



# NEWSLETTER SPANDAN

Dr. Jivraj Mehta Institute of Technology (DJMIT) and Dr. Jivraj Mehta Institute of Polytechnic (DJMIP)  
An Institute approved by AICTE, New Delhi & affiliated to Gujarat Technological University, Ahmedabad  
Managed by: Charuttar Education & Navrachana Trust

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## FROM THE CHAIRMAN'S DESK



Dear Readers,

*The college days are considered golden days of life. I congratulate our final year students who are now alumni of our institute. Now is the time to face the new challenges with the wealth you have gained during the college days i.e. self-confidence, mental and physical fitness, basic engineering knowledge, skills of judgement and decision making, creativity, innovation, ideas, etc. Hard work and persistence is the key to accomplish any task successfully. I wish that you go ahead and keep up the good work to achieve greater success in education and career ahead.*

*We organize various activities like sports, cultural, technical events along with the regular academics. Students who participate in various activities along with academics gain overall growth and are industry ready. I wish to record my heartily congratulations to those who have brought laurels to the institutions and CoE and I appreciate all the staff and students who have worked together as a team to bring the success in various events campus.*

*I am happy to write the message for the Bi-Monthly Newsletter SPANDAN July 2022 issue, highlighting the activities of the institutes and CoEs. This time the Foundation Day Celebration was special because it was for the first time that the Foundation Day was celebrated for both the institutions Dr. Jivraj Mehta Institute of Technology (DJMIT) and Dr. Jivraj Mehta Institute of Polytechnic (DJMIP).*

*Best wishes for the success and bright future of "SPANDAN".*

*Happy reading.*

**Narendra Shrimali**  
Chairman, CENT

## MESSAGE FROM KEY RESOURCE PERSON

Dear Friends, Greetings!

**CENT** has various **Centers of Excellence (CoE)** and institutes (GTU affiliated and AICTE approved) like **Dr. Jivraj Mehta Institute of Technology (DJMIT)** established in 2010 and **Dr. Jivraj Mehta Institute of Polytechnic (DJMIP)**, established in 2021.

We proudly say that our campus is a happening place and is clean and green due to tree plantation and farming. The management is keen for the upliftment of the nearby rural areas. Various feats have been achieved by CoE and DJMIT and DJMIP institutes under CENT by organizing funded activities like seminars, WS, R&D projects, events, etc.

The **CoE- CPRES**, installed on the DJMIT Main Building, Solar Roof Top Power Plant (GEDA Approved) of 62 kW since 2017 to help generate nearly 431900 units (kWh) till date. Last 3 years generation is about 245000 units (kWh) to compensate electricity bill about Rs. 1 lac per month. A rough estimate shows an offset of about 230000 kg of harmful CO<sub>2</sub> emission in last 3 years by the use of solar plant at the campus. This is equivalent to planting about 5500 trees or removing nearly 40 cars from road for an entire year.

**AISECC** activities include Carbon Neutral and Resilient Farming, Energy efficiency and renewable, Education and Health, Women Entrepreneurship. The AISECC facilities include the State of the art laboratories, Hall for training purpose and Link up with most prestigious research and missionary organizations. AISECC, has various achievements like Cool Roof Pilot project for Anganwadi, Gaushala and Residential Dwelling in nearby villages. A Full scale biogas plant of 45m<sup>3</sup> at Uday Farm, DJMIT Campus Mogar and 85m<sup>3</sup> at Vaghrol, Dantiwada road, Deesa has been successfully constructed and to be commissioned in near future. Also a 5000m<sup>3</sup> bio-generation plant planning is under way. The site allocation and contract are already in the final stage. AISECC is studying and focusing on Carbon Sequestration by using activated carbon production from Julifora Prosopis.

**Environmental Testing and Research Laboratory (ETRL)** had initial investment of Rs. 50 lac in 2020. It achieved Schedule 1 auditor license by GPCB in 2021 and reputed major industries for conducting environmental audit by GPCB in 2021-22 and 2022-23.

ETRL has conducted full-fledged consultancy with turnover of Rs. 60 lacs in 2021-22. ETRL is fully equipped with the state-of-the-art instruments and facilities to conduct air monitoring, water and wastewater analysis, soil and solid waste analysis, etc as per GPCB standards and APHA guidelines.

