राष्ट्रीय प्रौद्योगिकी संस्थान वारांगल

National Institute of Technology Warangal

Hanamkonda, Warangal-506004, Telangana

Senate Minutes

Meeting No.:	142
Date:	25th March 2025
Time	16.30 hours
Venue:	Senate Hall, NIT Warangal

Minutes of 142nd Meeting of the Senate held on 25th March 2025

Prof. Bidyadhar Subudhi, Chairman
Director, NIT Warangal

Sri. Sunil Kumar Mehta
Registrar, NIT Warangal

Members Present:

1. Prof. A. Benerji Babu (MA)
2. Prof. A. Sarath Babu (CH)
3. Prof. A. Veeresh Babu (ME)
4. Prof. A. Venu Gopal (ME)
5. Prof. A. Venu Vinod (CH)
6. Prof. Adepu Kumar (ME)
7. Prof. Arif Ali Baig Moghal (CE)
8. Prof. B. Lakshmi (EC)
9. Prof. B. Sri Padmavati, UOH
10. Prof. B.L. Narasimha Raju (EE)
11. Prof. C. Vanitha (MM)
12. Prof. Ch. Sudhakar (CS)
13. Prof. Ch. Venkaiah (EE)
14. Prof. D. Kasinath (CY)
15. Prof. D. Ramaseshu (CE)
16. Prof. D. Vakula (EC)
17. Prof. D.V.S.S. Siva Sarma (EE)
18. Prof. Debashis Dutta (MA)
19. Prof. Divi Haranath (PH)
20. Prof. G. Amba Prasad Rao (ME)
21. Prof. G. Nagasrinivasulu (ME)
22. Prof. G. Rajesh Kumar (CE)
23. Prof. Hari Ponnamma Rani (MA)
24. Prof. J.V. Ramana Murthy (MA)
25. Prof. K. Anand Kishore (CH)
26. Prof. K. Kiran Kumar (ME)
27. Prof. K. Madhavi (HS)
28. Prof. K. Narasimhulu (BT)
29. Prof. K. Thangaraju (PH)
30. Prof. K. Venkata Reddy (CE)
31. Prof. L. Anjaneyulu (EC)
33. Prof. M. Chandrasekhar (CE)
34. Prof. M. Heera Lal (CE)
35. Prof. M. Sailaja Kumari (EE)
36. Prof. Mahesh Kumar Talari (MM)
37. Prof. N. Bheema Rao (EC)
38. Prof. N. Kishore Babu (MM)
39. Prof. N. Narasaiah (MM)
40. Prof. N. Selvaraj (ME)
41. Prof. N. Viswanathan (EE)
42. Prof. NVSN Sarma (EC)
43. Prof. N.V. Srikanth (EE)
44. Prof. P. Abdul Azeem (PH)
45. Prof. P. Bangaru Babu (ME)
46. Prof. P. Hari Krishna (CE)
47. Prof. P. Hari Prasada Reddy (CE)
48. Prof. P. Muthu (MA)
49. Prof. P. Ramlal (MS)
50. Prof. P. Ravi Kumar (PE)
51. Prof. P. Sreehari Rao (EC)
52. Prof. P. Sreenivasa Rao (BT)
53. Prof. P. Subhash Chandra Bose (ME)
54. Prof. P. Syam Prasad (PH)
55. Prof. P. Vamsi Krishna (ME)
56. Prof. P. Venkata Sri Laxmi (CY)
57. Prof. P. Venkata Suresh (CH)
58. Prof. Pisipati Radha Krishna (CS)
59. Prof. R. Narasimha Rao (ME)
60. Prof. R. Padmavathy (CS)
61. Prof. R. S. Selvaraj (MA)
62. Prof. R.B.V. Subrahmanyam (CS)
63. Prof. Rashmi Ranjan Rout (CS)

32 Prof. L. Krishnanand (ME)

64 Prof. Ravi Kumar Jatoth (EC)

65 Prof. S. Anuradha (EC)
66 Prof. S. Ravichandra (CS)
67 Prof. S. Srinath (CH)
68 Prof. S. Srinivasa Rao (EE)
69 Prof. S. Srinivasa Rao (ME)
70 Prof. S. Venkateswara Rao (CE)
71 Prof. Sourabh Roy (PH)
72 Prof. T. Kishore Kumar (EC)
73 Prof. T. Venkatappa Rao (PH)
74 Prof. T.D. Gunneswara Rao (CE)
75 Prof. V. Hari Kumar (ME)
76 Prof. V. Rajesh Khana Raju (ME)
77 Prof. V. Suresh Babu (ME)
78 Prof. V. Venkata Mani (EC)
79 Prof. V.P. Chandra Mohan (ME)
80 Prof. Vangapandu Rama Devi (MS)
81 Prof. Velagapudi Vasu (ME)
82 Prof. Venkaiah Chowdary (CE)

Special Invitees:

1 Prof. B. Rama Raju (Head, BT)
2 Prof. M. Raja Viswanadhan (Head, HS)
3 Prof. Santhosh P. (Head, CY)
4 Prof. Sunitha G (Head, MS)
5 Prof. KVR Ravi Shankar (AD-PhD)
6 Prof. Syed Ismail (AD-UG)
7 Sri. T. Sreenivas (AR-Academic)

The following members could not attend the meeting:

1 Prof. Amit Prashant, IIT GN
2 Prof. Ashok K. Pradhan, IIT KGP
3 Prof. Asit Kumar Khanra (MM)
4 Prof. B. Sathish Ben (ME)
5 Prof. Bhagwan K. Murthy (EE)
6 Prof. C.S.P. Rao (ME)
7 Prof. D. Jayakrishna (ME)
8 Prof. D. Srinivasa Charya (MA)
9 Prof. G.V.S. Nageswara Rao (MM)
10 Prof. K. Ramesh (CS)
11 Prof. K.V. Gobi (CY)
12 Prof. K.V. Sai Srinadh (ME)
13 Prof. KNS Kasiviswanadham (MA)
14 Prof. M. Joseph Davidson (ME)
15 Prof. N.V. Umamahesh (CE)
16 Prof. P. Ratish Kumar (CE)
17 Prof. P. Venkateswara Rao (CE)
18 Prof. Puli Ravi Kumar (ME)
19 Prof. R. Satish Babu (BT)
20 Prof. Sonawane Shirish Hari (CH)
21 Prof. Srikanth Korla (ME)
22 Prof. V. Ramana Murthy (CE)
23 Prof. V.T. Somasekhar (EE)
24 Prof. Venkatathri Narayanan (CY)
25 Prof. Vishnu Shanker (CY)
26 Prof. Y. Ravi Kumar (ME)

Leave of absence of the members was granted.

The Chairman, Senate welcomed all the Senators.

Part-A [In the presence of Student Representatives]

2025-142-Senate-01	**PhD studentship of Mr. Praveen Kumar Pandugu**

Mr. Praveen Kumar Pandugu (Roll No.: 21EEREP02), a Part-time research scholar of EE Department has not registered for two semesters. He has made a request for cancellation of his studentship.

The Senate approved to cancel the PhD studentship of Mr. Praveen Kumar.

PART-B [Without the presence of the Student Representatives]

2025-142-Senate-2	**Action Taken report on the decisions taken in 141st Senate meeting**

2025-141-Senate-01	Request of Mrs. K.A. Saraswathi, for early submission of thesis	The DSC of the scholar was informed to take further steps and the scholar has submitted her synopsis.
2025-141-Senate-03	Confirmation of the minutes of 140th Senate meeting	The minutes of 140th Senate meeting confirmed by the Senate have been uploaded on the Institute website.
2025-141-Senate-04	(a) Results of Ph.D. Viva Voce Examination (b) Appointment of Adjunct Professors and Professor of Practice	Noted Noted
2025-141-Senate-05	Senate Nomination of Prof. D V S S Sarma (Professor, EE) to serve as a Member, Board of Governors.	Noted
2025-141-Senate-06	Fractal courses through participation in GIAN/SPARC workshops	Students were allowed to register for GIAN/SPARC workshops.
2025-141-Senate-07	Recommendation of the Semester Results to the Senate for approval	The guidelines will be implemented while processing the results of the current semester. Head, CDIS is requested to implement the necessary provisions in the ERP.
2025-141-Senate-08	Proposal for starting new Academic Programs	Number of meetings were held with all the concerned and the details will be presented in 142nd Senate meeting.
2025-141-Senate-9	Proposal for Starting Department of Education	The recommendation of the Senate was placed before the BOG for approval.

2025-141-Senate-10	Partha Ghosh Leadership Academy	The detailed proposal including financial budget and obligation from both NIT Warangal and the Academy will be presented in 142nd Senate meeting.
2025-141-Senate-11	Joint programs in Collaboration with AIT Bangkok	Dean, IRAA has sent an invitation to Prof. Nithin Tripathi of AIT Bangkok for AIT Bangkok's response.
2025-141-Senate-12	Exit policy for MCA	The NEP committee has been requested to propose a comprehensive exit policy for all the programs. The policy will be presented in the next Senate.
2025-141-Senate-13	Proposals for e-Masters programs	Several meetings were held with all the stakeholders. The details will be presented in the next Senate.
2025-141-Senate-14	Proposal to include Universal Human Values and Induction Program.	Noted.

The Senate noted down the action taken report.

2025-142-Senate-3	**Confirmation of the minutes of 141st Senate meeting**

The minutes of the 141st meeting of the Senate were circulated to all the senators. The comments received from the Senators were addressed.

The Senate confirmed the minutes of the 141st Senate Meeting.

2025-142-Senate-4	**Results of Ph.D. Viva-Voce Examination**

The results of the following Ph.D. students who have been provisionally awarded degrees after 141st Senate meeting held on 11-02-2025 on approval of the Chairman, Senate, this is placed before the Senate for information.

