Name of the Department: Chemical Sciences Programme: M.Sc. Chemistry

-			
Paper	CHL404	-18 Spec	troscony-l

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	
O1: Solve structural problems based on UV-Vis, IR, 1H-NMR, 13C-								rocus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
IMR and mass spectral data.	٧	V	V	V	V		Evaluation	Yes	
O 2: Elucidate the structures of various organic compounds on					-	100000		Tes	Mid semester tests, End Term Exams
ne basis of spectral data.	٧	V	٧	V	V	V	Applying	Yes	Mid semester tests, End Term Exams
O 3: Understand various involved processes responsible for NMR hemical shifts and splitting patterns and mass spectrometry.	v	V	V	,	V	,	Understanding	Yes	
0 4: Illustrate the mechanisms that give rise to the infrared and				-	1	-		res	Mid semester tests, End Term Exams
V-Visible absorption bands and identify to which functional roups each correspond.	V	V	V	V	V		Evaluation	Yes	Management
0 5:		1000				A CONTRACTOR		Yes	Mid semester tests, End Term Exams

Paper CHP407-18 Inorganic Chemistry Lab

PO 1	PO 2	PO3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrapropougable	Bearing Test to be
V	V	V	J .	1,1				The state of the
	1	1		V		and the same of th	Yes	Mid semester tests, End Term Exams
V	٧	V	V	A	V	Applying	Yes	Mid semester tests, End Term Exams
٧	V	V	V	V	V	Evaluation	Vac	
					1	Literation	165	Mid semester tests, End Term Exams
٧	V	V	V	V	V	Evaluation	Vac	
1/	V	d	lat .	J.	Name and Address of the Owner, where			Mid semester tests, End Term Exams
	v v	v v	V V V	V V V V V	V V V V V V	V V V V V V V	V V V V Understanding V V V V V Applying	V V V V Understanding Yes V V V V V Applying Yes V V V V V Evaluation Yes V V V V Evaluation Yes

Paper CHP408-18 Organic Chemistry Lab

Course Dutcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	
CO1: Apply various methods techniques in organic synthesis to							- Anna	roces on employaeancy / Entrepreneursing	Assessment Tools to Measure Attainment of CO
build organic molecules.	V	V	V	V	V	V	Applying	Yes	
CO 2: Understand the fundamental mechanistic pathways of					NEWS THE PARTY NAMED IN		Labbiling	res	Mid semester tests, End Term Exams
organic synthesis involving various practical lab techniques			1	1	200				
together.	V	V	V	V			Understanding	V	
CO 3: Apply the spectroscopic techniques for the determination of	1					-	Grider stariding	Tes .	Mid semester tests, End Term Exams
molecular structures of organic molecules.	V	V	V	V	V		Applying	V	
CO 4: Present their work with practical skills and the awareness of			777	1	1		Schoolskirid	Yes	Mid semester tests, End Term Exams
nealth and safety procedures.	V	V	V	V	V	V	Applying	Yes	Mid semester tests End Term Evame

Paper CHL414-18 Spectroscopy-I

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	206	Skill	Focus on Employability / Entrepreneurship	NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.
CO1: Learn the fundamental and advanced concepts of				1/1/1/1/1/1				i sees on employeemity / Emischiefied ship	Assessment Tools to Measure Attainment of CC
Microwave, Infrared Vibration-rotation Raman and infra-red		The state of	1000				THE REST OF THE		
Spectroscopy and their applications for				Bison		100			
chemical analysis	V	V	V	V	V		Understanding	Yes	
CO 2: Understand Electronic spectroscopy of different elements						S. Contract	onderstanten g	Tes	Mid semester tests, End Term Exams
and simple molecules.	V	V	V	V	V		Understanding		
CO 3: Study the concepts and principles of Mössbauer					-	0.000	onuerstanding	Yes	Mid semester tests, End Term Exams
Spectroscopy and its application.	V	V	V	V	V	V	Understanding		
CO 4: Apply Nuclear Quadruple Resonance and Electron Spin				1	1	1	Onderstanding	Yes	Mid semester tests, End Term Exams
Resonance Spectroscopy for organic compounds analysis.	V	V	V	V	V	V	Applying	was the same of th	
CO 5: Solve structural problems based on these techniques.	V	V	J.	1	14	1.		Yes	Mid semester tests, End Term Exams
		1,	14	14	V	V	Evaluation	Yes	Mid semester tests, End Term Exams

Paper CHL416P-18 Physical Chemistry Lab

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
O1: Understand the basic procedures for carrying out a physical hemistry practical like preparation and standardisation of olutions, handling the equipments and measuring with precision.		V	v		v	v	Understanding, Apply	Yes	Mid semester tests, End Term Exams
O 2: Correlate the theoretical and practical aspects and know bout the limits of the experimental error.	V	V	V		V	1	Understanding, Apply	Yes	Mid semester tests, End Term Exams

Head Department of Chemical Sciences IKG Punjab Technical University Kapurthata - 144603 Punjab (INDIA)

CO 3: Determine the various physical parameters for the various					100			
roblems under study.	V	V	V	V	V	Evaluate	Vac	Mid semester tests. End Term Exams
O 4: Verify various laws studied in the theory part.	1.7	141	1.7				163	wild semester tests, and Term Exams
to 4. Verny various laws scuded in the triedry part.	Iv	Iv	IV.	ĮV.	V	Analyse	Yes	Mid semester tests. End Term Exams

Paper CHP417P-18 Advanced Chemistry Lab-I

PO 1	POZ	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entreprepeurchin	Assessment Tools to Measure Attainment of CO
٧	V	V	V		v/			
	1.		1			-	Tes	Mid semester tests, End Term Exams
V	V	V	V		V	Applying	Yes	Mid semester tests, End Term Exams
٧	v	V	V	v	V	Evaluation	Vac	A41.
				THE REAL PROPERTY.			Tes .	Mid semester tests, End Term Exams
V	V	V	V	la H	V	Applying	Ves	Mid semester tests, End Term Exams
V	V	V	V	V	V		Vos	Mid semester tests, End Term Exams
	PO 1 v v v	v v	V V V V	V V V V V V	V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V Understanding V V V V Applying	V V V V Understanding Yes V V V V Applying Yes V V V V Evaluation Yes V V V V Applying Yes

Paper CHL504-18 Advanced Characterization Technique

Course Outcome	PO 1	PO Z	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the topography, morphology, composition,								seed on simple younty / charepreneuratep	Assessment Idois to Measure Attainment of CO
relationship between composition and material properties.	٧			V	V		Understanding	Yes	Mid semester tests, End Term Exams
CO 2: Learn the functioning of the X-ray diffractometer, about its components and would be able to determine the crystal structure of a material, find impurity in the material, different phases present in the mixture of compound qualitative as well as functionalities	٧	٧	>	V		,	Understanding and Analyzing	Yes	
CO 3: Understand the instrumentation of TGA and also to calculate the weight loss with temperature, types of changes occurring in the material/substances during thermal breading, enthalpy changes during heat treatment of a compound.	٧	٧	V	V		V	Understanding a		Mid semester tests, End Term Exams
CO 4: Apply the knowledge of various characterization techniques in material industries, metallurgy industries, electronic industries, civil Engineering.	٧	v	٧	V	v	V	Understanding,		Mid semester tests, End Term Exams Mid semester tests, End Term Exams
CO 5: Apply the quantitative and qualitative separation techniques in purification and its applications in food industry, pharmaceutical industry, purification, removal of pollutants, medicinal chemistry and essential oils.	V	٧	٧	٧	v	V	Understanding, Analyzing and applying	Yes	Mid semester tests, End Term Exams

Paper CHP506-18 Advanced Chemistry Lab-II

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Emphasize the importance of different techniques used for titration viz. potentiometery, pHmetry and amperometry.	V	٧	V	v	V	V	Understanding, Apply, Analyse, Create	Yes	
CO 2: Correlate the theoretical and practical aspects and know about the limits of the experimental error.	v	V	V	1	V	V	Understanding, Apply	Yes	Mid semester tests, End Term Exams
O 3: Determine the various physical parameters for the various roblems under study.	v	v	v	V	1	V	Evaluate	Yes	Mid semester tests, End Term Exams Mid semester tests. End Term Exams
O 4: Verify various laws studied in the theory part.	٧	٧	٧	٧		٧	Analyse	Yes	Mid semester tests, End Term Exams Mid semester tests. End Term Exams

Paper CHL512A-18 Advanced Physical Chemistry

Course Outcome	PO 1	PO 2	PO 3	PO 4	POS	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand major aspects of chemical terminology related							Understand,		POST STREET TOOS TO MEASURE ACCORDING OF CO
to surface science, polymers and electrode processes.	V	V	V	V	V	V	Remember	Yes	Mid semester tests, End Term Exams
O 2: Develop insights in the micelle formation process and					1			140	wild semester tests, and term exams
mphasize its application in daily life.				No.	1000				
	٧	V	V	٧	V	V	Apply, Analyse	Yes	Mid semester tests, End Term Exams
O 3: Know about polymers in detail.	V	٧	V	V	1	V	Remember	Yes	Mid semester tests, End Term Exams
O 4: Correlate various types of voltammetric techniques and	100	1000				1	Apply, Analyse,		wild semester tests, and Term exams
neir importance in sensing field.	٧	V	V	V	15-6	V	Evaluate	Yes	Mid semester tests, End Term Exams

Paper CHL512E-18 Green Chemistry

particular and the second seco	-								
Course Outcome	PO 1	POZ	PO3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO

