

National Institute of Technology, Arunachal Pradesh Yupia, Arunachal Pradesh – 791112



Minutes of the 22nd Senate Meeting of NIT, Arunachal Pradesh held on 10/01/2020 at 02:30 pm at NIT-Arunachal Pradesh, Yupia, Papumpare

Following Members were present:-

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| 1. Prof. (Dr.) Pinakeswar Mahanta, Director, NIT Arunachal Pradesh | - Chairman |
| 2. Prof. Jumyir Basar, Associate Professor, RGU, AP | - Member |
| 3. Prof. S. N. Shome, Professor, ME, NIT AP | - Member |
| 4. Prof. Isha T.B., Professor, EE, NIT AP | - Member |
| 5. Dr. Uday Kumar Khanikar, Registrar NIT, Arunachal Pradesh | -Member Secretary |
| 6. Dr. M. Mallik, Associate Professor/CE, NIT, Arunachal Pradesh | - Invitee |
| 7. Dr. Rajen Pudur, DIC(A&E), NIT, Arunachal Pradesh | - Invitee |
| 8. Prof. M.K. Shome, Professor, NIT Arunachal Pradesh | - Invitee |
| 9. Prof. R.P. Sharma, Asso. Professor, NIT, Arunachal Pradesh | - Invitee |
| 10. Dr. J. Taipodia, HoD CE, NIT, Arunachal Pradesh | - Invitee |
| 11. Dr. K. Mondal, HoD/CHE, NIT, Arunachal Pradesh | - Invitee |
| 12. Dr. Anup Paul, HoD/ME, NIT, Arunachal Pradesh | - Invitee |
| 13. Dr. S. Maity, HoD/BAS, NIT, Arunachal Pradesh | - Invitee |
| 14. Dr. Saikat Jana, HoD I/C/BT, NIT, Arunachal Pradesh | - Invitee |
| 15. Dr. A. Banerjee, HoD/EE, NIT, Arunachal Pradesh | - Invitee |
| 16. Dr. K. Sambyo, HoD/CSE, NIT, Arunachal Pradesh | - Invitee |
| 17. Dr. Yaka Bullo, HoD/ECE, NIT, Arunachal Pradesh | - Invitee |

Member not present:

1. Prof. V. S. Moholkar, Professor, IIT Guwahati Member, could not attend the meeting due to pre-occupations.

Member on video conference:

2. Prof. Ayon Bhattacharjee, Professor, NIT Meghalaya.

O/o the Director
NIT, Arunachal Pradesh

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Agenda Item: 22.01	<u>Confirmation of the Minutes of 21st Meeting of the Senate held on 11/11/2019 and Action Taken Report.</u>
	<p>Minutes of 21st Senate Meeting of NIT, Arunachal Pradesh drafted and signed by members. As such, Minutes of 21st Senate was approved & Action Taken Report.</p>
	<p>Decision: Noted & Approved.</p>
Agenda Item: 22.02	<u>Ratification of the results of end semester examination, July-Dec, 2019</u>
	<p>The summary of the end semester examination results (July-Dec, 2019).</p>
	<p>Decision: Noted & Approved.</p>
Agenda Item: 22.03	<u>Seeking approval for credit transfer for SWAYAM MOOC portal courses in 7th and 8th semester elective subject for undergraduate course.</u>
	<p>As for Ministry order, vide no. F.No. 17-03/2019-TEL, dated 08.11.2019 for transfer of credits for courses offered through SWAYAM MOOC portal and to promote credit transfer in the regular curriculum the following few guidelines has been designed and the same was circulated among faculties for suggestions and corrections, before it is placed for Senate meeting.</p>
	<p>Decision: Approved, and senate advice all department to have immediate Departmental Online Course Selection Committee (DOCSC) meeting and place for approval.</p>
Agenda Item: 22.04	<u>Ratification of the minutes of the disciplinary committee meeting held on 02.12.19 at 11:00 am at Language Lab, NIT Arunachal Pradesh</u>
	<p>Malpractices by students during end semester examination (July-Dec) 2019, had been observed, accordingly disciplinary action committee was formed and action was taken.</p>
	<p>Decision: Noted & Approved.</p>
Agenda Item: 22.05	<u>Seeking approval for credit transfer from NPTEL courses for PhD program.</u>
	<p>To lower the academic burden on limited number of faculty and to allow Ph.D. scholar to be taught by experienced and eminent professors from other institute like IITs one such application is received from faculty member requesting for allowing Ph.D. scholars to opt subjects for course-works from NPTEL portal and hence credits will be transfer in their grade card.</p>
	<p>Decision: Noted & Approved.</p>
Agenda Item: 22.06	<u>Reporting of degree awardees to the B. Tech. & MS, students in the 6th Convocation</u>

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Since 6th convocation is postponed due to unavoidable circumstances, and few UG and PG students cleared their backlogged subjects, it is proposed to award them their degree during 6th convocation, they are:

Department of Civil Engineering (CE)

Sl.	Name	Roll No.	Registration No.
1	TECHI TADE TARA	CE/14/01	0000000401/A/CE/2014
2	BISWAJIT DAS	CE/14/03	0000000403/A/CE/2014
3	JOYDEB DAS	CE/14/04	0000000404/A/CE/2014

Decision: Noted & Approved.

Agenda Item: 22.07

Seeking approval for allowing students of 2nd and 3rd year students of Chemical Engineering department to register SWAYAM MOOC courses in parallel with regular academic courses.

