



**Internal Quality Assurance Cell (IQAC) strategies and processes (2020-2021)**

- ❖ IQAC is planning to take following initiatives in near future- Inter collegiate and Intra collegiate technical activities for students-In order to increase the collaboration with other institutes IQAC is planning to conduct various competitions and workshops which involves participants form other colleges as well.
- ❖ Faculty Development Programs in association with scientific bodies like NEERI, ISTE & AICTE- Institute has already submitted its proposal for approved programs of the mentioned bodies. Institution is focused to induce a culture for continuous progress of faculties.
- ❖ Increased number of students for professional Membership, Various students and faculty chapters in association with the professional bodies are proposed to conduct regular sessions for students as well as faculties, improvising the teaching learning process.
- ❖ Conduction of an International Conference for at least one department, which provides a global platform for presenting ongoing research and practices in recent trends.
- ❖ Awareness and initiative towards IPR and checking plagiarism.
- ❖ Continuous monitoring and mentoring of the students, helps to improve the results of students.
- ❖ To establish networking with University, research institutes and industries for placement services.



- ❖ IQAC has planned placement related activities for the students. The grooming of student's personality and the required trainings for placements is planned and executed step by step, semester wise.
- ❖ Students are made sensitive to social and humanitarian challenges through various means. The IQAC shall provides all necessary help to the departments by constituting NSS cell, different social forums, for organizing outreach programs as so as to synchronize the community with the technology.
- ❖ Quality parameters developed for various academic / administrative activities of the institute to encouraging R & D and Consultancy.



IQA Cell

Co-ordinator



# Internal Quality Assurance Cell

## Minutes of Meeting

Date: 15<sup>th</sup> December 2020

Committee Name.IQSC

Mode:Online,Zoom Meet

### **Agenda of the meeting:-**

**Agenda 1:-Review of earlier meeting**

**Agenda 2: Strategies for Quality Education**

**Agenda3: Discussion about the Expert Talk**

**Agenda 4: R&D Cell**

**Agenda 5: AICET**

**Agenda 6: Library&Virtual Library**

Following members were present

Sr. no.	COMMITTEE MEMBERS	DESIGNATION	COMMITTEE POST
1.	Sardar Navneet Singh Tuli	Secretary	GNES
2.	Dr. Shudhir N. Shelke	Principal	Chairman, IQAC
3.	Dr.N .S. Raman	Dean	Member
4.	Prof. Raju.Bondre	Asst.Professor	Committee Head
5.	Prof. Geetanjali.P.Kale	H.O.D. FY	Co-ordinator
6.	Prof. Narendra.Wadaskar	H.O.D. ME	Member
7.	Prof. Sushant.Ghajbhiye	H.O.D. CE	Member
8.	Mr. Deepak Dhote	Operation Manager, IT-NetWorkz, Nagpur.	Member
9.	Mr. Sagar R. Deogikar	Center Head, CADD, Nagpur.	Member
10.	Mr. Raj Arora	Director, Rewat Network Academy, Nagpur	Member

11.	Mr. Pravin Jadhav	Managing Director, F6 Solutions, Nagpur	Member
12.	Mr. Praful Baig	. CEO, Astral Informatic (P) Ltd. Nagpur.	Member
13.	Ms.Shahziya.Ansari	Asst.Professor	Member
14.	Ms.Priti.Nistane	Asst.Professor	Member
15.	Ankit Ranjan	Alumini	Member
16.	Shital Likhar	Liasoning officer	Member

1:

Principal & Chairman IQAC, Dr.Sudhir N.Shelke, welcomed all the members present for the meeting

### **Agenda 1:-Review of earlier meeting**

Resolution:- Following points were discussed

Prof.Raju.Bondre,IQAC Committee head briefed about action of previous IQAC Meeting were reviewed and confirmed. She also presented the action plan for coming session.

Resolution: Following points were discussed.

1. All the HOD's are instructed to prepare timetable for the academic session 2020-21.
2. Commencement of online classes
3. Online teaching should be done by using Zoom App, Google classroom or Google duo.  
In addition to this PPT's of respective subjects plus recording of voice should be done.
4. Through links or YouTube the lectures should be shared with student
5. RTMNU updated syllabus should be followed.
6. Academic calendar for the session 2020-21 should be prepared.
7. E-Notice board of all the branches should be updated.

### **Agenda2: Quality Education**

Resolution:Following Points we discussed.

- 1.All the HOD's should examine that the lectures have been conducted in their departments in their departments.
- 2.Regular tests should be held.
- 3.Extra classes for the weak students should also be conducted.
- 4.E.Learning should be given importance.

