

**NATIONAL INSTITUTE OF TECHNOLOGYDURGAPUR  
DEPARTMENT OF CHEMICAL ENGINEERING  
EVEN SEMESTER CLASS ROUTINE, 2021-22**

Period	Monday							
Period	1	2	3	4	5	6	7	8
Semester	9:00-9:45	10:00-10:45	11:00-11.45	12:00-12.45	14.00-14:45	15:00-15:45	16.00-16:45	17:00-17:45
CH 4 <sup>th</sup>	MEC432	CHC401(TM)	CHC403 (AKS)	CHO441 (RGC)			CHS451 (PPG&SP/ KCG&SKL) [Joyeeta, Nabanita, Biswajit]	
DDCH 4 <sup>th</sup>	MEC432	CHC401(TM)	CHC403 (AKS)	CHO441 (RGC)			CHS451 (PPG&SP/ KCG&SKL) [Joyeeta, Nabanita, Biswajit]	
BT 4 <sup>th</sup>	CHC431(MKM)							
DDBT 4 <sup>th</sup>	CHC431(MKM)							
CH 6 <sup>th</sup>					HSC631	CHE610 (PPG) CHE614 (SKL)	CHC602 (MKM)	CHC603 (BD)
DDCH 6 <sup>th</sup>					HSC631	CHE610 (PPG) CHE614 (SKL)	CHC602 (MKM)	CHC603 (BD)
BT 6 <sup>th</sup>						CHC631(JS)		
DDBT 6 <sup>th</sup>						CHC631(JS)		
CH 8 <sup>th</sup>	CHO851(AH)	CHE810(SP)	CHE811(AH)					
DDCH 8 <sup>th</sup>	CHO851(AH)	CHE810(SP)	CHE811(AH)		CH9014(BD) CH9030(RGC)			
PG-CH	CH2001(GNH)	CH9016(SP)	CH9015(AH)		CH9014(BD) CH9030(RGC)		CH2051 (PP/TM/AKS/GNH/SD/JS) [Allotted RS list attached**]	
PG-ERSEE	CH2011(SKL)	CH9044(JS) CH9039(AS)			CH9032(BD)		CH2061 (BD/BKM)	

*Dikler* 13.01.22  
HOD, Chemical Engineering

Period	Tuesday							
Period	1	2	3	4	5	6	7	8
Semester	9:00-9:45	10:00-10:45	11:00-11.45	12:00-12.45	14.00-14:45	15:00-15:45	16.00-16:45	17:00-17:45
CH 4 <sup>th</sup>	CHC401(TM)	CHC403 (AKS)	CHC402(SD)			WSS481		
DDCH 4 <sup>th</sup>	CHC401(TM)	CHC403 (AKS)	CHC402(SD)			WSS481		
BT 4 <sup>th</sup>	CHC431 (MKM)					CHS481 (JS&SKL/MKM&AH) [Paulami, Rwiddhi, Sayantan Adak]		
DDBT 4 <sup>th</sup>	CHC431 (MKM)					CHS481 (JS&SKL/MKM&AH) [Paulami, Rwiddhi, Sayantan Adak]		
CH 6 <sup>th</sup>	CHS651 (GNH/SD/RGC/BKM) [Sumona, Sirshendu, Nabanita]					CHC603(AKS)	CHC601 (KCG)	
DDCH 6 <sup>th</sup>	CHS651 (GNH/SD/RGC/BKM) [Sumona, Sirshendu, Nabanita]					CHC603(AKS)	CHC601 (KCG)	
BT 6 <sup>th</sup>								
DDBT 6 <sup>th</sup>								
CH 8 <sup>th</sup>				CHE811(AH)				CHO841(BKM)
DDCH 8 <sup>th</sup>				CHE811(AH)	CH9014(BD) CH9030(RGC)			CHO841(BKM)
PG-CH	CH9042(PP)	CH9042(PP) CH9011(BKM)	CH2001(GNH)	CH9015(AH)	CH9014(BD) CH9030(RGC)	CH2002(SP)		
PG-ERSEE	CH9042(PP)	CH9042(PP) CH9045(BKM)	CH2011(SKL)		CH9032(BD)		CH9039(AS)	