Head
Department of Chemical Sciences
IKG Punjab Technical University
Kapurthala - 144603 Punjab (INDIA)

CO1: Conceptualize the various syntheses using novel and greener methods.	v	V	V	V	V		Understanding	Yes	
CO 2: Predict the relationships between organic chemical							- Control of the cont	res	Mid semester tests, End Term Exams
structures and their reactivity in different greener and benign conditions.	V	V	V	V	V		Evaluation	Yes	
CO 3: Learn the fundamental and advanced concepts of green							Crusacon	res	Mid semester tests, End Term Exams
chemistry in reaction mechanisms.	V	V	V	V	V		Understanding	Yes	
CO 4: Apply the new methodologies for altering the reactivity						200	onder standing	Tes	Mid semester tests, End Term Exams
patterns of substrates	V	V	V	V	1	J	Applying	Yes	
O 5: Synthesize various molecules using combinations of reactive							1. pp.1 11/6	ies	Mid semester tests, End Term Exams
pecies in novel conditions.	V	V	٧	٧	V		Applying	Yes	Mid semester tests, End Term Exams

Head Department of Chemical Sciences IKG Punjab Technical University Kapurthala - 144603 Punjab (INDIA)

Name of the Department: Chemical Sciences Programme: B.Sc. Honours Chemistry

Paper BHHL105-19 Communicative English-I

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Students will acquire basic proficiency in reading						7			The state of the s
&listening, writing and speaking skills.	٧	V	٧	V	V	V	Understanding	Yes	Mid semester tests, End Term Exams
CO 2: Students will be able to understand spoken and written English language, particularly the language of their chosen technical field.	٧	~	V	,	V	V	Understanding	Yes	Mid semester tests, End Term Exams
CO 3: They will be able to converse fluently and produce on their own clear and coherent texts.	٧	V	v	V	V	v	Applying	Yes	Mid semester tests, End Term Exams
CO 4: Students will become proficient in professional communication such as interviews, group discussions, office environments, important reading skills as well as writing skills	٧	V	V	v	v	V	Applying	Yes	Mid semester tests, End Term Exams

Paper BHCP107-19 Inorganic Chemistry Lab-

Course Outcome	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand to calibrate and run the instruments for analysis.	V	V	V	V				Yes	Mid semester tests, End Term Exams
CO 2: Learn to the quantitative analysis of various metal					1000	4 1110			Wile devilence ready, the Petri Exame
ions/cations and anions.	٧	V	V	٧	V	V		Yes	Mid semester tests, End Term Exams
CO 3: Understand the various principles of different techniques			1						
involved in the quantitative analysis.	٧	V	٧	٧	٧	٧		Yes	Mid semester tests, End Term Exams
CO 4: Learn to prepare various inorganic compounds.	٧	V	V	V	1		TO COMPANY	Yes	Mid semester tests, End Term Exams

Paper BHCP108-19 Organic Chemistry Lab-I

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: To check the purity of organic compounds by determining the melting or boiling points	J.	1	J	J.			Understand		
CO 2: To develop preparative skills for purification of organic	1	V	1	1	- IV		Understand and	Yes	Mid semester tests, End Term Exams
compounds by crystallization method.	V	V	V	V	V		apply	Yes	Mid semester tests, End Term Exams
CO 3: To determine the element or functional groups present in							Understand and		mid seriester tests, that ferri tadets
organic compound by organic qualitative analysis.	V	V	V	V	V		apply	Yes	Mid semester tests, End Term Exams
CO 4: To present their work with practical skills and the awareness	s	1							
of health and safety procedures.	V	٧	٧	٧	٧	٧	Apply	Yes	Mid semester tests, End Term Exams
CO 5: To apply related experiments for their research work	V	V	٧	٧	٧	٧	Apply	Yes	Mid semester tests, End Term Exams

Paper BHHL115-19 Communicative English-II

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Students will acquire basic proficiency in LSRW skills-				1000	12.4				
listening, speaking, reading, and writing.	V	٧	٧	V	V	V	Applying	Yes	Mid semester tests, End Term Exams
CO 2: Students will be able to develop their vocabulary so that			000						Tribute tests tribute term balling
they can understand spoken and written English language,			100	1000	1000	1000			
particularly the language of their chosen technical field	V	V	V	V	V	V	Understanding	Yes	Mid semester tests, End Term Exams
CO 3: Students will be introduced to the skills and strategies of						- Michigan			The second cody and your causes
reading and writing by identifying organizational patterns,				1		148.18			
spotting classification systems and understanding associations			1000						
between ideas through study of literary texts.	V	V	V	V	V	V	Understanding	Yes	Mid semester tests, End Term Exams
CO 4: Students will be able to converse fluently and produce on									Constitution designated form country
their own clear and coherent texts.	V	V	V	٧	V	٧	Applying	Yes	Mid semester tests, End Term Exams
CO 5: Students will be able to improve the employability of									and the same state of the same
students and make them proficient in professional	1				100				
communication through understanding of career documents; job				1	1	Tana a			
interviews; group discussions; internal communication in office					1		A STATE OF THE STA		
environments etc.	V	V	V	V	٧	V	Applying	Yes	Mid semester tests. End Term Exams

Paper BHCP117-19 Inorganic Chemistry Lab-II

raper brief 227 23 morganic chemistry tab-n					The same of the sa	Aller and the same	and the second second		
Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO

Head CD Department of Chemical Sciences IKG Punjab Technical University Kapurthala - 144603 Punjab (INDIA)

hrough qualitative analysis.	٧	V	٧	V	V	٧	Understanding	Yes	Mid semester tests. End Term Exams
CO 4: CO4. Learn to separate and identify less familiar ions									The second secon
nterfering ions.	٧	V	٧	٧.	100		Understanding	Yes	Mid semester tests, End Term Exams
in the qualitative analysis of mixtures in presence or absence of									
CO 3: CO3. Understand the various techniques/principles involve									
qualitative analysis of various metal ions/cations and anions.	V	V	V	٧	٧	V	Applying	Yes	Mid semester tests, End Term Exams
CO 2: CO2. Learn to identify present cations and anions through	1						and Complete Complete		
CO1: CO1. Understand the concept of qualitative analysis.	٧	٧	V	V	1000		Understanding	Yes	Mid semester tests, End Term Exams

Paper BHCP118-19 Physica	al Chemistry Lab
--------------------------	------------------

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the basic procedures for carrying out a physical chemistry practical like preparation and standardisation of				n edi		1	Understanding,		
solutions, handling the equipments and measuring with precision.	V	V	V	200	V	V	Apply	Yes	Mid semester tests, End Term Exams
CO 2: Correlate the theoretical and practical aspects and know	- King III						Understanding,		Wild service tests, End Term Exams
about the limits of the experimental error.	V	V	V	Maria Land	V	V	Apply	Yes	Mid semester tests, End Term Exams
CO 3: Determine the various physical parameters for the various				- 17			140		The second second second second second
problems under study.	٧	٧	V	٧		٧	Evaluate	Yes	Mid semester tests, End Term Exams
0 4: Verify various laws studied in the theory part.	٧	٧	V	V		1	Analyse	Yes	Mid semester tests, End Term Exams
				70000				Yes	Mid semester tests, End Term Exams

Paper UC-BSHP-125-19 Physics Lab-II

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Able to verify the theoretical concepts/laws learnt in theory									The second secon
courses.	V	V	V	V	V	٧	understand	Yes	Mid semester tests, End Term Exams
CO 2: Trained in carrying out precise measurements and handling									The second second second second
sensitive equipment.	V	V	٧	V	V	V	understand	Yes	Mid semester tests. End Term Exams
CO 3: Understand the methods used for estimating and dealing	100								The second to the second second second
with experimental uncertainties and systematic "errors".	V	V	V	V	V	V	apply	Yes	Mid semester tests, End Term Exams
CO 4: Learn to draw conclusions from data and develop skills in									Communication and the second Execution
experimental design.	٧	V	V	V	٧	V	apply	Yes	Mid semester tests, End Term Exams
CO 5: Document a technical report which communicates scientific						1			The second second form County
information in a clear and concise manner.	4	V	V	V	V	V	apply	Yes	Mid semester tests, End Term Exams

Paper BHCL203-19 Spectroscopy

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the fundamental principles and theories of						and the same of			A STATE OF THE STA
various spectroscopic techniques	٧	V	V	V	V		Understanding	Yes	Mid semester tests, End Term Exams
CO 2: Learn the interaction of various electromagnetic radiations with matter	V	V	V	٧	V		Applying	Yes	Mid semester tests, End Term Exams
CO 3: Learn about the behaviour of different types of compounds towards different electromagnetic radiations	V	V	V	V	v	v	Applying	Yes	Mid semester tests, End Term Exams
CO 4: Understand the applications of interaction of light in their characterization	V	٧	V	V	v		Understanding		Mid semester tests, End Term Exams
CO 5: Learn about the role of different techniques in the characterization of different compounds	V	٧	v	V	V	V	Applying	Yes	Mid semester tests, End Term Exams

