GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM) (Deemed to be University) VISAKHAPATNAM * HYDERABAD * BENGALURU

Accredited by NAAC with A+ Grade



CURRICULUM AND SYLLABUS

OF

BBA Logistics

(for 2021-22 admitted batch)

Academic Regulations

Applicable for the Undergraduate programmes in the Faculties of Engineering,

Humanities, Management and the Sciences

https://www.gitam.edu/academic-regulations

Bachelor of Business Administration in Logistics (Effective from academic year 2021-22 admitted batch)

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO	To develop individuals with conceptual knowledge in the multipledisciplinesof logistics
1	comprisingofmathematics, statistics, information technology and management
PEO	To develop individuals who can pursue career in the area of
2	logisticsandcontinuetheirprofessionaldevelopmentbyobtainingmaster'sdegreespecializingin
	differentdomainsrelated to Logistics.
PEO	Todevelopindividualswhocanapply logisticstoolsandtechniquestosolvebusiness analytics
3	problems.
PEO	To imbibe value-based education to the students that will help them to function effectively
4	intheir business logistics career.
PEO	Incorporate the descriptive, predictive and prescriptive analysis of various kinds of Annual
5	Logistics records.

PROGRAM OUTCOMES(POs) AND PROGRAM SPECIFIC OUTCOMES(PSOs):

At the end of the program the students would be able to:

	d of the program the students would be able to.
PO1	Acquire adequate knowledge through principles, theories and models of business management, Accounting, Marketing, Finance, IT, Operations and Human Resource.
PO2	Demonstrate proficiency for Business Communication for effective and professional business management.
PO3	Acquire employability skills through practical exposure of IT and its usage in different domains of management.
PO4	Analyze and comprehend the applicability of management principles in solving complex business challenges.
PO5	Develop entrepreneurial skills among the students, to venture out their own domain proficiencies.
PO6	Build a perspective about global competitive environment including socio-cultural, technical and sustainability issues.
PO7	Develop leadership skills to achieve the individual, group and organizational goals.
PO8	Appreciate the importance of ethics in decision-making and inculcate the spirit of social responsibility.
PO9	Comprehend the applicability of management principles in the situations pertaining to global business world.
PO10	Illustrate various concepts, theories and models in the functional areas of business to face the challenges of changes.
PO11	Apply business analytics in different functional area for organizational effective results.
PO12	Interpret the legal environment and its dynamics to various business operations for effective end-results.

PROGRAMMESPECIFICOUTCOMES(PSO)

After the culmination of the course students will be able to acquire:

PSO1	Ability to understand the complexities that companies are confronting in today's global
	network economy.
PSO2	Evaluate the requisite knowledge about different forecasting techniques for building a
	Supply Chain Operations Plan.
PSO3	Analyse the designing for a warehousing facility to develop logistics networks.

Curriculum Structure

		University Core (UC)						
Course code	Level	Course title	L	T	P	S	J	C
CSEN1001	1	IT Productivity Tools	0	0	2	0	0	1*
		Communication Skills in English -						
LANG1001	1	Beginners	0	0	4	0	0	2*
LANG1011	1	Communication Skills in English	0	0	4	0	0	2
LANG1021	1	Advanced Communication Skills in English	0	0	4	0	0	2
CLAD1001	1	Emotional Intelligence & Reasoning Skills (Soft skills 1)	0	0	2	0	0	1
CLAD1011	1	Leadership Skills & Quantitative Aptitude (Soft skills 2)	0	0	2	0	0	1
CLAD1021	1	Verbal Ability & Quantitative Ability (Soft skills 3)	0	0	2	0	0	1
CLAD1031	1	Practicing Verbal Ability & Quantitative Aptitude (Soft skills 4)	0	0	2	0	0	1
VEDC1001	1	Venture Development	0	0	0	2	0	2
DOSP10XX	1	Sports 1#	0	0	0	2	0	2*
DOSL10XX	1	Club Activity#	0	0	0	2	0	2*
POLS1001	1	Indian Constitution and History	2	0	0	0	0	2*
PHPY1001	1	Gandhi for the 21st Century	2	0	0	0	0	2*
DOSL10XX	1	Community Service#	0	0	0	0	2	2*
ENVS1001	1	Environmental Studies^	3	0	0	0	0	3*
MFST1001	1	Health and Welbeing#	0	0	2	0	0	1*
CLAD20XX	2	Soft skills 5A/5B/5C	0	0	2	0	0	1
CLAD20XX	2	Soft skills 6A/6B/6C	0	0	2	0	0	1
FINA3001	3	Personal Financial Planning#	0	0	2	0	0	1*

