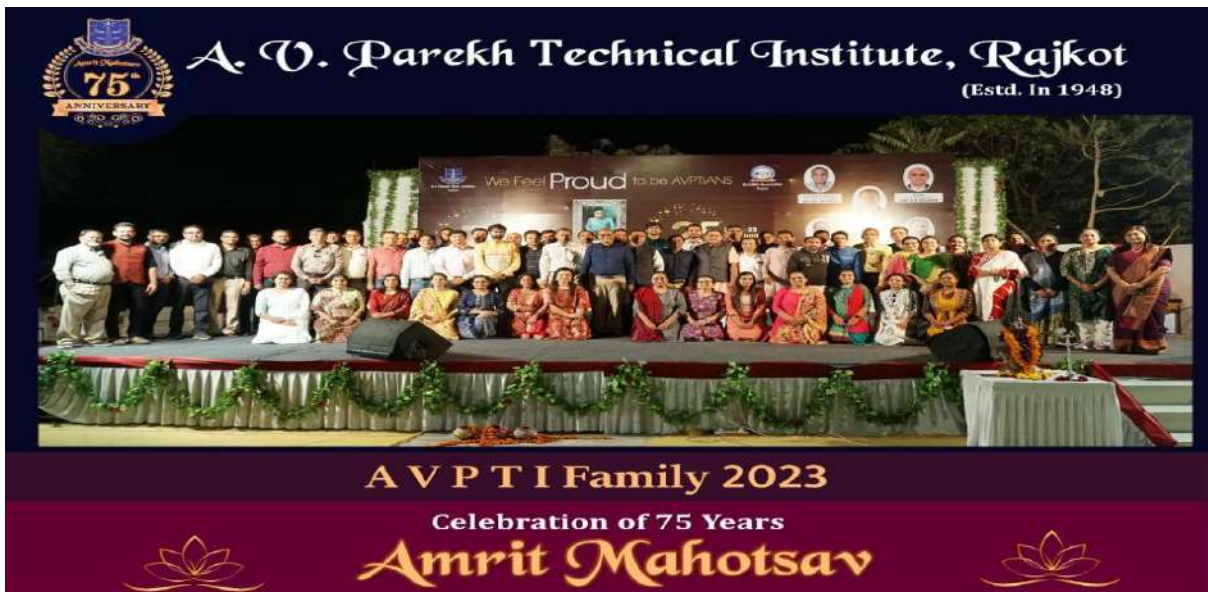
Thalassemia Screening Camp

A.V. Parekh Technical Institute organized thalassemia test for students of all branches on 18/01/2023 with cooperation of Life Blood Center, Rajkot. Indian Medical Scientific Research Foundation (IMSRF) is working in field of thalassemia prevention & control since 1991. Their aim is to make thalassemia free society. IMSRF constantly organizes Thalassemia Awareness Programmes and Thalassemia screening camp in various colleges and youth forums. Total 454 thalassemia tests were conducted.

Adolescent girls' health & awareness about Rubella vaccine

A program regarding "Adolescent girls' health & awareness about Rubella vaccine" was organized at A. V Parekh Technical Institute Rajkot on 16th February 2023. Keynote speaker for the same was Mr. Mahesh G. Rathod Branch Manager at FPA India Rajkot branch & Team. Rubella can cause a miscarriage or serious birth defects in an unborn baby if a woman is infected while she is pregnant. Rubella can be prevented with MMR vaccine.

Awareness regarding same is important for all students and faculties in educational organization. To spread awareness in that context our institute A. V. Parekh technical in association with Women Cell AVPTI conduct

Blood Donation Camp

A.V. Parekh Technical Institute, Rajkot organized a blood donation camp on 3rd March 2023 under gymkhana in coordination with Rajkot Civil Hospital. Rajkot civil hospital blood bank collects blood for economically weaker class children suffering from thalassemia major. As a contribution towards this noble social service nearly 50 students and faculty donated blood.
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Model making competition on Energy conservation and transition

Model based on energy conservation and energy transition were prepared by students of our Institute. Students were given technical topics to prepare models. Model were based on energy transition, green energy, optimum utilization of energy like DC pump, DC motor Fan, Enclosed heater for conserving more heat, siren and light-based water level indicator, anti-theft system for home with less cost and many more Model display cum competition was arranged on 2nd April 2023 at Machine Lab of Electrical Department. Principal sir, along with senior faculties visited competition and motivated students.

G-20 POSTER PRERSENTATION

Gymkhana committee and AVPTI institute jointly organized Poster presentation on G20 summit 2023 to be hosted by India. Students made posters sharing their knowledge about G20 summit. India being member of G20 and how India stakes its role for peace unity and global relationships. This event was arranged on 1st May 2023 at Machine Lab Electrical department. Nearly 30 students participated in the event.

TRAINING – RIGHT TO INFORMATION

One-day faculty development programme on "Right to Information Act 2005" has been successfully completed on Saturday 18/03/2023 with the support of SPIPA Rajkot. In which various engineering colleges of Rajkot, pharmacy college and A.V.P.T.I. faculty and staff of the institute participated. A total of 64 faculties participated.

Speaker of SPIPA Dr. K. J. Vaishnav Sir gave interesting information on the subject of RTI ACT 2005. In which various sections of RTI ACT 2005, main laws, main points of laws, right to information, what information can be obtained, how to apply for information, how to decide on the application, what to do if I do not get the requested information etc. Interesting points were included.

PERFORMING SURYA NAMASKAR

Sun salutation (Surya Namaskar) is a comprehensive Yoga technique which incorporates physical activity, breath regulation, relaxation and awareness. Apart from improving physical stamina and endurance, Surya namaskar has been shown to influence an individual's perception and performance.

It is simple to practice, consumes only less time so that students/ Faculty can practice it every day. It also sharpens the ability to focus, self-confidence, and helps to develop self-discipline. Group suryanamaskar activity was arranged in our institute on 17th June 2023 to charge all for forthcoming Yog DayNearly 60 students and 50 faculties of our institute performed Surya namaskar with mantras.

INTERNATIONAL YOG DAY 2023

Theme of International Yoga Day 2023 was 'Yoga for Vasudhaiva Kutumbakam' i.e. Yoga for the welfare of all in the form of 'One World-One Family'. It emphasizes the spirit of Yoga, which unites and takes everyone along. Mass Yoga demonstration was arranged on the International Day of Yoga at our institute.65 students and 50 staff participated in IDY. Yog session was led by our veteran staff Ms Anjana Upadhyay as she is Yoga trainer.

INSTITUTE'S SPORTS' EVENT
A.V.PAREKH TECHNICAL INSTITUTE

CONQUER 2023 SPORTS' WEEK

Swami Vivekananda has said that "Education is the manifestation of the perfection already in man". In order to give an appropriate platform to bring out the hidden potential in the students and to develop their all-round personality, A.V.Parekh Technical Institute, Rajkot organizes various curricular and extra-curricular activities on a regular basis. Recently in the month of April – 2023, sports event was organized in which majority of the students of the institute and all the staff members participated enthusiastically.