**CoE – Start Up and Incubation Centre (SICD)-DJMIT**, supports the activities/ innovative projects with the help of core team consisting of stalwarts from industry, academics, etc. like venture selection and review, mentoring, seed funding, infrastructure support, resource network dev., etc. It also supports entrepreneurship, innovation and proposal guidance.

The trust is also into one project of affordable housing wherein low cost houses templates are prepared to support the government scheme for poor people. The initial stages of sample house, its estimated cost, etc. is complete and we are waiting for the government approval to begin with large scale buildup.

The campus has fully fledged Central Library and DJMIP Library comprising collection of large number of book-volumes, e-books and e journals, also national and international journal subscriptions, daily newspapers, project reports, dissertations, reference books, donated books, library software with DELNET membership of staff/ students, audio-visual materials, CDs, etc.

**DJMIT and DJMIP**-The Departments vision and mission are in line with the institute vision and mission. All Departments have experienced staff and have achievements like technical paper publishing at national and international levels, lab development, making inhouse projects by final year students, different events such as Cultural, Technical, Sports, Expert Talks, Webinars, Internship, Industrial Visit, Site Visit, funded seminars/ workshops and R&D projects with GUJCOST, IEI, GEDA, etc. Some departments also are involved in funded activities like Gujarat Technological University - Vishwakarma Yojna –VIII and IX SSIP, IIRS-ISRO outreach programme, etc.

We are proud to have staff and students who have excelled since 2010. Students were in the GTU rank list (SPI/ CPI based) and topped or received prizes in various events like Technical, Cultural or Sports events at Institute as well as at Zonal, Inter-Zonal, GTU or AIU level or in the events organized by agencies other than GTU. Students got placement in many companies and our alumni are in various countries with many pursuing higher studies.

This is the spectra of CENT and the institutes and CoE under it. Happy reading & Best wishes to SPANDAN!



**Himanshu Parmar,**  
Vice-Chairman (CENT)

## EVENTS AT THE INSTITUTE

### SEED BALL PROJECT BY NSS CELL, DJMIT

NSS Cell, DJMIT conducts various activities with the student volunteers.

Recently a unique initiative was taken up by NSS Cell team members with motto of Environment Conservation called 'Seed Ball Project'.

#### Aim of the Initiative:

- Learning importance of environment and its conservation after the recent epidemic like Corona, all over the world the people.
- In the monsoon if the seeds are planted in the ground they have full chance to grow up faster and be the part of natural cycle for herbs, flowering plants, trees, animals and birds.
- Learning importance of team effort with positive motto and activities of team leader and team member to make an event successful.
- Spreading message to commuters and residents of NH 48, Anand district region to protect and preserve the environment by growing plants and using paper bags instead of plastic bags.

Under the initiative a total of over 1000 Seed Balls (placing the seed in balls made out of regular mud) were planted at various open places of Anand district.

The NSS Cell, DJMIT collected different plant seeds from to raise trees and plants of different species during monsoon.

During the activity, these seed balls were made of seeds of plants like Ashwagandha, Garamalo, Kuvadiao, Billi, Gulmahor, Satavari, Chimed, Ram Tulsi, Shyam Tulsi, Kopalvel, Galla, Marvo.

The logic is that when it rains, these balls thrown into the wet soil at different places will grow at that location. The seed balls prepared were put in paper bags prepared and distributed by NSS Student Volunteers.

The seed balls were distributed on the different locations of NH-48 range by the NSS student volunteers of the institute with a view to spread the message of avoiding plastic bags and sharing the information to the common man along with paper bags made by the students of the institute to replace the plastic bags.

#### Glimpses of the Project:



Glimpses of Preparation and Display of Seed Ball and Paper Bags

The seed balls were given to all the Trustees and Principals of the DJMIT and DJMIP Institute. The dignitaries congratulated the DJMIT - NSS Program Officer Mahesh Chavda and Student Volunteers for this initiative.