^{*} Pass/Fail courses

Soft skills courses 5 and 6											
Course code	Level	Course title	L	T	P	S	J	C			
CLAD2001	2	Preparation for Campus Placement - 1									
		(Soft skills 5A)	0	0	2	0	0	1			
CLAD2011	2	Preparation For Higher Education (GRE/									
		GMAT) - 1 (Soft skills 5B)	0	0	2	0	0	1			
CLAD2021	2	Preparation for CAT/ MAT - 1 (Soft skills									
		5C)	0	0	2	0	0	1			
CLAD2031	2	Preparation For Campus Placement - 2									
		(Soft skills 6A)	0	0	2	0	0	1			

[#] Opt any three courses among the five ^ Online/Swayam/NPTEL Courses

CLAD2041	2	Preparation For Higher Education (GRE/						
		GMAT) - 2 (Soft skills 6B)	0	0	2	0	0	1
CLAD2051	2	Preparation for CAT/ MAT - 2 (Soft skills						
		6C)	0	0	2	0	0	1

		Sports courses						
Course code	Level	Course title	L	T	P	S	J	C
DOSP1001	1	Badminton	0	0	0	2	0	2
DOSP1011	1	Chess	0	0	0	2	0	2
DOSP1021	1	Carrom	0	0	0	2	0	2
DOSP1031	1	Football	0	0	0	2	0	2
DOSP1041	1	Volleyball	0	0	0	2	0	2
DOSP1051	1	Kabaddi	0	0	0	2	0	2
DOSP1061	1	Kho Kho	0	0	0	2	0	2
DOSP1071	1	Table Tennis	0	0	0	2	0	2
DOSP1081	1	Handball	0	0	0	2	0	2
DOSP1091	1	Basketball	0	0	0	2	0	2
DOSP1101	1	Tennis	0	0	0	2	0	2
DOSP1111	1	Throwball	0	0	0	2	0	2

	Club activity courses										
Course code	Level	Course title	L	T	P	S	J	C			
DOSL1001	1	Club Activity (participant)	0	0	0	2	0	2			
DOSL1011	1	Club Activity (Member of Club)	0	0	0	2	0	2			
DOSL1021	1	Club Activity (Leader of Club)	0	0	0	2	0	2			
DOSL1031	1	Club Activity (Competitor)	0	0	0	2	0	2			

	Community service courses									
Course code	Level	Course title	L	T	P	S	J	C		
DOSL1041	1	Community Services - Volunteer	0	0	0	0	2	2		
DOSL1051	1	Community Services - Mobilizer	0	0	0	0	2	2		

	Faculty Core (FC)											
Course code	Level	Course title	L	T	P	S	J	C				
	1	Principles of Management	3	0	0	0	0	3				
	1	Business Statistics	3	0	0	0	0	3				
	1	Second Language	3	0	0	0	0	3				
	1	Human Resource Management	3	0	0	0	0	3				
	1	Management and Cost Accounting	3	0	0	0	0	3				

		Second Language Courses						
Course code	Level	Course title	L	T	P	S	J	C
LANG1081	1	Special English	3	0	0	0	0	3
LANG1091	1	Hindi	3	0	0	0	0	3
LANG1101	1	Sanskrit	3	0	0	0	0	3
LANG1111	1	Telugu	3	0	0	0	0	3

		Programme Core/ Major Core (PC/MaC	<u>C)</u>					
Course code	Level	Course title	L	T	P	S	J	C
	1	Fundamentals of Logistics	3	0	0	0	0	3
	1	Materials Management	3	0	0	0	0	3
	1	Warehousing & Distribution Centre for Operation	3	0	0	0	0	3
	1	Freight Forwarding (Oceano and Air Cargo)	3	0	0	0	0	3
	1	Forecasting and Inventory Management	3	0	0	0	0	3
	1	Surface Transportation	3	0	0	0	0	3
	2	Marketing Theory and Practice	3	0	0	0	0	3
	2	MIS for Logistics	3	0	0	0	0	3
	2	International Logistics Management	3	0	0	0	0	3
	2	Retail Logistics and E-Commerce	3	0	0	0	0	3
	2	Liner Logistics	3	0	0	0	0	3
	2	Port Terminal Logistics	3	0	0	0	0	3
	2	Commercial Geography	3	0	0	0	0	3
	2	Logistics Network Design	3	0	0	0	0	3
	2	Logistics 4.0	3	0	0	0	0	3
	2	Comprehensive Viva	2	0	0	0	0	2
	3	Apprenticeship – 1	0	0	0	22	0	22
	3	Apprenticeship – 2	0	0	0	22	0	22