Principal Shri D.B.Vagadia sir, all the heads of departments and senior faculties motivated the students to put their best in different competitions. Shri Dharmendrasinh Jadeja, Ranji Trophy player of Saurashtra and Chief Guest of the programme graced the inauguration of the event with his mighty presence.

Coordinators of different games kept no stones unturned to make the event enjoyable, successful and an enriching learning experience for the students. Before the actual beginning of the sports event, the coordinators helped in preparing the playground for cricket, volleyball and kabaddi and they literally stood on their toes from 8 a.m. to 6 p.m. during the entire duration of the sports event under the active leadership of Shri P.N. Joshi, lecturer in mathematics and gymkhana committee chairman Shri N.M. Mehta.

Along with the sports coordinators, the team of doctors and nurses from AIIMS, Rajkot contributed their valuable time and remained present in to treat the students being injured during the event. However, no case of injury happened and the event was completed quite peacefully.

On the whole the sports event was highly successful and a great learning experience for the participants. The gala events success was enabled by 800+ participation of students in 20 different indoor and outdoor games. Shri P.N.Joshi (Lecturer in Mathematics) and in charge officer of gymkhana Shri N.M.Mehta successfully organized the whole event with the help and active participation of coordinators of different games.

FELICITATION & FAREWELL PROGRAM

TITANS 2023

Sports' Week Prize Distribution & Farewell for Final Year Students 2023

As a part of Diamond Jubilee Celebration of the Institute, Titans – 2023 was organized by A.V. Parekh Technical Institute, Rajkot on 18th May 2023 in order to felicitate the excellent performers in the Sports Week organized during 3rd April to 6th April 2023, which witnessed the participation of around 450 students among whom 3 students had participated in national level competitions. Along with the felicitation, the programme was also arranged to bid farewell to the final year students of the institute. Thus, twin aims of the programme were to celebrate the sporting skill, team-spirit, leadership skills and sportsman spirit demonstrated during the Sports Week as well as to bid farewell to the students nurtured by the institute in different academic as well as curricular and extra-curricular activities so as to enable them to meet the needs of the world, outside the four walls of the classroom and emerge as 'Titans' in the world of work.

The programme was graced by the august presence of honourable Dr. Darshitaben Shah, M..L..A. of Gujarat from Rajkot West-69 , Dr. K.G. Maradia sir, Principal, Government Engineering College, Rajkot, Shri D.B.Vagadia sir, Principal of AVPTI, Rajkot, Prof. K.B. Rathod, H.D.D., Electrical Engg. Department, G.E.C. Rajkot, Smt. Hemaliben Ruparelia, former H.O.D. of Computer Engg. Department of the institute ,Shri R.J. Dhruv, H.O.D., I.C. Engg. Department of the institute,

Shri D.M.Pujara, Secretary of Alumni Association, AVPTI, Rajkot , Thummar sir, H.O.D. of Electrical Engg. Department of Government Polytechnic, Rajkot and Kansagarabhai, former cashier of the institute and active member of institute alumni association, Rajbhai Lakkad from Information Department, students from different branches and all the staff members of the institute enthusiastically attended the programme and made it a huge success by their sheer hard work, dedication, and commitment. The venue of the programme, Aravindbhai Maniar Hall, Rajkot, managed by Rajkot Municipal Corportation, provided appropriate ambience in accordance with the theme of the programme. The programme started with the prayer in the form of gracious dance performance by Mahek Desai and Dhruvi Sangani, students of Computer Engineering Department.Prayer performance was followed by lighting of lamp by present dignitaries. The felicitation event was followed by motivating speeches by the dignitaries.

Runners-up of Cricket – 2nd Sem. Students of

Winners of Cricket – 4nd Sem. Students of EE

Runners-up of Kabaddi – 6th Sem. CE

Winners of Kabaddi – 4th Sem. CE students

Runners-up Tug of War – 6th Sem. EE

Winners of Tug of War – 4th Sem. EE

Runners-up of Volleyball – 6th Sem. CE

Winners of Volleyball – Students of EE

Besides excellent performance in sports, students who had gained remarkable achievement in academics were also appreciated. Mahek Desai, a student from 2nd Sem. Computer Engg. and Vishal Rajyaguru, a student from 4th Sem. Electrical were felicitated for achieving top rank in GTU Summer-22 examination. Furhter, Barad Yash, a student of 2nd Sem. Electrical was extended a financial aid of Rs. 6,000/-- from the alumni association of the institute. (Photograph given below). Moreover, total 37 students of the institute were given motivational prize in the year 2022-23 from the generous donation given to the institute by Shri S.R. Murthy, an alumnus of the institute. The event witnessed implementation of fundamental values of human life like providing motherly warmth, nurturing, caring, motivating, supporting, and finally lovingly pushing the students to fly freely in the vast sky of life when their wings begin to flutter.

Along with the prizes given to mentee, the institute also appreciated the noble work of its mentors - teams of four branches of the institute – Computer (photograph 1 below), Biomedical , Electrical and C.A.C.D. & D.M. (photograph 4) – were honoured with a certificate of appreciation at the hands of Dr.Darshita Shah.

In between the prize giving ceremony and dance performances, final year students delivered speech to express their memories of college period. The speech given by different students was filled with their academic and practical enrichment, their innocent pleasures, the joy of completing an important phase of their journey, and their feelings of sorrow to leave the amicable environment of the institute..

The entire event was guided under the visionary leadership of D.B.Vagadia sir, Principal, A.V.P.T.I., Rajkot, Shri N.M. Mehta sir, coordinator of institute gymkhana committee and P.N.Joshi sir, member of gymkhana committee. The sequence of events of the entire programme was very thoughtfully arranged by them to keep alive the interest of the audience till the concluding event; prize distribution events were merged with solo and group dance performance of boys and girls students of the institute. Different committee members worked really hard to make the entire event highly successful – discipline committee spared no stones unturned to ensure that the grandeur of the event remains intact; programme anchors remained constantly active to keep live the touch with the audience in a large hall housing 600 + students, faculties and invited guests;

coordination committee, management & technical management committee, green room committee, stage committee, trophy distribution committee members literally stood on their toes so that the flow of the event continues without any hitch and of course, the students positively motivated and boosted the spirit of the performers and achievers with their constant cheers and expressions of joy.

In the concluding part of the programme, Shri P.N. Joshi sir, coordinator of the event, gave a vote of thanks; he wholeheartedly appreciated the hard work and dedication of all staff of the institute who tirelessly worked during the entire Sports Week event as well as during the felicitation programme. Cheers of joy and shouting continued from the students for him for playing a lead role in the organization of such a wonderful and memorable event. In the below photograph on the left Shri Joshi sir is seen emotionally conveying his heartfelt thanks to the audience.