Paper BHCP206-19 Organic Chemistry Lab-II

Course Outcome	PO 1	POZ	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: To synthesise organic compounds by conventional and	13.00			N. W.			Understanding		
greener approach.	V	V	V	V	4		and Apply	Yes	Mid semester tests, End Term Exams
CO 2: To develop preparative skills for purification of organic	1					1000	Understanding		
compounds by crystallization method.	V	V	V	V	V	Sec.	and Apply	Yes	Mid semester tests, End Term Exams
CO 3: To separate the organic compound by thin layer					-		Understanding		The series to see that the course
chromatography technique.	v	٧	1	V	٧		and Apply	Yes	Mid semester tests, End Term Exams
CO 4: To present their work with practical skills and the awareness		1 1 1 1 1		1 30	D Maria	195/43		The state of the s	The second court of the court o
of health and safety procedures.	V	٧	4	V	V	V	Apply	Yes	Mid semester tests. End Term Exams
CO 5: To apply related experiments for their research work	V	V	4	V	V	V	Apply	Yes	Mid semester tests, End Term Exams

Paper BHCP207-19 Physical Chemistry Lab-II

Course Outcome	PO 1 P	PO 2 PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO

Head
Department of Chemical Sciences
IKG Punjab Technical University
Kapurthala - 144603 Punjab (INDIA)

CO1: Understand the basic procedures for carrying out a physical chemistry practical like preparation and standardisation of solutions, handling the equipments and measuring with precision.	V	V	V		V	v	Understanding,	Yes	Mid semester tests, End Term Exams
O 2: Correlate the theoretical and practical aspects and know bout the limits of the experimental error.							Understanding,		
CO 3: Determine the various physical parameters for the various	Y	V	- IV			V	Apply	Yes	Mid semester tests, End Term Exams
problems under study.	٧	V	V	٧	10	v	Evaluate	Yes	Mid semester tests, End Term Exams
4: Verify various laws studied in the theory part.	٧	٧	٧	٧	11.70	V	Analyse	Yes	Mid semester tests, End Term Exams
								Yes	Mid semester tests, End Term Exams

Paner	BHC	213.	19 6	Green	Cham	ictn

Course Outcome	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: CO1. Understand the fundamental concepts of green									
chemistry	V	V	V	V	V	12 B	Understanding	Yes	Mid semester tests, End Term Exams
CO 2: CO2. Learn the use of these fundamental principles for the					1.00				The definition for the form Causes
designing of various chemical reactions	V	V	V	V	V	10.35	Understanding	Yes	Mid semester tests, End Term Exams
CO 3: CO3. Understand the various techniques available and their	1		1000			7.1	7 77 77		
present applications in different green reactions	٧	V	٧	V	V	V	Understanding	Yes	Mid semester tests, End Term Exams
CO 4: CO4. Learn about the various applications of the green									The same state of the same sta
chemistry	٧	V	V	V	V	V	Applying	Yes	Mid semester tests, End Term Exams
CO 5: CO5. Understand the various expected future trends of the									
green chemistry	V	V	V	V	٧	V	Applying	Yes	Mid semester tests, End Term Exams

Paper BHCl 214-19 Polymer Chemistry

Course Outcome	PO 1	PO Z	PO3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Study the nomenclature, classifications and bonding in						119.75			
polymers	V	V	V	V			Understanding	Yes	Mid semester tests, End Term Exams
CO 2: Learn the criteria for the synthesis of polymers and		100				1 1000			
mechanism involved in polymerization	V	V	V	V	V	1	Understanding	Yes	Mid semester tests, End Term Exams
CO 3: Understand the morphology, kinetics and their structure	1 Carrie					1500	1		
property relationship	٧	٧	V	٧	V	٧	Understanding	Yes	Mid semester tests, End Term Exams
CO 4: Learn the various techniques used for determining the							Understanding		
molecular weight of polymeric compounds	V	V	V	V	V	V	and Evaluation	Yes	Mid semester tests, End Term Exams
CO 5: Study the physical, thermal, Flow and Mechanical Properties							Understanding		
of Polymers	V	٧	V	V	V	٧	and Analysis	Yes	Mid semester tests, End Term Exams

Paper BHC1216-19 Basic Analytical Chemistry

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the basics of analytical chemistry.				THE STATE OF					The state of the s
	V	V	V	V	V	V	Understanding	Yes	Mid semester tests, End Term Exams
CO 2:Know abou t soil and water, their sampling, analysis &							To the later of the		
purification methods.	V	V	٧	V	V	V	Understanding a	Yes	Mid semester tests, End Term Exams
CO 3: Familarise with the principles and techniques of					Sec. 1	-			
chromatography.	4	V	V	V		V	Understanding	Yes	Mid semester tests, End Term Exams
CO 4: Aware of the nutritional value of various food items and						7 01 4.0			
concept of food processing and adulteration.	V	V	V	V	V	V	Understanding	Yes	Mid semester tests, End Term Exams
CO 5: Understand the functions of various constituents present in						1071			
cosmetics.	4	V	V	V	V	V	Understanding	Yes	Mid semester tests, End Term Exams

Paper BHCP217-19 Inorganic Chemistry Lab-III

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the concept of quaintitative analysis.	٧	4	V	٧	٧		Understanding	Yes	Mid semester tests, End Term Exams
CO 2: Understand the various techniques/principles involved in						100	MINISTER STATE		
the quantitative analysis for present metal ions.	4	V	V	V	V	1000	Understanding	Yes	Mid semester tests. End Term Exams
CO 3: Learn to synthesize various inorganic compounds	٧	V .	V	٧	٧	٧	Applying	Yes	Mid semester tests, End Term Exams
CO 4: Understand the principles involved in chromatographic separations	V	V	V	٧	V	100	Understanding	Yes	Mid semester tests, End Term Exams
CO 5: Learn to estimate the cations present, through quantitative	8								
analysis	V	V	٧	V	٧	d facility	Applying	Yes	Mid semester tests. End Term Exams

Paper BHCP	218-19 Phy	sical Chen	nistry Lab	-111
------------	------------	------------	------------	------

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
----------------	------	------	------	------	------	------	-------	---	--



cO 3: Learn the paper chromatographic technique for separation of metal ions.				S DOT			Understanding and Analyzing	Yes	Mid semester tests, End Term Exams
alkalinity etc) CO 3: Learn the paper chromatographic technique for separation	٧	٧	٧	٧	٧	V	and Analyzing	Yes	Mid semester tests, End Term Exams
CO 2: Analyse samples of soil (pH) and water (pH, acidity,			1-47	1000			Understanding	10	mio semester tests, and rem exams
CO1: Identify the adulterants in common food items.	V	V			V	V	Understanding and Analyzing	Yes	Mid semester tests, End Term Exams
NAME OF TAXABLE PARTY O	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
Paper BHCP219-19 Basic Analytical Chemistry Lab								Yes	Mid semester tests, End Term Exams
CO 4: Verify various laws studied in the theory part.	٧	٧	٧	٧		V	Analyse	Yes	Mid semester tests, End Term Exams
CO 3: Determine the various physical parameters for the various problems under study.	٧	V	V	V	B S	V	Evaluate	Yes	Mid semester tests. End Term Exams
CO 2: Correlate the theoretical and practical aspects and know about the limits of the experimental error.	V	v	٧		v	V	Understanding, Apply	Yes	Mid semester tests, End Term Exams
CO1: Understand the basic procedures for carrying out a physical chemistry practical like preparation and standardisation of solutions, handling the equipments and measuring with precision.	٧	V	٧		v	v	Understanding, Apply	Yes	Mid semester tests, End Term Exams

Paper BHCI 304-19	Annhation	Climical Di	a abanalosma

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the structure & functions of Biomolecules.	V	٧	٧	4	V		Understanding	Yes	Mid semester tests, End Term Exams
CO 2: An advanced understanding and applied knowledge of the theory of clinical biochemistry.	v	٧	V	V	٧		Understanding	Yes	Mid semester tests, End Term Exams
CO 3: A critical understanding of how biochemical investigations are employed to develop a clinical diagnosis.	٧	V	V	٧	V		Understanding	Yes	Mid semester tests, End Term Exams
CO 4: To gain knowledge and understanding of clinical disorders.		V	V	V	٧	to the	Understanding	Yes	Mid semester tests, End Term Exams
CO 5: To gain knowledge of biological samples and their collection procedures.	V	v	v	V	٧		Applying	Yes	Mid semester tests. End Term Exams

Paper BHCL305-19 Inductrial Chemicals and the Environment

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: understand different toxic gases and their toxicity hazards, Safe design systems for large scale production of industrial gases.	٧	٧	٧		v	V	Understand, Analyze and Apply	Yes	Mid semester tests, End Term Exams
CO 2: Understand manufacturing processes, handling and storage of inorganic chemicals and knowledge of Hazardous effects of the inorganic chemicals on human beings and vegetation.		V			٧	4	Understanding	Yes	Mid semester tests. End Term Exams
CO 3: understand the requirement of ultra-pure metals for the semiconducting technologies.				v	v		undersatnding	Yes	Mid semester tests, End Term Exams
CO 4: understand different sources, effects and control measures of air, water pollutants, water quality parameters, different methods of Treatment of effluents from different sources.	v	v	v	٧	٧	٧	Understand and Analyze	Yes	Mid semester tests, End Term Exams
CO 5: understand different sources of energy, source of nuclear waste and its disposal. Use of biocatalyst in chemical industries.			v	V	٧	V	Understand and Analyze	Yes	Mid semester tests, End Term Exams

