

Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

List of New Course(s) Introduced

Department : Chemical Engineering

Programme Name : B.Tech.

Academic Year: 2022-23

List of New Course(s) Introduced

Sr. No.	Course Code	Name of the Course
1	FOUATC2	Environmental Science and Ecology
2	PEUALS2	Sports and Yoga
3	CHUBTH2	Human Values and Ethics
4	NSUBLS1	NSS
5	CH306TMC02	Essence of Indian Knowledge Tradition
6	CH206TOE01	Industrial Utilities and Safety
	CE206TOE01	Metro Systems and Engineering
	CS206TOE01	Object Oriented Programming with C++
	EC206TOE01	Introduction to Electronic Devices and Circuits
	IP206T0E01	Operation Research
	IT206T0E01	Computer Graphics
	ME206TOE01	Automobile Engineering

New Course Introduced Criteria – I (1.2.1)





Guru Ghasidas Vishwavidyalaya

(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)

Koni, Bilaspur - 495009 (C.G.)

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

Academic Year : <mark>2022-23</mark>

School : Engineering and Technology

Department : Chemical Engineering

Date and Time: 15 December 2022, 11:00 AM

: HoD Room Venue

Minutes of Meeting

The scheduled meeting of members of Board of Studies (BoS) of Department of Chemical Engineering, Schoolof Studies of Engineering and Technology, Gana GhasidasVishwavidyalaya, Bilaspur was held today(December 15, 2022) in blended mode (offline plus via Google Meet) to discuss the B.Tech.First year (LandH semesters) scheme and syllabi and minor correction in the Scheme of B.Tech, VI Semester.

The following members were present in the meeting

- 1. Prof. A. B. Soni, External Expert Member-BoS (Prof., Dept. of ChemicalEngs., NITRaipur)
- 2. Dr.Raghwendra Singh Thakur, Chalrman-BoS (Assistant Prof. and Head, Dept. of Chemical Engg.)
- 3. Dr. Anil Kumar Chandrakar, Member-BoS (Associate Prof., Dept. of Chemical
- 4. Dr. Saurabh Meshram, Member-BoS(Assistant Prof., Dept. of Chemical Engg.)
- 5. Er. Arvind Verma, External Industry Expert, Special Invitee-BoS (Senior Manager-Process, Nu-Vista (NUVOCO Cement), Baloda Bazar)
- 6. Dr. Amt Jain, Invited Member (Associate Professor, Dept of Chemical Engg.)
- 7. Mr. Neeraj Chandraker, Invited Member (Assistant Prof., Dept. of Chemical Engg.)
- 8. Mrs. Anuradha N. Joshi, Invited Member (Assistant Prof., Dept. of Chemical Engg.)
- 9. Mr. Gautam Prasad Dewangan, Invited Member (Assistant Prof., Dept. of Chemical
- 10. Mr. Vishnu Prasad Yadav, Invited Member (Assistant Prof., Dept. of Chemical
- 11. Dr. Sandeep Dharmadhikari, Invited Member (Assistant Prof., Dept. of Chemical
- 12. Dr.Ghoshna Jyoti, Invited Member (Assistant Prof., Dept. of Chemical Engg.)

Following observations has been made in the meeting.

- 1. The committee discussed the scheme and syllabi of B. Tech First year (I and II semesters) at length and approved. The final scheme and syllabiare to be sent to the external BoS members for their formal consent.
- 2. As per the BOS meeting held on 14/06/2022, in B.Tech. III Year (VI Sem.) scheme (BoS held on 14.06.2022), the subject "Essence of Indian Knowledge Tradition" (Subject code: CH306TMC02) was inadvertently assigned with

New Course Introduced

Carlowing scheme:

Criteria - I (1.2.1)

Scheme and Syllabus

SCHOOL OF STUDIES OF ENGINEERING AND TECHNOLOGY

Scheme of Teaching and Evaluation 2022-2023 (As per NEP-2020)
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)
(Effective from the Academic Year 2022–2023)

