NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, SECTOR – 26, CHANDIGARH – 160019

AGENDA FOR THE 23RD MEETING OF THE ACADEMIC COUNCIL SCHEDULED TO BE HELD AT NITTTR, CHANDIGARH ON 03.02.2020

CONTENTS

ITEM NO. A. 23.0   Welcome to the Chairman and Members of Academic Council

Previous Meeting

ITEM NO. A. 23.1   To confirm the Minutes of the 22nd Meeting of the Academic Council held on 14.03.2019

The minutes of the 22nd meeting of the Academic Council were circulated to all the members. As no comments were received from any member, the minutes already circulated may be taken as confirmed and recorded as such. A copy of the minutes is enclosed at **Annexure No. I** (page No. 1 to 11) for perusal.

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(For Confirmation)

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ITEM NO.A.23.2   To Note the Action taken on the decisions made in the Twenty Second Meeting of the Academic Council held on 14.03.2019.

ITEM NO.	DECISIONS/RECOMMENDATIONS	ACTION TAKEN
Against ITEM NO.A. 22.2/ 21.2	**TO NOTE THE ACTION TAKEN ON THE DECISIONS MADE IN THE TWENTY FIRST MEETING OF THE ACADEMIC COUNCIL HELD ON 15.03.2018** The members were apprised of the action taken on various items of the 22nd meeting of the Academic Council as per the recommendation/suggestions of the members.	Noted
Against ITEM NO. A.22.2/ 21.6	**CONDUCT AND FUNDING OF STUDENTS RELATED ACTIVITIES** NITTTR is organizing an annual technical event called TechSpardha for PG students.	"TechSpardha2k19", was held from 5th - 7th September, 2019. Total 11 teams showcased their products. First prize of ₹50,000/-, second prize of ₹30,000/- and third prize of ₹20,000/- were given to the winners.
ITEM NO. A.22.2/ 21.7	**TO CONSIDER THE PROPOSAL FOR CONDUCT AND FUNDING OF STUDENTS RELATED PROFESSIONAL ACTIVITIES** The committee comprising of Dean (A&IA), Dean (R&D), and Shimi SL and a Professor from IMCO which was constituted by the Director for evolving mechanism for operationalizing the activities of student's chapter of professional bodies by all the five engineering departments.	The committee has requested the Departments to identify professional activities and student chapter requirements of their Departments in consultation with student representatives.
ITEM NO. A.22.2/ 21.8	**CREATION OF A FUND FOR SUPPORTING Ph.D SCHOLARS** A Committee was constituted by the Director, under the Chairmanship of Prof B S Pabla, to develop the scheme for "Earn While Learning (EWL)" for ME/PhD students.	The committee has prepared guidelines for implementation and monitoring of the scheme. A copy is enclosed as **Annexure II** (Page No. 12 to 14)