### **Agenda 3: Expert Talk**

Resolution: Following points were discussed.

- 1.Discussion about Sustainable Development.
- 2.Adoption of Villages

### **Agenda 4: Research and Development Cell**

Resolution: Following points were discussed.

- 1.Selection of Co-ordinators
- 2.Every department should have a Departmental plan for R&D.

**Agenda 6: Discussion about All India Council For Technical education**

Resolution: Following points were discussed.

1. About the registration for various programs organized by the AICET.
2. Faculty members should get registered themselves, in ISTE.

**Agenda 7: Library & Virtual Lab**

Resolution: Following points were discussed.

1. Virtual Lab practice should be done regularly.
2. Daily Library should be visited regularly & NPTEL practice should be done on regular basis.

A handwritten signature in blue ink, appearing to read "S. S. Srinivas", is written over a horizontal line. The signature is slanted and includes a small mark to the right of the main text.



# GURU NANAK INSTITUTE OF TECHNOLOGY

Dahegaon Kalmeshwar Road Nagpur – 441501

## Internal Quality Assurance Cell

### Minutes of Meeting

Committee Name:-IQAC

Date:8<sup>th</sup>March.2021

Venue: - M-I Board

#### **Agenda of the meeting:-**

- Action taken on the last IQAC Meet
- Setting the mile stone of Innovation & Incubation Center
- New methods for Online mode of Teaching
- Library & Virtual Lab
- Training and Placement
- Attendance
- Sponsored Research Projects /Patents/Consultancy/Publications/FDP'S
- Extended activity-Social activities

Meeting of all IQAC members with Principal (Chairman IQAC) has been called in M-I Board Room on dated 08/03/2021 at 11.00 AM. Following members were present

Sr. no.	COMMITTEE MEMBERS	DESIGNATION	COMMITTEE POST
1.	Sardar Navneet Singh Tuli	Secretary	GNES
2.	Dr. Shudhir N. Shelke	Principal	Chairman, IQAC
3.	Dr.N .S. Raman	Dean	Member
4.	Prof. Raju.Bondre	Asst.Professor	Committee Head
5.	Prof. Geetanjali.P.Kale	H.O.D. FY	Co-ordinator
6.	Prof. Narendra.Wadaskar	H.O.D. ME	Member



# GURU NANAK INSTITUTE OF TECHNOLOGY

Dahegaon Kalmeshwar Road Nagpur – 441501

7.	Prof. Sushant.Ghajbhiye	H.O.D. CE	Member
8.	Mr. Deepak Dhote	Operation Manager, IT-NetWorkz, Nagpur.	Member
9.	Mr. Sagar R. Deogikar	Center Head, CADD, Nagpur.	Member
10.	Mr. Raj Arora	Director, Rewat Network Academy, Nagpur	Member
11.	Mr. Pravin Jadhav	Managing Director, F6 Solutions, Nagpur	Member
12.	Mr. Praful Baig	. CEO, Astral Informatic (P) Ltd. Nagpur.	Member
13.	Ms.Shahziya.Ansari	Asst.Professor	Member
14.	Ms.Priti.Nistane	Asst.Professor	Member
15.	Ankit Ranjan	Alumini	Member
16.	Shital Likhar	Liasoning officer	Member

## Observers

1	Dr.N.S.Raman	Dean
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Principal & Chairman IQAC, Dr.Sudhir N.Shelke, welcomed all the members present for the meeting.

### **Agenda 1:-Review of earlier meeting**

Resolution:- Following points were discussed

Prof.Raju.Bondre,IQAC Coordinator briefed about action of previous IQAC Meeting which was held previously were reviewed and confirmed. He also presented the action plan for coming session.

#### **a.Objectives of IQAC as discussed by NAAC PEER Team dated (Exit Meeting)**

Resolution: Following points were discussed.

To achieve excellence in providing Quality Education through continuous improvement in all concerned processes and resources, for creating competent professionals with sound academic foundation and strong values.

#### **b.Objectives of IQAC**

1. To develop a system for conscious, consistent and catalytic improvement in the overall performance of the Institute.
2. To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best and innovative practices.
3. To channelize the efforts and measures of the institution towards academic excellence.



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4. To accelerate the activities in pre and post accreditation phases of the institute.

**c: PDT committee has been formed.**

Resolution: Following points were discussed.

2. Prof.Narendra Wadeskar & Prof.Geetanjali P.Kale will be the Members of PDT Committee.

**d: All the HoD's are instructed for the submission of the following documents in soft & hard copies PDT Committee.**

Resolution: Following points were discussed.

