



# INSTITUTE OF HEALTH SCIENCES

(A Unit of Margdarsi)

Office: N-2/41, I.R.C Village, Nayapalli, Bhubaneswar – 751015, Ph.-7982305804

Campus: Chandaka, Bhubaneswar, Khordha, Odisha, pin: 754005, E-mail:isamworld@margdarsi.org, web: www.ihs.ac.in

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## **Guidelines for participants in the All-India Research, Innovation, and Entrepreneurship event:**

### **Topic Briefing:**

The event covers various topics related to health, technology, and entrepreneurship. Here is a brief description of each topic:

**Hearing Science:** This topic covers the study of hearing and its related disorders, such as hearing loss, tinnitus, and hyperacusis. Participants can propose innovative solutions to improve hearing aids, cochlear implants, or other hearing devices, or develop new methods for diagnosing or treating hearing disorders.

**Balance Disorder:** This topic covers the study of balance disorders, such as vertigo, dizziness, and imbalance. Participants can propose innovative solutions for diagnosing and treating balance disorders, such as using virtual reality or developing wearable devices to track balance.

**Implantable Hearing Devices:** This topic covers the study of implantable hearing devices, such as cochlear implants and bone-anchored hearing aids. Participants can propose innovative solutions to improve the functionality and effectiveness of these devices or develop new implantable devices for hearing loss.

**Neurotology:** This topic covers the study of neurological disorders related to the ear and hearing, such as acoustic neuroma, Meniere's disease, and facial nerve disorders. Participants can propose innovative solutions to diagnose and treat these disorders, such as developing new surgical techniques or using gene therapy.

**Speech Science:** This topic covers the study of speech and language disorders, such as voice disorder, stuttering, apraxia, and dysarthria etc. Participants can propose innovative solutions to improve speech therapy, develop new assistive communication devices, or use technology to enhance speech and language learning.



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**Language Science:** This topic covers the study of language and its related disorders, such as aphasia, dyslexia, and developmental language disorder. Participants can propose innovative solutions to improve language learning, develop new assessment tools, or use technology to enhance language therapy.

**Swallowing Disorder:** This topic covers the study of swallowing disorders, such as dysphagia, aspiration, and choking. Participants can propose innovative solutions for diagnosing and treating swallowing disorders, such as developing new therapies or using technology to assist with swallowing.

**Neurological Disorder:** This topic covers the study of neurological disorders, such as Parkinson's disease, dementia, and multiple sclerosis. Participants can propose innovative solutions to improve the diagnosis and treatment of neurological disorders, develop new therapies or use technology to enhance patient care.

**Augmentative and Alternative Communication:** This topic covers the study of alternative communication methods for people with speech and language disorders. Participants can propose innovative solutions to develop new assistive communication devices or improve existing ones, such as speech-generating devices or sign language interpretation software.

**Quality of Life:** This topic covers the any new innovation, research and ideas that can help the person with disability to improve their quality of life by new lifestyle changes, changes in food, changes in the clothes, new devices etc.



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## WHO CAN PARTICIPATE:

This event is open for everyone, regardless of age, qualification, and background. Anyone who has an interest in the field of Hearing Science, Balance Disorder, Implantable hearing devices, Neurotology, Speech Science, Language Science, Swallowing Disorder, Neurological Disorder, and Augmentative and Alternative Communication can participate.

This includes:

1. **Medical professionals** - Audiologists, Speech and Language Therapists, Otolaryngologists, Neurologists, Rehabilitation Specialists, ENT Surgeons, Psychiatrists, Psychologists etc.
2. **Non-medical professionals** - Engineers, Scientists, Researchers, Innovators, Entrepreneurs, Designers, Architects, Educators, Social Workers, Government Officials, Lawyers, Policy Makers, Patent Attorneys, Venture Capitalists, Angel Investors etc.
3. **Literature professionals** - Writers, Poets, Journalists, Storytellers, Content Developers, Copywriters, Translators, Language Experts etc.
4. **Non-literature professionals** - Filmmakers, Animators, Video Content Creators, Podcasters, Social Media Experts, Digital Marketers, Advertising Professionals etc.
5. **Designing professionals** - Graphic Designers, User Interface (UI) Designers, User Experience (UX) Designers, Industrial Designers, Product Designers, Packaging Designers, Fashion Designers, Interior Designers, Landscape Designers etc.
6. **Medical professionals' area of work** - Hearing Science, Balance Disorder, Implantable hearing devices, Neurotology, Speech Science, Language Science, Swallowing Disorder, Neurological Disorder, Augmentative and Alternative Communication etc.
7. **Engineering professionals' area of work** - Acoustics, Signal Processing, Instrumentation, Electronics, Robotics, Artificial Intelligence (AI), Machine Learning (ML), Deep Learning, Natural Language Processing (NLP), Data Analytics, Big Data, Internet of Things (IoT), Virtual Reality (VR), Augmented Reality (AR), Wearable Devices, Telemedicine etc.



