



महाराष्ट्र शासन

# तंत्र शिक्षण विभागीय कार्यालय, पुणे



दूरध्वनी क्र.०२०-२५६५६२३४/२५६५७१७६  
Email ID : ropune@demaharashtra.gov.in

४१२/ब, तिसरा मजला, तंत्रशिक्षण मंडळाची नवीन इमारत,  
बहिरट पाटील चौक, शिवाजीनगर, पुणे ४११०१६.

जा. क्रमांक : तंशिविकापु/विवि/डिपेक्स-२०२४/ई-ऑफिस प्रणालीद्वारे

दिनांक : १५.०२.२०२४

## परिपत्रक:

प्रति,  
संचालक/प्राचार्य,  
सर्व शासकीय, अशासकीय अनुदानित  
तसेच खाजगी विनाअनुदानित संस्था,  
पुणे विभाग.

### विषय : डिपेक्स-२०२४ मध्ये सहभाग घेणेबाबत..

- संदर्भ : १) निमंत्रक, डिपेक्स, पुणे ४११०३० यांचे पत्र दिनांक ३१.०१.२०२४  
२) मा. संचालक, तंत्रशिक्षण संचालनालय, म.रा., मुंबई यांचे पत्र  
क्र. १०/एनजीपी/डिपेक्स-२०२४/४३ दिनांक ०२.०२.२०२५.

उपरोक्त विषयास व संदर्भ क्रमांक १ मधील पत्राच्या अनुषंगाने, निमंत्रक, डिपेक्स-२०२४, पुणे यांचेमार्फत डिपेक्स-२०२४ चे आयोजन नवी मुंबई येथे दिनांक ०७.०३.२०२४ ते १०.०३.२०२४ या कालावधीत करण्यात येणार आहे. डिपेक्स हे महाराष्ट्र आणि गोवा राज्यांतील अभियांत्रिकी अभ्यासक्रमांच्या विद्यार्थ्यांनी तयार केलेल्या प्रोजेक्ट्स मॉडेल्सची राज्यस्तरीय प्रदर्शन व स्पर्धा असून याद्वारे विद्यार्थ्यांना त्यांची सर्जनशीलता, नाविण्यपूर्णता प्रदर्शित करण्याची आणि उद्योगधंद्यांच्या प्रतिनिधींशी संवाद साधण्यासाठीची संधी आहे. त्यामध्ये अभियांत्रिकी क्षेत्रामधील पदविका, पदवी व पदव्युत्तर पदवी स्तरावरील विद्यार्थी सहभागी होत असतात.

आपणांस कळविण्यात येते की, सोबत संदर्भ क्रमांक १ मधील पत्र जोडले असून, डिपेक्स-२०२४ प्रदर्शनात तसेच स्पर्धेत सहभागी होण्यासाठी आपल्या संस्थेतील विद्यार्थ्यांना सूचित करावे, तसेच सदर माहिती आपल्या संस्थेच्या संकेतस्थळावर प्रसिध्द करण्यात यावी.

सोबत : संदर्भ क्र. १ मधील पत्र.

(**डॉ. द. व्यं. जाधव**)

सहसंचालक,

तंत्रशिक्षण विभागीय कार्यालय, पुणे



Address : DIPEX, A-3, 1525, Suvidha Smita Apts., Sadashiv Peth, Pune 411030

Email : [dipex@srijan.org.in](mailto:dipex@srijan.org.in) | 93097 18530

Date: 31/01/2024

To,  
The Director,  
Directorate of Technical Education,  
Mumbai.

**Subject:** Appeal for notification of DIPEX-2024 Event 7<sup>TH</sup> TO 10<sup>TH</sup> MARCH 2024, NAVI MUMBAI to colleges across Maharashtra in order to encourage participation.

Dear Sir / Madam,

It gives us immense pleasure to introduce SRIJAN which is focused on facilitating and enhancing industry-academia interactions, Encouraging Innovation and developing Entrepreneurial passion amongst the Engineering students in the States of Maharashtra and Goa.