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the fundamental concepts of various aspects of Ligand Field Theory	v	V	V	٧	V		Understanding		Mid semester tests, End Term Exams
CO 2: Learn the different aspects of crystal field theory	V	V	V	V	V	V	Applying	Yes	Mid semester tests, End Term Exams
CO 3: Understand the effect of weak, medium and strong crystal field on free ions	V	V	v	٧	V	1	Understand	Yes	Mid semester tests, End Term Exams
CO 4: Learn about the electronic spectra of transition metal complexes	٧	V	V	v	V	V	Applying	Yes	Mid semester tests, End Term Exams
CO 5: Understand the factors affecting the electronic spectra of the complexes	v	V	V	v	V		Understand	Yes	Mid semester tests, End Term Exams



Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of C
CO1: Understand the concept of quantitative analysis.	V	V	V	٧	V	0.00	Understand	Yes	Mid semester tests, End Term Exams
CO 2: Learn to estimate the present cations through quantitative									The service testsy and restriction
analysis	V	V	V	V	V	V	Applying	Yes	Mid semester tests, End Term Exams
CO 3: Understand the various techniques/principles involved in							1.41.1.6		The seriester tests, the remit thems
the quantitative analysis present metal ions.	V	V	V	V	V	1000	Understand	Yes	Mid semester tests, End Term Exams
CO 4: Learn to perform the volumetric analysis using different									Terra servicines research terra results
methods.	٧	٧	٧	v	V	V	Applying	Yes	Mid semester tests, End Term Exams
Paper BHCP308-19 Organic Chemistry Lab-III									
Course Outcome	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of C
CO1: To synthesise organic compounds by various approach.	7	V	V	V	V	LI DE	Understanding	Yes	Mid semester tests, End Term Exams
CO 2: To develop preparative skills for purification of organic	1	1	-	- V	-		Understanding	les	wild semester tests, and term exams
compounds by crystallization method.	1	1	J.				and evaluation	Yes	Mid semester tests. End Term Exams
CO 3: To separate the organic compound by thin layer	1	-	-	*	-	-8	Analysis and	res	Mid semester tests, End Ferm Exams
chromatography technique.	ly!	4	v	y.	V	1665	Evaluation	Yes	Mid semester tests, End Term Exams
CO 4: To present their work with practical skills and the awarenes		-	-	-	V		Evaluation	res	wild semester tests, and Term exams
of health and safety procedures.	3	1	14	1		4	Analysis	Yes	Mid semester tests. End Term Exams
CO 5: To apply related experiments for their research work	V	4	N.	1	14	1	Analysis	Yes	Mid semester tests, End Term Exams Mid semester tests. End Term Exams
co 3. To apply related experiments for their research work	1.	1,	1,	Tv.	14	1	Prinalysis	1es	wild semester tests, and Term Exams
Paper BHCL313-19 Catalysis									
		PO 2	Tan a	Jan .			T-1 m	Paradiane	
Course Outcome	PO 1		PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of C
CO1: Understand the Organometallic chemistry	٧	V	٧	٧	٧	1000	Understanding	Yes	Mid semester tests, End Term Exams
CO 2: Understand the fundamental concepts of various concepts									
involved in catalysis.	A	V	٧	٧	٧	-	Understanding	Yes	Mid semester tests, End Term Exams
CO 3: Learn different application of catalysis in the synthesis of	10				12		The second second		
organic compounds.	V	٧	V	V	V		Apply	Yes	Mid semester tests, End Term Exams
CO 4: To Understand role of catalysis in biological model	1	٧	ĮV.	ly.	IA	IA	Apply	Yes	Mid semester tests, End Term Exams
Paper BHCL314-19 Analytical Methods in Chemistry									
Course Outcome	PO 1	POZ	PO 3	PO 4	PO 5	PO 6	Skiff	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of Ct
CO1: explain the fundamentals of analytical chemistry and steps				The same					
of a characteristic analysis.	V	٧	V		V	V	Understanding	Yes	Mid semester tests, End Term Exams
	100	-					Apply, Analyse,		
CO 2: estimate kinds of errors in chemical analysis.	٧	V	V	٧	V	V	Evaluate	Yes	Mid semester tests, End Term Exams
CO 3: identify quality of experimental measurements.	٧	٧	٧	٧	٧	٧	Remember	Yes	Mid semester tests, End Term Exams
CO 4: interpret the sources of random errors and effects of							Understanding,		
andom errors on analytical results.	V	٧	٧	V	V	V	Apply, Evaluate	Yes	Mid semester tests, End Term Exams
CO 5: Familiarise with various analytical techniques and compare						100	Understanding,		
hem.	V	V	V	V	V	11/2	Remember	Yes	Mid semester tests, End Term Exams
	THE P				BUEL	Total 1	The Walnut		
Paper BHCL315-19 Nanochemistry		-					_		
Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of Co
CO1: Understand the fundamental concepts of nanomaterials.	٧	V	٧	٧	٧	787	Understanding	Yes	Mid semester tests, End Term Exams
O 2: Learn the different methods of chemical synthesis of			183	18 00					
anoparticles.	V	V	V	V	٧	100	Applying	Yes	Mid semester tests, End Term Exams
		Contract of the Contract of th					THE STATE OF THE S		
	1000	A CONTRACTOR OF THE PARTY OF TH		100	100		CONTRACTOR CONTRACTOR OF THE PARTY OF THE PA		
O 3: Understand the basic techniques about the organic nanoparticles.	٧	٧	v	v	v	19 - 17	Understanding	Yes	Mid semester tests, End Term Exams
O 3: Understand the basic techniques about the organic	v v	v v	V	V V	v v	V	Understanding Applying	Yes Yes	Mid semester tests, End Term Exams Mid semester tests, End Term Exams

Head
Department of Chemical Sciences
IKG Punjab Technical University
Kapurthala - 144603 Punjab (INDIA)

Assessment Tools to Measure Attainment of CO

Mid semester tests, End Term Exams

Course Outcome

computer simulation.

molecular modelling.

modelling.

Paper BHCL316-19 Molecular Modelling and Drug Design

CO1: Understand the fundamental concepts of molecular

CO 2: Learn the different methods of energy minimization and

CO 3: Understand the basic concepts of molecular dyanamics.

CO 4: Learn about the various concepts of drug designing and

PO 1

PO Z

PO 3

PO 4

PO 5

PO 6 Skill

Understanding

Understanding

Focus on Employability / Entrepreneurship

Yes

Yes

Yes

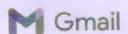
Yes

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 5	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: To study about properties of amino acids/proteins/enzymes.	v	V	V	V	V	4.5	Understanding	Yes	Mid semester tests. End Term Exams
CO 2: To estimate amino acids/proteins by various methods.	٧	٧	v	٧	٧		Analysis	Yes	Mid semester tests, End Term Exams
CO 3: To understand the isolation and characterisation of DNA.	٧	V	V	٧	٧	٧	Understanding	Yes	Mid semester tests, End Term Exams
CO 4: To present their work with practical skills and the awareness of health and safety procedures.	v	V	V	v	V	V	Analysis	Yes	Mid semester tests, End Term Exams
CO 5: To apply related experiments for their research work	٧	٧	V	V	V	V	Analysis	Yes	Mid semester tests, End Term Exams

Paper BHCP319-19 Physical Chemistry Lab-IV

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Skill	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the basic procedures for carrying out a physical chemistry practical like preparation and standardisation of solutions, handling the equipments and measuring with precision.		V	V		V	V	Understanding, Apply	Yes	Mid semester tests, End Term Exams
O 2: Correlate the theoretical and practical aspects and know				A NE			Understanding,	103	wild serilester tests, and term exams
about the limits of the experimental error.	٧	V	٧	trans.	V	V	Apply	Yes	Mid semester tests, End Term Exams
O 3: Determine the various physical parameters for the various					-				mid seriester tests, and ferm exams
problems under study.	V	V	V	٧		V	Evaluate	Yes	Mid semester tests, End Term Exams
O 4: Verify various laws studied in the theory part.	V	V	V	V		٧	Analyse	Yes	Mid semester tests, End Term Exams





BOS (Chemical Sciences), IKGPTU, Kapurthala

Reshu Talwar <reshusanan@gmail.com>

Thu, Feb 15, 2018 at 10:25 AM

To: Gaurav Bhargava <gauravorganic@gmail.com>, "Rupesh K. Manaktala" <rupesh.manak@gmail.com>, roopa_noel@yahoo.co.in, rakesh_chem@yahoo.com, spsinghgrewal@gmail.com, kumarnk31@gmail.com, gjpsingh@pu.ac.in, dryadavashok@gmail.com, anju.as@bcetgsp.ac.in, subodh_gndu@yahoo.co.in, narinderchem@gmail.com, Ashok Malik <malik_chem2002@yahoo.co.uk>, placements.ptu@gmail.com

Dear Sir/ Madam

A meeting of the Board of Studies in Chemical Sciences is scheduled to be held on 27th February, 2018 at 10:30 am in the conference hall, Deptt. of Academics, 2ndFloor, I.K. Gujral Punjab Technical University, Jalandhar-Kapurthala Highway. The agenda of the meeting is to discuss the scheme and syllabus of B.Tech (Engineering Chemistry) and M.Sc. Chemistry and to discuss any other matter with the permission of the Chair.

You are requested to kindly make it convenient to attend the same. Kindly confirm your participation in the said meeting through e-mail reshusanan@gmail.com or through SMS at 9465884855.

TA& DA / Honorarium will be paid as per the University rules.