PhD Results		
1	**Mr. Kodati Dheeraj**	
	Department	**CS**
	Roll No.	701961
	Date of Viva-voce Examination	19.02.2025
	Foreign Examiner	Dr. Sanjay Madria, Missouri, University of Science & Tech., USA
	Indian Examiner	Dr. Pabitra Mitra, Department of CS, IIT Kharagpur

	Supervisor(s)	Prof. T. Ramakrishnudu
	Thesis Title	Some Deep Learning-based Approaches for Detecting Mental Health Issues from Text Sequences
2	**Ms. Smriti Tiwary**	
	Department	**MA**
	Roll No.	**718160**
	Date of Viva-voce Examination	24.02.2025
	Foreign Examiner	Dr. Zehyrinus C. Okonkwo, Alabany State University, USA
	Indian Examiner	Dr. Aekta Aggarwal, IIM, Indore
	Supervisor(s)	Prof. Satyanarayana Engu
	Thesis Title	Exact Solutions and Their Asymptotics to Viscous Burgers Equations
3	**Mr. Dasari Shanti Ratnam**	
	Department	**MS**
	Roll No.	701973
	Date of Viva-voce Examination	24.02.2025
	Foreign Examiner	Prof. Andy Charlwood, University of Leeds
	Indian Examiner	Prof. M V Anuradha, IIM, Visakhapatnam
	Supervisor(s)	Prof. V. Rama Devi
	Thesis Title	Unraveling the Path to HR Analytics Adoption: Organizational and Employees' Perspectives
4	**Mr. Karingula Sampath**	
	Department	**CY**
	Roll No.	718078
	Date of Viva-voce Examination	26.02.2025
	Foreign Examiner	Prof. Vilas G. Pol, Purdue University, USA
	Indian Examiner	Prof. V. Ganesan, BHU, Varanasi-221005
	Supervisor(s)	Prof. Gobi K.V.
	Thesis Title	Development of Efficient Hybrid Supercapacitor Electrodes with Porous Carbon Materials Modified with Metal Oxides and Conducting Polymers
5	**Mr. M. Krishnam Raju**	
	Department	**PH**
	Roll No.	718073
	Date of Viva-voce Examination	28.02.2025
	Foreign Examiner	Dr. Ravindra Pandey, Michigan Technological University, USA
	Indian Examiner	Prof. Subhash Thota, IIT Guwahati
	Supervisor(s)	Prof. P. Abdul Azeem
	Thesis Title	Rare Earth Doped Calcium Silicate Based Nanophosphors Derived from Recycling Materials for Diverse Applications
6	**Mr. Velmurugan K**	
	Department	**ME**
	Roll No.	718038
	Date of Viva-voce Examination	04.03.2025
	Foreign Examiner	Prof. Amaro Olimpia Pereira Junior, Brazil
	Indian Examiner	Prof. Arul Prakash K, IIT Madras
	Supervisor(s)	Prof. Chandramohan VP and Dr. S. Karunanidhi
	Thesis Title	Development of Piezo Actuated Micro-Blower for Avionic Cooling Applications
	Ms. Shwetha H M	

7	Department	**EC**
	Roll No.	**720056**
	Date of Viva-voce Examination	05.03.2025
	Foreign Examiner	Dr. RR Venkatesha Prasad, Delft University of Tech., The Netherlands
	Indian Examiner	Prof. Vimal Bhatia, IIT Indore, Indore-452020
	Supervisor(s)	Prof. S. Anuradha
	Thesis Title	Performance Analysis Of a Novel MCIK-NOMA System For 5G Networks
8	**Mr. Mangalapuri Venkateswarlu**	
	Department	**CE**
	Roll No.	718113
	Date of Viva-voce Examination	10.03.2025
	Foreign Examiner	Dr. P.V.Vijay, West Virginia University
	Indian Examiner	Dr. Bulu Pradhan, IIT Guwahati
	Supervisor(s)	Prof. T. D. Gunneswara Rao
	Thesis Title	An Appraisal on Tensile and Cracking aspects of Hybrid Fibre Alkali Activated Concrete
9	**Mr. Kiran Kumar Tottadi**	
	Department	**CE**
	Roll No.	719030
	Date of Viva-voce Examination	11.03.2025
	Foreign Examiner	Prof. Mohan Venigalla, George Mason University
	Indian Examiner	Prof. Tom V Mathew, IIT Bombay
	Supervisor(s)	Prof. Arpan Mehar
	Thesis Title	Modeling of Operating Speed of Vehicles for Evaluating Geometric Design Consistency on Two-Lane Rural Highways in India
10	**Mr. Pankaj Barman**	
	Department	**MA**
	Roll No.	701963
	Date of Viva-voce Examination	12.03.2025
	Foreign Examiner	Dr. Suvash C Saha, Senior Lecturer, University of Technology Sydney, Australia
	Indian Examiner	Prof. Ch. Srinivasa Rao, IIT Madras
	Supervisor(s)	Prof. D. Srinivasacharya,
	Thesis Title	Stability Analysis of Micropolar Fluid Flow in a Channel
11	**Ms. K N Loukika**	
	Department	**CE**
	Roll No.	701910
	Date of Viva-voce Examination	13.03.2025
	Foreign Examiner	Prof. Daniel P Ames, Brigham Young University, USA
	Indian Examiner	Prof. RAAJ Ramsankaran, IIT Bombay
	Supervisor(s)	Prof. K. Venkata Reddy
	Thesis Title	Synergetic Effects of Land Use Land Cover and Climate Change on Water Resources of a River Basin
12	**Mr. M. Vidhish Naik**	
	Department	**MM**
	Roll No.	717136
	Date of Viva-voce Examination	20.03.2025
	Foreign Examiner	Dr. Petr Šittner, Institute of Physics of the ASCR, Czech Republic
	Indian Examiner	Prof. Palani Iyamperumal Anand, IIT Indore

	Supervisor(s)	Prof. R. Arockia Kumar and Prof. N. Narasaiah
	Thesis Title	Microstructure, Mechanical Properties and Corrosion Behaviour of Hot-extruded and Friction Stir Processed Zn-Mg Biodegradable Alloys
13	**Ms. Aguru Aswani Devi**	
	Department	**CS**
	Roll No.	720086
	Date of Viva-voce Examination	21.03.2025
	Foreign Examiner	Dr. Ajay Bandi, Northwest Missouri State University, USA
	Indian Examiner	Prof. Somitra Sanadhya, IIT Jodhpur
	Supervisor(s)	Prof. E. Suresh Babu
	Thesis Title	Design of Blockchain-empowered Lightweight Defense Framework for Multi-vector DDoS Attacks in IoT Networks

The Senate noted the results. The Chairman suggested to present the overall number of Ph.D. students who have been provisionally awarded degrees after the 22nd Convocation.

2025-142-Senate-5	**Items for ratification**

(a) The Chairman, Senate has permitted Students having a minimum CGPA of 6.00 with no backlogs to take Internship leading to Full Time Employment.

The Senate deliberated on this and is pleased to accord its approval to permit students having a minimum CGPA of 5.00 with no backlogs to take internship leading to Full time employment.

(b) Change of Co-Supervisor: The Department of EC has proposed to change the present Co-Supervisor for Ms. Machavarapu Deepthi (Roll No. 24ECR1P01) a Part time research scholar, as the present Co-Supervisor has left the Organization. The Chairman, Senate has approved to replace the present Co-supervisor, Dr. A. Krishna Kanth with Dr. Veeresh Babu V.

The Senate ratified the decision of the Chairman.

(c) Consequent to the appointment of Prof. C.S.R.K. Prasad as VC of JNTU Kakinada, the Department of CE has proposed to include Prof. B. Raghuram Kadali as a co-supervisor for the following two full-time research scholars of CE:

1. Ms. Chintakayala Lalitha Sree (Roll No. 21CEFJ005)
2. Mr. Anirudh Subramanyam M. (Roll No. 21CERER13)

The Senate approved the inclusion of the Co-Supervisor as recommended by the Department of CE.

(d) The Department of Chemical Engineering has revised the eligible degree and GATE qualifications for admission into M.Tech Chemical Engineering and Sustainable Energy Generation and Storage Technologies for the AY 2025-26. The Chairman, Senate has approved the revised guidelines.

The Senate suggested to remove MSc (MA) and MSc (PH) from the eligible degree programs for admission into M.Tech Chemical Engineering and M.Tech Sustainable Energy Generation and Storage Technologies.

2025-142-Senate-6	**Offering Executive e-Masters programs from the AY 2025-26**

The Senate has approved to start e-Masters programs from the next Academic session. The following departments have come forward to offer the Executive e-Masters programs as shown below.

S. No.	**Name of the Department**	**Name of the Executive e-Master's Program**
1.	CE	Road Safety and Traffic Management
2	ME	Additive Manufacturing
3.	EE	e-Mobility
4.	EC	AI for Signal Processing, beyond 5G and semiconductor technologies
5.	CS	Artificial Intelligence and Machine Learning
6.	BT	Bio-manufacturing

The detailed guidelines such as modalities, eligibility criteria along with the curriculum is given in Annexure-1 for all the above programs.

The Senate approved the proposal of offering above Executive e-Masters programs and advised the Departments to conduct CDC meetings by inviting one expert from the Industry to finalize the syllabi.

2025-142-Senate-7	**Proposal to start 5-year Integrated M.Tech programs**

(a) Proposal to start 5-year Integrated M.Tech program in Chemical Engineering

The Department of CH is proposing to start a 5-year Integrated Dual Degree program in Chemical Engineering. The Department proposes to admit 12 students into Integrated M.Tech – Chemical Engineering program based on JEE Mains Rank by taking 12 seats from 110 seats allocated towards B.Tech (Chemical Engineering). These Integrated students will have a common curriculum in the first three years and join along with M.Tech students for the remaining two years. The exit policy for these students will be addressed suitably. The students shall be awarded B.Tech and M.Tech degrees after successful completion of 5 years. The Department recommends that the students may be paid stipend during the 4th and 5th Years.