ITEM NO. A.22.9/ 21.9	**ESTABLISHING A BUSINESS INCUBATION CENTRE AT NITTTR, CHANDIGARH** The institute has already signed a MOU with ROG Foundation to pursue the matter of establishing a Business Incubation Centre at Chandigarh.	Due to shortage of Space the initiation to establish an incubation Centre at the Institute is dropped, but Committee is exploring possibilities in partnership with other Organizations.
ITEM NO. A.22.2/ 21.10	**LAUNCHING OF NEW COURSES BY ETV DEPARTMENT** HOD, ETV Department was advised to evolve the proposal for starting some specialized PG diploma programmes from the academic session 2019-20.	Placed separately in Agenda Item at 23.13 and 23.14
ITEM NO. A.21.13	**TO SEEK GUIDANCE AND DIRECTIONS FROM THE MEMBERS OF THE ACADEMIC COUNCIL AS PER VARIOUS SCHEMES AND PERSPECTIVE PLANS OF MINISTRY** The Members advised that suggestions given by the Members of Academic Council, most specifically, the suggestions of external members should be taken up in a considered manner and the action should be initiated as per the decision of Academic Council.	Noted
Against ITEM NO.A. 22.3	**TO REPORT ABOUT THE ACADEMIC CALENDAR IN RESPECT OF ME PROGRAMMES (BOTH REGULAR AND MODULAR) FOR THE SESSION 2019-2020** Members of the Academic Council were appraised that the Academic Calendar in respect of ME Programmes (both Regular and Modular) for the Session 2019-20 as approved by the Vice Chancellor, PU, Chandigarh.	Noted
Against ITEM NO. A. 22.4	**360 DEGREE FEEDBACK SYSTEM** AICTE has given a guidelines vide their gazette notification dated 1st March 2019 regarding 360-degree feedback system of all the faculty members working in technical education system. It was felt in the meeting that the functioning of NITTTR, Chandigarh is different from the conventional engineering colleges. The Director has setup a committee under the Chairpersonship of Prof PK Tulsi to come out a comprehensive documents regarding the implementation of this system.	Since AICTE has now come up with details of Implementation of 360 Degree Feedback System, the committee needs to map the same and submit in the next meeting of the Academic Council.
Against ITEM NO. A. 22.5	**QUARTERLY PERFORMANCE APPRAISAL OF FACULTY MEMBERS** Director informed that this appraisal system is already approved by the BOG and all the faculty members have to submit the quarterly performance appraisal report and the activities under taken by them w.e.f. O.Plan 2019-20. The HODs were requested to make sure that their all faculty members comply with this requirement	Already software has been launched. All faculty have started filling online their quarterly performance Appraisal.

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Against ITEM NO. A. 22.6	**INVITING PROFESSORS FOR PRE-THESIS AND THESIS VIVA-VOCE FOR ME AND PhD STUDENTS** With a view to maintain quality and to get feedback from senior faculty members, it was decided that for the pre-thesis and thesis viva-voce of ME students and synopsis and thesis defense of Ph.D scholars, faculty not below the rank of a Professor will be invited. However, in case of experts from premium institutes (NITs/IITs/IIMs) faculty of any cadre may be invited.	Noted
Against ITEM NO. A.22.7	**DEVELOPMENT OF MODEL CURRICULUM OF COURSES IN EMERGING AREAS FOR AICTE, DELHI** As desired by the AICTE, the institute has prepared curriculum for nine courses by organizing the curriculum workshops inviting experts from IITs, representatives from industry, R&D and faculty from various academic institutions and NITTTR, Chandigarh.	Already completed the development of model curriculum for nine emerging areas and submitted to AICTE, New Delhi. Secretary, MHRD launched this model curriculum of courses in emerging areas in 2019. Chairman AICTE and Secretary of MHRD appreciated the good work of the Institute. The Institute received Rs. 2.83 Lakhs from AICTE for the said work.
Against ITEM NO. A.22.8	**SPONSORED PROJECTS RECEIVED BY FACULTY MEMBERS** The Hon'ble members were informed that the institute submitted 18 research proposals/sponsored projects to different agencies for the year 2018-19. The institute received the approval of one sponsored project on "Establishment of Advance Cyber Security Lab for Technical Teachers Training" of amount ₹62 lakhs from Ministry of Information and Technology, Delhi. AICTE recommended to provide grant for one Research Promotion Scheme, National Conference on "IOT Inclusive Life", to conduct faculty development programme and short-term training programme.	Noted
Against ITEM NO. A.22.9	**NEW LABORATORY INITIATIVE BY DIFFERENT DEPARTMENTS** The Heads of the department of Mechanical Engineering and Electrical Engineering gave detailed account of the new facilities created in their Departments.	Noted

