

Address: DIPEX, A-3, 1525, Suvidha Smita Apts., Sadashiv Peth, Pune 411 030
Email: 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 **7th to 10th 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,

| | | | |
|------------------------------|------------------------------|--------------------------------|-------------------------------|
| Dr. Rajendra Hiremath | Shri. Ashish Uttarwar | Shri. Sankalp Phaldesai | Shri. Rushikesh Potdar |
| Treasurer | Member | Secretary | Convener |
| SRIJAN | SRIJAN | ABVP Konkan | DIPEX – 2024 |

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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) |
|---|---------|--|
| Mobility | M | Projects related to innovations in automobile Engineering, aerospace engineering, eMobility – battery management systems, converters, charging systems, material handling equipment, drones, Safety Equipment etc. |
| Sustainable Civil Infrastructure | 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. |
| Computational Intelligence | C | Projects related to artificial intelligence (AI), machine learning, computer vision, innovations in computer/IT engineering, Block chain, Data Science etc. |
| Agricultural technology | A | Projects related to Agricultural technologies, irrigation systems, precision agriculture, smart farming, aquaculture, and agroforestry, food technology, Rain Water Harvesting, Green House etc. |
| Healthcare/Medical technology | H | Projects related to innovation in medical devices, medical electronics, tele-medicines technologies, health informatics, pharmaceutical technologies, Medical Science etc. |
| Energy | G | Renewable energy sources, energy saving devices/equipments/processes, etc projects related to energy. |
| Waste Management | 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. |
| Industrial Automation | I | Projects related to robotics, instrumentation, Industry 4.0, automatic material handling, projects related to micro-processor, IOT etc. |
| Defence and Cyber security | D | Projects related to defence innovations and cyber security and data privacy. |
| Open Innovations | 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 |
| | TOTAL | 100 |

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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 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 7th 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

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

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Awards and Prizes:

Table 4. Award and prizes in DIPEX – 2024

| | | |
|---|--|--|
| Themes: 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 |
| Note: All eligible participants and project guides will get participation certificates. | | |

For further details please contact:

Rushikesh Potdar
Convener DIPEX-2024
+91 - 9309718530

Shreya Kanase
Tantra Shikshan Vidyarathee Karya, Konkan
+91 - 8830896330