Program Electives								
Course code	Course code Level Course title						J	C
Group A								
2 Introduction to Aviation Industry & 3 0 0 0 0 Airport					0	3		
2 Introduction to Air Cargo Industry		3	0	0	0	0	3	
		Group B						
	2 First Mile Operations 3 0 0 0 0 3						3	
	2 Last Mile Operations		3	0	0	0	0	3
Group C								
	2 Multi-Modal Transportation		3	0	0	0	0	3
2 Commercial Aspects of Transportation		3	0	0	0	0	3	

Course code	Level	Course title	L	T	P	S	J	C	
	Allied Courses – 1								
3 Warehouse Automation			2	0	0	0	0	2	
3 Best Practices for Transportation		2	0	0	0	0	2		
3 Inland Waterways & Coastal Shipping			2	0	0	0	0	2	
		Allied Courses – 2							
	3 Courier, Express & Parcel Services 2 0 0 0 0					0	2		
3 Inplant Logistics		2	0	0	0	0	2		
3 Export and Import Documentation		2	0	0	0	0	2		

[#] Opt any two courses from each allied course basket.

Total credit distribution

Description	Credits	% of Program(in credits)
University Core (UC)	12	9%
Faculty Core (FC)	15	11%
Program Core (PC)	91	69%
Program Electives (PE)	14	11%
Total	132	100%

CSEN1001: IT Productivity Tools

Course Description:

This course introduces all software tools that improve the productivity of a studentinen hancing his learning experien with all the activities taken up a spart of his course work.

Course Objectives

- to enable the learner, the skill in preparing technical documents of professional quality using docs, sheets and forms.
- toinvolvethestudentin designing and creating of websites and acquaint the student with the skill of processing audio, images, documents etc.
- to create awareness in analysing data using pivot tables, query manager etc.
- to create awareness in composing emails, mail merge, e-mail merge etc.
- to provide the exposure to work with collaborative tools.

ListofExperiments

- 1. Createatypicaldocumentconsistingoftext,tables,pictures, multiplecolumns, withdifferentpageorientations.
- 2. Create atechnicalpaper/technicalreportconsistingoftable ofcontents,table offigures,table oftables,bibilography,index,etc.
- 3. Composeandsendcustomizedmail/e-mailusingmail-merge.
- 4. Create/modifyapower pointpresentationwithtext,multimediausingtemplateswithanimation.
- 5. Createspreadsheetwithbasiccalculationswithrelativereference, absolutereference and mixed reference methods.
- 6. Simplereportpreparationusing filtering tool/advanced filtering commands/pivottables in spreadsheet application.
- 7. Analysetheresultsofaexaminationstudentwise, teacherwise, coursewise, institute-wise.
- 8. Collecting and consolidating data using collaborative tools like google docs, sheets, forms.
- 9. Createcharts/picturesusingonlinetoolslike:www.draw.ioor Smart Draw awebsiteofhisinterest.

CourseOutcomes

- Create/alterdocuments/TechnicalPaper /Projectreportwithtext,pictures, graphsofdifferentstyles.
- Create/modifypower pointpresentationswithtext,multimediaandtoaddanimationusing/creating templates.
- Performbasic calculations/retrieved ata/create pivot tables/charts using aspreads heet application.
- Createsimplediagrams/charts usingonlinetools like:www.draw.io.
- Managedocuments, presentations, spreadsheets and websites in collaborative mode.

TextBooks:

- 1. KatherinMurray, 'Microsoft Office365Connect and collaborate virtually anywhere, any time', Microsoft Press, ISBN:978-0-7356-5694-9
- 2. EXCEL 2021 The Comprehensive Beginners to Advanced Users Guide to MasterMicrosoftExcel2021.LearntheEssentialFunctions,NewFeatures,Formulas,Tipsan dTricks,andManyMore
- 3. https://drawio-app.com/tutorials/video-tutorials/
- 4. Learning

WebDesign: ABeginner's Guideto HTML, CSS, Java Script, and WebGraphics Fourth Edition ISBN-13:978-1449319274