DIPEX is the most prestigious & most popular state level exhibition cum competition of projects for engineering diploma & degree students. The success of DIPEX has been in its reach amongst students & a strong connection between academic institutions & industry that DIPEX has fostered over years. During last 32 years, DIPEX has been a platform for over 4400+ projects and 45000+ students to showcase their talent and innovation in front of society. DIPEX-2024, the 33rd Event in this series will be held in NAVI MUMBAI during 7th TO 10<sup>th</sup> MARCH 2024, for which Students can apply upto 11:59 p.m. on 7th February 2024

DTE has always been supporting the event as DIPEX is providing next level opportunity to the engineering students.

This year we are expecting the same support and are very optimistic that a notification about DIPEX – 2024 to all engineering and diploma colleges across Maharashtra through MSBTE will generate a positive outlook and encourage participation of students with innovative ideas which will ultimately contribute immensely to the field of engineering. Also, we request you to notify students through website of DTE online.

We sincerely request DTE to look forward to this kind request and co-operate with us for the same.



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Awaiting your positive response.

With warm regards,

Dr. Rajendra Hiremath  
**Treasurer**  
**SRIJAN**

Shri. Rushikesh Potdar  
**Convener**  
**DIPEX - 2024**

For more information and reply: Sankalp Phaldesai: 9423307822,  
[sankalpphaldesai@gmail.com](mailto:sankalpphaldesai@gmail.com)



**SRIJAN**  
DIPEX CENTER FOR  
ENTREPRENEURSHIP DEVELOPMENT

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Email: [dipex@srijan.org.in](mailto:dipex@srijan.org.in) | Contact: 020-2443 6400 | 8275518814

Outward No.: SRJ/DIP/2024

Date: 16/01/2024

To  
The Principal/Director

Respected Sir/Madam,

With immense pleasure, **Akhil Bharatiya Vidyarthi Parishad (ABVP) and Srijan Trust** hereby announce its flagship activity DIPEX-2024. DIPEX is India's one of the largest and the most prestigious state level exhibition-cum-competition of working models of projects prepared by the students of Diploma, Degree, PG in Engineering/Technology and Agriculture as well as ITIs in the State of Maharashtra and Goa. It will be held during **7<sup>th</sup> to 10<sup>th</sup> March 2024** at **Navi Mumbai**.

As a part of DIPEX, we would like to embark on a newer voyage and plan to work with the academic institutions and the industries with a vision of taking the technological excellence of engineering education to next level. In the context of incredible technological advancements, DIPEX 2024 invites projects on various interdisciplinary themes viz. Mobility, Sustainable Civil Infrastructures, Computational Intelligence, Agricultural Technology, Medical/Healthcare Technology, Energy, Waste Management, Industrial Automation, Defence and Cyber Security.

DIPEX has consistently drawn industry attention over the past 32 editions. Students who enter this competition will have the chance to showcase their innovative work to professionals from industry and academia. Therefore, we kindly seek your personal attention to assure your institution's participation in this renowned competition.

Kindly arrange to display/share the enclosed details to the students of your esteemed institute and encourage them to participate.

Looking forward for your co-operation to make the DIPEX-2024 a grand success.

Thanking you,

<b>Dr. Rajendra Hiremath</b>	<b>Shri. Ashish Uttarwar</b>	<b>Shri. Sankalp Phaldesai</b>	<b>Shri. Rushikesh Potdar</b>
<b>Treasurer</b>	<b>Member</b>	<b>Secretary</b>	<b>Convener</b>
<b>SRIJAN</b>	<b>SRIJAN</b>	<b>ABVP Konkan</b>	<b>DIPEX – 2024</b>



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## About Organizers

### ❖ Akhil Bharatiya Vidyarthi Parishad (ABVP):

**ABVP** is the premier students' organization of our country which has attained glory of becoming the largest student organization of the world. Right since its inception in 1949, with a focus on student concerns, ABVP has been continuously at the forefront to channelize the youth energies towards constructive cause. ABVP is also aware of its broader responsibilities as a social organisation DIPEX is a step ahead in this endeavour.