(b) **Proposal to start 5-year Integrated program (B.Tech and M.Tech) in Metallurgical and Materials Engineering**

The Department of MM is proposing to start a 5-year Integrated (B.Tech in MM and M.Tech in MM) program. The Department proposes to admit 12 students into Integrated M.Tech program based on JEE Mains Rank by taking 12 seats from 72 seats allocated towards B.Tech (Metallurgical and Materials Engineering). These Integrated students will have a common curriculum in the first three years and join along with M.Tech students for the remaining two years. The exit policy for these students will be addressed suitably. The students shall be awarded B.Tech and M.Tech degrees after successful completion of 5 years. The Department recommends that the students may be paid stipend during the 4th and 5th Years.

The Senate discussed the proposal at length and approved the same. The Chairman, Senate suggested that the recommendations may be placed before the next BOG meeting for its approval.

2025-142-Senate-8	**Proposal for Major Project in B.Tech program**

A very large number of students (more than 50%) are undergoing 3-6 months internships in Industries who have been offered Full Time Employment through CCPD. In order to avoid the challenges faced with regard to Major Project, it is proposed to offer Major Project-1 in the 7th Semester and Major Project-2 in the 8th Semester as per the following guidelines:

- Major Project-1 is compulsory for all the students in the 7th semester.
- Students who performed well in Major Project-1 (**Securing at least a B Grade**) will be eligible to register for Major Project-2. All other students shall have to register for elective courses for equivalent number of credits as recommended by the Department.
- The full term internship carried out by Students may be considered equivalent to Major Project-2. Students pursuing internship for a shorter period (less than 3 months) are required to register for elective courses for equivalent number of credits in self-study mode/MOOCs as recommended by the Department.

The Senate approved the proposal and suggested that this modification shall be applicable to students admitted from 2025-26 batch onwards.

2025-142-Senate-9	**Proposals for Joint Programs**

(a) Joint PhD program in Chemical Engineering in collaboration with University of Saskatchewan

The Department of Chemical Engineering is proposing to start a Joint PhD program in collaboration with University of Saskatchewan. The Department proposes to sign a MoU with University of Saskatchewan.

(b) Joint M.Tech program in Geoinformatics in collaboration with AIT Bangkok

The Department of Civil Engineering is proposing to start a Joint M.Tech program in collaboration with AIT Bangkok. The Department proposes to sign a MoU with AIT Bangkok. The detailed guidelines such as modalities, fee structure, and duration of the program are given in Annexure-2.

The Senate deliberated the above proposals and approved the same. The Senate suggested that necessary MoU may be signed with the above two foreign

Universities. The Chairman, Senate suggested that the recommendations may be placed before the next BOG meeting for its approval.

2025-142-Senate-11	**Comprehensive Exit policy**

The comprehensive exit policy as proposed by the NEP Committee is shown in Annexure-3.

The Senate discussed the policy in detail and approved the same. The Senate suggested to the Committee to present Multiple Entry policy for students of NIT Warangal in the next Senate.

2025-142-Senate-12	**Proposal for MTech (Research) or MS (Research)**

In view of enhancing the PhD admissions, it is proposed to advertise for MTech (Research) and MS (Research) programs in the Institute from the AY 2025-26.

The Senate in principle approved the proposal and suggested to advertise for the above programs for admission in the AY 2025-26. The Chairman, CDC is requested to present guidelines such as Eligibility conditions and Curriculum in the next Senate.

2025-142-Senate-13	**Academic Calendar for Summer Courses**

As per the regulations approved by the Senate, Summer Courses are to be conducted for the first year and second year students of B.Tech and Integrated MSc students. The draft Academic Calendar for the summer courses is presented in the table below.

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

SUMMER SEMESTER ACADEMIC CALENDAR: 2024-25 May-July 25

SUMMER COURSES (for I and II B.Tech and Int.MSc. students only)
Classes will commence from 13th May 2025

	Classwork Commences Last Working Day		Mid / End Exams		Registration Lab ES Exams		Holidays Compensatory Classwork

SUN	MON	TUE	WED	THU	FRI	SAT

May 04	May 05 PG Disser. Evaluation	May 06 Senate Meeting	May 07	May 08 Publication of results	May 9 Payment and Reg. Summer courses	May 10 Payment and Reg. Summer courses
May 11	May 12 Buddha Purnima	May 13 CW - Summer classes	May 14	May 15	May 16	May 17
May 18	May 19	May 20	May 21	May 22	May 23	May 24
May 25	May 26	May 27	May 28	May 29	May 30	May 31
June 1	June 2	June 3	June 4	June 5	June 6	June 7 Bakrid
June 8	June 9	June 10	June 11	June 12	June 13 Last Working Day	June 14
June 15	June 16 End Sem Exam	June 17 End Sem Exam	June 18 End Sem Exam	June 19 End Sem Exam	June 20 End Sem Exam	June 21
June 22	June 23	June 24	June 25	June 26	June 27	June 28
June 29	June 30 Ver. of Scripts	July 1	July 2 DAC Meeting	July 3 Submission of Grades to Exam Section	July 4	July 5
July 6 Muharram	July 7 Senate Meeting Reg. for Autumn Sem	July 8 Reg. for Autumn Sem	July 9 Publication of results Reg. for Autumn Sem	July 10 Reg. for Autumn Sem	July 11 Reg. for Autumn Sem	July 12
July 13	July 14 Commencement of Autumn Sem Classwork	July 15	July 16	July 17	July 18 Last Date for payment of fee with fine	July 19

 # Makeup Examinations will be conducted from 16 June to 27 June 2025.

The Senate approved the proposed Academic Calendar for Summer Courses.

2025-142-Senate-14	**Partial modification of PhD regulations**

As per the existing regulations, research scholars are allowed to submit their thesis only after publishing at least two papers in SCI/ADBC journals. In partial modification to this regulation, it is proposed that, a patent granted to a research scholar may be considered equivalent to publishing a paper.

The Senate approved the proposal provided that the patent granted is based on the research work with the Scholar as the first name. The Senate suggested that Patents granted by India/US/UK/Japan only may be considered.

2025-142-Senate-15	**Any other Item with the permission of the Chair**

Ms. Bhumi Yadav (Roll No. 22pHC1R18) a final year student of MSc (Tech) has taken a semester break in the 4th semester due to health conditions and joined 5th semester after

the break. She has registered for all the courses of 4th semester in the 6th semester and could not register for the dissertation in view of the maximum number of credits that can be registered in a semester. The DAC (PG&R) of the Department has recommended that she may be permitted to register for the dissertation in the coming semester. Prof. Sourabh Roy, the Head of PH has presented the case before the Senate.

The Senate approved the recommendation of the DAC PG&R and permitted Ms. Bhumi Yadav to register for the Dissertation in the coming semester (autumn semester of 2025-26) as a special case.

The meeting ended with thanks to the Chair.

22.05.2025

Sri. Sunil Kumar Mehta
Registrar & Secretary

A.S. Babu 22/5/25

Prof. A. Sarath Babu
Dean, Academic

22/5/25

Prof. Bidyadhar Subudhi
Director & Chairman

Annexure-1

Executive e-Masters Programs

MINUTES OF THE MEETING HELD ON 03-03-2025 IN THE BOARDROOM AT 3.00 PM

Agenda: To discuss and finalize the common modalities for offering e-Master's Programs

Members Present:
Prof. A. Sarath Babu, Dean (Academic), Prof. D.V.S.S. Siva Sarma, Chairman (New Programs Committee), Prof. A. Venu Gopal, Chairman (CDC), Prof. P. Radhakrishna, CS, Prof. K. Venkata Reddy, Head, CE, Prof. Ch. Venkaiah, EE, Prof. Y. Ravikuamr, Head, ME, Prof. R. Padmavathy, Head, CS

In the meeting some of the common aspects pertaining to all the Departments have been thoroughly discussed and the following issues have been resolved.

Program	**Executive e-Masters for working professionals**
Name of the program	To be decided by the respective Department
Minimum number of students	15
Eligibility for admission	Graduates with a min. of 2 years' experience Eligible degree(s) to be specified by the Department
Total Duration of the program	2 Years
Number of Terms	8 (each term with a duration of 3 months including examinations)
Total Credits	48 credits (6 credits per term with a min. of 2 courses)
Credits through course work	36 in the first 6 terms
Credits through Dissertation	12 credits (last two terms); or through course work in the last two terms
Residential requirement	Not mandatory
Service Provider	Not recommended

Department of Civil Engineering

Executive e-Master's in ROAD SAFETY AND TRAFFIC MANAGEMENT

Eligibility: B.Tech./B.E. or Equivalent Degree in Civil Engineering/ Highway Engineering with a minimum of 2 years' experience **Course Structure:**

Term	Course 1	Course 2	Course 3	Credits
1	Traffic Engineering	Fundamentals of Road Traffic Injury	Traffic Data Analytics	3 x 2
2	Safer Road Design	Road Safety Management	Human Behavior and Road Safety	3 x 2
3	Safe System Approach	Assessing the Health and Economic Burden of Road Traffic Injuries	Urban Transport Planning and Safety	3 x 2
4	Sustainable Transportation	Traffic Control and Management	Intelligent Transport System	3 x 2
5	Road Safety Audit and Traffic Risk Analysis	Safer Vehicle Technologies	Traffic Calming Measures	3 x 2
6	Vulnerable Road User Safety	Intelligent Solutions for Safety and traffic management	Traffic Flow Modelling and Simulation	3 x 2
7	Dissertation work (12 credits) Or 12 credits through elective courses in the last two terms			12 Or 6 x 2
8				

List of Elective Courses for last two terms instead of Dissertation Work

Course Title
Big Data Analytics in Transportation
GIS for Transportation Systems
Optimization Methods in Transportation
Transport Economics and Project Appraisal
Risk Factors and Choosing Interventions for Road Traffic Injuries
Road safety policies
Transportation Systems Management
Campaigns and Awareness Rising Strategies in Road Safety

Department of Electrical Engineering

Executive e-Master's in e-Mobility

Eligibility: B.E/B.Tech in Electrical, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering/Automobile Engineering/Production Engineering with a minimum of 2 years' experience.