References/OnlineResources

- 1. https://www.coursera.org/learn/introduction-to-computers-and-office-productivity-software
- 2. https://www.coursera.org/projects/analyze-data-pivot-tables-crosstabs-google-sheets
- 3. https://www.coursera.org/learn/excel-advanced#syllabus
- 4. https://www.coursera.org/learn/how-to-create-a-website
- 5. https://support.microsoft.com/en-us/office
- 6. https://www.diagrams.net/
- 7. https://edu.google.com/

LANG1001: Communication Skills in English - Beginners

L T P S J C 0 0 4 0 0 2*

Course Description:

CommunicationSkillsinEnglish(Beginner)isthefirstofthethree-levelcoursesforadevelopmental enhancement of learners' communication skills in English. This course focuses ongiving learnersexposureto factuallevelofcomprehension(listeningandreading)andapplication of the learning (Speaking/Writing) with an awareness for social and personality-based variationsincommunication.InadditiontotheLSRWskills,

thefocusofthecourseisonschematicthinkingskills. This course is activity-based and practice-oriented in terms of procedural knowledge ofvocabulary and grammatical structure. This syllabus is carefully developed to enable learners toengage in communication in English avoiding errors and be prepared for next level of learningEnglish.

Course Objectives

- Train learners to listen actively, follow what is spoken in standard English, and answerquestions to demonstrate their understanding of the main points of the speech, repeat part ofwhat someone has said to confirm mutual understanding, though occasionally, there may be aneed toaskforrepetitionorclarification.(Bloom'sTaxonomyLevel/s: 2&3)
- Equiplearners with the skills to read and comprehend straightforward texts and simpleargumentative writing to identify the topic, the desired/relevant information, the main pointsofthe argument, and the major conclusion/s. (Bloom's Taxonomy Level/s: 2&4)
- Help learners apply their knowledge and language skills to make mini oral presentations, and produce short coherent written texts using appropriate cohesive devices, suitable vocabulary and grammatical structures. (Bloom's Taxonomy Level/s:3)
- Enable learners to communicate with reasonable accuracy in familiar contexts with adequatefluency and generally good control by equipping them with a repertoire of frequently usedvocabulary, structures, and speech patterns. (Bloom's Taxonomy Level/s: 2&3)

ListofActivities& TasksforAssessment

- 1. Listeningtoothersandgettingtoknowtheirexperiences, interests and opinions
- 2. Introducingoneself:Salutation,basicinformation,relatingtothecontext
- 3. Startingaconversation:Salutation,expressingpurpose,expressinggratitude
- 4. Sharingone's experiences, interests and opinions
- 5. Readingshortnewspaperarticlesforgist
- 6. Picking new wordsfromanarticle and workingonthemto knowthe meaning andusage
- 7. Usingthenew(unknown)wordsinownsentences
- 8. Sharingnewswithothers -initiate, sustain and conclude
- 9. Understandingtherelevanceofintonationtomeaningfrom recorded conversations, and applying the learning in pairwork (role play)
- 10. Writingasummaryofastory/personalnarrativeafterlisteningtoittwiceandmakingindividu alnotes
- 11. Readinggraphs, charts and maps for specific information, making note of the important information o

- mationandtalkingbrieflyaboutitwithina smallpeergroup
- 12. Writingaparagraphaboutoneself:abriefprofileincludingmajorsuccesses, failures, and goals. Giving compliments/gratitude to others
- 13. Writingaparagraph(descriptive,complimentary)aboutothers(Family,friends,rolemodel, etc.)
- 14. Correctingeachother's'drafts:errorsinlanguagewordchoice,structure,andconventions/etiquette
- 15. Writingashortstructureddescriptive/narrativeessayin3paragraphs,readingothers'essays andsharingfeedback

CourseOutcomes

List enactively, understand and extract the essential information from short talks/conversations/disc ussions that are delivered in clear, standard speech. (Bloom's Taxonomy Level/s: 2 & 3)				
Read, understand, and extract specific information from straightforward factual and simple argumentative texts on general topics and subjects of interest. (Bloom's Taxonomy Level/s: 2&3)				
$Speak clearly with some confidence on matters related to his/her interests and a cade mic work, and make short structured or all presentations on topics of personal interest. \\ (Bloom's Taxonomy Level/s:3)$				
Write shortstraightforward connected texts on a range of familiar/general topic susing appropriate linking devices to a chieve a clear sequence of ideas. (Bloom's Taxonomy Level/s:3)				
Acquire sufficient language competency to express oneself in speech and writing with someconfidence, using appropriate vocabulary and simple grammatical structures though lexical limitations and/or difficulty with formulation might be evident at times. (Bloom's Taxonomy Level/s:2 & 4)				