### ❖ SRIJAN:

We consider Entrepreneurship is a way of life. Keeping this in view, '**Srijan**' (A DIPEX Centre for Entrepreneurship Development) was established in 1996 under the Bombay Public Trust Act. However, exhibiting the working models and awarding the prizes to the best models is not the only aim of DIPEX. SRIJAN offers assistance to the budding engineers to start their own venture i.e., Entrepreneurship Development as well sincerely takes efforts to carry out Industry-Institute-Society Interaction through its various activities.

## About DIPEX

- DIPEX, started in the year 1986, is a state level exhibition cum competition of the working models prepared by the students of Diploma, Degree, ITI, PG in Engineering as well as Agriculture in the State of Maharashtra and Goa.
- It is an effort to give exposure to the creativity of students. It is the only platform where the students get an opportunity to not only showcase their innovative concepts but also get to interact with renowned industrialists, academicians, and the entire cross-sections of the society.
- During the four days of DIPEX, exchange of culture, thoughts and concepts takes place between the students from all corners of Maharashtra and Goa.
- Today, DIPEX has become a unique platform of Industry-Institute-Society Interaction.



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## Features:

- Interdisciplinary Themes: Mobility, Sustainable Civil Infrastructures, Computational Intelligence, Agricultural Technology, Medical/Healthcare Technology, Green energy, Waste Management, Industrial Automation, Defence and Cyber Security.
- Over 1000 participants from Diploma, Degree, ITI, PG in Engineering and Agriculture colleges from all over Maharashtra and Goa.
- Brain storming Interactive Sessions/Seminars/Workshops on Futuristic technologies and Social themes for participants as well as for Project Guides.
- Visitors:
  - Esteemed entrepreneurs, renowned personalities from prominent Industries and research institutions.
  - Academicians and Students of Engineering/Technology, Science and Agricultural colleges, ITIs as well as Schools from all over Maharashtra and Goa.
- Awards:
  - **SHODH Award:** To the most innovative project of DIPEX - 2024
  - **Best Industry Sponsored Project (ISP) Award:** To the Industry Sponsored Project of DIPEX-2024 that has given solution to real life industry problems (Which involves participation from industry in terms of financial support or technical guidance.)
  - **Women And Technical Innovation (WATI) Award:** Awarded to the best project prepared exclusively by group of girl participants.
  - **MSBTE Award:** Sponsored by MSBTE to the outstanding project made by Diploma students.
  - **General Championship:** To the Institute/College based on its overall performance in the exhibition.
  - Prize to the best project by diploma as well as degree student in each theme.
  - Prize to the best project from ITI pavilion.

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## Competition Rules:

- The competition is **open to the students of Diploma, Graduation and Post-graduation in Engineering and Agriculture** [Diploma/B.E/B.Tech/B.Sc (Agri.), M.E/M.Tech/M.Sc (Agri.)] as well as ITIs in the State of Maharashtra and Goa.
- There is no restriction on the number of entries to be sent by any Institute/College in these sections.
- Maximum number of participants in each project group should not exceed **4 for Diploma, 6 for Degree, 1 for PG, and 4 for ITI.**
- In the prequalification round (Scrutiny Process), all the entries will be examined by the members of scrutiny committee based on the synopsis submitted by the students. Entries selected in the scrutiny process will be invited to participate in the exhibition at the venue. Selection of entries will be intimated to colleges and participants.
- Use of readymade PCB's will not be allowed for the models prepared by the students of Electronics Group.
- CAD diagrams are to be added with synopsis wherever possible in case of projects having mechanical design.
- Prizes in each theme section will be awarded as follows:
  - First and second prize for the projects prepared by diploma students
  - First and second prize for the projects prepared by degree students
- Various themes and related project areas are as mentioned in Table 1. Theme sections and project areas.
- First and second prize for the projects prepared by ITI Student (Separate Section).
- Project group may consist of students from same/different Colleges, Branches, Years (i.e., Inter College/Inter Disciplinary group) can send entry in any theme.
- **Participants must carry I-Card and bonafide certificate (issued by their college) at the time of reporting at the venue.**

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Table 1. Theme sections and project areas