Course Structure:

Term	Course 1	Course 2	Course 3	Credits
1	Architecture of Electric Vehicles	DC-DC Converters for EVs	DC-AC converters for EVs	3 x 2
2	Renewable Energy Systems for EVs	Energy Storage Technologies	Modern Control Theory	3 x 2
3	Vehicle Dynamics	Modelling of Electrical Machines	Battery Thermal Management	3 x 2
4	Smart Grids and EV integration	Electric Drives for EVs	Chassis design	3 x 2
5	Control of Electric Propulsion Systems	Sensors for EVs	Fundamentals of AI	3 x 2
6	AI applications in E-mobility	Aerodynamic design of EVs	Automotive Electronics	3 x 2
7	Dissertation work – Part-A			6
8	Dissertation work – Part-A			6

Department of Mechanical Engineering Executive

e-Master's in Additive Manufacturing

Eligibility: B.E/B.Tech in Mechanical, Production, Metallurgy, Material Science, Automobile, Aeronautics, Aerospace, Mechatronics Engineering, Robotics Engineering, Industrial Engineering, or other equivalent degrees with a minimum of 2 years' experience.

Course Structure:

Term	Course 1	Course 2	Credits
1	Geometric Modelling for AM	Polymer 3D Printing Technologies	2x3
2	Design for Additive Manufacturing	Metal Additive Manufacturing	2x3
3	Materials for AM	Energy Sources and it's interaction Mechanisms in AM	2x3
4	Modelling and Simulation of AM Processes	Testing, Standards and Qualification of AM Parts	2x3
5	Rapid Prototyping, Tooling, and Manufacturing	Postprocessing and Characterization in AM	2x3
6	Industrial Applications of AM	AI in Additive Manufacturing	2x3
7	Dissertation work – Part-A		6
8	Dissertation work – Part-B		6

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL – 506 004 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Executive Masters Program Name: **AI for Signal Processing, 5G Beyond and Semiconductor Technologies**

Eligibility: BE/BTech in ECE/EEE/EI

Course Structure:

S.No.	Subject-I Name	Credits	Subject-II Name	Credits	Total Credits
Term-I	ML Algorithms for Speech Processing	3	5G Beyond Communications	3	06
Term-II	Computer Vision and Applications	3	Nanoelectronics	3	06
Term-III	Networks and Security	3	Analog and Digital IC Design	3	06
Term-IV	Edge Computing for IOT Applications	3	Quantum Communication and Computing	3	06
Term-V	ML for Physical Design and Verification	3	ML Based System Design	3	06
Term-VI	Communication Lab			2	06
	Advanced Signal Processing Design Lab			2	
	IC Design Lab			2	
Term-VII	Project A				06
Term-VIII	Project B				06
Total Credits					**48**

Department of Biotechnology

Executive e-master's program on Biomanufacturing

Eligibility:

- B. Tech Biotechnology/Chemical Engineering/Biomedical Engineering /Genetic Engineering/Bioinformatics and other Allied areas,
- M.Sc Biotechnology/Life sciences/Botany/Zoology/Chemistry/Genomics/Genetics/Biochemistry/Microbiology/Forensic Science and other allied areas
- B. Pharmacy/M. Pharmacy/B.V.Sc/M..V.Sc/Ag. B.Sc/Horticulture B.Sc other allied four years degree programs

Course Structure:

Term	Course 1	Course 2		Credits
1	Introduction to Biological Processes	Recombinant DNA technology and Gene editing	Computational biology for drug design and development	3 x 2
2	Upstream Processing: Fermentation and Cell Culture Technology	Modelling simulation and optimization of Biomanufacturing		2 x 3
3	Bioreactors: Design and Scale-up	Downstream Processing		2 x 3
4	Analytical and Characterization Techniques	Biomanufacturing Automation and Process Control		2 x 3
5	Quality Control and Quality Assurance	Regulatory Affairs and Good Manufacturing Practices (GMP)	IPR and product commercialization	3 x 2
6	Systems and Synthetic Biology	Bioeconomy and Biorefineries		2 x 3
7	Project Work: Part-A			6
8	Project Work: Part-B			6

Theory courses those who

are not opting for the

project work Term 7: Unit

Operations, Bioenergetics,

Vaccine technology

Term 8: Biostatistics, Metabolic Engineering, Wastewater and effluent treatment technology

Department of Computer Science & Engineering Executive e-Master's in Artificial Intelligence and Machine Learning

Eligibility: 4-year B.Tech./B.E./B.S. in any branch of study (or) 3-year B.Tech./B.E. in any branch of study after 3-year Diploma in any branch of Engineering (or) Masters' Degree in CSE/IT/MCA/MBA/Mathematics/Physics/Electronics after at least 3-year BSc/BS/BCA degree having at least one Mathematics course in the curriculum

Course Structure:

Term	Course 1	Course 2	Credits
1	Foundations of AI	Mathematics for Machine Learning (Practice with PYTHON Programming)	2 x 3
2	Database Systems	Machine Learning Practice (Practice with PYTHON Libraries)	2 x 3
3	MLops	Big Data Analytics	2 x 3
4	Deep Learning	Industrial AI	2 x 3
5	Elective-I	Deep Learning projects with real-world datasets	2 x 3
6	Elective-II	Elective-III	2 x 3
7 & 8	Dissertation		12

List of Electives

Elective	Course Title
I	Advanced Data Structures & Algorithms Advanced Data Mining Computer Vision IoT & Cloud Generative AI
II	Recommendation Systems Drone Technologies Natural Language Processing AI and ML for Cyber Security
III	Healthcare AI Manufacturing AI Agri AI Explainable & Responsible AI Conversational AI

Annexure -2
Draft MOUs for Joint PhD and Joint M.Tech programs

MEMORANDUM OF AGREEMENT

between the

DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING, UNIVERSITY OF SASKATCHEWAN, CANADA

and the

DEPARTMENT OF CHEMICAL ENGINEERING, NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL, INDIA

for a

COLLABORATIVE DUAL Ph.D. DEGREE PROGRAM

1. PARTIES TO THE AGREEMENT

This agreement is made between the Department of Chemical and Biological Engineering at the University of Saskatchewan, hereafter referred to as 'USask', and the Department of Chemical Engineering at the National Institute of Technology Warangal, hereafter referred to as 'NITW' on the following:

2. PURPOSE OF THE AGREEMENT

This Agreement identifies the terms and conditions, financial principles, and course offerings associated with the delivery of a collaborative dual Ph.D. degree program.

3. PROGRAM DESCRIPTION

A dual Ph.D. is a dissertation-degree program involving work on a specific research project. The expected duration for time in program to completion is normally four (4) years. However, in this dual Ph.D. program, the time to completion may vary depending on individual student progress. At the University of Saskatchewan, the College of Graduate and Postdoctoral Studies (CGPS) allows a maximum of six years to completion. NITW allows a maximum of five years to completion.

The dual Ph.D. degree course requirements for the candidates should be as per the respective home institutions. This should satisfy a *minimum* of credit units of courses at the graduate level at each institution including the graduate Seminar/ Comprehensive examination, and a graduate level Ethics and Integrity course. The list of mandatory credit and non-credit courses and possible electives is available in Appendices 1 (USask) and 2 (NITW). The Advisory / Doctoral Scrutiny Committee may determine that more courses are required if the student is lacking in the appropriate academic background. No undergraduate level courses are to be included in the minimum credit unit requirement.

The Program described in this agreement will consist of an offering of courses at both sites – NITW and the USask. The course work at NITW will be eligible for transfer of credits towards the Ph.D. in Chemical/Biological Engineering at the USask. Similarly, the course work at the USask will be eligible for transfer of credits towards a Ph.D. at NITW.

3.1 USask students admitted to the Dual Degree Ph.D. program first enrol at USask. Within 12 months of their admission to USask, they are expected to have their first joint committee meeting and pass their Doctoral Candidacy Assessment within 24 months. As soon as possible they are expected to take required USask courses including GSR 960 - Introduction to Ethics and Integrity. Additional non-credit courses and online safety courses should be taken as needed (Appendix 1). Students should register in a minimum of six (6) c.u. in their area of specialization as per the recommendation of their joint graduate committee. Students are expected to start their dissertation work during their first year. USask students will enrol at NITW, upon arrival, and take the courses, if any, as suggested by the supervisory committee. The student will have annual joint committee meetings and will present their Research Progress Reports. The joint committee meeting (permission to write) will conduct a candidacy assessment/scrutiny in order to give permission to write a dissertation prior to the dissertation defence. Acceptance of at least two manuscripts as a first author in a refereed international journal is a requirement prior to the dissertation defence. The dissertation shall be written in English. Due to individual student progress, the nature of their research project, and the availability of required courses, there will be flexibility in the specified dates of enrolment at each institution, but the parties agree that over the course of the program of study, every student will spend approximately fifty percent (50%) of their time at each partner university.

Students, whose home institution is USask shall plan to enrol in NITW according to NITW academic calendar, which is either the Autumn session (July-December) or Spring session (January-June).