On the whole, the programme was highly successful. It was characterized by youthfulness, vivacity, colours, fun and frolic, music and swag and cheers and claps. It was a colourful celebration of achievement, growth, confidence, and demonstration of students' talent nurtured on the loving turf of their mother institute by their dedicated facilitators and caring administrators. Total 80 trophies and 168 certificates were given to students to recognize their performance in different sports competitions. Distributing prizes to the loved ones brought tears of joy to the eyes of the many and watching the students performing confidently on the stage and speaking without any stage fear in front of their mentors filled their entire being with the feelings of pride and fulfilment.

The programme was concluded with a culminating event of playing garba, in which not only the students but also the faculties joined freely with high degree of energy and enthusiasm.

A.V.PAREKH TECHNICAL INSTITUTE

Cycle Rally(Save Energy)

An Awareness cycle rally regarding"Save Energy" was organized by A.V.P.T. Institute under G20 Mission. The initiative was to spread awareness against the depletion of non-renewable resources and to save energy. They spread messages such as, saving energy means decreasing the amount of energy used while achieving a similar outcome of end use, using less energy has lots of benefits. This will also help wean ourselves off fossil fuels and not only the students but also their parents contributed their part towards this cause by riding a bicycle. The event was organized on 01/04/2023 and total 27 students were participating in this event.

A.V.PAREKH TECHNICAL INSTITUTE

Collection of Sainik Welfare Fund

Sainik Welfare department is the implementation of various programmes for the welfare and resettlement of ex-servicemen, their dependents and war widows. On Shshatra dhwaj din, AVPT Institute collected 10,000/- Rs. from all departments. Principal Sir, Faculties and students contributed funds and submitted to "Collector & President, AFFD Fund account, Ahmedabad through DD.

Event Date, Time and Location: 12/01/2023, A.V.Parekh Technical Institute, Rajkot

A.V.PAREKH TECHNICAL INSTITUTE

Run for Environment and Climate

An Awareness program, run for environment, was organized by A.V.P.T. Institute under G20 Mission. The objective was to impart the knowledge about climate change, how it affects our life and how we can save our climate. from this event "Half Marathon – Run for Environment and Climate," spread awareness to save our mother earth and develop ecosystem to reduce global warming. The event was organized on 28/03/2023 and total 60 students were participating in this event.

A.V.PAREKH TECHNICAL INSTITUTE

Thalassemia Test Drive

GTU has suggested compulsory thalassemia test for first year students. A.V. Parekh Technical Institute organized thalassemia test for students of all branches on 18/01/2023 with cooperation of Life Blood Center, Rajkot. Indian Medical Scientific Research Foundation (IMSRF) is working in field of thalassemia prevention & control since 1991. Their aim is to make thalassemia free society. IMSRF constantly organizes Thalassemia Awareness Programmes and Thalassemia screening camp in various colleges and youth forums.
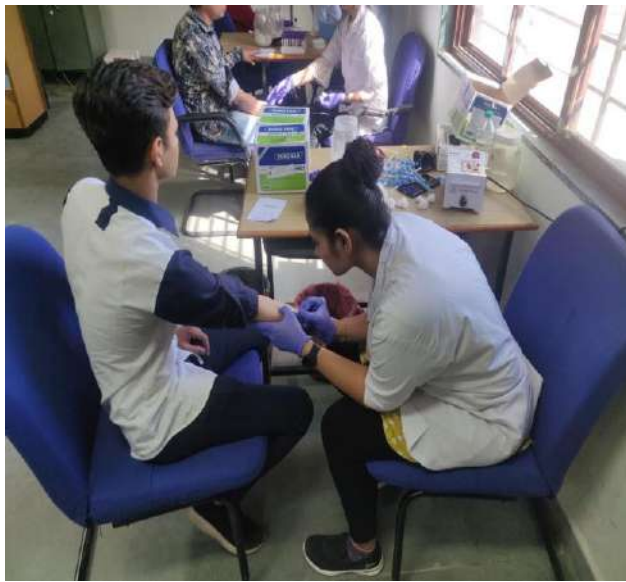
A.V.PAREKH TECHNICAL INSTITUTE

Visit to Sadbhavana Vrudhashram

On 20/06/2023, students of A.V.P.T.Institute had the opportunity to visit Sadbhavna vrudhashram, an old age home located in Rajkot City. The purpose of visit was to assess the living conditions, facilities, and overall well-being of the elderly residents residing in the facility. This visit report aims to provide a comprehensive overview of the old age home's environment, care provisions, and observations made during the visit. During the visit, students had the opportunity to interact with some of the residents. Most of them expressed contentment with their living arrangements and appreciated the care provided by the staff. They seemed to form meaningful connections with other residents, which reduced feelings of loneliness and isolation.

STUDENTS' ACHIEVEMENTS

Sr. No.	Enrollment No.	Full Name of the Student	Department	Name of the Event	Place of the Event	Remarks (i.e. Rank/winner/Prize etc..)
1	216020309119	Vivek Parmar	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Tug of War
2	206020309023	Shivanggiri Goswami	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Runner up -Tug of War
3	216020309020	Vaibhav Gauswami	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Cricket and Volleyball
4	216020309087	Nandish Vasant	Electrical	75th Annual Celebration	AVPTI RAJKOT	Dance Participation
5	216020309091	Farhan Lakhani	Electrical	Saurashtra Open Weightlifting Championship	Rajkot	Achieved 1st rank in saurashtra open weighlifting championship
6	216020309091	Farhan Lakhani	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Tug of War
7	216020309091	Farhan Lakhani	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Musical Chair
8	216020309091	Farhan Lakhani	Electrical	NCC	Rajkot	B Certificate in NCC
9	216020309066	Chandrapalsinh Parakramsinh Zala	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Cricket and Volleyball
10	226020309038	Jha Prince lalitkumar	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Cricket
11	226020309028	Bhakti Hiteshbhai Gohel	Electrical	Conquer 2023 Sports	AVPTI RAJKOT	Winner - Badminton Winner - Carrom

					Week		

12	216020309124	Sharanam jigneshbhai raychura	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Badminton
13	216020309090	Kandoliya mihir Dipulkumar	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Cricket
14	216020309090	Kandoliya mihir Dipulkumar	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Runner up for lazer maze event
15	216020309087	Nandish Yagneshbhai vasant	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Runner up for circuit mania event
16	216020309019	PRAJESH KUMAR KANJIBHAI VALA	Electrical	All India Inter University Softball Tournament	Guntur, Andhra Pradesh	State Champion
17	216020309019	PRAJESH KUMAR KANJIBHAI VALA	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Cricket
18	216020309019	PRAJESH KUMAR KANJIBHAI VALA	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Volleyball
19	216020309019	PRAJESH KUMAR KANJIBHAI VALA	Electrical	75th Annual Function	AVPTI RAJKOT	NCC Dance
20	216020309009	Abhay Jitendrabhai Rathod	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Javeline Throw - 2nd rank
21	216020309009	Abhay Jitendrabhai Rathod	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Cricket
22	216020309018	SAHIL ALARAKHBHAI DODIYA	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - 3000m
23	216020309018	SAHIL ALARAKHBHAI DODIYA	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Runner up - 1500m