F1.About Department

F1.1:-Vision & Mission

F1.1.-PO, PEO Foundation Committee Members File

F1.1.2:-PO, PEO Framing File

F1.1.3:-PO, PEO Attainment File

F1.2:-Department Detailed File(Statistical Data)

F1.3:-Society & Foundation Related Files

F1.4:-Collaboration (MoUs & Tie-up's)

**Agenda 2.** Setting the mile stone of Innovation & Incubation Center

To facilitate the creation of ideas and Inventions that benefits society which are ready by the end of the Incubation programme,and discussion about signing the MOU with Raman Science Center.

**Agenda3.**New Methods of Online Mode of Teaching.

To provide effective teaching,and make the online mode of teaching more beneficial and to provide quality education to the students

**Agenda 4:** Library & Virtual Lab

Resolution: Following points were discussed.

1. Virtual Lab practice should be done regularly.

2. Daily Library should be visited regularly & NPTEL practice should be done on regular basis.

**Agenda 5:** Attendance.

Resolution: Following points were discussed.





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1.It should be also instructed that Teacher-Guardian Scheme should be strictly followed and daily attendance of student to be sent to the office undersigned with

following format mentioned, against their department till 10:00am.

Sr.No.	Department/Semester	Total strength of the students	No. of Present students	Roll No. of Absent Students	Reason of Absentee

## **Agenda 6:** Faculty Development Program & Short Term Training Program

Resolution: Following points were discussed.

1. All the HoD's are instructed to organize Department wise at least one FDP or STTP.
2. Guest Lectures & Industrial visits should be arranged in this semester .

Principal

# Internal Quality Assurance Cell

## Minutes of Meeting

Date: 05<sup>th</sup> June 2020

Committee Name.IQSC

Mode:Online,Zoom Meet

### **Agenda of the meeting:-**

**Agenda 1:-Review of earlier meeting**

**Agenda 2: Skill Development activity**

**Agenda3: Quality Education**

**Agenda 4: E-Page for FB and magazine**

**Agenda 5: Projects**

**Agenda 6: Online Faculty Development Program & Short Term Training Program**

**Agenda 7: World Environment Day celebration**

**Agenda.8;Skill.Development Programme**

**Agenda 9: Library & Virual library**

**Agenda 10: Faculty Development Program & Short Term Training**

Following members were present

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1.	Sardar Navneet Singh Tuli	Secretary	GNES
2.	Dr. Shudhir N. Shelke	Principal	Chairman, IQAC
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Principal & Chairman IQAC, Dr.Sudhir N.Shelke, welcomed all the members present for the meeting

### **Agenda 1:-Review of earlier meeting**

Resolution:- Following points were discussed

Prof.Raju.Bondre,IQAC Committee head briefed about action of previous IQAC Meeting were reviewed and confirmed. She also presented the action plan for coming session.

Resolution: Following points were discussed.

1. All the HOD's are instructed to prepare timetable for the academic session 2020-21.
2. Commencement of online classes
3. Online teaching should be done by using Zoom App, Google classroom or Google duo.  
In addition to this PPT's of respective subjects plus recording of voice should be done.
4. Through links or YouTube the lectures should be shared with student
5. RTMNU updated syllabus should be followed.
6. Academic calendar for the session 2020-21 should be prepared.
7. E-Notice board of all the branches should be updated.

### **Agenda 2: Skill Development activity**

Resolution: Following points were discussed.

1. Prof.Niranjan Chitare has been appointed as the soft skill head for the online Skill development activity for the session

### **Agenda3: Quality Education**

Resolution: Following Points we discussed.

1. All the HOD's should examine that the lectures have been conducted in their departments in their departments.
2. Regular tests should be held.
3. Extra classes for the weak students should also be conducted.
4. E-Learning should be given importance.

### **Agenda 4: E-Page for FB and magazine.**

Resolution: Following points were discussed.

1. Prof.Mankar has been given the charge of e-page design of Mechanical Department for the session 2020-21.
2. Prof. Katare has been given the charge of e-page design of Civil Department for the

session 2020-21.

### **Agenda 5: Projects**

Resolution: Following points were discussed.

1. All the HOD's are instructed to take the update of online projects of their students as the last date for the same.

### **Agenda 6: Online Faculty Development Program & Short Term Training Program**

Resolution: Following points were discussed.

1. All the HoD's are instructed to organize Department wise at least one Online FDP or STTP.
2. Guest Lectures through webinars should be plan.

### **Agenda 7: World Environment Day celebration**

Resolution: Following points were discussed.

1. All the faculties are instructed to plant atleast one plant at their place on this

World Environment Day-5th June 2020  since Institute is unable to celebrate it in College campus because of pandemic COVID19 situation.