The message conveyed was:

**'GROW MORE TREES'**

**'AVOID PLASTIC BAGS AND USE PAPER BAGS'**

## GREAT PERSONALITIES

### PRAVIN MAHADEO THIPSAY

#### The Man who took Chess to Common People of India

**Pravin Mahadeo Thipsay** (born 12-11-1959) is the Indian Chess Player holding title of International Master (1983) and FIDE title of Grandmaster (1997). In the Indian Chess History, he is 3<sup>rd</sup> Indian to attain Grandmaster title after Vishy Anand and Dibyendu Barua and 1<sup>st</sup> Indian to get Grandmaster (GM) norm and the 1<sup>st</sup> Indian to win the Commonwealth Chess Championship. The Indian Govt. conferred its highest sports award of that time, the Arjuna Award (1984) on him. He also received Dadoji Kondeo Award from Govt. of Maharashtra.

**Life:** Balmohan Vidyamandir School, Mumbai and Master of Science from M.V&L.U.College of Arts and Science. He married to the International Woman Master Bhagyashree Sathé Thipsay.

At his peak in 1981, Thipsay had an impressive world ranking of 141 when chess was not famous in India. He played for nearly 44 years (1975 to 2019). He won seven National titles and represented India several times at the Chess Olympiad. Before becoming Grandmaster, he had already won the Indian Chess Championship in 1982, 1984, 1985, 1989, 1992, 1993 and 1994 and had represented India in the Chess Olympiads of 1982, 1984, 1988, 1992, 1994, 1998 and 2002.

He won a gold medal for India in the Asian championship. He was the Joint Silver Medalist in the Commonwealth Chess Championship in 1986 (London), in 1989 (London), in 1991 (London), in 1994 (London), in 1996 (Kolkata, India), while he won the bronze medals in the Commonwealth Chess Championship in 1999 (Bikaner, India), in 2000 (Sangli, India) and in 2004 (Mumbai, India). He was also the Individual Gold Medalist in Asian Teams Chess Championships in 1983 (New Delhi, India) and in 2003 (Jodhpur, India). In 2007, he won the FIDE Rated All India Open Chess Tournament in Mangalore.

Notable Tournaments include Indian Championship (1999), British Championship in 1982, 1983, 1984, 1985, 1991, 1998 and 1999, Commonwealth Championship (1985), Indian Championship (2002), Lloyds Bank Masters Open in 1985, 1991 and 1994, Indian Premier National A Championship (2009), Thessaloniki Olympiad (1984).

He was one of the greatest players produced and first international class player that came out of our country. In early 80's, he was the leading Indian player before the popularity of Chess in India due to Vishwanathan Anand. He missed GM norms on multiple occasions by whiskers and during those days it was very hard to get it. But lack of opportunities and change in time control cost him. Right upto mid 90's he was the second best Indian player. At that time (in 1980s or 90s) it was easy to play chess or gain access to a chess club but difficult to reach higher levels.

This was due to less popularity and awareness, chess training, literature, free information sources, etc.

**Pravin Thipsay filled this gap.** He took the chance of writing a column on Chess in The Times of India daily in 1991 every Sunday. **He took the game to the common people of India. The Thipsay chess column remained unbroken till 20 years.** He also starting writing for an international chess magazine called New in Chess (The Netherlands) and Chess Informant (Serbia) which helped him to collect more news and interesting games for his column. All India Chess Federation Chess Forum magazines showed all the results and highlights of good games of winning players. He covered unknown players as Anand was famous at world level. He used simple explanation and elaboration of games, chess puzzle, etc. and used to write on chess history, old Chess Masters, opening and end game moves, upcoming stars in Chess, etc. In those days writing column was not easy as email, databases, search engines, etc. were not available so there was a challenge to collect the relevant materials. He used to share his experiences of Indian and International games/tournaments. He tried to bring chess culture in India.

He is FIDE Senior Trainer/ Arbiter. He created trainers and trained countless players who won numerous medals for India by inculcating knowledge and improving their strength. He is Chief Coach at Thipsay Chess Academy, Grandmaster Chess Academy and Leading Chess trainer in India since 1978. His experience helps him to discuss principles of warfare and strategy and draw examples from Chess (may it be the legends/ legendary matches), other sports, etc.

**He came in the news again because of the recent events.**



On Tuesday 21<sup>st</sup> June 2022, Mr. Manoj Sinha, Hon'ble Lt. Governor of Jammu & Kashmir received the Chess Olympiad Torch at Srinagar. He handed it over to India's third GM in history, Pravin Thipsay who carried the Torch from Srinagar to Jammu where he handed over the Torch to the President of All J&K Chess Association and Joint Secretary of AICF, Atul Kumar Gupta.