24	216020309018	SAHIL ALARAKH BHAI DODIYA	Electrical	75th Annual Function	AVPTI RAJKOT	NCC Dance
25	216020309018	SAHIL ALARAKH BHAI DODIYA	Electrical	NCC	Rajkot	B Certificate in NCC
26	216020309018	SAHIL ALARAKH BHAI DODIYA	Electrical	NCC Camp	Jamnagar	NCC Army camp
27	206020309110	SAGARB HARTHI DINESHB HARTHI GAUSWA MI	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	3rd rank 1500m race
28	206020309009	Henil Bhaveshb hai Khunt	Electrical	Azadi ka Amrit Mahotsa v - Hackath on	KPGU, Vadodara	Participation
29	206020309005	Vishal Bharatbh ai Rajyagur u	Electrical	Azadi ka Amrit Mahotsa v - Hackath on	KPGU, Vadodara	Participation
30	216020309037	Niraj Pravinbh ai Ladva	Electrical	Lakhsya - National level competi tion	LD College Ahmedabad	Particiapation - Circuit Glow
31	216020309037	Niraj Pravinbh ai Ladva	Electrical	Lakhsya - National level competi tion	LD College Ahmedabad	Participation - Circuit Mania
32	216020309037	Niraj Pravinbh ai Ladva	Electrical	Lakhsya - National level competi tion	LD College Ahmedabad	Participation - Laser Maze
33	216020309037	Niraj Pravinbh ai Ladva	Electrical	Lakhsya - National level competi tion	LD College Ahmedabad	Participation - General Quiz

34	216020309050	Jimil Manishbhai Chavda	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Circuit Glow
35	216020309050	Jimil Manishbhai Chavda	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - General Quiz
36	216020309032	Langhroja Harsh	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	3rd Rank Carrom
37	216020309032	Langhroja Harsh	Electrical	Conquer 2023 Sports Week	AVPTI RAJKOT	Winner - Tug of War
38	216020309032	Langhroja Harsh	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Laser Maze
39	216020309032	Langhroja Harsh	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Circuit Mania
40	216020309032	Langhroja Harsh	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Circuit Glow
41	216020309057	Bakraniya Viral	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Circuit Mania
42	216020309057	Bakraniya Viral	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Laser Maze
43	216020309057	Bakraniya Viral	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Circuit Glow

44	216020309050	Jimil Manishbhai Chavda	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - Circuit Glow
45	216020309050	Jimil Manishbhai Chavda	Electrical	Lakhsya - National level competition	LD College Ahmedabad	Participation - General Quiz
46	196020307006	Bhadja Dancy Bharatbhai	Computer	Machine learning and it's application	Machine learning and it's application	Participation
47	216020307118	Parth Jayantibhai Gondaliya	Computer	A.V. Parekh technical institute rajkot	A.V. Parekh technical institute rajkot	FIRST RANK
48	226020307227	VEGAD NEEL KISHORBHAI	Computer	CODEFEST v2.0 By RAO INFORMATION TECHNOLOGY	CODEFEST v2.0 By RAO INFORMATION TECHNOLOGY	Participation
49	206020307045	Mahek Mehta	Computer	Amazon Summit 2023	Amazon Summit 2023	Participation
50	206020307045	Mahek Mehta	Computer	IIRS-ISRO	IIRS-ISRO	Participation
51	206020307045	Mahek Mehta	Computer	S.O.L.I.D principles	S.O.L.I.D principles	Participation
52	206020307102	Aditya S Jani	Computer	Teacher's Day	Teacher's Day	Consolation/Appreciation
53	206020307045	Mahek Mehta	Computer	Google	Google	Participation
54	226020307108	Maheta dixa	Computer	Sports week " Conquer 2023"	Sports week " Conquer 2023"	FIRST RANK
55	206020307045	Mahek Mehta	Computer	Google	Google	Participation
56	206020307045	Mahek Mehta	Computer	Google	Google	Participation
57	206020307045	Mahek Mehta	Computer	Google	Google	Participation
58	206020307045	Mahek Mehta	Computer	Google	Google	Participation
59	206020307045	Mahek	Computer	Google	Google	Participation

		Mehta				

60	206020307045	Mahek Mehta	Computer	Google	Google	Participation
61	206020307045	Mahek Mehta	Computer	Google	Google	Participation
62	226020307089	Kalyani sanjarkhan sajjadkhan	Computer	Fundamental knowledge of e commerce	Fundamental knowledge of e commerce	Consolation/Appreciation
63	206020307045	Mahek Mehta	Computer	Google	Google	Participation
64	206020307045	Mahek Mehta	Computer	Google	Google	Participation
65		DEVAYAT AKA HARSH	Computer	Computer Society of India	Computer Society of India	Consolation/Appreciation
66	206020307045	Mahek Mehta	Computer	Indian Institute of Management Ahmedabad	Indian Institute of Management Ahmedabad	Consolation/Appreciation
67	206020307080	Shruti Vadgama	Computer	Conquer 2023 - Badminton Doubles (Girls)	Conquer 2023 - Badminton Doubles (Girls)	SECOND RANK
68	226020307065	GajeraYash Manish Bhai	Computer	Chess	Chess	FIRST RANK
69	226020307065	GajeraYash Manish Bhai	Computer	Rajkot District Chess Association	Rajkot District Chess Association	Consolation/Appreciation
70	226020307053	Disha Devaliya	Computer	AVPTI AMRIT MAHOTSAV	AVPTI AMRIT MAHOTSAV	Participation
70	226020307201	Spandan Parikh	Computer	Mimo	Mimo	Consolation/Appreciation
71	226020307201	Spandan	Computer	Mimo	Mimo	Consolation/Appreciation
72	226020307029	Chauhan Anand Vershibhai	Computer	TOPS TECHNOLOGIES	TOPS TECHNOLOGIES	Participation
73	226020307201	Spandan Parikh	Computer	Saurashtra University	Saurashtra University	Participation
74	206020307014	Shiyal	Computer	Ministry	Ministry of	Participation