References

- 1. V.Sasikumar, P.Kiranmayi Dutt, Geetha Rajeevan. (2007). Listening and Speaking-Foundation Books Cunninhum, S. & Moor, P. (nd). New Cutting Hedge (Intermediate). Longman
- 2. Cambrdige Academic English: An Integrated Skills Course for EAP (Intermediate) By CraigThaine, CUP(2012)
- 3. Rutherford, Andrea J. (2007). Basic Communication Skills for Technology: Second Edition.Delhi:PearsonEducation.
- 4. McCarthy, M., O'Dell, F., Mark, G. (2005). EnglishVocabularyinUse. Spain: CambridgeUniversityPress.
- 5. New Headway Academic Skills: Reading, Writing, and Study Skills Student's Book, Level-1bySarahPhilpot.OUP
- 6. Philpot, S.& Curnick, L. (2017). Headway: Academic Skills: Reading, Writing, and StudySkills.IntroductoryLevel.OUP.
- 7. Thaine, C. (2012). Cambridge Academic English: An Integrated Skills for EAP. Intermediate. CUP.

OnlineReferences

- www.teachingenglish.org.uk
- learnenglishteens.britishcouncil.org

- https://eslflow.com/
- https://www.englishclub.com/
- https://www.oxfordlearnersdictionaries.com/
- https://dictionary.cambridge.org/
- learnenglishteens.britishcouncil.org
- https://freerice.com/categories/english-vocabulary

LANG1011: Communication Skills in English

L	T	P	S	J	C
0	0	4	0	0	2

Course Description:

CommunicationSkillsinEnglish(Intermediate)isthesecondofthethree

levelgradedcoursesforadevelopmentalenhancementofcommunicationskillsinEnglish. Basedonthele arningoutcomesset in the beginner level syllabus, this course focuses on giving learners more exposure to the useof language for communicative purposes and equip them with next level skills (ref. Bloom'staxonomy) and practice in terms of complexity and cognitive engagement. This course also includes inferential level of comprehension (listening and reading) that involves analysis and application of the language skills and decision-making skills while speaking/writing with anawareness for social and personality-based variations in communication. This course emphasizes guided writing through adequate tasks with pre post-context building. The focus is onstimulation and application of critical thinking in addition to schematic thinking for communication in real-life situations.

CourseObjectives

- Train learners to actively listen to short audio texts with familiar content; guided activitylike question-making and responding to others' questions based on the audio text wouldhelplearnersengageintransactionaldialogue; extended activities like extrapolating/critiquing theresponses would helplearnersen hance their schematic thinking. (Bloom's Taxonomy Level/s:2&4)
- Equip learners with strategies to read actively and critically and understand the writers'viewpoints and attitude by providing reading comprehension tasks using authentic textssuch as op-ed articles from newspapers, and reports on contemporary problems. (Bloom'sTaxonomyLevel/s:4&5)
- Helplearnersunderstandvariousaspectsandtechniquesofeffectivepresentations(group/indivi dual) through demonstration and modelling, and enabling them to develop their presentation skillsby providing trainingin using the tips and strategies given. Learners would be encouraged observe opinions teacherto and express on modelling.Reflectiononissueslikeanxiety, stagefear, confidence, and levels of familiarity with topic and audience would be addressed. Practice w ouldbegivenontone, pitch, clarity and otherspeech aspects. Detailed peer feedback and instructor's feedback would cover all thesignificantaspects.(Bloom's TaxonomyLevel/s:2&4)
- Enable learners to become aware of the structure and conventions of academic writingthroughreading, demonstration, scaffolding activities, and discussion. Corrective individual feedback would be given to the learners on their writing. (Bloom's TaxonomyLevel/s:2&3)