Theme	Section	Project areas (not limited to)
<b>Mobility</b>	M	Projects related to innovations in automobile Engineering, aerospace engineering, eMobility – battery management systems, converters, charging systems, material handling equipment, drones, Safety Equipment etc.
<b>Sustainable Civil Infrastructure</b>	S	Projects related to advancements in roadways structures, bridge infrastructures, building infrastructures, infrastructure for natural hazards, sustainable engineering materials in transportation infrastructures, tunnelling techniques, underground infrastructures, etc. innovations in civil engineering, Architectural Simulation.
<b>Computational Intelligence</b>	C	Projects related to artificial intelligence (AI), machine learning, computer vision, innovations in computer/IT engineering, Block chain, Data Science etc.
<b>Agricultural technology</b>	A	Projects related to Agricultural technologies, irrigation systems, precision agriculture, smart farming, aquaculture, and agroforestry, food technology, Rain Water Harvesting, Green House etc.
<b>Healthcare/Medical technology</b>	H	Projects related to innovation in medical devices, medical electronics, tele-medicines technologies, health informatics, pharmaceutical technologies, Medical Science etc.
<b>Energy</b>	G	Renewable energy sources, energy saving devices/equipments/processes, etc projects related to energy.
<b>Waste Management</b>	W	Projects related to recycling of all types of materials, waste-to-energy systems, biodegradable materials, landfill management, environmental engineering, pollution control devices, chemical engineering, etc.
<b>Industrial Automation</b>	I	Projects related to robotics, instrumentation, Industry 4.0, automatic material handling, projects related to micro-processor, IOT etc.
<b>Defence and Cyber security</b>	D	Projects related to defence innovations and cyber security and data privacy.
<b>Open Innovations</b>	O	Other innovative projects that many not be included in above themes.



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### Marking scheme:

Table 2. Points of project evaluation for reference.

Sr. No.	Heads	Marks
1	Appropriateness of the model in section	5
2	Field and/or Literature Survey and Problem Identification	10
3	Knowledge of participants about the theory involved	10
4	Innovativeness and originality	10
5	Workmanship and quality of model	15
6	Work ability/Feasibility of the solution/model	15
7	Social Impact: Application/practical utility to industries/agriculture/society/betterment of rural life.	15
8	Commercial viability/potential	10
9	Environmental care	5
10	User friendliness	5
	<b>TOTAL</b>	<b>100</b>



AKHIL BHARTIYA  
VIDYARTHI PARISHAD



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## GENERAL RULES

1. It is recommended to have students of the same institute in a project group. Collaboration of students from different disciplines (/branches) and years can be considered in case of interdisciplinary work.
2. Maximum number of participants in each project group should not exceed 4 for Diploma, 6 for Degree, 4 for ITI, 1 for PG. Team leader must inform Team DIPEX in prior in the case of replacement of participants (if any).
3. Students can send an entry in any section irrespective of his/her discipline. While filling up the entry form, **theme must be selected on the application of the model** and not on the discipline/branch of Diploma/Degree/ITI/PG course.
4. The choice of section should be given by the students themselves in the entry form while submitting the form. Thereafter, no change in this choice will be allowed.
5. Participant must exhibit their working models in DIPEX. Only Industry Sponsored Projects which are not feasible to exhibit in the event can present their project in the form of presentation with actual videos. In such case, a letter from the sponsor industry stating the reason for not showcasing project in event must be submitted at the time of reporting.
6. Industry Sponsored Projects must attach the Certificate of sponsorship and acknowledgment of the solution given to the industry at the time of reporting and application submission.
7. The list of selected entries will be displayed on the website by 15-02-2024 and only selected models will be exhibited in the competition.
8. Participants will receive an email containing the PDF copy of the form filled online. Carry the six hard copies of this PDF and Synopsis along with selection letter at the time of reporting.
9. Final round of the examination will be held during the exhibition.
10. The judges will have the authority to not to examine model exhibited in an incorrect section and disqualify the same. Participation certificate will not be awarded to any disqualified group.
11. The entry form is available at [www.srijan.org.in](http://www.srijan.org.in) and to be filled and submitted ONLINE ONLY.
12. Entry fee for each model will be Rs. 800/- (Rs. Eight hundred only)