		Ketan		of Environment, Forest and Climate Change	Environment, Forest and Climate Change	
75	206020307014	Shiyal Ketan	Computer	GOVERNMENT OF INDIA	GOVERNMENT OF INDIA	Participation
76	206020307014	Shiyal Ketan	Computer	Ministry of Education	Ministry of Education	Participation
77	206020307014	Shiyal Ketan	Computer	Ministry of Jal Shakti	Ministry of Jal Shakti	Participation
78	226020307164	Ramanuj janvi Bhaveshbhai	Computer	NCC	NCC	Consolation/Appreciation
79	226020307233	Zalavadiya vasu alpeshbhai	Computer	Computer society of india	Computer society of india	Participation
80	226020307206	Thakar Chaitany Vipulbhai	Computer	Lemon spoon	Lemon spoon	SECOND RANK
81	226020307072	Gondaliya Hinal Bharatbhai	Computer	Tops technology	Tops technology	Participation
82	216020307182	Parth Bhimani	Computer	Sports Week "Conqueror 2023"	Sports Week "Conqueror 2023"	THIRD RANK
83	216020307123	Sakariya dhruv	Computer	HTML & CSS - How to Create Website	HTML & CSS - How to Create Website	Participation
84	216020307128	Mavdiya Viral	Computer	Conquer 2023	Conquer 2023	FIRST RANK
85	216020307056	Dhuliya Ayushi	Computer	Tops technologies	Tops technologies	Participation
86	216020307165	Makwana Surydeep sinh kanaksinh	Computer	Kabbadi	Kabbadi	FIRST RANK
87	216020307139	Yash Amitbhai Nirmal	Computer	Conquer 2023	Conquer 2023	FIRST RANK

88	216020307020	Chaniya suhana mahmad ali	Computer	Intellect ual Propert y Office and MoE's Innovati on Cell, India	Intellectual Property Office and MoE's Innovation Cell, India	Participation
89	226020307040	Chhaiya Mamta Rameshb hai	Computer	Tops technol ogy	Tops technology	Participation
90	206020307116	Pannsuri ya Umang	Computer	Unfoldin g the univers e with tensorfl ow	Unfolding the universe with tensorflow	Consolation/Appreciation
91	206020307116	Pansuriya Umang	Computer	GDSC-Introdu ction to JavaScri pt	GDSC-Introduction to JavaScript	Consolation/Appreciation
92	206020307116	Pansuriya Umang	Computer	Rao-codefest	Rao-codefest	Participation
93	216020307090	MAHEND RA VADHER	Computer	3000 meter races	3000 meter races	SECOND RANK
94	216020307079	Yatri c. Chhatrala	Computer	Code relay(vv p college)	Code relay(vvp college)	Participation
95	226020307157	Raghava ni Nikita Rohitbhai	Computer	AVPTI AMRIT MAHOT SAV	AVPTI AMRIT MAHOTSAV	Consolation/Appreciation
96	226020307209	Toliya uttam virambha i	Computer	Toptehn ogoic	Toptehnogoi c	Participation
97	226020311052	SOLANKI SHIDDHR AJ ASHWIN BHAI	EC	Selecte d for the National level Waterp olo Junior Champi onship	Water Polo Junior Champion	Selection

GOLD MEDALIST
PROUD MOMENT OF IC DEPARTMENT
STUDENT ACHIEVEMENT

*** GTU Gold Medalist 2022-23 ***
Preksha Joshi
Instrumentation and Control Department Student secured
Gold Medal at GTU Convocation on Date 2nd February, 2023.
**She was topper of the branch for 2020-2023.**

STAFFS' ACHIEVEMENTS
JANUARY 2023 – JULY 2023

	Expert Lecture/Session/Talk/Seminar/Webinar /Book Publication / Curriculam Design/ Organizer/ Coordinator of Event etc.		
Sr No.	**Name**	**Department**	**Achivement Description**
1	Piyush C. Dalsania	EC	Delivered Expert Lecture on " Microwave Engineering" at Physics Department, Saurastra University For PhD Research Scholar & MSc Students.
2	Darshita S. Pathak	Computer Engineering	As GTU Resource Person in Curriculam Design Committee of Semester 3rd of Branch Information Communication & Technology, Subject : Data Stuctures and Application (Subject Code : 1333203)
3	Niraj R. Trivedi	Computer Engineering	As GTU Resource Person in Curriculam & Laboratory Manual Design Committee of Semester 5th of Branch Computer Engineering, Subject : Mobile Application Development (Subject Code : 4350704)
3	Niraj R. Trivedi	Computer Engineering	As GTU Resource Person in Curriculam & Laboratory Manual Design Committee of Semester 5th of Branch Computer Engineering, Subject : Computer Organization & Architecture (Subject Code : 4350701)
4	Ashok K Panchasara	Computer Engineering	As GTU Resource Person in Curriculam & Laboratory Manual Design Committee of Semester 5th of Branch Computer Engineering, Subject : Advanced Computer Network (Subject Code : 4350707)
5	Ashok K Panchasara	Computer Engineering	Co-ordinated two days Workshop on "Womoen in Computing" under "Ice Breaking activity", RUSA chapter for Computer Engineering Department Girl students
6	Suresh Z. Shyara	Instrumentation & Control	Currently Working as Member of Board of Studies of Branch Instrumentation & Control and Automation & Robotics.
7	C. P. Suchak	Instrumentation & Control	As GTU Resource Person in Laboratory Manual Design Committee of Semester 3rd of Branch Instrumentation & Control Engineering, Subject : Control Components(Subject Code : 4331702)
8	Hiren R. Chothani	Instrumentation & Control	As GTU Resource Person in Curriculam & Laboratory Manual Design Committee of Semester 5th of Branch Instrumentation & Control Engineering, Subject : Programmable Logic Controller.(Subject Code : 4351702)
9	Dhaval B. Dhokiya	Instrumentation & Control	As GTU Resource Person in Curriculam & Laboratory Manual Design Committee of Semester 5th of Branch Instrumentation & Control Engineering, Subject : Internet of Things(Subject Code : 4351703)
10	Dhaval B. Dhokiya	Instrumentation & Control	As GTU Resource Person in Laboratory Manual Design Committee of Semester 3rd of Branch Instrumentation & Control

			Engineering, Subject : Electronic & Pneumatic Instrumentation(Subject Code : 4331704)
11	Jesika N. Kothari	Instrumentation & Control	As GTU Resource Person in Curriculam & Laboratory Manual Design Committee of Semester 5th of Branch Instrumentation & Control Engineering, Subject : Digital Control System(Subject Code : 4351706)
12	Ripal M. Pathak	Instrumentation & Control	As GTU Resource Person in Laboratory Manual Design Committee of Semester 3rd of Branch Instrumentation & Control Engineering, Subject : Digital Techniques(Subject Code : 4331701)
13	Arti Rathod	CACD & DM	As GTU Resource Person in Curriculum Design Committee and Laboratory Manual Design Committee for **design group**. 1**Subject** : Design Fundamental (Subject Code : 4315101) 2**Subject** Design Concept &Design Effect (Subject Code : 4325101) 3**Subject** :Basics of Fashion (Subject Code : 4325101),4**Subject** :Fashion Garment (Subject Code : 4355101)
14	Bhadresh B Renuka	EC	As GTU Resource Person in Laboratory Manual Design Committee of Semester 3rd of Branch EC Engineering, Subject : Electronic instrument and measurement, Branch;ICT subject:EDC and EC sem 5 ,PLC
15	Shailesh M Kanani	Electrical	prepared common lab manual : A C Circuit (4320901) course
16	Ravindra R Dudani	EC	As GTU Resource Person in Curriculum and Laboratory Manual Design Committee of Semester 3rd of Branch EC Engineering, Subject : Electronic circuits and networks(4331101)
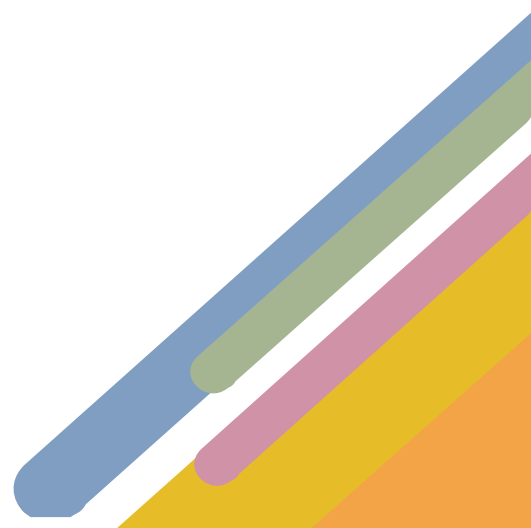
Myths of Electromagnetic Field (EMF) Radiation through Mobile Towers