Against ITEM NO. A. 22.10	**MOUs SIGNED BY THE INSTITUTE** The Hon'ble members were informed that the institute has signed four MOUs during the period of 1st March, 2018 and 1st March, 2019. The members appreciated the initiatives undertaken of the institute.	Noted
Against ITEM NO. A. 22.11	**SIGNING OF MOU WITH IIT, NEW DELHI FOR IMPLEMENTATION OF UNNAT BHARAT ABHIYAN** NITTTR Chandigarh has been identified as one of the "Regional Coordinating Institutes" by the MHRD, GOI for contributing and implementation of Unnat Bharat Abhiyan, a flagship programme initiated by Government of India, in the 22 Districts of Punjab.	The Institute was granted Rs. 10 Lac for the purpose. 5 Villages in Roopnagar District have been adopted under UBA and the Institute is guiding about 75 Institutions of Punjab and Chandigarh under this Scheme.
Against ITEM NO. A. 22.12	**TO APPROVE THE OPERATIONAL PLAN OF THE INSTITUTE FOR THE YEAR 2019-2020** O.Plan of the institute for the year 2019-20 has been prepared keeping into consideration, the requirement of stakeholder. The same was approved by the Academic Council and recommended to BoG for its consideration.	Noted
Against ITEM NO. A. 22.13	**DEEMED-TO- BE-UNIVERSITY STATUS FOR NITTTR, CHANDIGARH** A committee in this regard has been set-up under the Chairmanship of Prof. BS Pabla and Prof Rakesh Wats to prepare the document for submission to UGC with a copy to MHRD.	Proposal for grant of Deemed to be University status to the Institute has been filed with UGC. Copy of the application has been sent to MHRD. Application fee of Rs. 15.00 Lakhs has also been paid to UGC.
ITEM NO. A.22.14	**VISION, MISSION AND STRATEGIC PLAN OF EVERY DEPARTMENT** Each HOD is required to create tools, define process and evaluation mechanism for the same.	Vision, Mission and Strategic Plan of every department is attached as an **Annexure III** (Page No. 15 to 31)
ITEM NO. A.22.15	**PROPOSAL FOR FOUR NEW ME PROGRAMMES AND ONE MBA PROGRAMME** Four new programmes in (*i*) ME Computer Science and Engineering (Specialization in Internet of Things), (*ii*) ME Mechanical Engineering (Specialization in Robotics), (*iii*) ME Electronics and Communication Engineering (Specialization in Artificial Intelligence), and (*iv*) ME Electrical Engineering (Specialization in Energy Systems	Due to the rigid timeline of approval process of PU, the institute could not start these program in the year 2019. The institute will start these programs in the current year 2020. The MBA proposal was submitted to AICTE and

	and Smart Grid). For Civil Engineering, the proposal on ME in Smart Infrastructure is under process.	could not qualify in the screening process.
ITEM NO. A.22.16	**DIGITIZATION OF DEPARTMENTAL RESOURCES** Director informed that all the departments are required to digitize the instructional material namely modules, lab manuals, readers, lecture handouts, PPTs etc. and maintain a repository for the same.	Already Developed. Materials have been hosted in eLektz Mobile Platform.
ITEM NO. A.22.17	**PARTIAL USE OF IRG FOR HIRING EXPERTS FROM INDUSTRY AS ADJUNCT FACULTY TO TEACH SUBJECTS OF EMERGING AREAS** The Hon'ble members were informed that since the institute is expected to launch four ME and one MBA programme in emerging areas, experts from the Industry will be hired as adjunct faculty to teach the latest technology and practices covering almost 40% of the total curriculum content. The expenditure on this account will be borne from the IRG generated by the institute.	A Committee of Deans has been constituted by the Directors to explore these option. Further, Institute is exploring options like getting fund from INAE to host the Visiting Professors. Currently, Institute hosts one INAE Distinguished Visiting Professor.

Items for Reporting

ITEM NO.A.23.3: **To report the Academic Calendar in respect of ME Programmes (both Regular and Modular) for the Session 2020-21**

Academic Calendar in respect of ME Programmes (both Regular and Modular) for the Session 2020-21 has been sent to Panjab University, Chandigarh for consideration and approval vide letter No. NITTTR/Academic Cell/9411-9412 dated 22.01.2020. Copy enclosed as **Annexure No. IV** (Page No. 32 to 35) for reporting to the members of Academic Council.