3.2 NITW students admitted to the Dual Ph.D. program enrol at NITW and will take the required number of courses at NITW as per Appendix 2 and will pass the Comprehensive Examination within eighteen months of the student's admission to a Ph.D. program at NITW. Students are expected to start their dissertation work during this time. Then, NITW students will enrol at the USask upon arrival, take the courses, if any, as suggested by the supervisory committee. The student will have annual joint committee meetings and will present their Research Progress Reports. The joint committee meeting (permission to write) will conduct a final scrutiny/comprehensive exam in order to give permission to write the dissertation prior to the dissertation defence. Acceptance of at least two manuscripts as a first author in a refereed international journal is a requirement prior to the dissertation defence. The dissertation shall be written in English. Due to individual student progress, the nature of their research project, and the availability of required courses, there will be flexibility in the specified dates of enrolment at each institution, but the parties agree that over the course of the program of study, every student will spend approximately fifty percent (50%) of their time at each partner university. NITW students shall plan to enrol at USask in the Fall session (Sept. to December), Winter session (January to April) or Spring/Summer session (May to August) as per their convenience.

3.3 Students who have successfully completed the program and have met the requirements from both universities will be granted a Ph.D. from the USask as well as from NITW.

4. COURSES

4.1 The USask courses listed in Appendix 1 have been assessed by NITW and are considered eligible for credit unit transfer toward the requirements for the NITW degree.

4.2 The NITW courses listed in Appendix 2 have been assessed by the graduate committee in the Department of Chemical and Biological Engineering at the USask and are considered eligible for credit unit transfer toward the requirements for the USask degree.

4.3 When course descriptions of either Party change, the revised description will be submitted in writing to the other Party and reviewed to determine if and how the revised course will be applied to the applicable degree program.

5. COMMITTEE COMPOSITION AND ROLE OF SUPERVISORS

5.1 The dissertation advisory committee/Doctoral Scrutiny committee for the Dual Degree Program is to be composed of supervisor(s) from USask and supervisor(s) from NITW, plus two other members from each university, for a total of minimum six faculty on the committee. The chair of the committee will be one of the faculty members from the student's home institution. The supervisor cannot be Chair of the student advisory/ Doctoral Scrutiny committee.

5.2 The supervisor(s) at each institution will be responsible for the student's supervision while the student is in residence at their respective universities. The supervisor(s) will recommend the composition of the Advisory/Doctoral Scrutiny Committee and, in consultation with the student, recommend a research topic and course requirements. It is the duty of the supervisor(s) to coordinate the student's program, to see that appropriate examinations are arranged and that regular meetings of the Advisory/Doctoral Scrutiny Committee take place at least once per year. Immediately after the enrolment of the student, the supervisors shall submit the program timeline including travel plans to USask and NITW offices.

5.3 It is the responsibility of each party to notify the other party should there be a pending change in the supervisor(s) at their institution.

5.4 The initial joint Advisory/Doctoral Scrutiny Committee will meet with the student within three months of the student's arrival and conduct a Dissertation progress meeting. Committee members not in residence at the location of the meeting will participate online using a web-based technology. This meeting is designed to evaluate the student's background and aid the Advisory/Doctoral Scrutiny Committee in establishing a suitable course program and a general area of research.

5.4.1 The supervisors will complete a Program of Studies, which includes the name of the research project, the committee membership and the list of courses required as soon as possible after the start of the student's program. This will be forwarded to the Graduate Student Committee for approval and forwarded to the Dean Academic Affairs at NITW and CGPS at USask. A CGPS Student-Supervisor Agreement will also be completed within 12 months of the start of program by the student and supervisors at USask.

https://students.usask.ca/documents/graduate/student-supervisor-agreement.pdf

5.4.2 An annual written progress report will be provided by the student, orally presented to the joint advisory/Doctoral Scrutiny committee, and approved by the committee. The first report shall consist of the Full Dissertation Proposal report and presentation.

5.5 Submission of the dissertation to the USask will follow the policies of the USask academic unit and the CGPS including the submission and approval of a research plan and dissertation proposal, and all ethics and risk management approvals. The doctoral dissertation submitted by an applicant to the Dean of NITW will be formally accepted after the Doctoral Scrutiny Committee confirms that the applicant is qualified for application and that the submitted documents/forms meet the requirements.

6. ASSESSMENTS AND EXAMINATIONS

6.1 Ph.D. Qualifying/Candidacy Exam: This exam is taken to evaluate a student's background and to determine whether the student has the capability to proceed in a Ph.D. program. In this exam, the student is expected to answer general questions on all aspects of Chemical/Biological Engineering and more specific questions in the area of specialization.

6.1.1 At USask, there is no requirement for students to take a qualifying exam (effective May 1, 2024), however Ph.D. students have to complete the Doctoral Candidacy Assessment within 24 months.

6.1.2 At NITW, the Comprehensive exam will be held within 18 months of the student's admission to NITW Ph.D. program. There will be maximum of two attempts within this period.

6.2 Yearly Research Progress Meeting: This meeting should be held once a year to evaluate the research progress of the student. A written progress report should be submitted as part of this yearly meeting.

6.3 Ph.D. Candidacy Assessment/Final Scrutiny (Synopsis Seminar): All fully qualified Ph.D. students with home institutions of either USask or NITW must take this assessment after completing all coursework and just before obtaining permission to write the dissertation. It covers a broad aspect of the appropriate disciplines and is used as a means of judging whether or not the candidate has adequate knowledge in the field of research and topics cognate to the field of research and whether the candidate can apply this knowledge to problem solving.

6.3.1 At USask, the PhD Candidacy Assessment must be completed within twenty-four (24) months of initial registration. For students that transfer from a master's to a doctoral program, the assessment must be completed within thirty-six (36 months) of initial registration.

6.3.2 At NITW, the PhD Candidacy Assessment / Comprehensive exam must be completed within eighteen (18) months of initial registration.

This oral assessment will take place before the Ph.D. dissertation submission. It may be repeated once with the permission of the student's joint dissertation advisory committee/student research committee.

6.4 **Ph.D. Dissertation Defence** - Once the Committee has determined the dissertation is ready for the final defence examination, submission of the dissertation will follow the policies of the student's home institution (the location where the student holds primary residence and normally begins their program). For example, at the USask, it shall be the policies of the USask academic unit and the CGPS, including the submission and approval of a research plan and dissertation proposal, and all ethics and risk management approvals that are followed. At NITW, the student should follow the policies set by the Department of Chemical Engineering and NITW. The defence will include a 40-50-minute seminar by the candidate and will be immediately followed by an oral examination at NITW. At USask, the defence will

include approximately 25-minute presentation followed by an oral exam. The final approved dissertation will be archived at both institutions.

6.4.1 The Examining Committee, including one external examiner, will be as per the norm of home institution.

6.4.2 The external examiner will be appointed by NITW and the USask, in accordance with the policies of the home institution.

6.4.3 The Examining Committee will rule on whether the dissertation is satisfactory in form and content, and on whether the candidate's defence of the dissertation was satisfactory. Defence may occur in-person on-campus; remotely through digital platforms; or by a combination of both.

7. ADMISSIONS PROCESS

7.1 Students must apply individually to the USask to be admitted to USask, meet all application requirements, and pay the posted application fee in order to be considered for admission. Students must apply individually to the NITW, meet all application requirements and pay the posted application fee in order to be considered for admission at NITW.

7.2 Students admitted to the Dual Ph.D. Program must meet the admission requirements of both institutions and departments.

Students will be admitted to the USask College of Graduate and Postdoctoral Studies (CGPS) only upon the recommendation of the Department of Chemical and Biological Engineering. Recommendations are based on the evaluation of academic ability, availability of an appropriate supervisor, and establishment of suitable financial arrangements. To be admitted to a Ph.D. program, the student must have an M.Sc. from a university recognized as having standards comparable to those of the USask.

Students will be admitted to NITW only upon the recommendation of the Department of Chemical Engineering. Recommendations are based on the evaluation of academic ability, availability of an appropriate supervisor, and establishment of suitable financial arrangements. To be admitted to a Ph.D. program, the student must have B.Tech./M.Tech./M.Sc. or equivalent in Chemical Engineering/Chemical Technology/ Allied Disciplines in Engineering and Sciences.

8. FINANCIAL PRINCIPLES

8.1 Students shall pay the required application fees associated with the application process for both their application to the USask and their application to NITW, at the time of their respective application.

8.2 Students shall pay their own tuition to each institution for at least two (2) years. International students shall pay tuition at the posted rates for international students. Students must be registered (paying student fees) from the time of their first registration at the USask until completion of their degree requirements.

Students must maintain continuous registration at USask after their first registration in a graduate program. After a student has registered at USask and is pursuing studies as part of the dual-degree program at NITW, they will be registered in a non-tuition bearing placeholder course at the USask and assessed student fees (ex – MSTA 03). This will allow these students to maintain their active USask registration and will relieve them from having to pay tuition to both institutions concurrently. USask student fees will continue to be assessed for all students after their first registration at USask, regardless of physical location of attendance. All students are expected to pay tuition to each institution for half of the duration of the dual degree program, while they are physically attending those institutions.

8.3 USask students will be entitled to any and all benefits generally accorded to NITW students while registered and attending NITW. This includes but is not limited to access to libraries and recreational facilities, and basic coverage of health and dental insurance.

8.4 Participating students shall be entitled to any and all benefits generally provided to USask graduate students while registered, paying tuition fees and attending the USask. This includes, but is not limited to, access to libraries and recreational facilities, provincial health benefits, and supplementary health and dental benefits through the Graduate Students' Association. For financial aid and scholarship eligibility, see section 8.9 and 8.10.

8.5 It is the responsibility of the NITW students to pay all of their own living and accommodation expenses while in Canada. The International Student and Study Abroad Center at the USask will provide information and assistance to the students regarding accommodation, orientation to the campus, and other matters applicable to international students.

8.6 It is the responsibility of the USask students to pay all of their own living and accommodation expenses while attending NITW. NITW will provide information and assistance to the students regarding accommodation, orientation to the campus, and other matters applicable to international students.

8.7 All participating students are required to maintain insurance coverage, particularly health and accident insurance for the time spent abroad. All outbound USask participating students must comply with the Policy on International Travel Risk Management for Student Mobility including registering with the International Travel Registry (ITR).