With Regards
Dr Reshu Sanan
Assistant Professor (Chemistry)
Department of Chemical Sciences
IKG Punjab Technical University
Kapurthala-144603
M: 9465884855

Copunition of Chapters Spiences

Into Principle less intout Upperfuly

Kepunition of 199805 Puriet (INDIA)

IKG Punjab Technical University, Kapurthala Minutes of meeting

Subject:- Regarding minute of meeting of Board of studies on 27.2.2018

A meeting of Board of Studies Chemical Sciences was held on February 27th 2018 at 10:30 am in the Conference Hall, 2nd Floor, Department of Academics, I.K.Gujral Punjab Technical University, Main Campus, Jalandhar-Kapurthala highway, KaurthalaMain Campus.

The following were present:-

Dr. GauravBhargava, Chairman BOS

Dr. Ashok Kumar, DAVIET, Kanina

Dr. AnjuAwasthi, BCET, Gurdaspur

Dr. Neerai Kumar, CEC, Mohali

Prof. Ashok Malik. Punjabi University, Patiala

Prof. R.K. Mahajan, Vice-Chancellor, DAV University, Jalandhar

Dr. Gurjaspreet Singh, Panjab University, Chandigarh

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Roopa, IKGPTU, Kapurthala

Dr. ReshuSanan, IKGPTU, Kapurthala

Mr. NavdeepakSandhu, IKGPTU, Kapurthala

Ms. ManinderKaur, student alumni, IKGPTU, Kapurthala

The following member could not attend the meeting:

Prof. Subodh Kumar, GNDU, Amritsar

Dr. Narinder Singh, IIT, Ropar

Prof. R.P. Singh Grewal, GNE Ludhiana

CII Nominee/Industrial Expert

Prof. A.P. Singh, IKGPTU, Kapurthala

Chairman BOS welcome the members and apprized the members regarding model curriculum issued by the AICTE, New Delhi. All the members deliberated on the agenda. It was unanimously decided the following:

 The BOS mutually consented to adopt the model syllabi prescribed by AICTE of Chemistry-I (Common to all branches: CE, ME, EE, ECE & CSE) for 1st year of B.Tech.courses(Theory and Lab). Copy attached as Annexure-A.

by & man poly

KG Pung State of the Tily Kapunhala - Teacht Punjab ((NDIA)

- 2. The BOS also mutually consented to adopt the elective chemistry papers of B.Tech. Civil Enginnering as prescribed by AICTE. Copy attached as Annexure-B.
- 3. BOS have also decided to adopt Chemistry-I and Chemistry lab for semester-I and semester-11 of B.Tech.Chemical Engineering respectively as prescribed by AICTE. (Copy attached as Annexure-C.
- 4. BOS found the repetition of syllabus in Chemistry-II as that of Chemistry-I in the prescribed syllabus of AICTE. The committee suggested to intimate AICTE at the earliest for rectification/modification of the syllabus which will be implemented as per the AICTE guidelines.
- 5. BOS also permitted to adopt the changes as prescribed by the AICTE in future too.
- 6. The BOS member further decided that the modification etc. in near future by AICTE on study scheme and syllabus of B. Tech will be implemented as such for B. Tech courses at IKGPTU.
- 7. The study scheme for M.Sc. Chemistry, semester 1st to 4th for the Batch 2018-2019 is approved and attached as Annexure-B.
- 8. The syllabus of different courses of M.Sc. 1st and 2nd semester for the batch 2018-2019 is approved as attached Annexure-C.

The meeting ended with the vote of thanks.

Dr. Gaurav Bhargava, Chairman BOS

Dr. AnjuAwasthi, BCET, Gurdaspur

Punjabi University, Patiala

Dr. Gurjaspreet Singh,

Panjab University, Chandigarh

Dr. Roopa, IKGPTU, Kapurthala

Mr. NavdeepakSandhu,

Dr. Ashok Kumar, DAVIET, Kanina

Dr. Neeraj Kumar, CEC, Mohali

Rull mys Prof. R.K. Mahajan, VC.

DAV University, Jalandhar

Dr. Rupesh Kumar, IKGPTU.

Ms. ManinderKaur, student alumni, IKGPTU.



BOS (Chemical Sciences), IKGPTU, Kapurthala, 10th May 2018

Reshu Talwar <reshusanan@gmail.com>
To: Gaurav Bhargava <gauravorganic@gmail.com>

Tue, May 1, 2018 at 11:04 AM

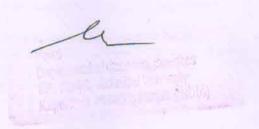
Dear Sir/ Madam

A meeting of the Board of Studies in Chemical Sciences is scheduled to be held on 10th May, 2018 at 10:30 am in the conference hall, Deptt. of Academics, 2nd Floor, I.K. Gujral Punjab Technical University, Jalandhar-Kapurthala Highway. The agenda of the meeting is to discuss the syllabus of M.Sc. Chemistry and to discuss any other matter with the permission of the Chair.

You are requested to kindly make it convenient to attend the same. Kindly confirm your participation in the said meeting through e-mail reshusanan@gmail.com or through SMS at 9465884855.

TA& DA / Honorarium will be paid as per the University rules.

With Regards
Dr Reshu Sanan
Assistant Professor (Chemistry)
Department of Chemical Sciences
IKG Punjab Technical University
Kapurthala-144603
M: 9465884855



IKG Punjab Technical University, Kapurthala Minutes of meeting

Subject: Regarding minutes of meeting of Board of studies (Chemical Sciences) on 10.05.2018

A meeting of Board of Studies Chemical Sciences was held on May 10th 2018 at 10:30 am in the Conference Hall, 2nd Floor, Department of Academics, LK, Gujral Punjab Technical University. Main Campus, Jalandhar-Kapurthala highway, Kaurthala Main Campus.

The following were present:-

Dr. GauravBhargava, Chairman BOS

Prof. Subodh Kumar, GNDU, Amritsar

Prof. A.P. Singh, IKGPTU, Kapurthala

Dr. Narinder Singh, IIT, Ropar

Dr.AnjuAwasthi, BCET, Gurdaspur

Dr. Neeraj Kumar, CEC, Mohali

Dr. Vandana Naithani, IKGPTU, Kapurthala

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Roopa, IKGPTU. Kapurthala

The state of the s

Dr. ReshuSanan, IKGPTU, Kapurthala

Mr. NavdeepakSandhu, IKGPTU, Kapurthala

Ms. ManinderKaur, student alumni, IKGPTU, Kapurthala

The following members could not attend the meeting:

Prof. R.K. Mahajan, Vice-Chancellor, DAV University, Jalandhar

Prof. Ashok Malik, Punjabi University, Patiala

Prof. R.P. Singh Grewal, GNE Ludhiana

Dr Gurjaspreet Singh, Panjab University, Chandigarh

Dr. Ashok Kumar, DAVIET, Kanina

CII Nominee/Industrial Expert

Chairman BOS welcomed the members and deliberated on the agenda. It unanimously decided the

1. The BOS mutually consented to adopt the model syllabi prescribed by AICTE of Chemistry-I (Common to all branches: CE, ME, EE, ECE & CSE) for all otherB.Tech.courses(Theory and Lab). Copy attached as Annexure-A.

- The BOS member further decided that the modification etc. in near future by AICTE on study scheme and syllabus of B. Tech will be implemented as such for all B. Tech courses at IKGPTII.
- The study scheme for M.Sc. Chemistry, semester 1st to 4th for the Batch 2018 onwards has been modified and approved. Copy attached as Annexure-B.
- The syllabus of different courses of M.Sc. 1st to 4th semester for the batch 2018 onwards has been approved. Copy attached as Annexure-C.
- Course objectives and its outcomes for BTCH101 (Engineering Chemistry) and BTCH102 (Engineering Chemistry Lab) of 2011 have been approved.

The meeting ended with the vote of thanks.

Dr. Gaurav Bhargava, Chairman BOS

Prof. Su

Prof. Subodh Kurnar, GNDU, Amritsar

Prof. A.P. Singh, IKGPTU, Kapurthala

Dr. Narinder Singh, IIT, Ropar

Dr.Neeraj Kumar, CEC, Mohali

Dr. Anju Awasthi, BCET, Gurdaspur

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Vandonia 5/15

Dr.Roopa, IKGPTU, Kapurthala

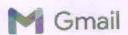
Dr. Vandana Naithani, IKGPTU, Kapurthala

VX

Dr.ReshuSanan, IKGPTU, Kapurthala

Mr.NavdeepakSandhu, IKGPTU, Kapurthala

Ms. ManinderKaur, student alumni, IKGPTU, Kapurthala



BOS meeting (Chemical Sciences), IKGPTU, Kapurthala, 27th March 2019

Reshu Talwar <reshusanan@gmail.com>

Tue, Mar 19, 2019 at 4:33 PM

To: Gaurav Bhargava <gauravorganic@gmail.com>, "Rupesh K. Manaktala" <rupesh.manak@gmail.com>, Roopa <roopa_noel@yahoo.co.in>, rakesh_chem@yahoo.com, Simarpreet Singh <spsinghgrewal@gmail.com>, "Dr. Neeraj Kumar" <kumarnk31@gmail.com>, gjpsingh@pu.ac.in, "Dr. Ashok Kumar" <dryadavashok@gmail.com>, subodh_gndu@yahoo.co.in, Narinder Singh <narinderchem@gmail.com>, Ashok Malik <malik_chem2002@yahoo.co.uk>, anju awasthi <anjuawasthi707@gmail.com>, Chander Parkash <chander.ptu@gmail.com>, Vandana Naithani <naithanivandana@gmail.com>, anips123@rediffmail.com, Sarwan Singh

<ssmailbag@yahoo.co.in> Cc: Director Office <directormcoffice@gmail.com>

Dear Sir/ Madam

A meeting of the Board of Studies in Chemical Sciences is scheduled to be held on Wednesday, 27th March, 2019 at 11:00 am in the conference hall, Deptt. of Academics, 2nd Floor, I.K. Gujral Punjab Technical University, Jalandhar-Kapurthala Highway. The agenda of the meeting is to discuss the scheme and syllabus of B.Sc. (Honours) Chemistry and to discuss any other matter with the permission of the Chair.