(For Reporting)

ITEM NO.A.23.4: **To report the Joining of Newly Recruited Faculty since last meeting of the Academic Council**

In reference to the various advertisements made during 2018 and 2019 the following faculty have joined this Institute at the levels of Professor and Associate Professor against the vacant post of different Departments:
1. Dr.S S Gill, Professor, IMCO Department
2. Dr. Srinivasa K G, Professor, IMCO Department
3. Dr. Piush Verma, Professor, ETV Department (on Lien Vacancy)
4. Dr. Rupinder Singh, Professor, Mechanical Engineering Department
5. Dr. Pankaj Sharma, Professor, Applied Sciences
6. Dr. Ritula Thakur, Associate Professor, EEE Department
7. Dr. Balwinder Singh, Associate Professor, ECE Department

8. Dr. Meenakshi Sood, Associate Professor, CDC Department
9. Dr. Ashok Kumar, Associate Professor, Applied Sciences
10. Dr. Hemanth Kumar Vinayak, Associate Professor, EDIC
11. Dr. Balwinder Raj, Associate Professor, ECE Department

Two Professors and One Associate Professor have requested for grant of extension and likely to join by 1st April 2020 in the Departments of Civil Engineering and EDIC.

(For Reporting)

ITEM NO.A.23.5:   **To report the achievements of NITTTR Chandigarh in SWAYAM MOOCs, NRC and AICTE NITTT SWAYAM MOOCs**

NITTTR, Chandigarh as a part of National Resource Centre for SWAYAM ARPIT Courses, during Sept. 2019 to Dec. 2019 launched a SWAYAM ARPIT Course on *Big Data Analytics for Smart Grid* with **8238** enrolled learners. Further, as a part of AICTE NITTT, NITTTR Chandigarh has launched 3 Modules on (*i*) Communication Skills, Modes and Knowledge Dissemination (*ii*) Creative Problem Solving, Innovation and Meaningful R&D, and (*iii*) Instructional Management and Administrative Procedures on AICTE NITTT SWAYAM Portal.

Added to these, the SWAYAM MOOC Courses of NITTTR Chandigarh (*i*) Graphics and Animation, and (*ii*) Self Learning Material Development (*iii*) Research in Technical Education are scheduled to re-run for the year 2020.

(For Reporting)

ITEM NO.A.23.6:   **To report the achievements of the last OPLAN 2019-20.**

The summary of the important events held since last academic council is placed in **Annexure No. V** (Page No. 36 to 38) for reporting to the members of Academic Council.

(For Reporting)

ITEM NO.A.23.7:   **To report the MoUs signed by the Institute with other Organizations.**

The Institute has signed MoUs with MC Chandigarh for Design and Maintenance of Roads, Typhooon HIL, Switzerland to Setup NITTTR HIL Centre of Excellence, and uLektz Learning Solutions Pvt. Ltd. (uLektz.com), Chennai for Designing and developing eLearning courses for NITTTR. The summary of the MoUs signed by the Institute with other Organizations is placed in **Annexure No. VI** (Page No. 39) for reporting to the members of Academic Council.

(For Reporting)

ITEM NO.A.23.8: **To report the status of Sponsored Projects and Consultancy Activities along with the IRG Generated by the Institute.**

The summary of the sponsored projects obtained and the consultancy activities carried out by the Institute is placed in **Annexure No. VII** (Page No. 40 to 42) for reporting to the members of Academic Council. The total amount received from various funding agencies is Rs. 4,66,46,804/-.

(For Reporting)

Items for Ratification

ITEM NO A 23.9 **Fixation of rental charges of the guest house for STC participants**

Keeping in-view the escalation in prices and increase in operational cost, a committee was constituted for reframing the rules for allotment of guest house for STC participants. In view of the facilities provided in the rooms of the Guest House, the committee constituted by the Director, has proposed the rate of Rs. 1000/- per room per day for the STC participants and the same has been implemented. Members of the Academic Council may ratify the action taken by the Institute.