### **Agenda.8;Skill.Development Programme**

Resolution: Following Points were Discussed

1. Various Competitions to be held for the personality development of the students of our institute.
2. Sessions to be conducted for the students regarding Campus Drive.

### **Agenda 9: Library & Virtual Lab**

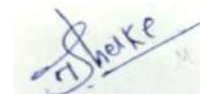
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### **Agenda 10: Faculty Development Program & Short Term Training Program**

Resolution: Following points were discussed.

1. All the HoD's are instructed to organize Department wise at least one FDP or STTP.
2. Guest Lectures & Industrial visits should be arranged in this semester before



Principal



**AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES  
2020 - 21**



**PROFORMA FOR CONVEYING WILLINGNESS TO CONDUCT  
AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES (before 24/09/2021)**

1. Name of the Institution with complete address and email id : GURU NANAK INSTITUTE OF TECHNOLOGY  
Dategaon Kalmeshwar Road,  
Nagpur - 441501  
Principalgnit09@gmail.com
2. Title of the Programme : SG Technology .
3. Proposed dates preference-wise : (1) 18/11/21 to 24/11/21  
Please give preferably three preferences (2) 09/12/21 to 15/12/21  
Program should be completed (3) 04/01/22 to 10/01/22 .  
before 15<sup>th</sup> January 2022.
4. Name(s) and designation of the Coordinator(s) with mobile, WhatsApp & Email id : Dr. Sudhir N. Shelke  
Principal GNIT, Director GNGS  
[COORDINATOR]  
Prof. Jyotanjali P. Kale  
Assistant Professor GNIT  
[CO-COORDINATOR]
5. Designated post to which the grant is to be released? : Principal/Director/Registrar (please tick one)  
 Principal
6. Bank details : Name (in Bank A/c) : Principal Guru Nanak Institute of Technology  
Bank A/c No. : 37598088265  
Bank Name & Branch : SBI Civil Lines, Nagpur  
IFS Code : SBIN0011519 .

I agree to organise the above programme as per the guidelines and budget norms prescribed by the AICTE and ISTE. I also agree to settle the accounts of the programme within 21 days of completion of the Programme.

Signature of  
Coordinator

  
Principal  
Guru Nanak Institute of  
Technology

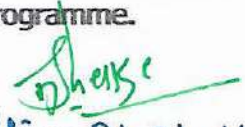
Name & Designation of Head of Institute  
(Principal/Director/ Any other)

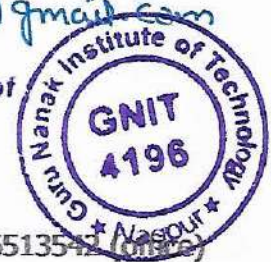
: Dr. Sudhir N. Shelke  
: Principal GNIT, Director CIBS  
: 07118661450  
: 07118661450  
: sudhishelke1976@gmail.com  
: 9765556956

Tele (office)  
Tele (Direct)  
E-mail :  
Mobile:

In case of any delay in the release of funds by the AICTE/ISTE, our Institution will provide the needed funds for conduction of program as loan which will be reimbursed in due course. The final documents will be submitted within 21 days of the completion of the programme.

Signature of the  
Head of the Institution  
Email & Mobile No.

:   
: Dr. Sudhir N. Shelke  
: sudhishelke1976@gmail.com  
: Principal  
: Guru Nanak Institute of  
(with office seal)  
: Technology  
: PRINCIPAL/DIRECTOR



Please return to :

**The Executive Secretary**  
Indian Society for Technical Education  
Shaheed Jeet Singh Marg  
New Delhi - 110 016

Phone : 011-26963431, 011-26513542 (office)  
E-mail :  
exese secretary@isteonline.org



## AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES – 2021-22



ISTE/AICTE-ISTE FDP/2021-22

September 20, 2021

Dear Sir/Madam,

**Sub : Offer letter for conducting the AICTE-ISTE Induction/ Refresher Program under AICTE-ISTE MoU – regarding**

It is my pleasure to inform you that the proposal submitted by you for the conduct of one week AICTE-ISTE Induction/Refresher Program titled **5G Technology** has been shortlisted by the scrutiny committee. You are requested to communicate your willingness before **27/09/2021** to conduct the program in your institution.

**The institutions will conduct the programs in ONLINE mode only. Presently sanction is accorded for one program.**

Please note that these programs will start from the month of **October, 2021 and should be completed before 15<sup>th</sup> January 2022**. The program schedule will be displayed on the official website of ISTE and no change in date and title of the program is possible without prior permission. Hence, you are requested to finalise the program dates and title considering all the related aspects.