R D Panchal (Lecturer in Electrical Engg)

Myth about electromagnetic radiation through mobile towers is discussed in various studies and research. People always believe that electromagnetic radiation through mobile towers are harmful but it is not true 100%.

The EMF radiation is a Radio Frequency/Electromagnetic energy emitted from mobile tower antenna and mobile handsets are non-ionizing having very low energy.

According to studies and scientific evidence, it is found that there is no conclusive evidence of the stated danger of EMF radiation from mobile towers. Further, the EMF emissions from a mobile tower, which are below the safe limits prescribed by International Commission on Non-Ionizing Radiation Protection (ICNIRP) and recommended by World Health Organization (WHO), have no convincing scientific evidence of causing adverse health effects.

Mobile Tower Installation Rules and Regulation

DoT and Telecom Service Providers (TSPs) take various measures to ensure the EMF compliance of mobile towers/Base Transceiver Stations (BTS) to safe limits.

Any person can request for EMF emission measurement at his/her premises by paying a nominal fee of ₹ 4000/- online. Testing of radiation of working mobile towers is regularly carried out by the field unit of DoT Delhi on a sample basis which is up to 5% of the total working mobile towers (BTS) annually. Additionally, the BTS sites against which there are public complaints are also tested by the License Service Area (LSA) field unit of DoT.

BTS (Mobile Tower) Site Testing

If the BTS or mobile tower testing site fails to meet EMR criterion, Rs. 20 Lakh per BTS per incidence has been prescribed, BTS whose exposure ratio/index is more than 1.

However, if the site is not compliant even after removing the contribution of that rogue BTS (s), then a penalty in proportion to the exposure ratio (Rs. 20 lakh x Exposure Ratio) is prescribed to be imposed on all the remaining participating BTSs.

WHO on Electromagnetic Radiation

The World Health Organization referred to approximately 25,000 studies around the world, and concluded that – Current Evidence does not confirm that existence of any health consequence form exposure to low level electromagnetic fields.

With reference to Electromagnetic Radiation emanating from cellular mobile towers, World Health Organization (WHO) in its Fact Sheet No. 304, May 2006 on Electromagnetic Fields, and Public Health (Base Stations and Wireless Technologies) has concluded that "considering the very low exposure levels and research results collected to date, there is no convincing scientific evidence that the weak RF Signals from base stations and wireless networks caused adverse health effects. From all evidence accumulated so far, no adverse short- or long-term health effects have been shown to occur from the RF Signals produced by base stations.

EC ENGINEERING

INTERNET OF THINGS
N M RINDANI

What is the Internet of Things?

The Internet of Things, or IoT, refers to the billions of physical devices around the world that are now connected to the internet, all collecting and sharing data with other connected devices, systems, or cloud platforms. These objects can include various devices, sensors, appliances, vehicles, and even entire systems like smart cities.

Which are the key components of IOT systems?

1. **Devices and Things:** These are the physical objects embedded with sensors, actuators, and connectivity capabilities that allow them to interact with the internet and other devices. Examples include smart thermostats, wearable fitness trackers, smart home appliances, and industrial sensors.
2. **Connectivity:** IoT devices use various communication protocols such as Wi-Fi, Bluetooth, Zigbee, cellular networks (3G, 4G, and 5G), and low-power wide-area networks (LPWANs) to connect to the internet and share data.
3. **Data Processing and Analytics**: IoT generates an enormous amount of data from connected devices. Cloud platforms and edge computing play a crucial role in processing and analysing this data to extract valuable insights and make data-driven decisions.
4. **Cloud Services:** Cloud infrastructure provides storage, computing power, and services for processing and managing the vast amount of data generated by IoT devices. Cloud platforms facilitate the scalability and flexibility required to handle IoT data efficiently.
5. **Applications and Services:** IoT applications and services enable users to interact with connected devices, monitor their status, and control them remotely.
6. **Security and Privacy:** IoT security is a critical concern as interconnected devices are vulnerable to cyberattacks. Ensuring secure communication, data encryption, and regular software updates are essential to protect IoT devices and user data.

Which are the important factors affecting future of IOT?

1. **<u>Massive Growth of IoT Devices:</u>** The number of IoT devices is expected to continue skyrocketing. With advancements in technology and decreasing costs of production, IoT devices will become even more accessible, leading to widespread adoption across various industries and in our daily lives.
2. **<u>5G Integration:</u>** The deployment of 5G networks will accelerate the adoption of IoT by providing faster, more reliable, and low-latency connectivity. This will enable seamless communication between devices, supporting applications that require real-time data exchange, such as autonomous vehicles and remote surgery.
3. **<u>Edge Computing</u>**: As the volume of data generated by IoT devices increases, there will be a greater emphasis on processing data at the edge of networks rather than sending everything to the cloud. Edge computing reduces latency and bandwidth usage while improving data privacy and security.

What is an example of an Internet of Things device?

any physical object can be transformed into an IoT device if it can be connected to the internet to be controlled or communicate information. Adding RFID tags to <u>expensive pieces of equipment</u> to help track their location was one of the first IoT applications.

<u>A lightbulb</u> that can be switched on using a smartphone app is an IoT device, as is a motion sensor or a <u>smart thermostat</u> in your office or a connected streetlight. An IoT device could be looking like as small as <u>child's toy</u> or as big as <u>a driverless truck</u>. Some larger objects may themselves be filled with many smaller IoT components, such as a jet engine that's now filled with thousands of sensors collecting and transmitting data back for its efficient operation.

How big is the Internet of Things?

Big and getting bigger -- there are already more connected things than people in the world.
Tech analyst company IDC predicts that in total there will be 41.6 billion connected IoT devices by 2025, or "things."

What are the benefits of the Internet of Things for business?

The idea is that enterprises should have access to more data about their own products and their own internal systems, and a greater ability to make changes as a result.

