



## Implementation of CBCS / ECS

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

**Academic Year : 2020-21**

**School : School of Studies of Engineering and Technology**

**Department : Chemical Engineering**

**Date and Time : July 27, 2020 - 11:00 AM**

**Venue : Online**

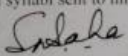
#### Minutes of Meeting

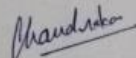
The scheduled meeting of member of Board of Studies (BoS) of Department of Chemical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur was held today (July 27, 2020) in online mode (via Google Meet) to discuss the B.Tech. Third year (V and VI semesters) scheme and syllabi. The meeting was conducted in online mode due to Covid-19 pandemic and lock down. The following members were present in the meeting:


1. Prof. (Mrs.) 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. Mrs. Anuradha Nanewar Joshi (Member BoS, Assistant Professor, Dept. of Chemical Engg.)
5. Dr. Sagar Kumar Jaiswal (Invited Member, HoD (I/c), Dept. of Law)
6. Mr. Neeraj Chandrakar (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
7. Mr. Amit Jain (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
8. Mr. G.P. Dewangan (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
9. Dr. Raghwendra Singh Thakur (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
10. Mr. Vishnu Prasad Yadav (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
11. Mr. Saurabh Meshram (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
12. Dr. Sandeep Dharmadhikari (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
13. Dr. Ghoshna Jyoti (Invited Member, Assistant Professor, Dept. of Chemical Engg.)


The committee discussed and approved the scheme and syllabi of B.Tech. Third year (V and VI Semesters). As per decision amongst members present in the meeting, this scheme and syllabus is being sent to external BoS members for their review and formal consent. Because of the pre occupancy of External Industry Expert Member, Mr. Suprangya Mohanty (Deputy Manager, HINDALCO, Mahan Unit, Bargawan, Singrauli) could not attend the online meeting. However, he has given the consent on the scheme and syllabi sent to him through mail.


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


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

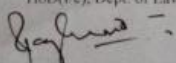
  
Dr. Anil Kumar Chandrakar  
Chairman, BoS  
HOD (I/c), Chemical Engg.

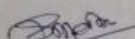
  
Mrs. A.N. Joshi  
Member, BoS  
Assistant Prof., Chemical Engg.

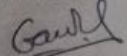
  
Dr. Sagar Kumar Jaiswal  
Invited Member  
HoD(I/c), Dept. of Law

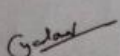
  
Mr. Neeraj Chandrakar  
Invited Member  
Assistant Prof., Chemical Engg.


  
Mr. Amit Jain  
Invited Member  
Assistant Prof., Chemical Engg.


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

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

  
Mr. G.P. Dewangan  
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 the of B. Tech. Third year (V and VI Semesters) First Year:

- ❖ Heat Transfer (CH05TPC08)
- ❖ Mass Transfer-I (CH05TPC09)
- ❖ Engineering Materials (CH05TPE11)
- ❖ Fluidization Engineering (CH05TOE11)
- ❖ Mass Transfer-II (CH06TPC11)
- ❖ Fertilizer Technology (CH06TPE31)

The following new courses were introduced in the of B. Tech. Third year (V and VI Semesters) and First Year:

- ❖ Constitution of India-Basic Features and Fundamental Principles (CH05TMC02)

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



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

**Academic Year : 2020-21**

**School : School of Studies of Engineering and Technology**

**Department : Chemical Engineering**

**Date and Time : December 29, 2020 - 11:00 AM**

**Venue : Online**

**Academic Year : 2020-21**

**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 (December 29, 2020) in online mode (via Google Meet) to discuss the B.Tech. First year-(I and II semesters) scheme and syllabi for CBCS-New pattern. This scheme and syllabi will be applicable for the students of the batch admitted in session 2020-21. The meeting was conducted in online mode due to Covid-19 pandemic situation. The following members were present in the meeting:

1. Prof. (Mrs.) A. B. Soni (External Expert Member BoS, Dept. of Chemical Engg., NIT Raipur)
2. Mr. Suprangya Mohanty (External Industry Expert Member BoS, Deputy Manager, HINDALCO, Mahan Unit, Bargawan, Singrauli)
3. Prof. S. N. Saha (Member BoS, Dept. of Chemical Engg.)
4. Dr. Anil Kumar Chandrakar (HOD (I/c), Associate Prof., Dept. of Chemical Engg-cum-Chairman, BOS)
5. Mrs. A. N. Joshi (Member BoS, Assistant Professor, Dept. of Chemical Engg.)
6. Mr. Amit Jain (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
7. Mr. G. P. Dewangan (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
8. Dr. Raghendra Singh Thakur (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
9. Mr. Vishnu Prasad Yadav (Invited Member, Assistant Professor, Dept. of Chemical Engg.)
10. Dr. Sandeep Dharmadhikari (Invited Member, Assistant Professor, Dept. of Chemical Engg.)

