Implementation of CBCS / ECS

Minutes of Meetings (MoM) of Board of Studies (BoS)

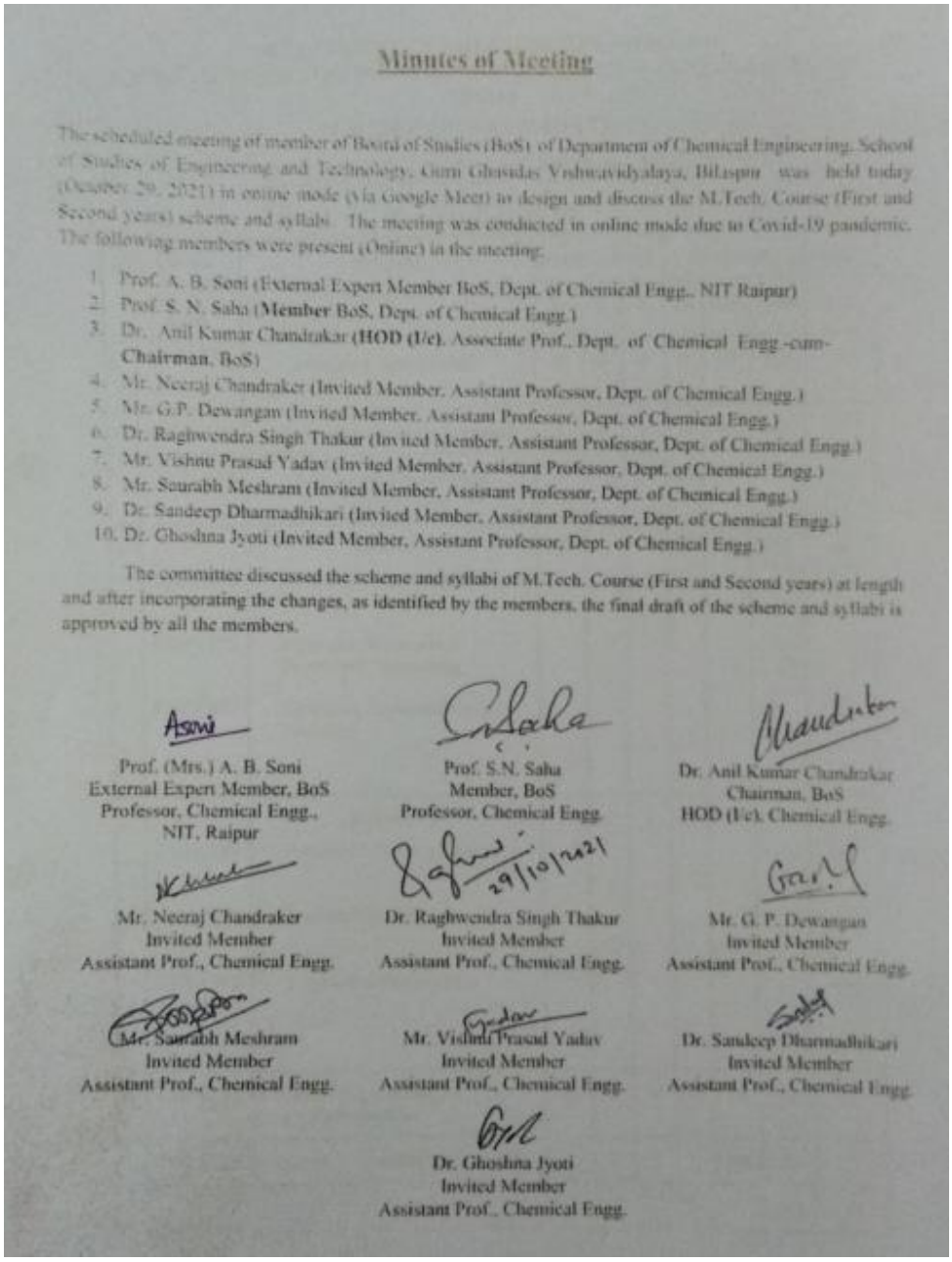
Academic Year : 2021-22

School : *School of Studies of Engineering and Technology*

Department : *Chemical Engineering*

Date and Time : *October 29, 2021 – 11:00 AM*

Venue : *Online*



Minutes of Meeting

The scheduled meeting of member of Board of Studies (BoS) of Department of Chemical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur was held today (October 29, 2021) in online mode (via Google Meet) to design and discuss the M.Tech. Course (First and Second years) scheme and syllabi. The meeting was conducted in online mode due to Covid-19 pandemic. The following members were present (Online) in the meeting:

1. Prof. A. B. Soni (External Expert Member BoS, Dept. of Chemical Engg., NIT Raipur)
2. Prof. S. N. Saha (**Member** BoS, Dept. of Chemical Engg.)
3. Dr. Anil Kumar Chandrakar (**HOD (I/c)**, Associate Prof., Dept. of Chemical Engg.-cum-**Chairman**, BoS)
4. Mr. Neeraj Chandraker (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
5. Mr. G.P. Dewangan (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
6. Dr. Raghwendra Singh Thakur (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
7. Mr. Vishnu Prasad Yadav (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
8. Mr. Saurabh Meshram (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
9. Dr. Sandeep Dharmadhikari (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
10. Dr. Ghoshna Jyoti (Invited Member, Assistant Professor, Dept. of Chemical Engg.)

The committee discussed the scheme and syllabi of M.Tech. Course (First and Second years) at length and after incorporating the changes, as identified by the members, the final draft of the scheme and syllabi is approved by all the members.