ListofTasksand Activities

S.No.	Tasks	Activities		
1	Listeningtosubjectrelatedshortdiscussions /explanations/speechforcomprehension	Pre-reading group discussion, Silent reading(Note-making), Modelling (questioning), Post-readingreflection/Presentation		
2	Askingforinformation:askingquestions related to the content, context maintaining modalities	Grouprole-playinacontext (i.e.Identifyingthe situationanddifferentrolesandenactingtheirrole s)		
3	Information transfer: Verbal to visual (familiarcontext), demonstration by teacher, learners' task(guidedwithscaffolding),learners'task(free), presentationandfeedback	Pairworkfordiscussion&feedback,Pr esentations,question-answer		
4	Informationtransfer: Visualtoverbal(unfamiliarcontext); demonstration by teacher, learners' task(guided with scaffolding),learners' task (free),presentationandfeedback	Pre-readinggame/modelling,discussioninsmallgroup s,individual writing,andfeedback		
5	Introducing officials to peers and vice versa - Formalcontext	AV support, noticing, individual performance (3-4), pair work (in context), teacher modelling,group workforIntroducingselfandothers ina formalcontext		
6	Introducing friends to family and vice versa - Informalcontext	Teachermodelling/AVsupport,noticingstructure & note-taking, Introducing friends andfamilyinaninformalcontext		
7	Vocabularyincontext:Findclues inatextandusethemtoguessthemeaningofwords/phr ases. Apply the newly learnt vocabulary incommunication(speakingandwriting)	Comprehending verbal communication:Identifying the contextual clues in oral andwritten texts; guessing the meaning ofwords/phrasesincontext whilereadingtextsandlisteningtodiscussions/talk s		
8	A five-day journal (diary) writing based onlearnersreadingfromnewspaperonasingler elevant/current social issue. Individual oralpresentationandfeedbackfrompeersand instructor.	Note- making(groupwork),Discussion,Feedba ck		
9	Follow the essentials of lectures, talks, discussions, reports and other forms of a cademic presentations and mak 2 individual and group presentations aided with images, audio, video, tabular data, etc.	Making power point presentation aided withimages, audio, video, etc. with a small group bylisteningtoacademiclectures/talks/discussions, etc.		
10	Self-reflection: Re-reading one's own drafts, identifying errors, correcting the errors, and giving rationalize the changes	Pre-taskdiscussion/modelling,Editingthetextsby careful reading and identifying the errors,peer-exchange(Pairwork), feedback/consolidation		

11	Collaborative work (speaking and writing) insmall groups of 3 or 4 learners: discussing ageneral/discipline-specifictopic:creatingoutline,assigning specific roles to members of the group;and grouppresentationfollowedbypeerand instructorfeedback	Pre- taskmodelling(peer/teacher),generaldiscu ssion on structure, group work(collaboration),feedback
12	Independent reading of different text types using appropriate references our cesby adapting suita blereading styles and speed. Focus on active reading for vocabulary: low-frequency collocations and idiomatic expressions.	Brain-storming, mapping of key terms (contentspecific), readingandnote-making(individual),oralquestioning,discussion
13	Role-play (specific social and academicsituations): planning (making notes), understandingnuances of speaking incont ext, coordinating with situational clues and fellow speakers/participants	Peer discussion for outline, A-V support, observing (teacher modelling), role play(guided), role-play(free), feedback
14	Writing instructions: Guidelines - Flowcharts - Procedurestobefollowed	Pre-taskreading,pairwork,teacher/peer-discussion,feedback
15	Speaking spontaneously on topics of interest andwritingshort structured essays onthesametopicsadopting appropriate academic conventions andgrammaticalaccuracy.	Reading for task preparation, note- making, speaking, reflection and corrective peer andteacherfeedback

CourseOutcomes

- Understandthespeaker'spointofviewinfairlyextendedtalksongeneralordiscipline-specifictopics, and follow simple lines of argument in discussions on familiar contemporary issues.(Bloom'sTaxonomyLevel/s:3)
- "Readanddemonstrateunderstandingofarticlesandreportsonlimitedrangeofcontemporaryissuesin whichthewritersadoptparticularstances. Alsoprovidesamplesofwrittencommunicationcontainingf airlycomplexinformationandreasonsforchoices/opinions/stances. (Bloom's Taxonomy Level/s:2&3)"
- Makeshortpresentationsonalimitedrangeofgeneraltopicsusingslides,andengageinsmallgroupdiscu ssionssharingexperiences/viewsonfamiliarcontemporaryissuesandgivereasonsforchoices/opinion s/plans.(Bloom's TaxonomyLevel/s:3&4)
- Writeclear, fairly detailed text (ashortessay) on a limited range of general topics, and subjects of interest, and communicate clearly through email/letter to seek/pass on information or givereasons for choices/opinions/plans/actions. (Bloom's Taxonomy Level/s:3)
- Reflectonothers'performance, givepeer feedbackonfellowlearners' presentations, responses to writing comprehension questions. (Bloom's Taxonomy Level/s: 5)