The committee discussed and approved the scheme and syllabi of B.Tech. First year (I and II Semesters). As per decision between members present in the meeting, this scheme and syllabus is being sent to external BOS members for their review and formal consent.

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

Mr. Suprangya Mohanty  
External Industry Expert Member, BoS  
Deputy Manager, HINDALCO  
Mahan Unit, Bargawan, Singrauli

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

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

*Joshi*  
Mrs. A. N. Joshi  
Member, BOS  
Assistant Prof., Chemical Engg.

*Amit Jain*  
Mr. Amit Jain  
Invited Member  
Assistant Prof., Chemical Engg.

*Raghendra*  
Dr. Raghendra Singh Thakur  
Invited Member  
Assistant Prof., Chemical Engg.

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

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

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



The following courses were revised in the of B. Tech. First year (I and II semester):

- ❖ Mathematics-I (MA201TBS01)
- ❖ Mathematics-II (MA202TBS03)
- ❖ Basic Electrical And Electronics Engineering (EC201TES01)
- ❖ Engineering Graphics (ME201PES01)
- ❖ Basic Electrical And Electronics Engineering Lab (EC201PES03)

The following new courses were introduced in the of B. Tech. First year (I and II semester):

- ❖ Engineering Mechanics (CE201TES01)
- ❖ Engineering Mechanics Lab (CE201PES01)
- ❖ Basic Civil & Mechanical Engineering (CM201TES03)
- ❖ Indian Constitution (LW201TMC01)
- ❖ Introduction To Information Technology (IT202TES05)
- ❖ English Communication (EN202THS01)

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**

SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY  
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)  
(A Central University Established by the Central University Ordinance 2009, No. 3 of 2009)

**SCHEME FOR EXAMINATION (Effective from session 2020-21)**

**B.TECH. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING**

**THIRD YEAR, FIFTH SEMESTER (AICTE) CBCS**

S. No.	Subject Code	Subject Name	Periods			Evaluation Scheme			Credits
			L	T	P	Sessional			
						IA	ESE	TOTAL	
01.	CH05TPC08	Heat Transfer	3	1	0	30	70	100	4
02.	CH05TPC09	Mass Transfer-I	3	1	0	30	70	100	4
03.	CH05TPC10	Chemical Reaction Engineering-I	3	1	0	30	70	100	4
04.	CH05TPEIX		3	0	0	30	70	100	3
05.	CH05TOEIX		3	0	0	30	70	100	3
06.	CH05TMC02	Constitution of India-Basic Features and Fundamental Principles	3	0	0	0	0	0	0
PRACTICAL									
01.	CH05PPC06	Heat Transfer Lab	0	0	3	30	20	50	1.5
02.	CH05PPC07	Mass Transfer-I Lab	0	0	3	30	20	50	1.5
03.	CH05PPC08	Chemical Reaction Engineering Lab	0	0	3	30	20	50	1.5
			<b>Total</b>	<b>18</b>	<b>3</b>	<b>9</b>		<b>650</b>	<b>22.5</b>

IA - Internal Assessment  
Total Marks - 650

ESE - End Semester Examination  
Total Periods / week - 30

Total Credits - 22.5

*Handwritten signatures and dates: Subha 27/7/2020, Anand 27/7/2020, Chandan 27/7/2020, C. S. 27/7/2020, Maudan 27/7/2020, H. 27/7/2020, A. S. 27/7/2020, G. S. 27/7/2020.*

SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY  
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)  
(A Central University Established by the Central University Ordinance 2009, No. 3 of 2009)

**SCHEME FOR EXAMINATION (Effective from session 2020-21)**

**B.TECH. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING**

**THIRD YEAR, SIXTH SEMESTER (AICTE) CBCS**

S. No.	Subject Code	Subject Name	Periods			Evaluation Scheme			Credits
			L	T	P	Sessional			
						IA	ESE	TOTAL	
01.	CH06TPC11	Mass Transfer-II	3	1	0	30	70	100	4
02.	CH06TPC12	Process Dynamics and Control	3	1	0	30	70	100	4
03.	CH06TPC13	Process Equipment Design-I	3	1	0	30	70	100	4
04.	CH06TPE2X		3	0	0	30	70	100	3
05.	CH06TPE3X		3	0	0	30	70	100	3
06.	CH06TOE2X		3	0	0	30	70	100	3
PRACTICAL									
01.	CH06PPC09	Process Dynamics and Control Lab	0	0	3	30	20	50	1.5
02.	CH06PPC10	Mass Transfer-II Lab	0	0	3	30	20	50	1.5
			<b>Total</b>	<b>18</b>	<b>3</b>	<b>6</b>		<b>700</b>	<b>24</b>