Prof. (Mrs.) A. B. Soni
External Expert Member, BoS
Professor, Chemical Engg.,
NIT, Raipur

Prof. S.N. Saha
Member, BoS
Professor, Chemical Engg.

Dr. Anil Kumar Chandrakar
Chairman, BoS
HOD (I/c), Chemical Engg.

29/10/2021

Mr. Neeraj Chandraker
Invited Member
Assistant Prof., Chemical Engg.

Dr. Raghwendra Singh Thakur
Invited Member
Assistant Prof., Chemical Engg.

Mr. G. P. Dewangan
Invited Member
Assistant Prof., Chemical Engg.

Mr. Saurabh Meshram
Invited Member
Assistant Prof., Chemical Engg.

Mr. Vishnu Prasad Yadav
Invited Member
Assistant Prof., Chemical Engg.

Dr. Sandeep Dharmadhikari
Invited Member
Assistant Prof., Chemical Engg.

Dr. Ghoshna Jyoti
Invited Member
Assistant Prof., Chemical Engg.

The following courses were revised in M. Tech.:

- Advanced Fluidization Engineering (CHPATT3)
- Advanced Chemical Process Modeling (CHPATP3)
- Advanced Process Control (CHPATP4)
- Process Intensification (CHPATP5)
- Industrial Process Control (CHPBTP5)

The following new courses were introduced in M. Tech.:

- Advanced Separation Processes (CHPATT2)
- Bioprocess Engineering (CHPATP6)
- Research Methodology and IPR (CHPATC1)
- Advance Transport Phenomena (CHPBTT1)
- Computational Fluid Dynamics (CHPBTP1)
- Fuell Cell Technology (CHPBTP2)
- Process Plant Design & Flow Sheeting (CHPBTP3)
- Business Analytics (MSPBTO1)
- Industrial Safety (IPPBTO3)
- Cost Management of Engineering Projects (CEPBTO4)
- Composite Materials (MEPBTO5)
- Waste to Energy (CHPBTO7)
- Internet of Things (ECPBTO7)
- Advanced Chemical Engineering Lab (CHPBLT01)
- English for Research Paper Writing (ELPBTX1)
- Stress Management by Yoga (PEPBTX2)
- Disaster Management (CEPBTX3)
- Constitution of India (LAPBTX4)

