



MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL

AN INSTITUTION OF NATIONAL IMPORTANCE



Online **HACKATHON** on innovation in Toy Technology including Online Games

Sponsored by
TEQIP -III

07-08 Dec 2020

Chief Patron - Dr. N.S. Raghuwanshi,
Director MANIT , Bhopal
Patron - Dr. Arvind Mittal,
Dean (R&C) MANIT Bhopal
Convener - Dr. Nilay Khare, HOD,
Department of Computer Science and
Engineering
Coordinators -
Dr. Deepak Singh Tomar (CSE)
Dr. Akhilesh Barve (ME)
Dr. Mitul K Ahirwal (CSE)

Registration link -

Last date : 30 Nov 2020

https://docs.google.com/forms/d/e/1FAIpQLSd-FEILFtnrR3gnWLJ7WSs-GNE_jPNFU81NG_zPgb1DDdl1rA/viewform

Contact us- manitwebservice@gmail.com

CATEGORY I: **Science Toys** 🚀

MAKE **TOYS** FROM
HOUSEHOLD MATERIAL
THAT DEMONSTRATE
SCIENTIFIC PRINCIPLES

Participants: School students
Prizes -5000, 4000, 3000 ₹

Every
category has
**consolation
prizes** **10**



CATEGORY II: **Artificial intelligence**

CREATE AN **AI BASED TOY** WHICH IS
**INTERACTIVE, REACTS TO
TRIGGERS** AND BEHAVES
ACCORDING TO PRE
PROGRAMMED PATTERNS

Participants: Diploma/UG/PG/Ph.D. students
Prizes -15000, 12000, 8000 ₹

CATEGORY III: **Educational Game**

CREATE AN **EDUCATIONAL VIDEO
GAME**

Participants: Open for all
Prizes -12000, 9000, 5000 ₹

Online National Hackathon on innovation in TOY TECHNOLOGY



Sponsored by TEQIP-III
(07-08 Dec 2020)

Organized by



Maulana Azad National Institute of Technology Bhopal (MP)
An Institution of National Importance

In this hackathon there are following categories for participants:

Category I: Only for School Students- Make toys with common household materials that demonstrate interesting scientific principles. (Prize worth Rs 5000.00, Rs 4000.00, Rs 3000.00 with 10Nos Consolation prizes).

For this send us a video of 10-15 Minutes along with write-up. Student can take help their parents/guardian/school teacher (as a mentor), for recording of video and preparing the document file (Technical Report), in which making of real prototype Toy will be demonstrated. The mentor is allowed to only describe the process along with the student/participant. Only 1 participant with mentor will be allowed to participate in this category.

Category II: Only for Diploma/UG/PG/Ph.D. students- Develop an interactive device/on line games with its own mind owing to artificial intelligence. (Prize worth Rs 15000.00, Rs 12000.00, Rs 8000.00 with 10Nos Consolation prizes).

For this send us a video of 10-15 Minutes where the working principle, complete design process, algorithm/software need to be shown with proper explanation. Technical report of the design along with circuit diagram (if any) and block diagram (mandatory) is also required. Steps for designing the real prototype of the product will be demonstrated. Maximum 4 participants will be allowed to participate in a group.

Category III: Open for all- Develop online educational video game such as Edutainment which an intentional merger of video games and educational software that provides learning or training value to the player. (Prize worth Rs 12000.00, Rs 9000.00, Rs 5000.00 with 10Nos Consolation prizes).

For this send us a video of 10-15 Minutes where the working principle, complete design process, algorithm/software, special software packages and system settings must be explained. Technical report of the game design along proper flow charts, block diagram (mandatory) and clear snapshots is also required. Steps for compilation and execution of video game are also demonstrated. Include circuit diagram, if required. Maximum 4 participants will be allowed to participate in a group.

Important Dates: Last date for registration with video & document uploading is 30-Nov-2020

Chief Patron: Dr. N. S. Raghuwanshi, Director, MANIT Bhopal

Patron: Dr. Arvind Mittal, Dean (R&C), MANIT Bhopal

Convener: Dr. Nilay Khare, HOD, Department of Computer Science and Engineering

Coordinators: Dr. Deepak Singh Tomar (CSE), Dr. Akhilesh Barve (ME), Dr. Mitul K Ahirwal (CSE)

Common Instructions for all categories

1. Refer the attached Annexure-I,II,III for documentation/ technical report preparation.
2. Only Hindi or English language is allowed for description in the video.
3. Show steps in details for toy making process. For video recording, use wide angle (hold mobile/camera in horizontal position). Do not rotate mobile/camera while recording (hold your camera in a fixed position).
4. The participant must be visible in the video during the demonstration and prototype making process. (This is compulsory point)
5. Send us queries on email-ID: **manitwebservice@gmail.com**
6. Participants may register (participate) in different categories. But, only single registration is consider from each participant in each category.
7. Only Indian Nationalities are eligible to participate in the event.
8. Photo ID Proof: Scan Copy of ID card of School/Institute or any other relevant document (for category I and II), any Identify card (for Category III) must be upload at the time of registration process.
9. Videos will be visible publically.
10. The design may be simple and innovative that leads to low cost toy production for baby/ children.
11. Please mention the approximate material cost and production time for the proposed toy/game.
12. Organizing institute will not bear any cost for the design and demonstration.
13. Decision of the organizing committee is final.
14. Only selected participants will be asked for online demonstration and question answer session/ interview by expert panel/ organizing committee on 07-08 Dec 2020.
15. Winner (1st, 1st Runner-up and 2rd Runner up) will have to submit the product to MANIT, Bhopal.

Important Dates: Last date for registration with video & document uploading is **30-Nov-2020**

Registration link: https://docs.google.com/forms/d/e/1FAIpQLSd-FEILFtnrR3gnWLJ7WSs-GNE_jPNFU81NG_zPgb1DDdl1rA/viewform