IA - Internal Assessment  
Total Marks - 700

ESE - End Semester Examination  
Total Periods / week - 27

Total Credits - 24

*Handwritten signatures and dates: Subha 27/7/2020, Anand 27/7/2020, Chandan 27/7/2020, C. S. 27/7/2020, Maudan 27/7/2020, H. 27/7/2020, A. S. 27/7/2020, G. S. 27/7/2020.*



**SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY**  
**GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**  
(A CENTRAL UNIVERSITY)

**CBCS-NEW, EVALUATION SCHEME**  
**PROPOSED (W.E.F. SESSION 2020-21)**  
**B. TECH. FIRST YEAR (SEMESTER- I)**  
(Common for CH, CE, IPE, ME)

S.No.	COURSE No.	SUBJECT	PERIODS			EVALUATION SCHEME			CREDITS
			L	T	P	IA	ESE	SUB-TOTAL	
<b>THEORY</b>									
1.	MA201TBS01	MATHEMATICS-I	3	1	-	30	70	100	4
2.	CY201TBS02	CHEMISTRY	3	1	-	30	70	100	4
3.	CE201TES01	ENGINEERING MECHANICS	3	1	-	30	70	100	4
4.	CS201TES02	COMPUTER PROGRAMMING	3	0	-	30	70	100	3
5.	CM201TES03	BASIC CIVIL & MECHANICAL ENGINEERING	3	0	-	30	70	100	3
6.	LW201TMC01	INDIAN CONSTITUTION	2	0	-	-	-	-	-
<b>TOTAL</b>			<b>17</b>	<b>3</b>	<b>-</b>	<b>150</b>	<b>350</b>	<b>500</b>	<b>18</b>
<b>PRACTICALS</b>									
1.	CY201PBS01	CHEMISTRY LAB	-	-	2	30	20	50	1
2.	CE201PES01	ENGINEERING MECHANICS LAB	-	-	2	30	20	50	1
3.	CS201PES02	COMPUTER PROGRAMMING LAB	-	-	2	30	20	50	1
<b>TOTAL</b>			<b>-</b>	<b>-</b>	<b>6</b>	<b>90</b>	<b>60</b>	<b>150</b>	<b>3</b>
<b>GRAND TOTAL</b>			<b>17</b>	<b>3</b>	<b>6</b>	<b>240</b>	<b>410</b>	<b>650</b>	<b>21</b>

Total Credits:21

Total Contact Hours:26

Total Marks:650

L:LECTURE, T:TUTORIAL, P:PRACTICAL, IA : INTERNAL ASSESSMENT, ESE:END SEMESTER EXAMINATION  
\*INTERNAL ASSESSMENT- Two Class Test of 15 Marks each will be conducted.

**SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY**  
**GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**  
(A CENTRAL UNIVERSITY)

**CBCS-NEW, EVALUATION SCHEME**  
**PROPOSED (W.E.F. SESSION 2020-21)**  
**B. TECH. FIRST YEAR (SEMESTER- II)**  
(Common for CH, CE, IPE, ME)

S. No.	COURSE No.	SUBJECT	PERIODS			EVALUATION SCHEME			CREDITS
			L	T	P	IA	ESE	SUB-TOTAL	
<b>THEORY</b>									
1.	MA202TBS03	MATHEMATICS-II	3	1	-	30	70	100	4
2.	PH202TBS04	PHYSICS	3	1	-	30	70	100	4
3.	EC202TES04	BASIC ELECTRICAL & ELECTRONICS ENGINEERING	3	1	-	30	70	100	4
4.	IT202TES05	INTRODUCTION TO INFORMATION TECHNOLOGIES	2	0	-	30	70	100	2
5.	EN202THS01	ENGLISH COMMUNICATION	3	0	-	30	70	100	3
<b>TOTAL</b>			<b>14</b>	<b>3</b>	<b>-</b>	<b>150</b>	<b>350</b>	<b>500</b>	<b>17</b>
<b>PRACTICALS</b>									
1.	PH202PBS02	PHYSICS LAB	-	-	2	30	20	50	1
2.	ME202PES03	ENGINEERING GRAPHICS	1	-	3	30	20	50	3
3.	ME202PES04	WORKSHOP TECHNOLOGY & PRACTICES	1	-	2	30	20	50	2
4.	EC202PES05	BEE LAB	-	-	2	30	20	50	1
<b>TOTAL</b>			<b>2</b>	<b>-</b>	<b>9</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>7</b>
<b>GRAND TOTAL</b>			<b>16</b>	<b>3</b>	<b>9</b>	<b>270</b>	<b>430</b>	<b>700</b>	<b>24</b>

Total Credits:24

Total Contact Hours:28

Total Marks:700

L:LECTURE, T:TUTORIAL, P:PRACTICAL, IA : INTERNAL ASSESSMENT, ESE:END SEMESTER EXAMINATION  
\*INTERNAL ASSESSMENT- Two Class Test of 15 Marks each will be conducted.