8.8 All students while registered and paying tuition at USask, must be provided with the minimum level of funding in accordance with the policies of the academic unit. Each party is responsible for ensuring the appropriate financial aid for their own students.

The minimum funding for PhD students in the Chemical and Biological Engineering department is $20K per year for four (4) years.

8.9 Both NITW and USask students are eligible to apply for and receive scholarships, fellowships and assistantship supports offered by NITW and USask.

For current information on scholarships and awards from the Department of Chemical and Biological Engineering: https://grad.usask.ca/programs/chemical-engineering.php

For current information on scholarships and awards from the College of Graduate and Postdoctoral Studies: https://cgps.usask.ca/funding

For current information on scholarships and awards from NITW: https://scsp.iitr.ac.in/

8.10 Neither Party will incur any financial obligations resulting from the actions of the other Party without a prior agreement in writing to accept specific financial obligations. Any additional agreement pertaining to financial matters will be negotiated separately and will be based upon the availability of funds for each Party.

9. APPLICABLE LAW AND JURISDICTION

9.1 This agreement shall be interpreted in accordance with any applicable agreements between Canada and India as well as the law of the Province of Saskatchewan.

9.2 The Parties agree to submit to the law of their respective countries and generally agree upon standards of international practice for resolution of all disputes arising under this agreement.

9.3 Subject to applicable Canadian, provincial, and USask regulations governing student privacy rights, the Program Coordinator at the USask will keep the Program Coordinator at NITW informed of students' progress while students are attending the USask.

9.4 Subject to all Saskatchewan's applicable rules, regulations and graduation criteria, NITW students who successfully meet academic requirements will be eligible to receive a Ph.D. in Chemical/Biological Engineering from the USask. Subject to all of India's applicable rules, regulations and graduation criteria, USask students who successfully meet academic requirements will be eligible to receive a Ph.D. in Chemical Engineering from NITW.

9.5 The decision to award, or not award, the degree by one institution will not be held binding upon the partner institution.

9.6 The transcript from USask will state "Dual Degree Program in Chemical/Biological Engineering, in partnership with the National Institute of Technology Warangal (India)".

The parchment from USask will state "Doctor of Philosophy in Chemical/Biological Engineering from the University of Saskatchewan".

9.7 The degree parchment and/or transcript from NITW will state Doctor of Philosophy from "National Institute of Technology Warangal in collaboration with the University of Saskatchewan".

10. AGREEMENT TERMS

10.1 This agreement will take effect on May 01, 2025 and remain in effect until April 30, 2030.

10.2 This agreement may be terminated by either party with six months written notice. Should this agreement be terminated, students already admitted under the program will be able to continue their program of study until completion.

10.3 Any notice or change in connection with this Agreement shall be in writing by an authorized officer of the relevant Party and sent by registered post to the recipient party. Any addendum derived from this Agreement shall obey the same dates established herein.

10.4 Any notice or change related to a specific course shall be in writing to the Program Coordinator of the relevant Party sent by registered post to the recipient party.

10.5 The parties may, by mutual agreement, revise the terms of the agreement and any attachments, and negotiate changes during the term of its operation, with all changes being agreed to in writing.

10.6 This agreement is executed in duplicate in English. Each University will keep one of the duplicates.

11. INTELLECTUAL PROPERTY

NITW and USask agree to respect each other's rights to intellectual property. Further, the Intellectual Property Rights (IPRs) that arise as a result of any collaborative research or activity under this MoA will be worked out on a case-to-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

12. SIGNATURES

In witness hereof, the duly authorized representatives of each institution agree to the provisions of this Agreement.

On behalf of the University of Saskatchewan:

_____ _____

Dr. Airini Date

Provost and Vice President Academic

_____ _____

Julian Demkiw Date

University Secretary and Chief Governance Officer

On behalf of the Indian Institute of Technology – Roorkee:

_____ _____

Prof. S. Srinivasa Rao Date

Dean, International Relations

_____ _____

Prof. A. Sarath Babu Date

Dean, Academic Affairs

APPENDIX 1 – COURSE LISTING

DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING, UNIVERSITY OF SASKATCHEWAN

A) NON-CREDIT MANDATORY COURSES

CHE/CBE 990.0 - Seminar

- *ALL* graduate students are expected to attend all graduate student seminars. Each Ph.D. student will present three seminars during the course of their graduate program. Graduate students are required to register in the graduate Seminar Course, CHE/CBE 990. Two seminars are presented for this course.

The first seminar will be on a literature review directly related to the student's area of research, while the second seminar will consist of the research. The third seminar to be given is a requirement of the actual Ph.D. dissertation defence.

CHE/CBE 996.0 - Research – Dissertation

- Students writing a Ph.D. dissertation must register for this course.

GPS 960.0 - Introduction to Ethics and Integrity

- The GPS 960, Introduction to Ethics and Integrity Course, is a mandatory, on-line ethics course for ***ALL*** first- year graduate students and must be successfully completed in the ***FIRST*** term. The purpose of this course is to discuss ethical issues that graduate students face during their time at the University. All students will complete modules dealing with integrity and scholarships, graduate student-supervisor relationships, conflict of interest, conflict resolution and intellectual property and credit. The course will be included on the student's Program of Studies and on the student's academic record. This is an internet-based course and students register through Personalized Access to Web Services (PAWS). The Course Reference Number (CRN) is listed under the subject menu on the Course Offerings Search page as Graduate and Postdoctoral Studies. Deadlines to register are the same as for all other courses.

B) NON-CREDIT <u>OPTIONAL</u> COURSES

GPS 981.0 - Academic Preparation for International Graduate Students

- This course prepares international graduate students for the Canadian academic environment. Students will learn techniques for improving listening and note-taking skills; managing their reading loads; sharpening critical thinking; and conducting and managing research. Students will also learn about the role of supervisors, professors, and graduate chairs, and will gain practical instruction in academic integrity. Students will receive intensive academic writing instruction via lecture, assignments, detailed feedback, and one-to-one support.

GPS 984.0 - Thinking Critically: Professional Skills for Global Citizens

- Designed for graduate students to think globally and enhance their critical thinking skills through multidisciplinary activities and discussions. This course explores how factors such as culture or personality influence the ways we think, interact with, and relate to the world.

GPS 989.0 - Introduction to University Teaching

- Designed for graduate students preparing to teach. Students are introduced to instructional approaches that may be applied beyond the university classroom.

Course information may be found here: https://catalogue.usask.ca/?subj_code=GPS&cnum=.

C) FOR-CREDIT <u>ELECTIVE</u> COURSES

Twelve (12) credit units (four courses at the 800 level) must be selected from the following:

Chemical Engineering (CHE)

CHE 811.3: Principles and Applications of Heterogeneous Catalysis

CHE 861.3: Fundamental Biochemical Engineering

CHE 869.3: Advanced Mineral Processing

CHE 875.3: Reaction Kinetics and Reactor Design

CHE 881.3: Process Engineering

CHE 882.3: Design of Industrial Waste Treatment Systems

CHE 886.3: Transport Phenomena for Chemical Engineers

CHE 888.3: Chemicals and Energy from Renewable Resources

CHE 889.3: Catalysis and Environmental Studies with Synchrotron Radiation

CHE 898.3: Special Topics

Course information may be found here: https://catalogue.usask.ca/?subj_code=CHE&cnum=8%25

Biological Engineering (BLE)

BLE 811.3: Modeling of Food and Bioprocesses

BLE 840.3: Building Science

BLE 850.3: Post Harvest Technology

BLE 855.3: Biomaterial Processing and Analytical Methods

BLE 898.3: Special Topics

Course information may be found here: https://catalogue.usask.ca/?subj_code=BLE&cnum=8%25

APPENDIX 2 – COURSE LISTING

DEPARTMENT OF CHEMICAL ENGINEERING,

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

A) NON-CREDIT COMPULSORY COURSES

No requirement.

B) NON-CREDIT OPTIONAL COURSES

No requirement.

C) FOR-CREDIT COMPULSORY COURSES

- The minimum course credit requirement for candidates getting admitted with different qualifications is as follows.

Minimum Qualification	Credit
M.E. / M.Tech. / M.Phil. / M.S. / M.Sc. (Tech.) of 3 years	12
M.Sc. / M.A. / MBA / M.Sc. (Tech.)/M.Pharm of 2 years	15
B.E./ B.Tech	18

- If the Doctoral Scrutiny Committee (DSC) recommends more courses of study, then the candidate has to do those courses as per the directions of the DSC.

- Ph.D. scholars shall necessarily do at least one course from the institute level courses and other required courses from the department level courses, as suggested by the DSC. All the courses shall be of 3 credits only.
  - **Institute Level courses:** AI & ML, Applied Mathematical Methods, Data Mining, Deep Learning for Image Processing, Design and Analysis of Experiments, English for Scientific Communication, Experimental Techniques, Intellectual Property Rights, Linear Systems Theory, Materials Characterization for Research, Modelling and Simulation, Polymer Chemistry for Technologists, Research Writing and Professional Ethics, Research Methodology, Scientific Communication, Soft Computing Techniques, Sustainability Engineering or any other course approved by the Senate.

  - **Department Level courses:** few common courses must be designed by the department at higher level for all the scholars.

- If recommended by the DSC, student can also do a course under Self Study / MOOCs.
- The candidates can also enroll for any appropriate PG course (provided he/ she has not undergone that course during his/her PG program).
- Research Scholars may enroll for the Department level courses on self- study mode. For self-study courses, the DSC will allot a teacher to evaluate the candidate in the course.
- It is advisable that the supervisor(s) of the candidate are not allotted as teacher for self-study courses for more than one course.
- The syllabi for all the courses to be offered to a Ph.D. scholar must be approved by the DSC.

