Jaypee Institute of Information Technology

M.Tech Biotechnology

Semester III

Course Descriptions

de	17M17BT211Semester ODDS		Semester III, X (DD) Session 2020-21				
				Month fro	m July to December		
me	Seminar and Term	Paper					
	4		Contact Hours 4				
ames)	Coordinator(s)	Dr Garima Ma	Dr Garima Mathur				
	Teacher(s) (Alphabetically)) Dr Garima Mathur					
OUTCO	OMES				COGNITIVE LEVELS		
Mak	e use of existing lite	rature to define	a research	problem.	Applying Level (C3)		
-		quired knowledgeEvaluate Level (C5)					
Cone	clude through oral ar	bugh oral and written scientific presentations Evaluate Level (C5					
	me ames) OUTCO Mak Surv the p Eval	me Seminar and Term 4 4 ames) Coordinator(s) Teacher(s) (Alphabetically) OUTCOMES Make use of existing lite Survey the available scie the problem Evaluate and critique acc	me Seminar and Term Paper 4 4 ames) Coordinator(s) Dr Garima Ma Teacher(s) Dr Garima Ma (Alphabetically) Dr Garima Ma OUTCOMES Make use of existing literature to define Survey the available scientific resources the problem Evaluate and critique acquired knowled	me Seminar and Term Paper 4 Contact I ames) Coordinator(s) Dr Garima Mathur Teacher(s) (Alphabetically) Dr Garima Mathur OUTCOMES OUTCOMES Make use of existing literature to define a research Survey the available scientific resources & databas the problem Evaluate and critique acquired knowledge	Image: Month from the seminar and Term Paper Month from the seminar and Term Paper Image: Month from the seminar and Term Paper 4 Contact Hours Image: Make use of existing literature to define a research problem. Make use of existing literature to define a research problem.		

			Lecture-wise B	теакир	-		
Course Co	de	17M17BT212	Semester ODD Semester III, X (I			er III, X (DD) Session 2020-21	
				Month from July to December			
Course Na	me	Project Based Learning-II					
Credits		4		Contact I	ct Hours 4		
Faculty (Na	ames)	Coordinator(s) Dr Ashwani Mathur					
		Teacher(s) (Alphabetically)	Dr Ashwani Mathur				
COURSE	OUTCO	OMES				COGNITIVE LEVELS	
C201.1	C201.1 Compare and contrast the existing literature and interpret the Understanding L research problem			he Understanding Level 2			
C201.2		ce use of biotechnological and allied fields to explore Applying Level 3 erent strategies				Applying Level 3	
C201.3	Desi	Igning the research strategy Create Level Level 6					
C201.4					Analyzing Level 4		

			Lecture-wise B	псакир	-		
Course Code		17M17BT213 Semester Ol		DD Semester III		II Session 2020-21	
				Month from July to December			
Course Na	me	Dissertation					
Credits		4	Contact Hours 8				
Faculty (Names) Coordinator(s) Dr Shweta Dang							
		Teacher(s) (Alphabetically)	Dr Shweta Dang				
COURSE OUTCOMES						COGNITIVE LEVELS	
C213.1	Identify the research problem and select suitable scientific methods to solve the given research problemApplying Level 3				Applying Level 3		
C213.2		Formulate the plan and test for hypothesis Create level 6					
C213.3	Asse	Assess the key findings and interpret the data Evaluate Level 5					
C213.4	Compose the written scientific report and effectively presentCreate level 6the data				Create level 6		

Course C	ode	19M12HS211 Semester Odd (specify Odd/Even) Semester III Session 20 Month from July to Dec							
Course N	Course Name Cost Accounting for Engineering Projects								
Credits	Credits 3 Contact Hours 3-0-0								
Faculty		Coordinat	or(s)	Dr. Praveen Kum	nar Sharr	na			
(Names) T		Teacher(s) (Alphabeti	2 I Dr. Praveen Klimar Sharma						
COURSE	OUT	COMES							
C201-1.1	l	Jnderstand bas	ic conce	epts of Cost Accou	unting				
C201-1.2	A	Apply concepts	s of cost	in project manage	ement				
C201-1.3	A	Analyze cost b	ehaviou	r for decision mak	ting				
C201-1.4	(Construct diffe	rent bud	gets for controllin	ng the cos	st			
Module No.	ıle Title of the Module			s in the Module					No. o Lectures for the module
1.	Intro	duction	Introd	uction & Overview	w of Cos	t Mana	gement Proce	ess	3
2.	Cost Concepts			ant Cost, Different tunity Cost, Obj cory Valuation, Pr g	jectives	of a c	costing syste	em,	4
3.	Proje	ect execution	centre to com of tee	ng, Different types s, various stages o missioning. Proje chnical and non eering activities.	of project ect execu	t execut tion as	ion: concepti conglomerati	on on	5
4.	Project Execution		Pre project execution main clearances and documents Project team: Role of each member. Importance Project site			ect	6		
			Data required with significance, Project contracts, Types and contents, Project execution, Project cost control, bar charts & network diagrams, Project commissioning						
5.	Cost	Behavior	Costin Analy	Distinction between Marginal Costing and Absorption6Costing; Break-even Analysis, Cost-Volume-Profit4Analysis. Various decision-making problems.4					6
6.	Profi Marg	it Planning ginal Costing	strateg	ard Costing and gies: Pareto Analy ag. Costing of ach	vsis. Targ	get cost	ing, Life Cy	cle	6