We hope that he becomes torch bearer for many new chess players.

**By: Prof. Avdhoot Jejurkar**

I/c Principal, DJMIP

## STUDENTS AND ALUMNI

### 'JULIA' MUJHSE DOSTI KAROGI?

- In today's era, we are in that phase where software and technologies are updated every single day. This is due to the software technology revolution. Open source looks like the future of software development. So a question comes to the mind of all coders is that what skills coders should acquire in order to stay in demand?
- When it comes to programming languages, Python is the crowned king of languages since a long time. And the introduction of concepts of Machine Learning in all the new sectors indicate that Python's run hasn't ended yet.
- A few studies estimate that by 2025 Data Analysis and Machine Learning (ML) will generate 20 million new jobs. So Data Analysis and ML looks quite promising sector in the upcoming years. As per these studies Python is going to be in demand, but there is a new competitor in the market.

### Hello JULIA!

- Even though Python is such an easy to learn language and its libraries help out everywhere to lessen the code but there are still some limitations to Python as well i.e. being slow to requiring excessive testing, to producing runtime errors despite prior testing, etc.
- Julia on the other hand is great for mathematical and technical tasks. Since data scientists and AI specialist deals with lots of mathematical and technical tasks, Julia is a winner for them.
- When people create a new programming language, they do so because they want to keep the good features of old languages and fix the bad ones.
- In this sense, Guido van Rossum created Python in late 1980s to improve Atanasoff-Berry Compute (ABC) language. But the creators of Julia are still not satisfied and want more from a programming language.

- Their statement is:

"We are greedy: we want more. We want a language that's open source, with a liberal license. We want the speed of C with the dynamism of Ruby. We want a language that's homoiconic, with true macros like Lisp, but with obvious, familiar mathematical notation like Matlab. We want something as usable for general programming as Python, as easy for statistics as R, as natural for string processing as Perl, as powerful for linear algebra as Matlab, as good at gluing programs together as the shell. Something that is dirt simple to learn, yet keeps the most serious hackers happy. We want it interactive and we want it compiled."

### What does Julia offer?

- **Versatility** => Julia can be used for everything from simple machine learning applications to enormous supercomputer simulations. Yes Python also does it but Python grew up in the job while Julia was specifically made for this.
- **Speed** => In 2017, Julia even joined the Petaflop Club — the small club of languages who can exceed speeds of one petaflop per second at peak performance. Apart from Julia, only C, C++ and FORTRAN are in the club right now.
- **Code Conversion** => You don't even need to know a single Julia command to code in Julia. Not only can you use Python and C code within Julia. You can even use Julia within Python!
- **Libraries** => Python has hands down the best set of libraries, Julia doesn't have that yet. But considering that Julia is still a much young language and thus we could expect that Julia's libraries will get updates as the time flows.

### Should you learn Julia?

- Well, Julia is still a young language and its bugs are getting found and fixed, if you start learning Julia right now you might encounter a bug which was never faced before, but you also get to be the part of community and solve the bugs of the language together with programmers all over the world.
- Right now, the community is still small, so you may add it in your resume and help outshine other developers. It could be looked up as an investment for the future and thus small developers of today could become tech giants of tomorrow. The mantra of the technology industry is "Stay Curious! Stay Relevant! "

**By: Harsh Ghodkar**

Alumni, Computer Engineering Department,  
DJMIT

***"Anything that is theoretically possible will be achieved in practice, no matter what the technical difficulties are, if it is desired greatly enough."***

**- Arthur C. Clarke**

## ADMISSIONS 2022-23

AT

DIPLOMA, DEGREE AND MASTERS AT DEGREE COLLEGE (DJMIT) AND POLYTECHNIC (DJMIP)

### ચારુતર એજ્યુકેશન એન્ડ નવરચના ટ્રસ્ટ સંચાલિત

ડૉ. જીવરાજ મહેતા ઈન્સ્ટીટ્યૂટ ઓફ ટેકનોલોજી DJMIT      ડૉ. જીવરાજ મહેતા ઈન્સ્ટીટ્યૂટ ઓફ પોલીટેકનિક DJMIP