You are requested to kindly make it convenient to attend the same. Kindly confirm your participation in the said meeting through email reshusanan@gmail.com or through SMS at 9465884855.

TA& DA / Honorarium will be paid as per the University rules.

With Regards Dr Reshu Sanan BOS Co-ordinator (Chemical Sciences) Department of Chemical Sciences **IKG Punjab Technical University** Kapurthala-144603 M: 9465884855



IKG Punjab Technical University, Kapurthala

Subject: Minutes of meeting of Board of studies on 27.03.2019

A meeting of Board of Studies Chemical Sciences was held on March 27th 2019 at 11:00 am in the Conference Hall, 2nd Floor, Department of Academics, I.K. Gujral Punjab Technical University, Main Campus, Kapurthala.

The following members were present:-

Dr. Gaurav Bhargava, Chairman BOS

Prof. R.K. Mahajan, Vice-Chancellor, DAV University, Jalandhar

Prof. Subodh Kumar, GNDU, Amritsar

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Roopa, IKGPTU, Kapurthala

Dr. Reshu Sanan, IKGPTU, Kapurthala

Dr. Amit Sarin, Associate Professor, Physics, IKGPTU, Kapurthala

Dr. Sarabjest Singh Mann, IKGPTU, Kapurthala

Dr. Priyanka Mahajan, IKGPTU, Kapurthala

Mr. Navdeepak Sandhu, IKGPTU, Kapurthala

Ms. Maninder Kaur, student alumni, IKGPTU, Kapurthala

The following member could not attend the meeting:

Prof. Ashok Malik, Punjabi University, Patiala

Dr. Narinder Singh, IIT, Ropar

Prof. R.P. Singh Grewal, GNE Ludhiana

Prof. A.P. Singh, IKGPTU, Kapurthala

Dr. Anju Awasthi, BCET, Gurdaspur

Dr. Neeraj Kumar, CEC, Mohali

Dr. Gurjaspreet Singh, Panjab University, Chandigarh

Dr. Ashok Kumar, DAVIET, Kanina

CII Nominee/Industrial Expert

Chairman BOS welcome the members and apprized the members regarding starting of the B.Sc. (Honours) Chemistry in the Department of Chemical Sciences, IKG Punjab Technical University, Kapurthala. All the members deliberated on the agenda. It was unanimously decided the following:

The BOS formulated the scheme for the Semester I & II on the lines of UGC recommended scheme for B.Sc. (Honours) and approved.

makes as the for the

Control of Control of

- 2. The BOS approved the syllabus for Semester I & II of B.Sc. (Honours) Chemistry (Copy attached as Annexure-A).
- 3. It is also decided to circulate the scheme and syllabus on e-mail to rest of the members for their valuable suggestions and comments.

The meeting ended with the vote of thanks.

Dr. Gaurav Bhargava Chairman BOS

Suhoda Kunav Professor (Dr.) Subodh Kumar GNDU, Amritsar

Dr. Roopa, IKGPTU, Kapurthala

Dr. Amit Sarin, Associate Professor (Physics), Dr. IKGPTU, Kapurthala

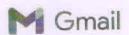
Dr. Sarabject Singh Mann, AP (Punjabi), Mr. Navdeepak Sandhu, IKGPTU, Kapurthala IKGPTU, Kaprthala

Ms. Maninder Kaur Student Alumni, Professor (Dr.) Rakesh Kumar Mahajan Vice Chancellor, DAV University, Jalandhar

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Reshu Sanan, IKOPTU, Kapurthala

Mahajan, AP (English), IKGP TU Kapurthala



Meeting BOS (Chemical Sciences, Main Campus) scheduled on 30.07.2019 (Tuesday) at 12.00 noon.

Dr. Rupesh Manak <rupesh.manak@gmail.com>

Wed, Jul 24, 2019 at 2:57 PM

To: Gaurav Bhargava <gauravorganic@gmail.com>, deanric@ptu.ac.in, rakesh_chem@yahoo.com, virinder.singh@bbsbec.ac.in, Narinder Singh <narinderchem@gmail.com>, gjpsingh@pu.ac.in, dinesh.mahajan@thsti.res.in, "Rupesh K. Manaktala" <rupesh.manak@gmail.com>, Roopa <roopa_noel@yahoo.co.in>, Chander Parkash <chander.ptu@gmail.com>, kaithbs@nitj.ac.in, subodh_gndu@yahoo.co.in, bkulia23@gmail.com, placements.ptu@gmail.com, bedi.ptu@gmail.com, Reshu Talwar <reshusanan@gmail.com>, rammandhall23@gmail.com, maninderkaur0014@gmail.com
Cc: directormcoffice@gmail.com, Sarwan Singh <ssmailbag@yahoo.co.in>, deanacad@ptu.ac.in

Dr. Gaurav Bhargava, Chairman BOS

Dr. A.P. Singh, Dean RIC, IKGPTU, Kapurthala

Professor (Dr.) Rakesh Kumar Mahajan, GNDU, Amritsar

Professor (Dr.) B.S. Kaith, Dr. B.R. Ambedkar NIT, Jalandhar

Professor (Dr.) Subodh Kumar, GNDU, Amritsar

Dr. Varinder Singh, BBSBEC, Fatehgarh Sahib

Dr. Narinder Singh, IIT Ropar

Dr. Gurjaspreet Singh

Dr. Dinesh Mahajan, THSTI, New Delhi

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Roopa, IKGPTU, Kapurthala

Dr. Reshu Sanan, IKGPTU, Kapurthala

Dr. Chander Parkash, IKGPTU, Kapurthala

Dr. Bilash Kulia, Aurigene Discovery Tech. Ltd., Hyderabad

Dy. Director / Assistant Director CR&A, IKGPTU, Kapurthala

Ms. Maninder Kaur, Alumni, IKGPTU, Kapurthala

Mr. Raman Kumar, Student, IKGPTU, Kapurthala

Subject: Meeting BOS (Chemical Sciences, Main Campus) scheduled on 30.07.2019 (Tuesday) at 12.00 noon.

Sir/ Madam

A meeting of the above said members of Board of Studies Chemical Sciences; Main Campus is scheduled to be held on July 30th 2019 (Tuesday) at 12:00 noon in the conference hall, Department of Chemical Sciences, Academic Building-III, GF, I.K. Gujral Punjab Technical University, Jalandhar-Kapurthlla Highway.

The agenda of the meeting is to formulate / adopt and approve the scheme and syllabus of M.Sc. (Chemistry) and B.Sc. Honours (Chemistry) running in Department of Chemical Sciences, IKG Punjab Technical University. Any other matter may also be discussed with the permission of the Chair.

https://mail.google.com/mail/u/0?ik=29c862c00f&view=pt&search=all&permmsgid=msg-f%3A1639931416494303579&simpl=msg-f%3A1639931...

You are requested to participate and contribute through your suggestions. Kindly confirm your participation in the said meeting through e-mail rupesh.manak@gmail.com or through SMS at 9465884829.

TA& DA / Honorarium will be paid as per the University rules.

With Regards

Dr Rupesh Kumar

Department of Chemical Sciences IKG Punjab Technical University Kapurthala-144603 M: 9465884829

https://mail.google.com/mail/u/0?ik=29c862c00f&view=pt&search=all&permmsgid=msg-f%3A1639931416494303579&simpl=msg-f%3A1639931...

I.K. Gujral Punjab Technical University, Kapurthala Board of Studies (Chemical Sciences, Main Campus) Minutes of Meetings

A meeting of board of studies (Chemical Sciences, Main Campus) was held on July 30th 2019 at 12.00 hrs in the conference room, Ground floor, Department of Chemical Sciences, I.K. Gujral Punjab Technical University Campus.

The following members were present:

Dr. Gaurav Bhargava, Chairman BOS

Dr. A.P. Singh, Dean RIC, IKGPTU, Kapurthala

Professor (Dr.) Rakesh Kumar Mahajan, GNDU, Amritsar

Professor (Dr.) Subodh Kumar, GNDU, Amritsar Dr. Virinder Singh, BBSBEC, Fatehgarh Sahib

Dr. Dinesh Mahajan, THSTI, New Delhi Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Roopa, IKGPTU, Kapurthala

Dr. Chander Parkash, IKGPTU, Kapurthala

Dy. Director / Assistant Director CR&A, IKGPTU, Kapurthala

Ms. Simran Harsh, Alumni, IKGPTU, Kapurthala

Mr. Raman Kumar, Student, IKGPTU, Kapurthala

The following members were not present:

Professor (Dr.) B.S. Kaith, Dr. B.R. Ambedkar NIT, Jalandhar

Dr. Narinder Singh, IIT Ropar

Dr. Gurjaspreet Singh

Dr. Reshu Sanan, IKGPTU, Kapurthala

Dr. Bilash Kulia, Aurigene Discovery Tech. Ltd., Hyderabad

Chairman BOS welcome the members and apprized the members regarding the agenda of the meeting. All the members deliberated on the agenda and unanimously decided the following:

The committee recommended the adoption of scheme and syllabus of M.Sc. Chemistry (Scheme 2018 onwards) as such after careful analysis of the scheme and syllabus.