It is planned to do proper and uniform distribution of programs. Hence you are requested to give three options of dates on priority basis, suitable for you. **It is planned to start programs on any working day of week. Hence, you need not plan from Monday only.** Depending upon the situation you may have to shift your program two or three days here and there to adjust with the schedule already planned by us.

### **General Guidelines**

- The program cannot be combined with any other professional body. The Principal sponsor will be AICTE only and no other sponsors are allowed.
- The duration of the program should be **six days and start from any working day of week. (excluding Sunday and public holiday)**
- The total sanction budget is Rs.93,000/- which should not be exceeded in any case.
- In case the event is cancelled, the funds will be returned back to ISTE immediately along with interest accrued if any on the amount of grant released.
- **Certification of these programs will be done jointly by AICTE & ISTE.**
- The coordinator must be a full time regular faculty with adequate experience in teaching and research with publication.
- Disbursement of funds will be as per directives of AICTE.
- Fund once released/sanctioned for the program cannot be utilized for any other programs.

- Any change in the schedule of the program, change of coordinator, venue and date would require prior approval, failing which the offer for the grant already issued would be treated as automatically withdrawn.
- **The institute will follow all the given guidelines while conducting the program.**
- Responsibility of conduct to include inauguration, selection of resource persons & valediction rests with the institute.
- **Detailed SOP will be made available to you after receiving your confirmation.**
- The “**Willingness Proforma**” is attached herewith. Please fill it completely and duly signed by Coordinator and Principal/Director of the Institution and submit it to ISTE on mail [istedhq@isteonline.org](mailto:istedhq@isteonline.org). Ensure that it reaches ISTE office positively **before 27/09/2021**.
- Please fill the **willingness proforma through google form** as per the link given below for speedy work. Please note that your confirmation will be considered only after receipt of willingness proforma with signatures on email.

<https://forms.gle/E5qDMZuCmU3Jfnte9>

We are sure that the institute will make every effort to organize this activity in a best possible manner with utter satisfaction of participants. For further clarification, if any, please feel free to contact at ISTE Hqrs., New Delhi.

With Regards

Yours,



**(Prof. Vijay D. Vaidya)**  
Executive Secretary, ISTE

Copy for information to:

**(Col. B Venkat), Director,**  
(Faculty Development Cell), AICTE, ND

To

Dr. Sudhir N. Shelke  
Coordinator  
Guru Nanak Institute of Technology  
Dahegaon, Nagpur



Proposed list of previous month

# GURU NANAK INSTITUTE OF TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441501

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

2020-2021

### AICTE-ISTE ORIENTATION/ REFRESHER PROGRAM

Title : Cyber Security and 5G Technology

**Day 1:**

Topic: Cyber Law & Forensics

Resource Person:

Date & Time: 20-12-2021

**Day 2:**

Topic: Supervisory Control and Data Acquisition (SCADA) System

Resource Person:

Date & Time: 21-12-2021

**Day 3:**

Topic: Information Hiding Techniques with tools and Ethical Hacking

Resource Person:

Date & Time: 22-12-2021

**Day 4:**

Topic: Fundamentals of cloud and cloud security

Resource Person:

Date & Time: 23-12-2021

**Day 5:**

Topic: 5G Technology and Advancement

Resource Person:

Date & Time: 24-12-2021

**Proposed Resource Persons:**

- Dr. Shankharu
- Dr. Tiwari
- Dr. Abhijit
- Prof. Neeranjan Chitare
- Online Talk with Ankit Fadia Awarded in 2012 with DEF CON Security Charlatan of the year.

