



**MEMORANDUM OF UNDERSTANDING
BETWEEN
PANJAB UNIVERSITY, CHANDIGARH (PU)
AND**

**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND
RESEARCH, CHANDIGARH (NITTTR)**

(For joint M.Sc. Degree in Physics (Specialization in Nanophotonics) programme between
Applied Science Department, NITTTR Chandigarh and Department of Physics, PU
Chandigarh)

Preamble:

The need of close co-operation in terms of research and academic activities between Panjab University (PU), Chandigarh herein after referred to as PU AND National Institute of Technical Teachers Training and Research here in after referred to as NITTTR, Chandigarh is being realized by both PU and NITTTR for sharing academic and infrastructural excellence of both the organizations to generate manpower which will contribute to the National Development in the areas of Nanophotonics. The MOU is valid on the following lines:

1. General

- a) Collaboration in research between faculty members of both the organizations needs to be encouraged. For this purpose, facilities existing in both the institutions will be made available to each other.
- b) NITTTR faculty may participate in the various teaching/training programmes of PU on request and vice-versa.
- c) The faculty and students of NITTTR involved in the M.Sc. Physics (Specialization in Nanophotonics) will be extended temporary membership of the Library of PU. While using PU Library facilities, they shall be governed by the rules, as operative in PU. PU faculty members shall likewise be extended temporary membership of NITTTR library.
- d) NITTTR faculty will also train students of M.Sc. Physics in practical aspects of various instrumentation facilities available, exclusively in the Applied Science Department and vice-versa.
- e) The students and researchers in the collaborative programme shall be accountable to the HOD, Applied Science Department, NITTTR and the HOD, Department of Physics, PU, in regard to their academic progress and discipline.
- f) Programme fee (if any) other than fee chargeable by PU Chandigarh will be decided by NITTTR Chandigarh. Revenue generated through this joint programme (if any) will be utilized by NITTTR for the development of Applied Science Department Laboratories.

2. Academic Programmes

- a) PU and NITTTR will work closely to generate appropriately trained manpower in the areas of Nanophotonics through organization of formal academic curricula, symposia, short training courses etc.

- b) Accordingly, PU and NITTTR shall jointly evolve and establish academia interaction with one another in offering M.Sc. Degree in Physics (Specialization in Nanophotonics) course.
- c) A maximum of 20 students of general (General, SC, ST, OBC, EWS and others as per GoI) and 2NRI categories, as per PU rules shall be admitted on the basis of an entrance test to M.Sc. first year. NITTTR will actively be involved in the admission process of the programme. Panjab University, Chandigarh, shall award the M.Sc. Physics (Specialization in Nanophotonics) degree.
- d) NITTTR Chandigarh will be responsible for the teaching activities of M.Sc. Physics (Specialization in Nanophotonics) programme. However, faculty of PU may teach as an Adjunct/Guest faculty in M.Sc. Physics (Specialization in Nanophotonics) programme.
- e) NITTTR may explore the collaboration with national and international institutes, and R&D laboratories.
- f) NITTTR may lend prototype models, equipments, and components to PU for teaching and practical training purposes as can be spared for the purpose and vice versa.

3. Research Programmes

- a) NITTTR and PU will work closely to encourage various research activities in the area of Nanophotonics by proper utilization of various facilities available in Applied Science Department, NITTTR and Department of Physics, PU for dissertation in the M.Sc. Physics (Specialization in Nanophotonics) and PhD programmes.

This MOU is valid for 5 years with effect from 17-12-2020.

Signed this MOU on 17-12-2020 at Chandigarh.

4. Coordination

Professor (Dr.) S.S. Pattnaik, Director, National Institute of Technical Teachers Training & Research, Chandigarh.

Dean Research, Panjab University, Chandigarh, Email: deanresearch@pu.ac.in and Chairperson, Department of Physics will act as Ex-officio.
Email- physics@pu.ac.in

(Professor (Dr.) S.S. Pattnaik)
Director
National Institute of Technical Teachers
Training & Research
Chandigarh

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान
National Institute of Technical Teachers Training & Research
सेक्टर/Sector 26, चण्डीगढ़/Chandigarh

Registrar
Panjab University
Chandigarh
Registrar
Panjab University,
Chandigarh

824/Dean.Rn
28/12/2020



DEAN RESEARCH
VICE-CHANCELLOR'S COMPLEX, PANJAB UNIVERSITY, CHANDIGARH

Please find attached the following original MoU approved by the Syndicate in its meeting held on 13/07/2020 vide paragraph no. 13 for uploading on PU website:

1. National Institute of Technical Teachers Training and Research (NITTTR) Sector-26, Chandigarh and Panjab University, Chandigarh.

The need of close co-operation in terms of research and academic activities between Panjab University (PU), Chandigarh and the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh is being realized by both PU and NITTTR to promote the academic and infrastructural excellence of both the organizations. The MOU is valid on the following lines:

[Signature]
Dean Research
28/12/2020

MIS Cell

1. General

- a) Collaboration in research between faculty members of both the organizations needs to be encouraged. For this purpose, facilities existing in both the institutions will be made available to each other.
- b) NITTTR faculty may participate in the various teaching/learning programmes of PU as expert and vice-versa.
- c) The faculty and students of NITTTR enrolled in the M.Sc. Physics (Specialization in Nanophotonics) will be extended temporary membership of the Library of PU. While using PU Library facilities, they shall be governed by the rules as operative in PU. PU faculty members shall likewise be extended temporary membership of NITTTR library.
- d) NITTTR faculty will also use students of M.Sc. Physics in practical aspects of various instrumentation facilities available, exclusively in the Applied Science Department and vice-versa.
- e) The facilities and amenities in the collaborative programme shall be accessible to the HOD, Applied Science Department, NITTTR and the HOD, Department of Physics, PU, in regard to their academic progress and discipline.
- f) Programme fee (if any) other than fee chargeable by PU Chandigarh will be decided by NITTTR, Chandigarh. Revenue generated through fee joint programme (if any) will be utilized by NITTTR for the development of Applied Science Department laboratories.

2. Academic Programmes

- a) PU and NITTTR will work closely to promote appropriately trained manpower in the area of Nanophotonics through organization of formal academic curricula, symposia, short training courses etc.