The committee also recommended the adoption of first year scheme of B.Sc. (Honours)

Chemistry (Scheme 2019 onwards) as such.

The committee also assigned 16 credits to the project work of 4th semester of M.Sc. (Pharmaceutical Chemistry). Committee also recommends to give the detailed evaluation process for the project work in 4th semester on the pattern of other sister universities to be incorporated from the Batch 2019-20 onwards.

The meeting ended with the vote of thanks.

Dr. Gaurav Bhargava

Dr. Virinder Singh Professor Subodh Kumar

Dr. Rupesh Kumar

Dy. Director / Assistant Director CR&A

Dr. A.P. Singh Professor R.K. Mahajan

Dr. Dinesh Mahajan

Dr. Chander Prakash

Ms. Simran Harsh

Mr. Raman Kumar

- 2. The BOS approved the syllabus for Semester I & II of B.Sc. (Honours) Chemistry (Copy attached as Annexure-A).
- 3. It is also decided to circulate the scheme and syllabus on e-mail to rest of the members for their valuable suggestions and comments.

The meeting ended with the vote of thanks.

Dr. Gaurav Bhargava Chairman BOS

Suboda Krenav Professor (Dr.) Subodh Kumar GNDU, Amritsar

Dr. Roopa, IKGPTU, Kapurthala

Dr. Amit Sarin, Associate Professor (Physics), Dr. IKGPTU, Kapurthala IKG

IKGPTU, Kaprthala

Ms. Maninder Kaur, Student Alumni, IKGPTU, Kapurthala

Professor (Dr.) Rakesh Kumar Mahajan Vice Chancellor, DAV University, Jalandhar

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Reshu Sanan, IKGPTU, Kapurthala

Dr. Privanka Mal IKGPTU, Kapurthala AP (English),

Dr. Sarabjekt Singh Mann, AP (Punjabi), Mr. Navdeepak Sandhu, IKGPTU, Kapurthala



BOS meeting (Chemical Sciences), IKGPTU, Kapurthala, Friday, 14th February 2020

Reshu Talwar <reshusanan@gmail.com>

Thu, Jan 23, 2020 at 11:48 AM

To: Gaurav Bhargava <gauravorganic@gmail.com>, "Rupesh K. Manaktala" <rupesh.manak@gmail.com>, Roopa <roopa_noel@yahoo.co.in>, rakesh_chem@yahoo.com, gjpsingh@pu.ac.in, subodh_gndu@yahoo.co.in, Narinder Singh <narinderchem@gmail.com>, Chander Parkash <chander.ptu@gmail.com>, Vandana Naithani <naithanivandana@gmail.com>, Sarwan Singh <ssmailbag@yahoo.co.in>, Anirudh P Singh <deanric@ptu.ac.in>, Virinder.singh@bbsbec.ac.in, dinesh.mahajan@thisti.res.in, kaithbs@nitj.ac.in, bkuila23@gmail.com, placements.ptu@gmail.com, mrigender bedi <bedi.ptu@gmail.com>

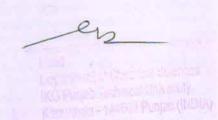
Dear Sir/ Madam

A meeting of the Board of Studies in Chemical Sciences is scheduled to be held on Friday, 14th February, 2020 at 11:00 am in the conference hall, Deptt. of Academics, 2nd Floor, I.K. Gujral Punjab Technical University, Jalandhar-Kapurthala Highway. The agenda of the meeting is to discuss the scheme and syllabus of B.Sc. (Hons. Chemistry) (3rd and 4th Semester) and to discuss any other matter with the permission of the Chair.

You are requested to kindly make it convenient to attend the same. Kindly confirm your participation in the said meeting through e-mail reshusanan@gmail.com or through SMS at 9463725685.

TA& DA / Honorarium will be paid as per the University rules.

With Regards Dr Reshu Sanan BOS Co-ordinator (Chemical Sciences) Department of Chemical Sciences IKG Punjab Technical University Kapurthala-144603 M: 9463725685



I.K. Gujral Punjab Technical University, Kapurthala Board of Studies (Chemical Sciences, Main Campus)

Minutes of Meetings A meeting of board of studies (Chemical Sciences, Main Campus) was held on February 14th 2020 at 11:00 am in the office of HOD, Ground floor, Department of Chemical Sciences, I.K. Gujral Punjab Technical University Campus.

The following members were present:

Dr. Gaurav Bhargava, Chairman BOS

Dr. A.P. Singh, Dean RIC, IKGPTU, Kapurthala

Professor (Dr.) Subodh Kumar, GNDU, Amritsar

Professor (Dr.) B.S. Kaith, Dr. B.R. Ambedkar NIT, Jalandhar

Dr. Virinder Singh, BBSBEC, Fatehgarh Sahib

Dr. Dinesh Mahajan, THSTI, New Delhi

Dr. Rupesh Kumar, IKGPTU, Kapurthala

Dr. Roopa, IKGPTU, Kapurthala

Dr. Reshu Sanan, Co-ordinator BOS

Dr. Chander Parkash, IKGPTU, Kapurthala

Dr. Hitesh Sharma, IKGPTU, Kapurthala

Dy. Director / Assistant Director CR&A, IKGPTU, Kapurthala

Ms. Bhanu Priya, Alumni, IKGPTU, Kapurthala

Ms. Swati, Student, IKGPTU, Kapurthala

The following members were not present:

Professor (Dr.) Rakesh Kumar Mahajan, GNDU, Amritsar

Dr. Narinder Singh, IIT Ropar

Dr. Gurjaspreet Singh, PU, Chandigarh

Dr. Bilash Kulia, Aurigene Discovery Tech. Ltd., Hyderabad

Chairman BOS welcomed the members and apprized the members regarding the agenda of the meeting. All the members deliberated on the agenda and unanimously decided the following:

1. The committee recommended the adoption of syllabus of mathematics-II for B.Sc. (Honours) Chemistry [Semester II] as such after careful analysis of the syllabus. [ANN-I]

2. The committee finalised and recommended the adoption of scheme of B.Sc. (Honours) Chemistry [Semester III to VI]. [AHN-II]

3. The detailed syllabus for B.Sc. (Honours) Chemistry [Semester III & IV] was discussed and it was recommended to adopt. [ANN-JII]

4. The committee also recommended to adopt the evaluation procedure for the dissertation in semester III and IV of M.Sc. Chemistry as per approved. Accordingly marks distribution has also been incorporated in the already formulated and passed scheme. [ANN-IX].

The meeting ended with the vote of thanks

Dr. Gaurav Bhargava

nh In Cmaw Dr. Subodh Kumar

Dr. Reshu Sanan 1416



Regarding Amendment in mom of 14.02.2020 and Approval of same

Reshu Talwar <reshusanan@gmail.com> Fri, Aug 14, 2020 at 1:28 F 10: Gaurav Bhargava <gauravorganic@gmail.com>, "Rupesh K. Manaktala" <rupesh.manak@gmail.com>, Roopa Fri, Aug 14, 2020 at 1:28 PM 10: Gaular - Rupesh K. Manaktala" < rupesh manak 400pa_noel@yahoo.co.in > Narinder Sizeh oo.com, gjpsingh@pu.ac.in, subodh kumar woopa gndu@yahoo.co.in>, Narinder Singh <narinderchem@gmail.com>, Chander Parkash chander.ptu@gmail.com>, Vandana Naithani <naithanivandana@gmail.com>, Chander Parkasn deanric@ptu.ac.in>, Virinder Singh <Virinder.singh@bbsbec.ac.in>, kaithbs@nitj.ac.in, Bilash Kuila bkuila23@gmail.com>, placements.ptu@gmail.com, mrigender bedi

bedi.ptu@gmail.com>, dinesh.mahajan@thsti.res.in, Director Office <directormcoffice@gmail.com>

Dear All BOS Members

Greetings of the Day. This is with regard to an amendment in one of the points (Point No. 4) as discussed in minutes of meeting dated 14.02.2020 (copy Attached)

In previous meeting, it was discussed that

4. The committee also recommended to adopt the evaluation procedure for the dissertation in Semester III and IV of M.Sc. Chemistry as per approved. Accordingly marks distribution has also been incorporated in the already formulated and passed scheme.

But since the meeting was held on 14.02.2020, the Semester III had been over for Students of M.Sc Chemistry Batch 2018, so the updated scheme could not be implemented for batch 2018 as per examination department.

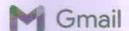
It is thus here by proposed to amend the point 4 as

4. The committee recommends to adopt the evaluation procedure for the dissertation in Semester III and IV of M.Sc. Chemistry as per approved notification. Accordingly marks distribution will be incorporated in the already formulated and passed scheme for Batch 2020 onwards. (copy Attached)

You all are requested to give your kind approval / suggestions through email by 20-08-2020. If You comply to above amendment, please just leave a reply email writing Approved as your approval is mandatory.

Thanks and Regards Dr. Reshu Sanan BOS (coordinator) Department of Chemical Sciences IKGPTU, Kapurthala.

2 attachments



BOS (Chemical Sciences) meeting on 11.06.2021 at 11.30am on MicrosoftTeams platform.