HoD

**STTP PROPOSAL (GNIT)****Cordinator Name:** Dr. Narendra Wadaskar

<b>TITLE OF PROPOSAL</b>	<b>Emerging trends in Robotics for Industrial Automation</b>
<b>ABSTRACT</b>	The objective of the department is to provide high quality technical education to meet the needs of the Nation in the present competitive world. The department also provides training and research facilities at the Undergraduate level in various areas of CAD/CAM, Automation and Robotics with broad emphasis on emerging areas in terrestrial, space and underwater. Also various challenges and current active research sub-domains are identified. It is anticipated that the comprehensive and systematic review will be potentially beneficial for young researchers, graduate engineers, industrial interns, roboticist and hobbyists.
<b>EXPECTED OUTCOME OF PROPOSAL</b>	The course will provide a forum for faculty members to exchange ideas on the state of the art research and development in the field of Robotics. The course will also help to identify future research needs in this interdisciplinary emerging field. It provides a suitable exposure to the participants on latest advancements on manufacturing with specific reference to CAD/CAM, Automation and Robotics
<b>OBJECTIVE</b>	The recent changes in the industrial scenario have made industrial automation an emerging field for students, teachers and researchers. Further, Robotics is becoming prominent in industrial automation and process control applications. The proposed FDP aims to bring together teachers, engineers and research scholars to exchange and share their experience and research results about different aspects of recent advances in the field of CAD/CAM, Automation and Robotics. The program also aims to give an exposure to various mathematical methods and tools used for the analysis of such systems. <ul style="list-style-type: none"> <li>• To increase the awareness of Robotics Field</li> <li>• To know the building blocks of Robotics System</li> <li>• To analyze, model and simulate the Robotics System</li> <li>• To learn Robotic System Design</li> <li>• To be aware of the advances in the field of Robotics</li> <li>• To be acquainted with the role of Machine Design in Robotics</li> <li>• To identify the Role of Industrial Automation in Smart Technology Enabled Manufacturing</li> <li>• To foresee requirements of AI based Robotic Systems</li> <li>• To understand the design and applications of Robotics</li> </ul>
<b>LIMIT OF FUNDING</b>	5,00,000
<b>TOTAL FUND REQUESTED</b>	5,00,000

**ACADEMIC CREDENTIALS OF COORDINATOR / PI / APPLICANT**

<b>Parameter/ Criteria</b>	<b>Yes/No</b>	<b>Count/Number</b>	<b>Area of Specialization</b>	<b>Marks Awarded</b>	<b>Max. Marks</b>
Teaching Experience in years	YES	15	Mechanical Engineering		

Research Experience in years	NO				
Industrial Experience in years	YES	4	Mechanical Engineering		
Papers published in national Journals in last 5 years	NO				
Number of Ph. D students Guided	NO				
Membership of the Professional/ Learned bodies/ Societies	YES	1	ISTE		
Awards	NO				
Number of Patents Registered	NO				
Relevant experience of conducting / coordinating similar programmes from AICTE and other funding agencies in past three years	NO				
PG	YES		Heat & Power		
Ph. D	YES		Thermal		
Papers published in International Journals in last 5 years	YES	10	Mechanical Engineering		

## JUSTIFICATION

Parameter / Criteria	Details	Maximum Marks
Objectives & Context	<p>The recent changes in the industrial scenario have made industrial automation an emerging field for students, teachers and researchers. Further, Robotics is becoming prominent in industrial automation and process control applications. The proposed FDP aims to bring together teachers, engineers and research scholars to exchange and share their experience and research results about different aspects of recent advances in the field of CAD/CAM, Automation and Robotics. The program also aims to give an exposure to various mathematical methods and tools used for the analysis of such systems.</p> <ul style="list-style-type: none"> <li>• To increase the awareness of Robotics Field</li> <li>• To know the building blocks of Robotics System</li> <li>• To analyze, model and simulate the Robotics System</li> <li>• To learn Robotic System Design</li> <li>• To be aware of the advances in the field of Robotics</li> <li>• To be acquainted with the role of Machine Design in Robotics</li> <li>• To identify the Role of Industrial Automation in Smart Technology Enabled Manufacturing</li> <li>• To foresee requirements of AI based Robotic Systems</li> <li>• To understand the design and applications of Robotics</li> </ul> <p>. Context:-</p> <ul style="list-style-type: none"> <li>• Industrial Automation</li> <li>• CAD/CAM</li> <li>• Robotics</li> <li>• Service robots,</li> <li>• Robot sensing systems,</li> <li>• Artificial intelligence,</li> <li>• Industries,</li> <li>• Next generation networking,</li> <li>• Internet of Things</li> <li>• Mathematical Methods and Scilab</li> <li>• Basics of Robotics and Industrial Automation</li> <li>• Sensors, Transducers and Actuators</li> <li>• Programmable Logic Controllers</li> <li>• Fluid Power Systems and Factory Automation</li> <li>• Modeling and Simulation of Robotics Systems</li> <li>• Role of Automation Studio Software in Robotics System Design</li> <li>• Industry 4.0</li> <li>• Smart Technology Enabled Manufacturing- Role of Industrial Automation</li> <li>• Industrial Visits to nearby Robotics Practicing Companies</li> </ul>	
Relevance	<p>Robotics is a multidisciplinary field of science that includes a combination of mechanical engineering, electronics engineering, computer engineering, telecommunications engineering, systems engineering and control engineering. An expert in Robotics field unites the principles of mechanics, electronics, control and</p>	