MEMORANDUM OF AGREEMENT
between

ASIAN INSTITUTE OF TECHNOLOGY (AIT), THAILAND

and

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL (NITW), INDIA

for

DOUBLE MASTERS DEGREE PROGRAM (DMDP)

This Memorandum of Agreement (MoA) is drawn up and agreed upon between the Asian Institute of Technology (hereinafter referred to as AIT), and the National Institute of Technology Warangal (referred to as NITW) to implement the double degree master's program based upon the general Memorandum of Understanding for Academic Cooperation between AIT and NITW (the current MoA should be read in conjunction with the General Memorandum of Understanding).

The Asian Institute of Technology (AIT) is an international institute of higher learning. It is Asia's pioneer institution established in 1959 to help meet the region's growing needs for advanced learning in engineering, science, technology and management, research, and capacity building. AIT's mission is to develop highly qualified and committed professionals who will play a leading role in the sustainable development of the region and its integration into the global economy.

The **National Institute of Technology Warangal (NITW)**, a Centrally Funded Technical Institute (CFTI) located in Warangal, India is an Institute of National Importance under the Ministry of Human Resource Development (MHRD) of the Government of India. This was the first in the chain of 31 NITs (formerly known as RECs) established in 1959 in the country. The institute has been renamed as the National Institute of Technology Warangal in 2002. The Institute is well known for its dedicated faculty, staff and the state-of-the art infrastructure conducive to a healthy academic environment. The Institute is constantly striving to achieve higher levels of technical excellence, with internationally acceptable curriculum and focusing on the wholesome development of the students.

OBJECTIVES

AIT and NITW conclude this Agreement to offer Double Master Degree Program (DMDP) in several specializations by the two institutions

1. Definitions:

To this MoA, the following terms have meanings as defined below:

(1) "Program" means the Double Master Degree Program (DMDP) implemented based on this MoA.
(2) "Students" means those who are admitted in the program.
(3) The 'Program' is allowed to add new specializations or programs to the Double Master's Degree Program by mutual consent of the two institutes with the same guidelines.

2. Type of Degree:

This program can provide a Master of Science or Master of Engineering from AIT and a Master of Technology from NITW. Programs offered can be subject to amendment and/or modification by mutual consent in writing. The tentative specializations that will be available are Listed in Appendix 1. The curriculum structure and course mapping of these programs will be decided jointly by the two institutions

3. Number of Students Admitted to the Program:

A maximum of 20 students per specialization can be admitted to this program in an academic year.

4. Selection and Admissions Procedures:

Admissions:

1. Applications for the AIT-NITW Double Masters programme can be sought by AIT or NITW as per their corresponding admission calendar. Candidates admitted to the programme should meet the minimum eligibility criteria for admission to Master's Degree programmes at AIT and Master of Technology (MTech) programmes at NITW. The Institute which admits the student is hereafter referred to as the 'Admitting Institute' and the minimum eligibility criteria for both the Institutions is as given below.
2. For every selected student, two supervisors (one from each Institute) will be identified.

Minimum Eligibility Criteria for NITW:

Candidates seeking admission into M.Tech. in Engineering (including Self-finance) should have passed BE/B.Tech or equivalent degree in the subject concerned from a recognized University/Institute with not less than 60% marks aggregate or equivalent CGPA of 6.5 on a ten point scale for GEN/ GENEWS/OBCNCL. In case of SC/ST/PWD candidates 55% marks aggregate or equivalent CGPA of 6.0 on a ten point scale is the eligibility requirement.

Minimum Eligibility Criteria for AIT:

Students found suitable for the AIT- NITW Double Masters programme by AIT will be admitted to MTech programmes at NITW without any further admission processes. The same shall be applicable for students admitted by NITW to the programme. Each student will be assigned a faculty advisor at AIT and at NITW, who will guide the students on their academic plan for the programme.

Joining and Residency Plan:

Students can join AIT or NITW to start their programme. Students starting the programme at AIT will spend their two semesters at AIT and two semesters at NITW. Similarly, students starting the programme at NITW will spend two semesters at NITW and two semesters at AIT

5. Status of Students:
Students will be granted status as a regular student at each institution.

6. Duration of the Program:
The duration of total study period of the program is typically two (2) academic years, which enables the students to obtain master's degrees within the normal term of study for degree completion in each institution. Extension, if any, may be provided as per the norms of both the institutes upon mutual understanding.

7. Education Plan:
(1) Each student shall determine the study plan in consultation with supervisors assigned by each institution.
(2) Students will complete 2 semesters of coursework at AIT and then they will move for one semester of course work and one semester of research project in NITW. Some students with grade over 3.0 in AIT system can opt for two semesters of thesis also.
(3) In any research publication coming out from the work of the students in this program, the affiliation of both institutions (NITW and AIT) should be mentioned.

8. Curriculum Structure and Recognition of Credits:
a. Obtained credits at either of institutions will be recognized and credits will be transferred by award of Double Degree by Both Institutes.
b. Double Degrees upon completion of all requirements including financial and complying to no-dues will be issued.
c. Both institutes will appoint a Coordinator for this program for smooth coordination and arranging one meeting per semester.

9. Services to be provided to incoming students: The host Institute will provide incoming students with:
a. Access to Institution facilities as fulltime student, including accommodation, library, hostel, placement and sport.
b. An orientation/welcome program introducing students to the Institution system.
c. Information on health insurance requirements and the extent of the medical cover.
d. Academic and other advisory services should be provided during both phases of the study.
e. Assistance in securing housing where possible in the residence halls or appropriate off-campus alternatives.
f. Institutional support necessary for obtaining a visa should be provided

10. Judgement and Award of Master's Degree:

(1) Students shall submit master's theses to AIT and NITW separately. A common defense of the thesis submitted to each institution may be organized online/onsite. Interim defense will be conducted where necessary.
(2) NITW and AIT will ensure that the performance evaluation of students enrolled is being shared routinely. The events of unsatisfactory performance would be handled on a case-by-case basis.
(3) Students who have fulfilled the academic requirements for degree completion at each institution will be awarded master's degrees from AIT and NITW, respectively. Students can attend convocation/ graduation ceremony at both the places.
(4) If a student is being terminated by the either of the institute under a scenario, his/her enrollment in the academic program would also be annulled.

11. Financial Arrangements:

(1) Entrance fees and tuition fees are required to be paid by the students to both institutions as mentioned in Table 5
(2) Students have to bear all their expenses towards travel, accommodation, liability insurance required by the host institution, other necessary insurance, and health care fees during their stay at the host institution unless financial support by institution is available.

12. Duration, Termination and Amendment of the Agreement:

(1) This MoA will be effective from the last date of signing by both institutions up to a period of five (5) years and may be extended by mutual consent of both institutions in writing.
(2) Either institution may terminate this MoA by giving at least six (6) months advance notice in writing to the other institution. However, the existing students would be allowed to complete their program under the agreed-upon terms.
(3) The provisions of this MoA may be amended at any time with the mutual consent of both institutions in writing.
(4) The amendment, termination and expiration of this MoA will not affect the terms of activities ongoing at the time of notification of amendment, termination and expiration unless otherwise agreed upon between both institutions.

13. Special Provisions:

(1) Host institution does not bear any responsibility for unexpected accidents which arise in the event unrelated to research and educational activities.
(2) Both institutions will consult with each other and attempt to resolve disputes or misunderstandings that arise in this MoA.

14. Authentic Text:

This Agreement is to be executed in the English language and has two copies, one for each institute.

15. Contact Person:

AIT

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This Agreement is executed in the English Language in two original copies. Each party holds one original copy duly signed by the President of AIT and the Director of NITW.

Signed for and on behalf of:

Asian Institute of Technology
Thailand

_____

Prof. Pai-Chi Li
President

Date: _____

Witness:

_____

Prof. Nitin K Tripathi
Executive Director
Special Degree Programs

Date: _____

National Institute of Technology Warangal
India

_____

Prof. Bidyadhar Subudhi
Director

Date: _____

Witness:

_____

Prof. A. Sarath Babu
Dean Academic Affairs

Date: _____

Appendices

Appendix 1: Programs Offered

Table 1: Programs Offered

Masters Programs at AIT	Masters Programs at NITW
• Remote Sensing and Geographic Information Systems	• Geoinformatics

- *Programs offered can be subject to amendment and/or modification by mutual consent in writing.*
- *Detailed syllabus will be shared by both parties upon request.*

Appendix 2: Admission Requirements

2.1 AIT admission requirements:

- Students entering the program must have a Bachelor degree or equivalent from a reputable university and a good academic record. Applicants with borderline academic records should provide additional evidence of compensating factors such as work experience.
- The AIT English requirement is IELTS 6.0. Some students with lower English scores are admitted conditional on attendance of an intensive English Bridging Program with the AIT Language Center and additional English instruction during the first year.
- To be eligible to transfer to National Institute of Technology Warangal of their second year, AIT students should obtain the minimum CGPA of 2.75 in their coursework and test for English proficiency at the level of IELTS 6.0.
- AIT and NITW will jointly promote the Double degree program in Asia. Interested students should first gain admission to AIT. Students who are admitted to AIT and interested in the Double degree may apply any time up to the application deadline, which will be announced early in the August semester of students' first year at AIT. Applications will be gathered by AIT and submitted to NITW. A selection committee with representatives of both AIT and National Institute of Technology Warangal will rank the candidates and offer admission to the most qualified. Selection will be conditional on eventually meeting the requirements for transfer to NITW mentioned above.

2.2 NITW Admission requirements:

- To be eligible to transfer to National Institute of Technology Warangal in mid-July of their second year, AIT students should obtain the minimum CGPA of 2.75 in their coursework and test for English proficiency at the level of IELTS 6.0.
- A bachelor's degree, or the equivalent, from an accredited/government recognized college or university. Most such degrees will be four or more years in length; NITW recognizes some three-year degrees, but not all.
- A B-grade (CGPA of 6.5) or higher from bachelor's degree (or equivalent) courses. Grade point averages from non-U.S. universities will be evaluated by NITW's Office of International Admissions.
- Appropriate standardized test scores (GRE, GMAT, LSAT, etc.). Not all programs require test scores. See the official academic test scores section below for more information.
- Letters of recommendation from AIT
- Masters Transcripts from AIT.