7. 8.	Material Planning Budgetary	Material Requirement Planning, Enterprise Resource Planning, Total Quality Management and Theory of constraints. Activity-Based Cost Management, Bench Marking; Balanced Score Card& value chain analysis. Flexible budgets, Performance budgets, zero based	6			
	Control	budgets, Measurements of divisional profitability pricing decisions including transfer pricing.				
Tota	l number of Lectures		42			
Eva	luation Criteria					
	ponents	Maximum Marks				
T1		20				
T2		20				
	Semester Examination	35 25 (Test Osia Assistant)				
TA Teta	,	25 (Test +Quiz+Assignment)				
Tota						
	Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)					
1.	B. M. L. Nigam and I. C PHI Learning Pvt. Ltd., 2	. Jain, Cost Accounting: Principles And Practice, PHI Lea 2010.	arning Pvt. Ltd.			
2.	C. T. Horngren, <i>Cost accounting: A managerial emphasis, 13/e Pearson Education India.</i> Pearson Education India, 2009.					
3.	R. S. Kaplan and A. A. A	tkinson, Advanced management accounting. PHI Learning	g, 2015.			
4.	A. K. Bhattacharyya, <i>Principles and practice of cost accounting</i> . PHI Learning Pvt. Ltd., 2004.					
5.	N. D. Vohra, Quantitative	e Techniques in Management, 3e. Tata McGraw-Hill Educ	ation, 2006.			

Course Coo	le 19	PM13HS211	Semester Od			ter III Session 2020-21 from July to December	
Course Name Constitution of India							
Credits	2			Contact	Hours	(2-0-0)	
Faculty	Coordinator(s) Dr. Chandrima Chaudhuri						
(Names)		eacher(s) Alphabetically)	Dr. Chandrima Chaudhuri				
COURSE (DUTCO	MES					
C202.1		Demonstrate an understanding of the conflict between the Fundamental Rights and Directive Principles as given in the Indian Constitution					
C202.2	Asses India.		ne Indian constitution and its applicability in the study of politics in				
C202.3		Assess the devolution of powers and authority of governance of the Union government and the local government					

	and the local government
C202.4	Demonstrate an understanding of the powers and functions of the Indian executive,
02020	legislature and judiciary

Module No.	Title of the Module	Topics in the Module	No. of Lectures for the module
1.	History of Making of the Indian Constitution	• History Drafting Committee-Composition & Working	3
2.	Philosophy of the India Constitution	Preamble -Salient Features	1
3.	Fundamental Rights and Directive Principles	 Right to Equality Right to Freedom Right against Exploitation Right to Freedom of Religion Cultural and Educational Rights Right to Constitutional Remedies Directive Principles of State Policy 	5
4.	Organs of Governance	 Parliament-Composition, Qualifications & and Disqualification ,Powers and Functions Executive- President , Governor , Council of Ministers Judiciary-Appointment and Transfer of Judges, Qualifications, Power and Functions 	8
5.	Local Administration	 District's Administration head: Role and Importance Municipalities: Introduction, Mayor and role of 	8

		Elected Representative, CEO of Municipal Corporation • Panchayati raj: Introduction, PRI: Zila Punchayati Floated officials and their rules CEO Zila	
		Panchayat. Elected officials and their roles, CEO Zila Panchayat: Position and role. Block level: Organizational Hierarchy(Different departments),Village level, Importance of Grass root democracy	
6.	Election Commission	• Election Commission: Role and Functioning	3
Total nur	nber of Lectures		28
Evaluatio	on Criteria		
	e nts a Examination: ester Examination	Maximum Marks 30 40 30 (Assignment and Presentation) 100	

Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)

1.	Austin, G. (1996). <i>The Indian Constitution: Corner Stone of a Nation</i> . Oxford: Oxford University Press
2.	Bakshi, P.M.(2015). The Constitution of India. Delhi: Universal Law Pub. Co. Pvt. Ltd
3.	Bhuyan, D. (2016). Constitutional Government and Democracy in India. Cuttack:Kitab Mahal
4.	Busi, S.N. (2016). Dr. B. R. Ambedkar framing of Indian Constitution. Hyderabad: Ava Publishers
5.	Basu, D.D. (2018). Introduction to the Constitution of India. Nagpur: Lexis Nexis
6.	Jayal, N.G. & Mehta, P.B. (eds.)(2010). <i>The Oxford Companion to Politics inIndia</i> . New Delhi: Oxford University Press.
7.	Kashyap, S.C.(1995). Our Constitution/ Our Parliament/Our Judiciary. New Delhi: NBT
8.	Raghunandan, J. R. (2012). <i>Decentralization and local governments: The Indian Experience</i> . New Delhi: Orient Black Swan
9.	Sharma, B.K. (2005). Introduction to the Constitution of India. New Delhi: Prentice Hall of India Prvt Limited
10.	Sikri, S.L.(2002). Indian Government and Politics. New Delhi: Kalyani Publishers