Since Chemical department has only one faculty and few guest faculties, an application is received from HoD(CHE) requesting for permission to allow students to register for SWAYAM MOOCs courses but mid semester, quiz, assignments and end semester examination will be taken by Chemical faculties of NIT AP.

Decision: Noted & Approved.

Agenda Item: 22.08

Seeking approval for introducing one elective subject in 6th semester for Chemical engineering department.

Application was received from HoD (CHE) for introducing new elective for department in addition to existing elective subjects. The structure of the same is as given below:

Name of the Module: **Power Plant Engineering**

Module Code: **CHE - 607 D, Elective - II**

Semester: 6th

Credit Value: 3 [L = 3, T = 0, P = 0]

A. Objectives:

The course is design to meet with the following objectives:

1. Analysis and preliminary design of the major systems of conventional fossil-fuel steam-cycle power plants.
2. A working knowledge of the basic design principles of nuclear, gas turbine, combined cycle, hydro, wind, geothermal, solar, and alternate power plants.
3. Awareness of the economic, environmental, and regulatory issues related to power generation.

B. Course Outcome:

Upon completion of the course, students will be able to:

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1. Understand the energy resources and energy conversion methods
2. Determine the efficiency and output of a Rankine cycle, Brayton cycle etc.
3. Calculate the performance of steam and gas turbines with reheat and regeneration, and discuss the performance of combined cycle power plants.
4. Analyze the design of the major components of a conventional or alternate power plant.

C. Course Matter:

Power Plant in General: Introduction to different power plants, Load duration curves, Location of power Plants, Power plant economics and Indian energy scenario.

Steam Power Plant: Introduction, Rankine cycle, Carnot cycle, Reheating of steam, Regeneration, Steam power plant appraisal, Deaeration, Typical layout of steam power plant, Efficiencies in steam Power plant, Co generation of power and process heat, combined cycle power generation, Different types of fuel used for steam Generation, Draught system, Classification of boilers, Boiler accessories, Classification of steam turbines and their working, fluidized bed. Gas Turbine Power Plant: Introduction, Classification of different gas turbine power plants, Reheat and regeneration cycle, Analysis of closed cycle and open cycle constant pressure gas turbine plant, components of gas turbine plants.

Hydro-Electric Power Plant: Introduction, Classification of hydro-electric power plant, Site selection, Elements of hydro-electric power plant, Advantages of hydro-electric power plant, Classification of hydraulic turbines and its selection, Hydrographs, Flow duration curves.

Nuclear Power Plant: Introduction to nuclear engineering, Types of nuclear reactors, Pressurized water reactor, Boiling water reactor, CANDU reactor, Gas-cooled reactor, Liquid metal fast breeder reactor, India's nuclear power programme.

Non-Conventional Power plants: Prospect of renewable energy source, Types of non-conventional power plants, solar plants, Wind power plants, Bio-mass plants, Geo-thermal power plant, Tidal power plant, Fuel Cell, Thermoelectric generator

D. Books:

1. P. K. Nag, "Power Plant Engineering", TMGH.
2. S. C. Arora & S. Dom Kundwar, "A Course in Power Plant Engineering".
3. M. M. Elwakil, "Power Plant technology", MGH.
4. R. K. Rajput, "Power Plant Engineering", Laxmi
5. Black and Veatch, "Power Plant Engineering", MGH
6. F. T. Morse, "Power Plant Engineering".

Decision: Approved in principle, and Senate advise the following few points:-

1. In the proposed syllabus "learning Outcomes" is too lengthy, it should be confined to actual learning outcome co-related with course content.
2. Diesel Electric Power Plant is to be removed, and Fuel cell should be added.
3. Theory portion should be teach by faculty of Mechanical department.

HoD (CHE) may place the modified syllabus to Chairman Senate for approval.

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Agenda Item: 22.09	<u>Seeking approval for allocation of PhD subject from existing postgraduate courses.</u> Since the number of Ph.D. scholars in NIT Arunachal Pradesh is increasing semester by semester, it is proposed to allocate postgraduate courses to Ph.D. course-works without changing the existing course code and course content. Decision: Noted & Approved.
Agenda Item: 22.10	<u>Miscellaneous items:</u>
Agenda Item: 22.10.1	<u>Seeking approval for SWAYAM courses for interested students</u> It is propose to allow any interested students to register for online SWAYAM MOOC courses in any semester, their registration fee and examination fee will be borne by institute, but their credits will not be transfer to regular academic curriculum. Decision: Noted & Approved, and Senate would also like to advice any interested faculty to register for SWAYAM MOOC course, their registration and examination fee will also be borne by institute and points will be credited for promotion.
Agenda Item: 22.10.2	<u>Seeking approval for allowing backlogged students to re-appear for Mid-Semester and End-Semester</u> Many backlogged students whose marks obtained on mid semester is very poor, have requested through HoD to allow them to re-appear for mid-semester examination to improve their CGPA. Decision: All backlogged students are allowed to register for summer course.
Agenda Item: 22.10.3	<u>Seeking approval for allowing Ph.D scholars to have multiple author in their research paper.</u> Request is received from HoDs to consider multiple authorship in their Ph.D. research paper, because in may research works external institute contributions in terms of laboratory facilities are to be credited in paper published. Decision: Approved, and it is not mandatory to have PS as first author, however, the PS should also submit "interest of conflict" from other authors.

Meeting was ended with vote of thanks from Chairman

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