**Entry fee is non-refundable and to be paid online only.**

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13. All participants must produce their College IDENTITY CARDS while reporting for the competition. Those without valid ID card shall not be allowed to participate.
14. The models will be examined by a panel of judges that include industry and academic experts of that field.
15. All the participants must be present with their models at the time of examination and should answer the questions by the judges.
16. Only the Participants present at the exhibition for all days will get a participation certificate.
17. A trophy of “General Championship” will be awarded to the institute based on its overall performance in the exhibition.
18. All the participants will have to report on 7<sup>th</sup> March 2024 at 9.00 am and keep the models ready working before 11.00 AM on the same day. Participants reporting late may not be allowed to participate in the competition.
19. The organizers will provide a stall with sunshade 2m X 3m, a single-phase electrical supply up to 2 kW.
20. Connections above 2 kW load and three phase electrical connections will be provided only with prior intimation at an extra charge of Rs. 250/- (Two hundred fifty only) per connection to be paid at the time of reporting at the Event.
21. The organizers will arrange water for project, if required with prior intimation.
22. Participants have to make the arrangement of their own if they require other utilities like air compressors, oscilloscope or computers, stabilizers etc. Projects having computers must bring stabilizer and other required accessories.
23. Lodging arrangements will be provided for girl participants at reasonable charges, with prior intimation.
24. Catering services will be made available at the exhibition venue at reasonable charges.
25. Travelling expenses to be borne by the participants themselves or by the Institutions.
26. The participants may obtain students concession for DIPEX-2024 through their Institutions.
27. **The decision given by judges in all the matters shall be final.**
28. All participants must strictly follow the rules and regulations as well as schedule of the event. Breaking any discipline will immediately result in disqualification of the participant (or his/her project group) from the event.
29. The Organizers reserve all rights and authorities regarding all the matters related to DIPEX-2024.
30. Personal promotion or any kind of advertising by participating teams is strictly prohibited.

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Table 3. Schedule of DIPEX – 2024

<b><u>Schedule of DIPEX – 2024</u></b>		
1	Date	7 <sup>th</sup> – 10 <sup>th</sup> March 2024
2	Venue	Navi Mumbai.
3	Last date of receiving completed Entry forms along with payment of fees.	30 <sup>th</sup> January 2024.
4	Intimation to selected entries	15 <sup>th</sup> Feb 2024
5	Reporting at the venue by all the participants with their models	7 <sup>th</sup> March 2024, 09.00AM.
6	Examination/Assessment	10 <sup>th</sup> March 2024
7	Valedictory Function and Prize distribution	10 <sup>th</sup> March 2024 5.00 PM – 7.30 PM.

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## Awards and Prizes:

Table 4. Award and prizes in DIPEX – 2024

<b>Themes:</b> Mobility, Sustainable Civil Infrastructures, Computational Intelligence/Cyber Security, Agricultural Technology, Medical/Healthcare Technology, Green energy, Waste Management, Industrial Automation. (Section M to I)	For the project prepared by diploma students (in each theme section)	First prize: A Trophy, Certificates and Rs. 10,000 cash Second prize: A Trophy, Certificates and Rs.5000/- cash
	For the project prepared by degree students (in each theme section)	First prize: A Trophy, Certificates and Rs. 10,000 cash Second prize: A Trophy, Certificates and Rs.5000/- cash
ITI Section	For the project prepared by ITI students (in ITI pavillion)	First prize: A Trophy, Certificates and Rs. 10,000 cash Second prize: A Trophy, Certificates and Rs.5000/- cash
SHODH Award		A Trophy, Certificates and Rs. 10,000/- Cash
Best Industry Sponsored Project (ISP) Award		A Trophy, Certificates and Rs. 10,000/- Cash
WATI Award		A Trophy, Certificates and Rs. 5000/- Cash
MSBTE Award		A Trophy, Certificates and Rs. 25000/- Cash
General Championship		A Trophy and Certificate to College
<b>Note:</b> All eligible participants and project guides will get participation certificates.		

### For further details please contact:

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Convener DIPEX-2024  
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Tantra Shikshan Vidyarathee Karya, Konkan  
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