Dr. Rupesh Manak <rupesh.manak@gmail.com>

Wed, Jun 9, 2021 at 12:41 PM

To: Gaurav Bhargava <gauravorganic@gmail.com>, harishchopra@sliet.ac.in, pamita@nith.ac.in, lalitlalit64@rediffmail.com, sarbjit.kaur@bbsbec.ac.in, "Dr. Ashok Kumar" <dryadavashok@gmail.com> principalbcetgurdaspur@yahoo.com, chander.ikgptu@gmail.com, Roopa <roopa_noel@yahoo.co.in>, Reshu Talwar <reshusanan@gmail.com>, kaithbs@nitj.ac.in, subodh_gndu@yahoo.co.in, Narinder Singh <narinderchem@gmail.com>, bkulia23@gmail.com, placements.ptu@gmail.com, bedi.ptu@gmail.com, gobindkumar210495@gmail.com, mauryakaran1427@gmail.com Cc: deanacad@ptu.ac.in

Dr. Gaurav Bhargava-Professor and Chairman BOS

Dr. B.S. Kaith, Professor, Dr. B R Ambedkar NIT, Jalandhar

Dr. Subodh Kumar, Professor, GNDU, Amritsar

Dr. Harish Kumar Chopra, Professor, SLIET, Longowal

Dr. Pamita Awasthi, NIT, Hamirpur

Dr. Lalit Sharma, SBS STC, Ferozepur

Dr. Narinder Singh, IIT Ropar

Dr. Sarbjit Kaur Chatha, Associate Professor, BBSBEC, Fatehgarh Sahib

Dr. Ashok Kumar, Associate Professor, DAVIET, Jalandhar

Dr. Anju Awathi, Associate Professor, BCET, Gurdaspur

Dr. Chander Prakash, AP, IKGPTU, Kapurthala

Dr. Roopa, AP, IKGPTU, Kapurthala

Dr. Reshu Sanan, AP, IKGPTU, Kapurthala

Dr. Bilash Kulia, Sr. Scientist, Aurigene Discocovery Technologies Limited, Hyderabad

Dy. Director / Assistant Director CR&A

Mr. Karan Maurya, Student

Mr. Gobind Kumar, Alumni

Subject: BOS meeting scheduled on 11.06.2021 at 11.30AM on MicrosoftTeams platform.

Dear Sir / Madam

The Department of Chemical Sciences is running B.Sc. Honours Chemistry since 2019. The scheme and syllabus for semester I-IV has already been formulated and approved. Scheme and the syllabus of 5th and



9/6/2021

6th semesters are required to be finalized and approved. In this regard, a BOS meeting has been scheduled on 11.06.2021 (Friday) on online MicrosoftTeams platform. Link for the meeting is as follows:

https://bit.ly/3g6PaXu

(Please download the MicrosoftTeams app in your mobile / laptop for better connectivity. Otherwise you can directly click on the link and join as guest.)

Main agenda: To finalize and approve the scheme and syllabus of the B.Sc. Honours Chemistry (5th and 6th semester).

Any other agenda: With the approval of the chairman.

All the worthy members are invited to join the meeting and requested to give their valuable feedback / suggestions to improve the proposed scheme and syllabus.

The honorarium will be paid as per the IKGPTU norms.

Regards

Rupesh

Co-ordinator, BOS (Chemical Sciences)

Dr Rupesh Kumar Department of Chemical Sciences IKG Punjab Technical University

Kapurthala-144603 M: 9465884829

I.K. Gujral Punjab Technical University, Kapurthala Board of Studies (Chemical Sciences, Main Campus) Minutes of Meetings

A meeting of board of studies (Chemical Sciences) was held online on June 11th 2021 at 11.30 hrs on Microsoft teams platform.

The following members were present:

Dr. Gaurav Bhargava-Professor and Chairman BOS

Dr. B.S. Kaith. Professor, Dr. B R Ambedkar NIT, Jalandhar

Dr. Subodh Kumar, Professor, GNDU, Amritsar

Dr. Harish Kumar Chopra, Professor, SLIET, Longowal

Dr. Pamita Awasthi, NIT, Hamirpur

Dr. Lalit Sharma, SBS STC, Ferozepur

Dr. Narinder Singh, IIT Ropar

Dr. Sarbjit Kaur Chatha, Associate Professor, BBSBEC, Fatehgarh Sahib

Dr. Ashok Kumar, Associate Professor, DAVIET, Jalandhar

Dr. Anju Awathi, Associate Professor, BCET, Gurdaspur

Dr. Chander Prakash, AP, IKGPTU, Kapurthala

Dr. Roopa, AP. IKGPTU, Kapurthala

Dr. Reshu Sanan, AP, IKGPTU, Kapurthala

Mr. Gobind Kumar, Alumni

The following members were not present:

Dr. Bilash Kulia, Sr. Scientist, Aurigene Discocovery Technologies Limited, Hyderabad

Dy. Director / Assistant Director CR&A

Mr. Karan Maurya, Student

Chairman BOS welcome the members and apprized the members regarding the agenda of the meeting. All the members deliberated on the agenda and unanimously decided the following:

The committee discussed the scheme and syllabus of B.Sc. Honours Chemistry (semester 5th & 6th) thoroughly and finalised (Annexure-I attached). The committee recommended the adoption of finalised scheme and syllabus of B.Sc. Honours Chemistry (semester 5th & 6th).

The meeting ended with the vote of thanks.

Dr Gauray Bhargay

Dr. Chander Prakash

Dr. Rupesh Kumar

Dr Room

Dr Rechu Sanan

Note: Members from the outside institutions attended the meeting online and gave their consent for the same.

Head

Department of City In Object S

Kapurnato - 144803 Punjab (INDIA)

3.6.9 I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY Estd. Under Punjab Technical University Act, 1996 (Punjab Act No. 1 of 1997) Ref. No./IKGPTU/Reg/ 1167 Dated r (3-17-2015 arti-Baze/Upitues ਜ਼ਮੂਹ ਐਫੀਲੀਡਿਟ ਸੰਸਥਾਵਾਂ/ਕਾਲਜ ਸ਼ਾਲੀ ਕੇ ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਮਿਟੀ। Kent :-Regarding Credit Based System (CBS). ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸਬੰਧ ਵਿਚ ਆਪ ਜੀ ਦੇ ਧਿਆਨ ਵਿਚ ਲਿਆਂਦਾ ਜਾਂਦਾ ਹੈ ਕਿ ਆਈ.ਕੇ.ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਵੱਲੋਂ ਦਾਖ਼ਲਾ ਸਾਲ 2015–2016 ਤੋਂ ਕਰੋਡਿਟ ਬੇਸਿਡ ਸਿਸਟਮ ਸ਼ੁਰੂ ਕੀਤਾ ਜਾ ਰਿਹਾ ਹੈ। ਇਸ ਸਬੰਧੀ ਲੱਡੀ'ਦੀਆਂ ਗਾਈਡਲਾਈਨ, ਰੂਲ ਰੈਗੂਲੇਸ਼ਨਜ਼ ਅਤੇ ਸਾਫਟਵੇਅਰ ਯੂਨੀਵਰਸਿਟੀ ਦੀ ਵੈਬਸਾਈਟ ਉਪਰ ਅਪਲੱਡ

ਸਾਫਟਵੇਅਰ ਯੂਨੀਵਰਮਿਟੀ ਦੀ ਵੈਬਸਾਈਟ ਦੇ ਨਿਮਨ ਲਿੰਕ ਤੋਂ ਡਾਊਨਲੈਂਡ ਕਰ ਲਿਆ ਜਾਵੇ ਜੀ। http://www.ptu.as.in/ccodit%20based%20system/cbs.pdf

ਇਸ ਦਾ ਇਕ ਉਤਾਰਾ

।) ਭੀਨ (ਅਕਾਦਮਿਕ) ਜੀ ਨੂੰ ਸੂਚਨਾ ਹਿੱਤ ਭੈਜਿਆ ਜਾਂਦਾ ਹੈ ਜੀ।

ਕੰਟਰੋਲਰ ਪ੍ਰੀਖਿਆਵਾਂ ਜੀ ਨੂੰ ਸੂਚਨਾ ਅਤੇ ਕਾਲਜਾਂ ਦੀ ਲਾਗਿਨ ਆਈ.ਡੀ. ਵਿਚ ਭੋਜਣ ਹਿੱਤ।
 ਡਿਪਟੀ ਰਜਿਸਟਰਾਰ (ਕੰਪਿਊਟਰ) ਨੂੰ ਯੂਨੀਵਰਸਿਟੀ ਦੀ ਵੈਬਸਾਈਟ ਦੇ ਨੋਟਿਸ ਸ਼ੋਰਡ ਉਪਰ ਅਪਲੱਤ ਹਿੱਤ।

ੁਕਰ ਦਿੱਤਾ ਗਿਆ ਹੈ, ਜਿਸ ਦਾ ਲਿੱਕ ਨਿਮਨ ਪ੍ਰਕਾਰ ਹੈ। ਆਪ ਜੀ ਨੂੰ ਬੇਨਤੀ ਕੀਤੀ ਜਾਂਦੀ ਹੈ ਕਿ ਦਾਖਲਾ ਸਾਲ 2015–2016 (ਪਹਿਲਾ ਸਮੈਸਟਰ) ਦੇ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਪ੍ਰੀਖਿਆਵਾਂ ਸਬੰਧੀ ਈਵੈਲੂਏਸ਼ਨ ਕਰਨ ਸਬੰਧੀ ਲੱਡੀ'ਦੀਆਂ ਹਦਾਇਤਾਂ ਅਤੇ