(For Ratification)

ITEM NO A 23.10 **Offering Online Skill Oriented Courses with Ulektz Skilling Academy**

NITTTR Chandigarh has signed MoU with Ulektz Skilling Academy for offering online skilling courses in the areas of Cyber Security, Robotics, Digital Marketing, Data Science and Machine Learning, Python Programming, Industrial Automation, PLC, and Communication Skills. These courses are found to be very useful for technical teachers and students. NITTTR Chandigarh will provide the joint certification of these courses.

(For Ratification)

Items for Consideration and Approval

ITEM NO. A.23.11: **To approve the O.Plan of the institute for the year 2020-2021**

Draft operational plan of the institute for the year **2020-2021** has been prepared keeping in to consideration the requirement of stakeholders. A copy of the draft operation plan for the year **2020-2021** is **enclosed separately**. Members of the Academic Council may deliberate and recommend to Board of Governors for Consideration and Approval.

(For Consideration and Approval)

ITEM NO. A.23.12: To consider and approve to discontinue ME (Modular) programme / change the modality of conduction of ME (Modular) programmes

The department of Mechanical Engineering vide their letter dated 06.12.2019 has expressed the opinion to discontinue the ME (Modular) programme in Manufacturing Technology w.e.f from June, 2020 in view of very less admissions during the last two years. A copy of Minutes of faculty of Mechanical Engineering Department which was held on 05.12.2019 is enclosed as **Annexure VIII** (Page No. 43 to 45). On similar lines, the status of the admissions to the various M.E. Programmes under Modular Scheme is also provided. Members of the Academic Council may deliberate and suggest. It is also proposed to run the programme in flexible mode with credit earning instead of rigid 5 weeks' physical presence in each spell.

(For Consideration and Approval)

ITEM NO. A.23.13: To consider and approve to start MBA programme in Rural Development and Entrepreneurship and PG Diploma in Rural and Environmental Journalism

With the addition of new faculty in the Institute, it is proposed to start a (*i*) MBA programme in Rural Entrepreneurship and (*ii*) PG Diploma in in Rural and Environmental Journalism. The proposal is placed in **Annexure IX** (Page No. 46)

(For Consideration and Approval)

ITEM NO. A.23.14: To consider and approve to start Advance Diploma in (*i*) Additive Manufacturing, (*ii*) Digital Marketing, ME/M.Tech in CSE (Cyber Security) Evening/Weekend Programme; MSc in Physics with specialization in Nano photonics jointly with Panjab University

In continuous perseverance with UIET of PU, the Hon'ble VC of Panjab University has agreed to start some joint courses with NITTTR in the areas of Digital Marketing, Additive Manufacturing, Cyber Security, Nanophotonics leading degrees like Advance Diploma, ME/M.Tech or MSc. Further modalities of conduction of these courses will be finalized in consultation with PU.

(For Consideration and Approval)

ITEM NO A 23.15   To Consider and Approve the Fee Structure for New ME Programmes

The Institute had submitted a proposal to AICTE for starting of four new ME programmes. The Institute has applied for the affiliation to Panjab University for introduction of new ME Programmes for the year 2020-21. The approval of Syndicate is likely to be received in the month of February/March, 2020. The fee and modalities to be followed for operationalization of four new ME specialized programmes in the emerging area of IOT, AI and Robotics has been proposed as under:

Fee Detail	For ME Regular Programmes (in ₹)
Admission Fee (one time)	₹ 2,000/-
Programme Fee	₹ 40,000/- I Semester; ₹ 40,000/- II Semester ₹ 25,000/- III Semester; ₹ 25,000/- IV Semester Total: 1,30,000/- (For 2 Years)
Continuation Fee	₹ 5000/- per semester (after 4th semester to be paid to NITTTR in addition to university continuation fee)
Pre-Thesis Exam and Final Thesis Exam	₹ 2000/- per candidate per exam
Security (refundable)	₹ 7,000/- (one time)
Insurance Fee	₹ 500/- (one time for 2 years)

Members of the Academic Council may consider and approve.

(For Consideration and Approval)