2.3 English Requirements prior to joining AIT for Master's Program at AIT:

Table 2: Table of Equivalency in English Proficiency Tests

IELTS	AIT-EET	TOEFL ITP	TOEFL Paper (Writing Band)	TOEFL CBT (Writing band)	TOEFL IBT (Writing Band)
4.5	4.5	543	475 (49-51)	152 (17-19)	50 (12-13)
5	5	543	500 (52-55)	173 (20-22)	60 (14-17)
5.5	5.5	543	525 (56-58)	196 (23-24)	70 (18-20)
6	6	543	550 (59-61)	213 (25-26)	80 (21-23)

- *The AIT English Entry Test (AIT-EET) will be conducted by AIT Language Center online or on-campus. The test fee of THB800 will be borne / paid by students. This fee rate (THB800) is only applicable to students within the Unified Program.*
- *AIT Entrance/Exit English requirement is 6.0. Conditional offers will be given to those with 5.0 and 5.5 on the condition that students attend and successfully complete compulsory English classes before enrolling for thesis credits.*
- *Only IELTS and TOEFL scores that are not older than 2 years prior to joining AIT are acceptable.*
- AIT will provide support to prepare students for GRE as required by NITW.

2.4 English Requirements prior to joining AIT for Master's Program at NITW:

In addition to meeting the standard academic criteria for the program to which candidates apply, international applicants must also demonstrate English proficiency. All international students must take one of the tests indicated (Table 2) and meet the university minimum score requirement.

Appendix 3: Structure & Curriculum

3.1 Structure

Students in the program will follow this schedule for the two years:

** The credit requirements of AIT and NITW is 48 and 66-70 respectively. In purview of these requirements, a total of 68 credit requirement is proposed for this AIT-NITW DMDP that would be divided to each institute according to their own credit system. The credit points earned from one institute would be transferred to the other to fulfill the criteria of total credit requirements.

** The credit requirements are as per the present guidelines which may be revised from time to time*

Table 3: Students Starting their Programme at NITW in the Thesis Track

Semester	Venue	Credits (NITW)		Credits (AIT)	
		Earned	Transferred	Earned	Transferred
1	NITW	**19**			13.5=**14**

2	NITW	**21**			**15**
intersem	AIT/NITW	**2**			**1**
3	NITW		**14**	**10**	
4	NITW		**12**	8.5=**8**	
TOTAL		**68 credits**		**48 credits**	

Table 4: Students Starting their Programme at AIT in the Thesis Track

Semester	**Venue**	**Credits (AIT)**		**Credits (NITW)**	
		Earned	**Transferred**	**Earned**	**Transferred**
1	AIT	**12**			16.8=**17**
2	AIT	**12**			16.8=**17**
Intersem	AIT/NITW	**2**			2.8=3
3	AIT		**10**	**14**	
4	AIT		**12**	16.8=**17**	
TOTAL		**48 credits**		**68 credits**	

3.2 Curriculum

(a) For the students getting admission in NITW

I Semester

S.No.	Course Code	Course Title	Credits
1	CE46001	Principles of Remote Sensing	3
2	CE46003	Geographical Information Systems	3
3	CE46005	Programming Methods for Geospatial Systems	3
4		Professional Elective – I	3
5		Professional Elective – II	3
6	CE46007	Remote Sensing and Image Processing Laboratory	2
7	CE46009	Geographical Information Systems Laboratory	2
Total Credit			19

II Semester

S. No.	Course Code	Course Title	Credits
1	CE46002	Global Navigation Satellite System	3
2	CE46004	Geospatial Data Processing and Modeling	3
3		Professional Elective – III	3
4		Professional Elective – IV	3

5		Professional Elective – V	3
6	CE46006	GNSS and Photogrammetry Laboratory	2
7	CE46008	Geospatial Data Processing and Modeling Laboratory	2
8	CE46096	Minor Project	2
		Total	21

III & IV Semesters at AIT

(b) For the students getting admission in AIT

I & II Semesters at AIT and III & IV at NITW

Research Track

III Semester

S.No.	Course Code	Course Title	Credits
1	CE46022	Photogrammetry	3
2	CE46026	Thermal, Microwave and Hyperspectral Remote Sensing	3
3	CE46032	Web and Mobile GIS	3
4	CE46024	Geospatial Applications for Earth Sciences	3
5	CE46089	Seminar and Technical Writing	2
Total Credit			14

*In lieu of some of the above electives, students can be allowed to choose electives from other programs of the department and institute based on the suggestions of the program coordinator if necessary.

IV Semester

S. No.	Course Code	Course Title	Credits
1	CE46098	Major Project Work	17
Total Credit			17

Thesis Track

III Semester

S. No.	Course Code	Course Title	Credits
1	CE46089	Seminar and Technical Writing	2
2	CE46093	Comprehensive Viva-Voce	2

3	CE46097	Major Project Part – A	10
Total Credits			14

IV Semester

S. No.	Course Code	Course Title	Credits
1	CE4698	Major Project Part - B	17
Total Credits			17

3.3 Thesis and Thesis Defense:

Students on the thesis track are required to submit a thesis to AIT and NITW in addition to completing the credit requirements. The thesis can be supervised by two faculty members from both NITW. The supervisors will form a panel to evaluate the thesis and conduct a thesis defense. One thesis defense seminar will be sufficient for completing the requirement of thesis defense at both the Institutes. A successful thesis defense will be mandatory for award of degree.

3.4 Exit Option:

Students in the AIT-NITW Dual Masters programme with NITW as the admitting Institute may exit the programme and opt for change of programme to the Postgraduate Diploma of the Institute (PGDNIT). The credits required to be completed for the award of PGDNIT will be 40 credits (NITW), which includes credit earned at NITW and credit transferred to NITW by AIT.

3.6 Award of Degrees:

On successful completion of requirements of the programme, students will be awarded a Master of Technology (MTech) degree by NITW and Master's degree (Master of Engineering or Master of Science) by AIT

Appendix 4: Fee Structure

4.1 AIT Payment Schedule:

Payment is made separately to AIT and National Institute of Technology Warangal according to each partner's schedule.

Table 5: Payment Schedule

Semesters	**Double Master's Degree Fee**	
	AIT Fee (Baht)	NITW Fee (Rs)
1	90,000	60,000
2	90,000	60,000
3	90,000	60,000

4	90,000	60,000
TOTAL	**360,000**	**2,40,000**

4.2 FEE & Scholarships:

With built-in scholarship from each institution

AIT Fee is THB 360,000 / around $10,000 (Normal Fee is THB 848,000 / around $27,000) additional scholarship is also available

Tuition Fees @ NITW is INR 240,000 / around $2,780

Fees: Students will pay fees directly to AIT or NITW as per the mutually agreed plan between the two Institutes.

4.3 NITW Study Costs:

- National Institute of Technology Warangal fees for the 2025-2026 academic year is Rs. 2,40,000. Fees are subject to a yearly increase. All students joining the NITW masters through AIT will receive a 10% discount on tuition fees.

Table 6: Other Fees and Expenses

Other Study Costs for Master's Program @ AIT	**Fees (in THB)**	**Fees (in THB) for 2 semesters at AIT**
Language Support Fee (One time)	2,000	2,000
Medical Insurance Fee	2,500 per year	2,500
Student Union Fee	150 per semester	300
Living/Accommodation/ Miscellaneous Expenses*	@Baht 11,500-15,000 per Month	115,000 - 150,000
Visa fee @Baht 1,900 per Year	1,900 per year	1,900
Tentative Total Expenses Other than Tuition Fees		**121,700 - 156,700**

Other Study Costs for Master's Program @ NITW	Fees (in Rupees) for 1 Semester	Fees (in Rupees) for 2 semesters at NITW
Admission Fees (One time)	10,000	20,000
Academic Facilities and Services	10,250	20,500
Living/Accommodation/ Miscellaneous Expenses	55,000	1,10,000
Medical Insurance & Medical Fund	1000	2,000
Tentative Total Expenses Other than Tuition Fees		**1,52,500**

Annexure -3
Exit Policy

20th March 2025

Recommendations of the NEP Committee on EXIT policy to be adopted in the Institute:

Based on the deliberations and sharing of experiences in various NITs during the workshop held at NITW recently, the NEP committee recommends the following guidelines to implement Exit Policy in the Institute:

1.For any EXIT certificate, the name of the Original Program should not be changed. For eg.M.Tech(SEG) will get PG Diploma in SEG
2. EXIT policy for PG programs is proposed as follows.

a). For 2 year PG program in Engineering , PG diploma can be given after successful completion of 1st year.
b). For 3 year programs in Science and MCA, PG diploma can be given after completion of 2 years.
c) For 3 year PG programs in Science and MCA, Foundation certificate in the respective discipline can be given at the end of the first year, if students intends to exit. For eg. A student of MCA opting exit at the end of first year, can be awarded Foundation Certificate in Master of Computer Applications.
c) For Integrated PG Engg programs(4+1), at the end of UG (4 years), B.Tech certificate can be given if students intends to exit.
d) For Integrated PG Science Programs(3+2), at the end of UG (3 years) B.Sc Degree and at the end of 4 years B.Sc(Honours) can be given.

3) For 4 year Engineering UG programs:

a) No option for exit after 1st year
b) Foundation Certificate after 2nd Year
c) Diploma after 3rd Year

4) PhD programs
Offering MS by Research to those who could not complete PhD after fulfilling specified criterion like minimum 2years with at least one publication and completion of CVV

Caution: The EXIT certificates are to be opted, only when the student is compelled to leave the Program for various personal reasons.

Prof K Srikanth Prof T P Tezeswi Prof Vijay Kumar Prof DVSS Siva Sarma