			Teaching Hours/week			Examination				Г
S.N.	Course Code	Course Title	Theorylectures	Tutorial	Practical/ Drawing	Examination in Hours	CIA Marks	SEA Marks	Total Marks	Orași.
			L	T	P	Exami Hours	Hour	SEA	Total	
1	AMUATBI	Engineering Mathematics - A	3	1	-	03	40	60	100	4
2	CYUATB3	Engineering Chemistry	3			03	40	60	100	3
3	ECU ATE4	Basic Electrical and Electronics Engineering	3			03	40	60	100	3
4	FOUATC2	Environmental Science and Ecology	2			03	40	60	100	2
5	CSUATE5	Computer Programming	3	-		03	40	60	100	3
6	LAUATC1	Indian Constitution	1	-		01	50	-	50	1
7	CYUALB3	Engineering Chemistry Laboratory			2	03	25	25	50	1
8	CSUALE5	Computer Programming Laboratory	-		2	03	25	25	50	1
9	IPUALL2	Engineering Workshop Practices	5+8	-	2	03	25	25	50	1
10	PEUALS2	Sports and Yoga			2		25	25	50	
		Total	15	1	08	25	350	400	750	20

BASIC SCIENCE (B) 1. Mathematics – A 2. Physics 3. Chemistry 4. Mathematics - B	ENGINEERING SCIENCE (E) 1. Engineering Mechanics 2. Introduction to Information Technology 3. Basic Electrical Engineering 4. Basic Electrical and Electronics Engineering 5. Computer Programming 6. Basic Communication Engineering		SCIENCE (H) I. English for communication	Indian Constitution Environmental	EXTRA- CURRICULAR ACTIVITIES (S) 1. NSS 2. Sports and Yoga
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New Course Introduced Criteria – I (1.2.1)

गुरु घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय अधिनयम 2009 क्र. 25 के अंतर्गत स्वापित केन्नीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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Scheme of Teaching and Evaluation 2022-2023 (As per NEP-2020)
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)
(Effective from the Academic Year 2022–2023)

				Teachi lours/w		Examination				
Course Code	Course Title		Theory lectures	Tutorial	Practical/ Drawing	uination in s	Marks	Marks	Marks	Cradite
			L	T	P	Exam	CIA	SEA	Total	
AMUBTB4	Engineering Mathematics-	Engineering Mathematics-B			-	03	40	60	100	4
PPUBTB2	Engineering Physics			1	-	03	40	60	100	4
ITUBTE2	Introduction to Information Technology		3		-	03	40	60	100	3
ELUBTHI	English for Communication		3			03	40	60	100	3
CEUBTE1	Engineering Mechanics		3	-		03	40	60	100	3
ME UBTH2/CH UBTH2/ IP UBTH2/CEUBTH2	Human Values and Ethics		1		-	02	50		50	1
PPUBLB2	Engineering Physics Labor	Engineering Physics Laboratory		-	2	03	25	25	50	1
CEUBLEI	BLE1 Engineering Mechanics Laboratory			•	2	03	25	25	50	1
MEUBLLI	Engineering Graphics		1		3	03	25	25	50	3
NSUBLST	NSS		-		2	01			50	1
	Total		17	2	09	27	350	400	750	24
	AMUBTB4 PPUBTB2 ITUBTE2 ELUBTH1 CEUBTE1 IE UBTH2/CH UBTH2/ IP UBTH2/CEUBTH2 PPUBLB2 CEUBLE1 MEUBLL1	AMUBTB4 Engineering Mathematics PPUBTB2 Engineering Physics ITUBTE2 Introduction to Information ELUBTHI English for Communication CEUBTEI Engineering Mechanics IE UBTH2/CEUBTH2/IB UBTH2/CEUBTH2/IB UBTH2/CEUBTH2/IB Engineering Physics Labor CEUBLEI Engineering Mechanics La MEUBLLI Engineering Graphics NSUBLSI NSS	AMUBTB4 Engineering Mathematics-B PPUBTB2 Engineering Physics ITUBTE2 Introduction to Information Technology ELUBTHI English for Communication CEUBTEI Engineering Mechanics IE UBTH2/CH UBTH2/IB UBTH2/CHUBTH2/IB UBTH2/CHUBTH2/IB Engineering Physics Laboratory PPUBLB2 Engineering Mechanics Laboratory MEUBLLI Engineering Graphics NSUBLSI NSS	AMUBTB4 Engineering Mathematics-B PPUBTB2 Engineering Physics ITUBTE2 Introduction to Information Technology ELUBTH1 English for Communication CEUBTE1 Engineering Mechanics IEUBTH2/CH UBTH2/IPUBTH2/IPUBTH2/CEUBTH2 PPUBLB2 Engineering Physics Laboratory CEUBLE1 Engineering Mechanics Laboratory	AMUBTB4 Engineering Mathematics-B PPUBTB2 Engineering Physics Introduction to Information Technology ELUBTH1 English for Communication CEUBTE1 Engineering Mechanics If UBTH2/CH UBTH2/IP UBTH2/IP UBTH2/CEUBTH2 PPUBLB2 Engineering Physics Laboratory CEUBLE1 Engineering Mechanics Laboratory CEUBLE1 Engineering Mechanics Laboratory	L T P	L T P	L T P	L T P	L T P 2

New Course Introduced Criteria – I (1.2.1)

गुरू घासीदास विश्वविद्यालय कोनी, बिलासपुर - 495009 (छ.ग.)