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8. **Literature professionals' area of work** - Literature related to hearing, speech, and language disorders, Fiction and Non-fiction writing, Poetry, Short Stories, Journalism, Blogging, Creative Writing, Script Writing etc.
9. **Non-literature professionals' area of work** - Film and Video Production, Podcasting, Social Media Management, Content Creation, Advertising, Copywriting, Public Relations, Brand Management etc.
10. **Designing professionals' area of work** - Designing of hearing aids, implants, assistive devices, Rehabilitation tools, Software and Apps related to speech and language therapy, User interfaces for technology related to hearing, speech and language, Designing of spaces and environments for people with hearing, speech and language disorders etc.
11. **Business and Management** - Entrepreneurs, Business Executives, Project Managers, Financial Analysts, and Consultants working on projects related to the event topics.
12. **Education and Teaching** - Educators, Teachers, Professors, Researchers, and Education Administrators working on projects related to the event topics.
13. **Law and Policy** - Lawyers, Legal Researchers, Judges, Politicians, and Policy Analysts working on projects related to the event topics.
14. **Social Sciences** - Psychologists, Sociologists, Anthropologists, Political Scientists, and Economists working on projects related to the event topics.
15. **Media and Communication** - Journalists, Editors, Public Relations Professionals, and Communication Specialists working on projects related to the event topics.
16. **Information Technology** - Software Engineers, Programmers, Data Scientists, Cybersecurity Experts, and Web Developers working on projects related to the event topics.
17. The School Students from class 10th to 12th.



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Participants can register for the event by submitting their ideas, projects, research, and solutions related to hearing, speech, and language disorders in any of the above fields. They can submit their work as solo or group entries. The event encourages an interdisciplinary approach to finding new solutions, and participants are free to collaborate with people from different fields to come up with innovative solutions.

## Presentation Structure:

The presentation of the idea and innovation consists of thirteen slides:

- Slide 1: *Title* - Title of the innovation and team leader name or presenter
- Slide 2: *Team members* - Names of all team members
- Slide 3: *Problem statement* - clearly define the problem you are trying to solve
- Slide 4: *Need for your innovation* - explain why your solution is necessary and what benefits it will provide
- Slide 5: *Existing solutions* - provide an overview of existing solutions in the market and explain how your solution is different and better
- Slide 6: *Your innovation in detail* - explain the technical details and how it works
- Slide 7: *Plan of Action* - Provide a detailed plan of action for carrying out the idea and outline the steps you will take to develop and launch your innovation
- Slide 8: *Possible hurdles slide* - List the possible difficulties and hurdles that may arise in implementing the innovation and identify potential challenges or obstacles that you may face during development and launch
- Slide 9: *Proposed solutions to overcome hurdles* - present your plan for addressing and overcoming the identified challenges



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- Slide 10: *Team member roles and Partnerships and collaborations* - describe the roles and responsibilities of each team member you need for successful implementation and potential partnerships and collaborations that can help accelerate the innovation.
- Slide 11: *Expected impact* - discuss the potential impact of your innovation in the field of hearing science, balance disorder, implantable hearing devices, neurotology, speech science, language science, swallowing disorder, neurological disorder, augmentative and alternative communication.
- Slide 12: *Financial requirements* - detail the financial requirements for the innovation and explain how you plan to fund it
- Slide 13: *Expected timeline* - outline the expected timeline for the innovation from ideation to launch

## **Presentation Guidelines:**

- Every team must prepare a five-minute pitch presentation based on their project proposal.
- One member can present one idea, but all team members must participate in the presentation.
- The presentation must be well-organized and professional.
- The team must answer any questions the judges may have.
- Participants are required to follow the given presentation structure and are encouraged to make their presentation as creative and innovative as possible.
- The presentation should clearly highlight the problem, need, innovation, plan of action, hurdles, and proposed solutions.
- The slides should be easy to read, visually appealing, and professionally designed. The time limit for the presentation is 10 minutes.



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## **Judging Criteria:**

The innovation ideas will be judged on the basis of the following criteria:

- Originality and uniqueness
- Potential impact on society and healthcare industry
- Feasibility and practicality
- Effectiveness in solving the problem
- Clarity and organization of the presentation
- Collaboration Opportunities:

Participants are encouraged to network and collaborate with other participants, experts, and investors during the event. This provides an opportunity to further develop their idea and get support for implementation.

We hope these guidelines provide a clear understanding of the event and help participants prepare their presentation. Good luck to all the participants!