विभागाध्यक्ष, रासायनिक अभियांत्रिकी
HoD, Chemical Engineering
प्रौद्योगिकी संस्थान/Institute of Technology
गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Signature & Seal of HoD

Scheme and Syllabus- UG

DEPARTMENT OF CHEMICAL ENGINEERING
SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY, GGV, BILASPUR, C.G.
(INDIA)

SCHEME OF EXAMINATION

M.TECH. CHEMICAL ENGINEERING

M.Tech. I-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	CHPATT1	Advanced Heat Transfer	3	0	0	40	60	100	3
2.	CHPATT2	Advanced Separation Processes New Course	3	0	0	40	60	100	3
3.	CHPATT3	Advanced Fluidization Engineering	3	0	0	40	60	100	3
4.		Elective – I	3	0	0	40	60	100	3
	CHPATP1	Advanced Reaction Engineering New Course							
	CHPATP2	Advanced Wastewater Treatment Technology							
	CHPATP3	Advanced Chemical Process Modeling							
5.		Elective – II	3	0	0	40	60	100	3
	CHPATP4	Advanced Process Control							
	CHPATP5	Process Intensification							
	CHPATP6	Bioprocess Engineering New Course							
6.	CHPALT1	Chemical Engineering Computational Lab	0	0	4	30	20	50	2
7.	CHPATC1	Research Methodology and IPR New Course	2	0	0	-	50	50	2
		Total						600	19

M.Tech. II-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week L	T	P	Evaluation IA	ESE	Total	Credits
1.	CHPBTT1	Advanced Transport Phenomena New Course	3	0	0	40	60	100	3
2.	CHPBTT2	Chemical Reactor Design	3	0	0	40	60	100	3
3.		Elective – III	3	0	0	40	60	100	3
	CHPBTP1	Computational Fluid Dynamics New Course							
	CHPBTP2	Fuel Cell Technology New Course							
	CHPBTP3	Process Plant Design & Flow Sheeting New Course							
4.		Elective – IV	3	0	0	40	60	100	3
	CHPBTP4	Design & Development of Catalyst							
	CHPBTP5	Industrial Pollution Control							
	CHPBTP6	Safety Hazards & Risk Analysis							
5		Open Elective	3	0	0	40	60	100	3
	MSPBTO1	1. Business Analytics New Course							
	IPPBTO2	2. Industrial Safety New Course							
	IPPBTO3	3. Operations Research							
	CEPBTO4	4. Cost Management of Engineering Projects New COurse							
	MEPBTO5	5. Composite Materials New Course							
	CHPBTO6	6. Waste to Energy New Course							
	ECPBTO7	7. Internet of Things New Course							
	MCPBTO8	8. MOOCs							
6.	CHPBLT1	Advanced Chemical Engineering Lab New Course	0	0	4	30	20	50	2
7.	CHPBPT1	Mini Project	0	0	4	30	20	50	2
8.		Audit Course/Value Added Course	2	0	0	0	0	0	0
	ELPBTX1	English for Research Paper Writing New Course							
	PEPBTX2	Stress Management by Yoga New Course							
	CEPBTX3	Disaster Management New Course							
	LAPBTX4	Constitution of India New Course							
Total								600	19

Note: Under MOOCs the students have to opt any subject other than Chemical Engineering from NPTEL/UGC SWAYAM

M.Tech. III-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week L	T	P	Evaluation IA	ESE	Total	Credits
1.	CHPCPT1	Dissertation Stage–I	0	0	28	100	100	200	14
Total								200	14

M.Tech. IV-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week L	T	P	Evaluation IA	ESE	Total	Credits
1.	CHPDPT1	Dissertation Stage–II	0	0	32	100	200	300	16
Total								300	16

Total Credits for the Program = 19 + 19 +14 +16 = 68