પ્રવેશ ચાલુ છે

બી.ઈ. અને ડિપ્લોમા એન્જિનિયરિંગના પ્રથમ અને બીજા વર્ષ માટે

પ્રવેશ ચાલુ છે

ધોરણ ૧૨/ ડિપ્લોમા (DtoD) પછી એન્જિનિયરિંગના અભ્યાસક્રમો

- સિવિલ
- કોમ્પ્યુટર
- ઈન્ફોર્મેશન એન્ડ ટેકનોલોજી
- માસ્ટર ઓફ એન્જિનિયરિંગ (M.E.)
- મીકેનિકલ એન્જિનિયરિંગ (થર્મલ)
- ઈલેક્ટ્રિકલ એન્જિનિયરિંગ

- ડૉ. જીવરાજ મહેતા કોલેજ આગળ જ બસ સ્ટોપ ની સમીપ.
- છોકરા અને છોકરીઓ માટે અલગ હોસ્ટેલની સુવિધા
- 24 કલાક WiFi સજ્જ હોસ્ટેલ અને કેમ્પસ
- નોકરી મેળવવા માટે તાલીમની સુવિધા
- જિમ, કેન્ટીન તેમજ સ્મૃત-ગમત માટે વિશાળ મેદાન
- અનુસુચિત જાતિ (SC) તથા અનુસુચિત જનજાતિ (ST) વિદ્યાર્થીઓ માટે રહેવાની, ભણવાની અને જમવાની મફત સુવિધા.

ધોરણ ૧૦/ ITI (CtoD) પછી એન્જિનિયરિંગના અભ્યાસક્રમો

- સિવિલ
- કોમ્પ્યુટર
- મીકેનિકલ

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ઓફિસ લેન્ડલાઈન B.E અને M.E માટે (02692-221000/27)      ડિપ્લોમા માટે (02692-221016/16)  
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### ADMISSION TEAM FOR DJMIT AND DJMIP FOR 2022-23

DJMIT ADMISSION TEAM for UG/ PG			DJMIP ADMISSION TEAM for DIPLOMA		
<b>Convener</b>	Amit Patel		<b>Convener</b>	Manish Rohit	
<b>Nodal Officer</b>	Anirudh Singh		<b>Nodal Officer</b>	Amit Patel	
Members					
	Vivek Patel	Surendra Kumavat	Sanjay Macwan	Hiren Talati	
Supported by Admin and Account Staff of DJMIT and DJMIP					

## EVENTS AT THE INSTITUTE

### EVENT:

### WORKSHOP ON WOMEN'S SELF DEFENCE AWARENESS

CHARUTTAR EDUCATION AND NAVRACHANA TRUST (CENT) organized a Workshop on "Women's Safety & Self Defense Awareness" on Thursday, 27<sup>th</sup> April 2022. The workshop was conducted as per circular issued by the Gujarat Technological University for 'Women's Self Defence Awareness.' The Workshop was organized for Female Staff and Students.

CENT invited Martial Arts and Self Defense experts, Renshi Jignesh Thakkar (Black belt 6<sup>th</sup> Dan) and Sensei Darshana Thakrar (Black belt 3<sup>rd</sup> Dan). They shared their views on women safety and demonstrated moves for self-defence.

At the beginning of the Workshop Prof. Riddhi Patel (Convener, Women's Development Cell, DJMIT) welcomed Renshi Jigneshkumar Thakkar with a bouquet and Miss Hetal Pattani (Convener, Women's Development Cell, DJMIP) welcomed Sensei Darshana Thakrar with a bouquet.

#### Aim of the workshop

To bring the awareness of self defense  
To prepare female staff and students to develop mental and physical alertness for unexpected situations

The workshop was attended by almost 50 female staff and students from various departments of DJMIT and DJMIP institutes.

### GLIMPSES OF THE EVENT



#### The Workshop Coordinators:

Prof. Riddhi Patel, Head-General Dept, DJMIT

Prof. Megha Shah, Faculty, IT Dept, DJMIT

Ms. Hetal Pattani, Faculty, General Dept, DJMIP

***"All our exalted technological progress, civilization for that matter, is comparable to an axe in the hand of pathological criminal"***

**- Albert Einstein**