ReferenceBooks

- 1. P.KiranmayiDutt,GeethaRajeevan.(2007).BasicCommunicationSkills.FoundationBooks. CUP
- 2. Harmer, J. (1998). Howtoteach English. Longman
- 3. SanjayKumar & PushpLata. (2018). Communication Skills: A Workbook. OUP.
- 4. CambridgeIGCSE:EnglishasaSecondLanguageTeacher'sBookFourthEdition.ByPeterLuc antoni.CUP(2014).
- 5. CambrdigeAcademicEnglish:AnIntegratedSkillsCourseforEAP(UpperIntermediate)ByM artinHewings,CUP(2012)
- 6. Richards, J.C. and Bohlke, D. (2012). Four Corners-3. Cambridge: CUP.
- 7. HeadwayAcademicSkills:Reading,Writing,andStudySkillsStudent'sBook,Level-2bySarahPhilpot.OUP
- 8. Latham-Koenig, C. & Oxenden, C. (2014). American English File. Oxfor: OUP.
- 9. McCarthy, M.&O'Dell.F. (2016). Academic Vocabulary in Use. Cambridge: CUP

OnlineResources

- 1. https://www.grammarly.com/blog/
- 2. https://www.nationalgeographic.org/education/
- 3. https://www.bbc.co.uk/teach/skillswise/english/zjg4scw
- 4. https://www.englishclub.com/
- 5. https://www.oxfordlearnersdictionaries.com/
- 6. https://dictionary.cambridge.org/
- 7. learnenglishteens.britishcouncil.org
- 8. https://freerice.com/categories/english-vocabulary
- 9. http://www.5minuteenglish.com/
- 10. https://breakingnewsenglish.com/
- 11. https://www.digitalbook.io/
- 12. https://librivox.org/

LANG1021: Advanced Communication Skills in English

L	T	P	S	J	C	
0	0	4	0	0	2	

Course Description:

Communication Skills in English (Advanced) is the third of the three-level graded courses for adevelopmental enhancement of communication skills in English. Based on the learning outcomesset in the upper-intermediate syllabus, this course focuses on giving learners exposure to higherlevel of skills/input processing (ref. Bloom's taxonomy) and practice in terms of complexity andcognitive engagement. This course includes advanced level of comprehension i.e. anaytical, evaluative and extra-polative processing (listening and reading) and involves problem-solving,logicalreasoninganddecision-

makingskillsintermsofapplicationofthelearning(speaking/writing)withanawarenessforsocialandpe rsonalitybasedvariationsincommunication. This course provides opportunities with activity-based practice of advanced

oralandwrittencommunicativeskillsbesidesbuildingawarenessonthefinernuancesoflanguageusefor various purposes. This course emhasizes free writing through meaningfully engaging taskswith a pre and post context building. There is ample scope for application of critical thinkingthroughsimulatedactivitiesforeffective communication inreallife situations.

Course Objectives

- 1. Enablelearners to listen actively become aware of tone and attitude in speech, and demonstrate their comprehension of fairly complex lines of argument presented by avarietyofspeakersintalks/presentations/discussions. (Bloom'sTaxonomyLevel/s:2&4)
- 2. Enable learners to become aware of tone and attitude in written texts, and demonstrate their comprehension of fairly complex lines of argument and points of view presented in avarietyoftextsbyequippingthemwithupperintermediatetoadvancedlevelreadingskillsandst rategies.(Bloom'sTaxonomyLevel/s:2&3)
- 3. Make effective presentations, engage in formal group discussions, and write structuredessays/ short reports to highlight the significance of actions/decisions/experiences, and sustain views by providing relevant evidence and argument. (Bloom's Taxonomy Level/s:3&4)
- 4. Equip learners with the skills and strategies to communicate effectively in speech andwriting using the language with a degree of fluency, accuracy and spontaneity, and fairly good grammatical control adopting a level of formality appropriate to the context. Encourage learners to apply their knowledge of language andtheir communication skillsinreallife situations.(Bloom'sTaxonomyLevel/s:3&5)