Manufacturers are adding sensors to the components of their products so that they can transmit data back about how they are performing. This can help companies spot when a component is likely to fail and to swap it out before it causes damage. Companies can also use the data generated by these sensors to make their systems and their supply chains more efficient, because they will have much more accurate data about what's really going on.

What are the benefits of the Internet of Things for consumers?

The IoT promises to make our environment -- our homes and offices and vehicles -- smarter, more measurable, and... chattier. Smart speakers like Amazon's Echo and Google Home make it easier to play music, set timers, or get information. Home security systems make it easier to monitor what's going on inside and outside, or to see and talk to visitors. Meanwhile, smart thermostats can help us heat our homes before we arrive back, and smart lightbulbs can make it look like we're home even when we're out.

Looking beyond the home, sensors can help us to understand how noisy or polluted our environment might be. Self-driving cars and smart cities could change how we build and manage our public spaces.

Which are the challenges for IOT ?

1. Lack of encryption
2. Insufficient testing and updating
3. IoT Malware and ransomware
4. Inadequate device security
5. Lack of standardization:
6. Vulnerability to network attacks
7. Unsecured data transmission
8. Privacy concerns
9. Scalability and Reliability
10. Power consumption and battery management
11. Cost and infrastructure planning
12. Data collection and processing

**Which are the applications of IOT?**

Internet of smart living:

Remote Control Appliances: Switching on and off remotely appliances to avoid accidents and save energy, Weather: Displays outdoor weather conditions such as humidity, temperature, pressure, wind speed and rain levels with ability to transmit data over long distances, Smart Home Appliances: Refrigerators with LCD screen telling what's inside, food that's about to expire, ingredients you need to buy and with all the information available on a Smartphone app. Washing machines allowing you to monitor the laundry remotely, and. Kitchen ranges with interface to a Smartphone app allowing remotely adjustable temperature control and monitoring the oven's self-cleaning feature, Safety

Monitoring: cameras, and home alarm systems making people feel safe in their daily life at home, Intrusion Detection Systems: Detection of window and door openings and violations to prevent intruders, Energy and Water Use: Energy and water supply consumption monitoring to obtain advice on how to save cost and resources, & many more…

Internet of smart cities:

Structural Health: Monitoring of vibrations and material conditions in buildings, bridges and historical monuments, Lightning: intelligent and weather adaptive lighting in street lights, Safety: Digital video monitoring, fire control management, public announcement systems, Transportation: Smart Roads and Intelligent High-ways with warning messages and diversions according to climate conditions and unexpected events like accidents or traffic jams, Smart Parking: Real-time monitoring of parking spaces availability in the city making residents able to identify and reserve the closest available spaces, Waste Management: Detection of rubbish levels in containers to optimize the trash collection routes. Garbage cans and recycle bins with RFID tags allow the sanitation staff to see when garbage has been put out.
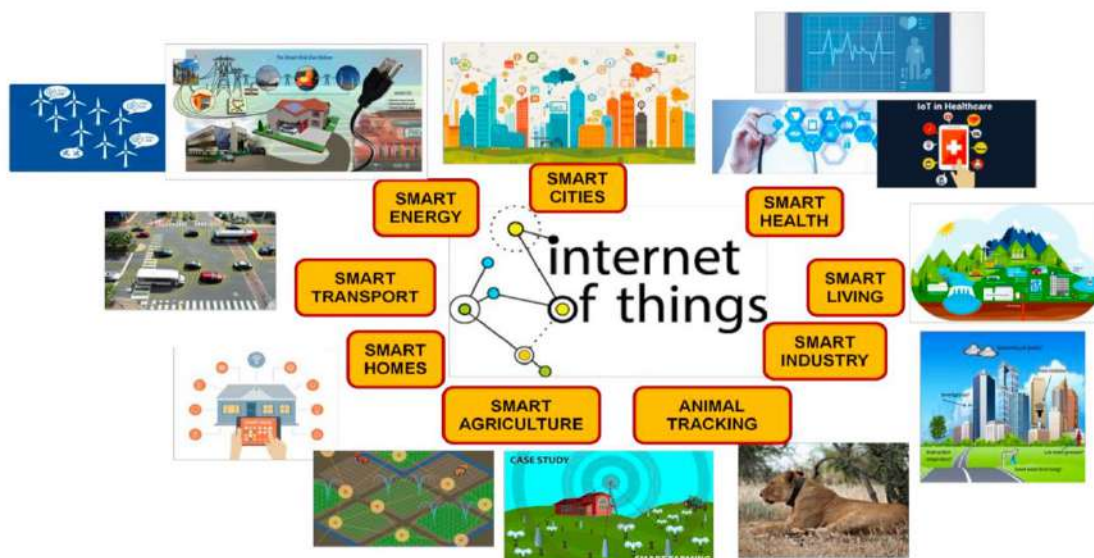
Internet of Smart Environment:
Air Pollution monitoring: Control of CO2 emissions of factories, pollution emitted by cars and toxic gases generated in farms, Forest Fire Detection: Monitoring of combustion gases and fire conditions to define alert zones, Weather monitoring: weather conditions monitoring such as humidity, temperature, pressure, wind speed and rain, Earthquake Early Detection, Water Quality: Study of water suitability in rivers and the sea for eligibility in drinkable use, River Floods: Monitoring of water level variations in rivers, dams and reservoirs during rainy days.

Internet of smart industry:
Explosive and Hazardous Gases: Detection of gas levels and leakages in industrial environments, surroundings of chemical factories and inside mines, Monitoring of toxic gas and oxygen levels inside chemical plants to ensure workers and goods safety, Monitoring of water, oil and gas levels in storage tanks and Cisterns, Maintenance and repair: Early predictions on equipment malfunctions and service maintenance can be automatically scheduled ahead of an actual part failure by installing sensors inside equipment to monitor and send reports.

Internet of smart health:
Patients Surveillance: Monitoring of conditions of patients inside hospitals and in old people's home, Medical Fridges: Control of conditions inside freezers storing vaccines, medicines and organic elements, Fall Detection: Assistance for elderly or disabled people living independent, Dental: Bluetooth connected toothbrush with Smartphone app analyse
the brushing uses and gives information on the brushing habits on the Smartphone for private information or for showing statistics to the dentist, Physical Activity Monitoring: Wireless sensors placed across the mattress sensing small motions, like breathing and heart rate and large motions caused by tossing and turning during sleep, providing data available through an app on the Smartphone.

Internet of smart energy:
Smart Grid: Energy consumption monitoring and management, Wind Turbines/ Power house: Monitoring and analysing the flow of energy from wind turbines & power house, and two-way communication with consumers' smart meters to analyse consumption patterns, Power Supply Controllers: Controller for AC-DC power supplies that determines required energy, and improve energy efficiency with less energy waste for power supplies related to computers, telecommunications, and consumer electronics applications, Photovoltaic Installations: Monitoring and optimization of performance in solar energy plants.