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HOD, Chemical Engineering

Period	Wednesday							
Period	1	2	3	4	5	6	7	8
Semester	9:00-9:45	10:00-10:45	11:00-11.45	12:00-12.45	14.00-14:45	15:00-15:45	16.00-16:45	17:00-17:45
CH 4 <sup>th</sup>	MEC432	CHC403 (AKS)	CHC402(SD)	CHO441 (RGC)			CHS452 (AS) [Ravindra, Bhaskar]	
DDCH 4 <sup>th</sup>	MEC432	CHC403 (AKS)	CHC402(SD)	CHO441 (RGC)			CHS452 (AS) [Ravindra, Bhaskar]	
BT 4 <sup>th</sup>	CHC431(MKM)							
DDBT 4 <sup>th</sup>	CHC431(MKM)							
CH 6 <sup>th</sup>	CHS652 (TM/BD) [Arunava, Sirshendu, Saheli]				HSC631	CHC602 (PP)	CHC602 (PP)	CHC601 (KCG)
DDCH 6 <sup>th</sup>	CHS652 (TM/BD) [Arunava, Sirshendu, Saheli]				HSC631	CHC602 (PP)	CHC602 (PP)	CHC601 (KCG)
BT 6 <sup>th</sup>						CHC631(JS)		
DDBT 6 <sup>th</sup>						CHC631(JS)		
CH 8 <sup>th</sup>	CHO851(AH)							
DDCH 8 <sup>th</sup>	CHO851(AH)							
PG-CH	CH2001(PPG)	CH9042(PP)						CH2002(TM)
		CH9011(BKM)						
PG-ERSEE	CH2011(SKL)	CH9042(PP)	CH9031(GNH)	CH9044(JS)				
		CH9045(BKM)	CH9040(AS)					

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HOD, Chemical Engineering

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CH 4 <sup>th</sup>	CHC401(TM)	CHC402(SD)	CHC402(SD)					
DDCH 4 <sup>th</sup>	CHC401(TM)	CHC402(SD)	CHC402(SD)					
BT 4 <sup>th</sup>	CHC431(MKM)							
DDBT 4 <sup>th</sup>	CHC431(MKM)							
CH 6 <sup>th</sup>	CHS653 (PP/AKS/MKM/AH) [Rwiddhi, Paulami, Sumona, Sayantan Adak]					CHE610 (PPG)	CHC601 (KCG)	CHC602 (MKM)
						CHE614 (SKL)		
DDCH 6 <sup>th</sup>	CHS653 (PP/AKS/ MKM/AH) [Rwiddhi, Paulami, Sumona, Sayantan Adak]					CHE610 (PPG)	CHC601 (KCG)	CHC602 (MKM)
						CHE614 (SKL)		
BT 6 <sup>th</sup>								
DDBT 6 <sup>th</sup>								
CH 8 <sup>th</sup>	CHE810(SP)		CHE811(AH)					CHO841(BKM)
DDCH 8 <sup>th</sup>	CHE810(SP)		CHE811(AH)		CH9014(BD)			CHO841(BKM)
					CH9030(RGC)			
PG-CH	CH9016(SP)	CH2001(GNH)	CH9015(AH)		CH9014(BD)	CH2002(SP)		
					CH9030(RGC)			
PG-ERSEE	CH9031(BD)	CH2011(SKL)	CH9044(JS)		CH9032(BD)			
	CH9040(AS)		CH9039(AS)					

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Semester	9:00-9:45	10:00-10:45	11:00-11.45	12:00-12.45	14.00-14:45	15:00-15:45	16.00-16:45	17:00-17:45
CH 4 <sup>th</sup>	MEC432	CHC401(TM)	CHC403 (AKS)	CHO441 (RGC)				
DDCH 4 <sup>th</sup>	MEC432	CHC401(TM)	CHC403 (AKS)	CHO441 (RGC)				
BT 4 <sup>th</sup>								
DDBT 4 <sup>th</sup>								
CH 6 <sup>th</sup>					HSC631	CHE610 (PPG)	CHC601 (KCG)	CHC603 (BD)
						CHE614 (SKL)		
DDCH 6 <sup>th</sup>					HSC631	CHE610 (PPG)	CHC601 (KCG)	CHC603 (BD)
						CHE614 (SKL)		
BT 6 <sup>th</sup>						CHC631(JS)		
DDBT 6 <sup>th</sup>						CHC631(JS)		
CH 8 <sup>th</sup>	CHO851(AH)	CHE810(SP)						CHO841(BKM)
DDCH 8 <sup>th</sup>	CHO851(AH)	CHE810(SP)						CHO841(BKM)
PG-CH		CH9016(SP)	CH9011(BKM)					CH2002(TM)
PG-ERSEE		CH9031(GNH)	CH9045(BKM)					
		CH9040(AS)						