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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 2022-23)

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

THIRD YEAR, FIFTH SEMESTER (AICTE-NEW)

S. No.	Subject Code			Periods				Evaluation Scheme			
THEORY	IEORY Subject Name			Perio	ds		Sessional				
				L	T	P	IA	ESE	TOTAL		
01.	CH305TPC07	Heat Transfer		3	1	0	30	70	100	4	
02.	CH305TPC08	Mass Transfer-I		3	1	0	30	70	100	4	
03.	CH305TPC09	Chemical Reaction Engineering-I		3	1	0	30	70	100	4	
04.	CH305TPC10	Process Equipment Design-I		3	1	0	30	70	100		
05.	CH305TPE1X			3	0	0	30	70	100	3	
06.	CH305TPE2X			3	0	0	30	70	100	3	
	PRACTICAL		-								
01.	CH305PPC05	Heat Transfer Lab		0	0	3	30	20	50	1.5	
02.	CH305PPC06	Chemical Reaction Engineering Lab		0	0	3	30	20	50	1.5	
			Total	18	4	6	240	460	700	25	

IA - Internal Assessment

Total Marks - 700

ESE - End Semester Examination

Total Periods / week - 28

Total Credits - 25

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 session2022-23)

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

THIRD YEAR, SIXTH SEMESTER (AICTE)

Subject Code		Subject Code		Destate			Evaluation Scheme			
S. No.	THEORY	Subject Name	Subject Name Periods		S		Sessional		Credits	
	· · · · · · · · · · · · · · · · · · ·			T	P	IA	ESE	TOTAL		
01.	CH306TPC11	Mass Transfer-II	3	1	0	30	70	100	4	
02.	CH306TPC12	Process Dynamics and Control	3	1	0	30	70	100	4	
03.	CH306TPC13	Chemical Reaction Engineering-II	3	1	0	30	70	100	4	
04.	CH306TPE3X		3	0	0	30	70	100	3	
05.	CH306TMC02	Essence of Indian Knowledge Tradition	2	0	0	30	70	100	3	
06.		Open Elective	3	0	0	30	70	100	3,	
	PRACTICAL									
01.	CH306PPC07	Mass Transfer Lab	0	0	3	30	20	50	1.5	
02.	CH306PPC08	Process Dynamics and Control Lab	0	0	3	30	20	50	1.5	
		Total	18	3	6	240	460	700	24	

11 - Internal Assessment

ESE - End Semester Examination

Total Credits - 24



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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)

DEPARTMENT OF CHEMICAL ENGINEERING

List of Professional Elective Courses (Fifth and Sixth Semester)

S.No.	Semester	Course No.	Subjects
01.	V	CH305TPE11	Engineering Materials
02.		CH305TPE12	Polymer Technology
01.	v	CH305TPE21	Inorganic Chemical Technology
02.		CH305TPE22	Fluidization Engineering
01.	VI	CH306TPE31	Organic Chemical Technology
02.		CH306TPE32	Fuel Combustion Energy Technology

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गुरु घासीदास विश्वविद्यालय (केन्द्रीय विश्वविद्यालय अधिनियम २००९ क्र. २५ के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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Koni, Bilaspur - 495009 (C.G.)

List of open electives for 6th semester B.Tech students

Course code	Course name	Offered by
CH206TOE01	Industrial utilities and safety	Chemical
CE206TOE01	Metro systems and Engineering	Civil
CS206TOE01	Object Oriented Programming with C++	CSE
EC206T0E01	Introduction to electronic devices and circuits	ECE
IP206TOE01	Operation Research	IPE
IT206TOE01	Computer Graphics	IT
ME206TOE01	Automobile Engineering	MECH
	CH206TOE01 CE206TOE01 CS206TOE01 EC206TOE01 IP206TOE01 IT206TOE01	CH206T0E01 Industrial utilities and safety CE206T0E01 Metro systems and Engineering CS206T0E01 Object Oriented Programming with C++ EC206T0E01 Introduction to electronic devices and circuits IP206T0E01 Operation Research IT206T0E01 Computer Graphics

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New Course Introduced *Criteria - I* (1.2.1)