	computing to generate a simpler, more economical, efficient and reliable automated system. Robotics has been evolving in industry and is now widely recognized around the world. Robotics has emerged over the past few years as a discipline in its own right. To enhance the employability and the competency of the students, the Robotics, Industrial Automation and Machine Design teachers must know the industrial practices and the cutting edge technologies in this area. The present FDP is an attempt to fulfill this need through theory, demonstrations and industrial visits	
Benefits to Faculty	The course is interdisciplinary in nature and is intended to faculty members of engineering colleges and research scholars for upgradation of knowledge and skills in the area of CAD/CAM, Automation and Robotics. It is essential for the Teaching Faculty to update their knowledge and adopt the emerging technology and spread the same amongst the students	
Expected Outcome	The course will provide a forum for faculty members to exchange ideas on the state of the art research and development in the field of Robotics. The course will also help to identify future research needs in this interdisciplinary emerging field. It provides a suitable exposure to the participants on latest advancements on manufacturing with specific reference to CAD/CAM, Automation and Robotics.	
No and Level of participants	Target Audience (60): · Faculties from department of Mechanical, Electronics, ETC, Instrumentation, Control, CSE/IT of Engineering stream. · Faculties from Polytechnic · PG students & UG students · Members from industries interested in subject area · Research Institutions	
No and level of Guest Speakers	1. Dr. V. R. Kalamkar, Professor, VNIT, Nagpur 2. Dr. Y. M. Puri, Associate Professor, VNIT, Nagpur 3. Dr. D. A. Jolhe, Assistant Professor, VNIT, Nagpur 4. Dr. Anil Tatode, Training officer, RTM Nagpur University, Nagpur	

### CREDENTIALS OF INSTITUTION / DEPARTMENT

Parameter/ Criteria	Yes/ No	Count/Number	Details	Maximum Marks	Marks awarded
Number of NBA Accredited courses in Institute	NO				
Number of Years of Establishment of Institute	YES	11			
Type of Institute-Whether selected under TEQIP	NO				
Whether the course under which the proposal is submitted, is accredited by NBA?	NO				
Whether the institute has been awarded for being eco- friendly at state/ national level	NO				

<b>Head of Expenditure</b>	<b>Assistance requested from Council in Rs.</b>
Honorarium to Resource Persons	100,000
Boarding & Lodging to the participants	110,000
TA to outstation participants	20,000
Honorarium to Course coordinator	5,000
Reading material to participants	75,000
Working expenses (reprographic services, services, postage, transport, daily wages, tea/coffee etc.)	170,000
TA/DA to resource persons including two outstations resource persons	20,000

**BUDGET ESTIMATES – OTHER**



## AICTE-ISTE ORIENTATION / REFRESHER PROGRAMS

AICTE Quality Improvement Scheme (AQIS) 2021-22

### PROFORMA

**Title of the Program:- Highway Safety Audit & New Research Trends in Transportation**



<b>Institute Details</b>	
Institute Permanent ID No.	1-7002218374
Name of the Institute	GURU NANAK INSTITUTE OF TECHNOLOGY
Institute detailed address	KHASRA NO.94, MAUZA, KALMESHWAR ROAD, DAHEGAON, NAGPUR 441501
Institute Discipline	ENGINEERING
ISTE Institutional Membership Number of your institute	Yes   2702
Institute Email ID	gninagpur@gmail.com
Principal Email ID	gninagpur@gmail.com
Telephone(With STD Code)	07118-661400
Reference of Extension of Approval letter by AICTE for current year (2020-21) Letter No	1-7002218374
Reference of Extension of Approval letter by AICTE for current year (2020-21) date	30.04.2020
Number of programmes conducted in the years 2017-2018 & 2018-2019 for Self Financing	4
Number of programmes conducted in the years 2017-2018 & 2018-2019 for Financing	1
ISTE Chapter	Yes   Chapter No.: MH-285
<b>Details of the Coordinator</b>	
Faculty ID	1-3176885707
Name of the Coordinator	Yes   Prof. Sushant M. Gajbhiye
Department	CIVIL ENGINEERING
Appointment Type(preference will be given to regular staff only)	Regular
Contact Details	Cell No.: 7972420880   Email: hodcegnit441501@gmail.com
ISTE Life Membership Number& year of joining	121884   2018
<b>Details of the Refresher Programmes</b>	
Title of the Programme	Highway Safety Audit & New Research Trends in Transportation
Tentative dates of the Programme	From: 10.01.2022   To: 14.01.2022
Technical area of the Programme	Transportation / Traffic Engineering - It qualitatively estimates and reports on potential road safety issues and identifies opportunities for improvements in safety for all road users
Department under which Programme is to be conducted (AICTE approved course of the department)	CIVIL ENGINEERING

is mandatory)