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HOD, Chemical Engineering

### List of Subjects and Faculty Assigned

Subject	Course Code	Faculty Assigned	Abbreviation of Faculty Name
<b>UG 4<sup>th</sup> Semester</b>			
Heat Transfer	CHC401	Prof. Tamal Mandal	TM
Mechanical Operation	CHC402	Prof. Susmita Dutta	SD
Mass Transfer- I	CHC403	Prof. Anup Kumar Sadhukhan	AKS
Open Elective - I : Process Heat Transfer	CHO441	Dr. Rajib Ghosh Chaudhuri	RGC
Unit Operation of Chemical Engineering- I	CHC431	Dr. Mrinal Kanti Mandal	MKM
Fluid and Thermal Engineering	MEC431		
Fluid Mechanics Laboratory	CHS451	Prof. Parthapratim Gupta	PPG
		Dr. Swapan Paruya	SP
		Prof. Kartik Chandra Ghanta	KCG
		Dr. Sandip Kumar Lahiri	SKL
Process Equipment Design- I	CHS452	Dr. Ananta Sarkar	AS
Unit Operations of Chemical Engineering-I	CHS481	Dr. Jaya Sikder	JS
		Dr. Sandip Kumar Lahiri	SKL
		Dr. Mrinal Kanti Mandal	MKM
		Dr. Abhiram Hens	AH
Workshop Practice- II	WSS481		
<b>UG 6<sup>th</sup> Semester</b>			

Transport Phenomena	CHC601	Prof. Kartik Chandra Ghanta	KCG
Petroleum Refining and Petrochemicals	CHC602	Prof. Parimal Pal Dr. Mrinal Kanti Mandal	PP MKM
Process Modelling and Simulation	CHC603	Prof. Anup Kumar Sadhukhan Dr. Bimal Das	AKS BD
Depth Elective 1 :Chemical Reactor Analysis	CHE610	Prof. Parthapratim Gupta	PPG
Depth Elective 1 :Artificial Intelligence in Chemical Industries	CHE614	Dr. Sandip Kumar Lahiri	SKL
Process Control and Instrumentation	CHC631	Dr. Jaya Sikder	JS
Economics and Management Accountancy	HSC631		
Fuel Laboratory	CHS651	Prof. Gopinath Halder Prof. Susmita Dutta Dr. Rajib Ghosh Chaudhuri Dr. Bikash Kumar Mondal	GNH SD RGC BKM
Reaction Engineering Laboratory	CHS652	Prof. Tamal Mandal Dr. Bimal Das	TM BD
Mass Transfer Laboratory (Steam required from ME Dept; consecutive 4 days in one group)	CHS653	Prof. Parimal Pal Prof. Anup Kumar Sadhukhan Dr. Mrinal Kanti Mandal Dr. Abhiram Hens	PP AKS MKM AH
<b>UG 8<sup>th</sup> Semester</b>			
Depth Elective-V: Multiphase Flow	CHE810	Dr. Swapan Paruya	SP
Depth Elective-V: Analysis of Optimization	CHE811	Dr. Abhiram Hens	AH