Internet of smart agriculture:
Green Houses: Control micro-climate conditions to maximize the production of fruits and vegetables and its quality, Compost: Control of humidity and temperature levels in alfalfa, hay, straw, etc. to prevent fungus and other microbial contaminants, Animal Farming/Tracking: Location and identification of animals grazing in open pastures or location in big stables, Study of ventilation and air quality in farms and detection of harmful gases from excrements, Offspring Care: Control of growing conditions of the offspring in animal farms to ensure its survival and health, field Monitoring: Reducing spoilage and crop waste with better monitoring, accurate ongoing data obtaining, and management of the agriculture fields, including better control of fertilizing, electricity and watering.

IC ENGINEERING

5 Inspirational Women from Gujarat win NITI Ayog's Fifth Edition of Women Transforming India Awards

1. **Priti Patel, Rajkot, Raspian Enterprises Pvt. Ltd.**

Ms Priti Patel is the Chairperson and Managing Director for a Women Centric Defence Manufacturing Company. Raspian Enterprises was established to manufacture state of the art Small Arms Weapon Systems and Security & Defence Products. It caters to the Indian and Global defence requirements which are unrivalled in reliability, quality and cost efficiency.

She heads a team of experts who work on continuous R&D for product improvements, mainly focused on indigenization of latest technologies. She envisions women of India to participate actively in the Defence and the Security sector.

Raspian Enterprises contributes substantially to making India a self-reliant country in arms and armament for women.

2. **Trupti Jain, Ahmedabad, Naireeta Services Pvt. Ltd.**

Trupti Jain has a distinguished career of working with Non-profits, institutions promoted by the State Government (Education Department, Women & Child Development, Urban Development and Rural Department). Her social enterprise Naireeta Services Pvt. Ltd. (NSPL) is creating gender centric climate change mitigating processes for inclusive development of urban and rural poor women. NSPL is promoting 'Bhungroo', a world bank awarded water irrigation technology. She is pursuing Zero Hunger, No Poverty, Gender Equality and Climate Action through Women Climate Leaders for ultra-poor women smallholders across India, Southeast Asia, East Asia and Africa.

Naireeta Services is resurrecting Mahatma Gandhi's principle of Antodaya, serving the last person in the queue in the best possible ways

3. **Geeta Solanki, Ahmedabad, Unipads India Pvt. Ltd.**

Unipads, founded by Geeta Solanki, is a social business established with a vision to provide affordable and hygienic menstrual health solutions to women. Unipads engages them in manufacturing cost effective reusable/washable cloth sanitary pads and making these available in remote areas. Their manufacturing allows them to reduce the costs by almost 50% over standard disposable pads with its lifecycle of 1 year. Direct customer availability is made by empanelling Women Village Level Entrepreneurs (VLE) known as Kalyanis. Currently they work with 96+ Kalyanis across their network.

Unipads ensures women have access to affordable and hygienic menstrual products and supporting livelihoods by engaging women level entrepreneurs

4. **Dr. Hina Shah, Ahmedabad, International Centre for Entrepreneurship and Career Development (ICECD)**

With a firm belief that economic empowerment is a powerful tool, Hina Shah began working on this idea in the year 1983, keeping in mind how sociocultural, political, physical and religious fields have a direct impact on the lives of women. The first programme, termed as Entrepreneurship

Development programme for women, started with only 25 women of Gujarat, whose businesses are still doing well. This clearly demonstrated the sustainability of

the development approach for achieving women's economic empowerment. In 1986, she also started The International Centre for Entrepreneurship and Career Development (ICECD). Hina's relentless efforts to change the face of the deprived, dependent women of rural and tribal India has created a noteworthy impact. The women improved their status as they began their little businesses, started earning, and making profits for a sustainable and independent living. Hina Shah considers this as a tribute to the humanity and wants to do much more.

ICECD is building an "Entrepreneurial Society", by facilitating access / control of women on productive resources leading to social and economic empowerment.

5. Puunam G Kaushik, Ahmedabad, Meteoric Biopharmaceuticals Pvt. Ltd.

Meteoric Biopharmaceuticals Pvt. Ltd. is a leading, integrated and well diversified Biotech Company. Puunam G Kaushik, Deputy Managing Director works towards pursuing an ambitious goal of introducing specialized biopharmaceutical products & biotech solutions to meet the demands of a quality conscious market. They continuously work towards introducing novel ingredients and formulations in the Biopharmaceuticals market by innovative research techniques and finest service & quality standards backed by strong technical support.

Meteoric Biopharmaceuticals is carving its niche through a commitment to quality & novel technical support.

Source: https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1808758

COMPUTER ENGINEERING

Women by Mahek Desai

Her life starts with a cry
But she always gives a smile
She desires to fly
But the society gives her sighs
Still she never lets her dreams die
And sets out to fly high.

She grows as a daughter then as a sister
And at last walks out as a connector,joining two families together
She serves as a mother
But as a soldier fights like none other

She treats the people as a doctor
And builds the society as an engineer
She reforms the world as a scientist
And also shines out as an artist.
With hundreds of responsibilities
Thousands of sufferings
A few unfolded stories
And an uncountable collection of feelings
She moves on fulfilling and healing
Sacrificing and giving
Sometimes life for the country or happiness for the family
And when all is said and done
She says goodbye to everyone.

COMPUTER ENGINEERING

The Age Of Artificial Intelligence by Vikma Daksh

What is AI?

Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognition and machine vision.

How does AI work?

As the hype around AI has accelerated, vendors have been scrambling to promote how their products and services use AI. Often what they refer to as AI is simply one component of AI, such as machine learning. AI requires a foundation of specialized hardware and software for writing and training machine learning algorithms. No one programming language is synonymous with AI, but a few, including Python, R and Java, are popular.

Is the AI future?

Artificial intelligence (AI), the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. The term is frequently applied to the project of developing systems endowed with the intellectual processes characteristic of humans, such as the ability to reason, discover meaning, generalize, or learn from past experience.

Example Of AI

- Siri, Alexa and other smart assistants
- Self-driving cars like Tesla.
- Robo-advisors
- Conversational bots
- Email spam filters
- Netflix's recommendations(Next To Play)

Artificial intelligence important

- *This has helped fuel an explosion in efficiency and opened the door to entirely new business opportunities for some larger enterprises. Prior to the current wave of AI, it would have been hard to imagine using computer software to connect riders to taxis, but today Uber has become one of the largest companies in the world by doing just that. It utilizes sophisticated machine learning algorithms to predict when people are likely to need rides in certain areas, which helps proactively get drivers on the road before they're needed.*

A.V.PAREKH TECHNICAL INSTITUTE

About Students' Team

Computer Engineering
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- Chatrala Yatri

Electrical Engineering
- Vala Prajesh
- Zala Chandrapalsinh

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- Rupapara Deep
- Sonchatra Hirva

Bio Medical
- Kothiya Hemaxi
- Ghodadara Pratik

CACDDM
- Sonaiya Nikita
- Vagadiya Gayatri

IC
- Rathod Uday
- Patel Ayush