**Credentials of the Coordinator**

PG	Yes	PHD	No
Teaching Experience in years	10	Industrial Experience in years	1
Research Experience in years	1	Papers published in National Journals during last 5 years	2
Papers published in International Journals during last 5 years	10	Number of Ph.D. Students Guided	0
Membership of the Professional/Learned Bodies/Societies	1		
Awards	No	Details	
Number of Patents Registered	No	Details	
Relevant Experience of conducting/coordinating similar programmes funded by AICTE and other funding agencies in past three years	No	Details	

**Credential of the Organising Institute**

Type of Institute(Whether selected under TEQIP)	No	Number of years in existence	12
Number of courses Accredited in the Institute	3	Year of Accreditation	2018
Status of the institute	Self-finance		

**Credential of the Organising Department**

Whether the course under which the proposal is submitted, accredited by NBA?	No
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**Credentials of Programme**

Objectives & Context	The programme is intended to familiarize the participants with road safety analysis, facility design and evaluation and better understanding of audit process. Road Safety Auditing is a specialist process that must be carried out independently of design and construction work. Safety Audits are intended to ensure that operational road safety experience is applied during the design and construction process in order that the number and severity of accidents is kept to a minimum. Road Safety
Relevance	1. Road safety in India- an overview Standard method of road accidents recording in India. 2. Collision analysis & estimating perceived traffic crash. 3. Road safety audit process & checklist. 4. Field exercise and hand on training. 5. Post road accidents emergency and trauma care.
Benefits to Faculty	To understand basics of highway safety audit. Also one is exposed to road safety analysis, facility design



	and evaluation and better understanding of the process.
Expected Outcome	This Course is intended for those interested to understand basics of highway safety audit and Also one is exposed to road safety analysis, facility design and evaluation and better understanding of the process. Faculties of Engineering colleges / Polytechnics and Working professionals of Private sectors and Public sectors in the area of Civil engineering can avail the benefits.
No. and Level of Participants	Target Audience (60): • Faculties from department of Civil Engineering stream. • Faculties from Polytechnic. • PG students & UG students. • Members from industries interested in subject area. • Research Institutions
No. and level of Guest Speakers	Speakers are invited from reputed Industries. Faculties from IIT's & VNIT & Research Institutes.
Do you have enough expertise within your institute and neighbouring places to offer the course satisfactorily? List the names and addresses of outside faculties needed. (preference should be given to faculties from IIT's & NITs)	Yes Dr. Akhilesh K. Maurya (IIT Guwahati), Dr. A.K. Sharma (RCOEM Nagpur)
Do you have any support from any industry for conduction of this programme, if yes, give details	Yes MOU with, 1) Astral Informatics pvt. ltd, 2) CAAD Centre Training Services, 3) Geometric Technology pvt. ltd
Significance & Objectives of the programme (one or two major objectives)	The programme is intended to familiarize the participants with road safety analysis, facility design and evaluation and better understanding of audit process.
Collaboration with industry/other institutions/departments (indicate name of organization, nature of collaboration and experts involved)	MOU with, 1) Astral Informatics pvt. ltd, 2) CAAD Centre Training Services, 3) Geometric Technology pvt. ltd
i. The programme conducted by the college in the last 12 months till the date of application to ISTE ii. Title of the programmes, No., of participants trained, source of funding, amount of funding, duration of programmes etc.	1. Technofun-I 2020, Participant 1440 (Engineering) 2. Technofun-II 2020, Participant 100 (Diploma) 3. STTP on Thermal Power Plant appreciation " National Power Training Institute" (3 Days) 4. one Week STTP on Innovative Technologies in Civil

**Declaration:**

- a) I, **Prof. Sushant M. Gajbhiye**, herewith undertake that I read all the Rules of Application for the year 2020-21 and after fully understanding all the rules, I have filled in this application form.
- b) The information given by me in my application form is true to the best of my knowledge and belief.
- c) If at later stage, it is found that I have furnished wrong information and/or submitted false certificate (s), I am aware that my Application stands cancelled and fees paid by me will be forfeited. Further, I will be subject to legal and/or penal action as per the provisions of the law.

I agree to provide all necessary assistance and facilities of the institute for the conduct of the above programme. I also agree that we will abide by the terms & conditions expected for conduct of the programme.

Date : 12-02-2021

Name of the Coordinator: **Prof. Sushant M. Gajbhiye** Signature:

<b>State: Maharashtra</b>	<b>Seal And Sign of Head/Principal of the Institution</b>
<b>Print Date:12/02/2021 3:04 pm</b>	