Open Elective -IV: Bioengineering & Industrial applications	CHO841	Dr. Bikash Kumar Mondal	BKM
Open Elective -V: Energy, Environment & Sustainability	CHO851	Dr. Abhiram Hens	AH
M.Tech (CH) 2 <sup>nd</sup> Semester			
Advanced Chemical Engineering Thermodynamics	CH2001	Prof. Parthapratim Gupta Prof. Gopinath Halder	PPG GNH
Advanced Transport Phenomena	CH2002	Prof. Tamal Mandal Dr. Swapan Paruya	TM SP
Elective-III : Non-conventional Energy Engineering	CH9014	Dr. Bimal Das	BD
Elective-III: Colloids and Interface Engineering	CH9030	Dr. Rajib Ghosh Chaudhuri	RGC
Elective-IV: Membrane Technology in Environmental Pollution Control	CH9042	Prof. Parimal Pal	PP
Elective-IV: Biochemical and Bio-Engineering	CH 9011	Dr. Bikash Kumar Mondal	BKM
Elective-V : Multiphase Flow	CH9016	Dr. Swapan Paruya	SP
Elective-V: Chemical Process Optimization	CH9015	Dr. Abhiram Hens	AH
Advanced Chemical Engineering Laboratory-2	CH 2051	Prof. Parimal Pal Prof. Tamal Mandal Prof. Anup Kumar Sadhukhan Prof. Gopinath Halder Prof. Susmita Dutta Dr. Jaya Sikder	PP TM AKS GNH SD JS
M.Tech (ERSE) 2 <sup>nd</sup> Semester			

Process Control	CH 2011	Dr. Sandip Kumar Lahiri	SKL
Elective-III: Atmospheric Emission Control in Combustion Systems	CH 9039	Dr. Ananta Sarkar	AS
Elective-III : Air Pollution Control and Solid Waste Management	CH 9044	Dr. Jaya Sikder	JS
Elective-IV: Membrane Technology in Environmental Pollution Control	CH 9042	Prof. Parimal Pal	PP
Elective-IV: Chemical and Biochemical Reaction Engineering	CH 9045	Dr. Bikash Kumar Mondal	BKM
Elective-V: Waste Valorization	CH 9031	Prof. Gopinath Halder Dr. Bimal Das	GNH BD
Elective-V: Fuel Cell and Battery	CH 9040	Dr. Ananta Sarkar	AS
Elective-VI: Conventional and Non-Conventional Energy Engineering	CH 9032	Dr. Bimal Das	BD
Conventional and Non-Conventional Energy Laboratory	CH 2061	Dr. Bimal Das Dr. Bikash Kumar Mondal	BD BKM

## Research Scholar Allotment to Laboratory

Sl. No.	Laboratory Name	Faculty Name	Name of Research Scholars
1	Fluid Mechanics Laboratory (CHS451)	(PPG & SP)(KCG & SKL)	Joyeeta Bose, Nabanita Ghosh, Biswajit Sarkar
2	Process Equipment Design- I (CHS452)	AS	Ravindra Kumar, Bhaskar Bishayee
3	Unit Operations of Chemical Engineering-I Laboratory (CHS481)	(JS & SKL)(MKM & AH)	Paulami Banerjee, Rwiddhi Sarkhel, Sayantan Adak.
4	Fuel Laboratory (CHS651)	GNH, SD, RGC, BKM	Sumona Show, Sirshendu Banerjee, Nabanita Ghosh.
5	Reaction Engineering Laboratory (CHS652)	TM, BD	Arunava Chatterjee, Sirshendu Banerjee, Saheli Kar.
6	Mass Transfer Laboratory (CHS653)	PP, AKS, MKM, AH	Rwiddhi Sarkhel, Paulami Banerjee, Sumona Show, Sayantan Adak.
7	<b>**Advanced Chemical Engineering Lab-2 (CH2051)</b>		
	i. Determination of total organic and inorganic carbon using TOC analyser	SD	Arnab Sahu, Bulti Kandar
	ii. Determination of heavy metal from wastewater using Atomic absorption Spectrometer	SD	Biswajit Sarkar, Sayantan Sarkar.
	iii. Estimation of anion from wastewater using ion chromatography	SD	Bulti Kandar, Arnab Sahu
	iv. Detection/prediction of presence of functional group/s in a sample by UV spectroscopy	GNH	Indradev Kumar, Bhaskar Bishayee
	v. Detection/prediction of presence of functional group/s in a sample by fluorescence spectroscopy	TM	Arunava Chatterjee, Indradev Kumar
	vi. Detection of components with quantification by HPLC	PP	Meenakshi, Saheli Kar
	vii. Detection of components with quantification by GC-MS	JS	Sayantan Sarkar, Joyeeta Bose
	viii. Thermal stability analysis of solid sample using TGA	AKS	Ravindra Kumar, Meenakshi.