List of Activities & Tasks for Assessment

S.No.	Tasks	Activities	СО
1	Evaluativeandextrapolativereadingofalongte xt/short texts on a current topic related totechnology and society, identifying andquestioning the author's intention, post-readingdiscussioninsmallgroups, maintaininggroupdynamics, arrivingatac onsensus	Pre-reading group discussion, silentreading(Note-making),modelling(questioning),post-readingreflectionand brief presentation ofthoughts/ideas/opinionsonthethemeo fthetext	
2	Debate in pairs based on listening to tworecordedcontemporaryspeechesbyw ell-known leaders in different fields. Peerfeedbackandinstructorfeedback.	Pre- recordedaudio/videoforlistening,student checklistfornoticing keywords/concepts, pre-task orientation(byteacher),pairwork,feedba ck	1
3	Information transfer: Verbal to visual(unfamiliar context); demonstration byteacher,learners' task(guidedwithscaffolding),learners'tas k(free),presentation,question-answer (among students),modificationandfeedbackbeforet hefinalversionisdone	Pairworkfordiscussionandfeedback,pres entations,question-answer	2
4	Information transfer: Visual to verbal(unfamiliarcontext);demonstration byteacher,learners' task(guidedwithscaffolding),learners' task(free),presentation,question-answer (among students),modification,editing,proofreading, andfeedbackbeforethefinalversionisdone	Pre-reading game/modelling,discussion in small groups,independentwritingandfeed back	4
5	Expressing opinion on a short argumentativetext(e.g. a journal article or a newspapereditorial) and justifying one's opinion/stance;focus ontheuseofappropriateconventionsofformala ndpolitespeech, and managingbias	Listeningtogroupdiscussions/debates,rea ding news-paper articles on thecurrent issues and expressing opinions favour or against the topic (in GDs,debates orwritingargumentative essays).	3
6	Role-play (complex social andacademic/professionalsituations):Focu sonsignificant aspects of delivery including clarity, tone, and use of contextually appropriate vocabulary and conventions, observation, reflective discussion, and self-reflective writing	Reading newspaper/magazinearticles/blog posts on current socialissues,listeningtotalks/discussions /debatesetc.andparticipating in role- plays usingexpressionsappropriatetotheconte xt.	1

7	Collaborative writing in groups of 3 -4 ontopics that would require data collection andreading followed by recorded peer-reflectionandpeer-feedback,group presentationand feedback	Pre-task modelling (peer), generaldiscussiononstructure,group work(collaboration), presentation, peerfeedback,Open-class discussion	5
8	FormalGroupDiscussionontopicsofcurrentin terest and relevance; focus on effectiveparticipation, reflection on control overargument/counter argument, and adherence to the conventions of ormalGD	Noticing strategies from AVmodeling,teacherscaffoldingthoug hopen-house discussion, Notemaking(Group work),Group Discussion (free),postperformancediscussion,Feedback	2
9	Mind-mappingforadvancedreading,making correlationsacrosstexts,extendingauthor'spo intof view	Readingtexts onabstracttopics and comprehendingtheauthor's perspectiveby inferring the unknown words'meaning in the context and makingnotes usingmind-map strategyand presentingitorally.	3
10	Handlingquestionandanswersessionsafter presentations: justifying arguments, takingcounter-arguments, agreeinganddisagreeingwithrationale	Listeningtosomelectures,talks,and presentations in the academic seminarsand adapting some strategies to handlethe Q&A sessions using polite andformalexpressionstoagreeordisagre e	1
11	Modellinganinterview:withapanel offourjudges(peers)	withthestatements. Pre-task activity fororientation/strateg ies (controlled/guided), Model interview(AV support), Group work (role play),interview in pair (one-to- one),Interviewingroup (many-to- one),oral correctivefeedback(peer/teacher)	2
12	Writing a short reflective report of an event - incident/meeting/celebration	Writing a report onmeetings/celebrations/eventsetc.b y actively involving in such events andgivingashortoralpresentation onthesame.	4
13	Speakingonabstractandcomplex topics beyondhis/herownareaofinterest/fieldofstu dy, using the language flexibly andeffectively.	Readingtextsonabstracttopicsand comprehending the author'sperspectives. Similarly, listening totalks and discussions on an abstracttopicofother disciplineandmaking short oralpresentationbysharingviewsa ndopinions.	3

14	Self-reflectiononownspeechin	Listeningtoselected general	1
	context(recorded): tone, pitch,	discussions (audios and videos)	
	relevance,content;extendingthereflections	andobserving the language	
	/ideastoothers	production.Recordingownspeechonsom	
		egeneraltopic and providing a critical review(self-	
		reflection)onitbyfocusingon	
		thetone, expressions and relevance of the	
		content,etc.	
15	Collaborativeandindividualtask:planning, preparing (preparing an outline, structure, setting objectives and presenting the plan ofaction) and executing a mini-project, and submitting abrief report on the same peer and instructor feedback after the planning stage and on completion of the miniproject	Pre-taskmodelling(peer/teacher), generaldiscussiononstructure, groupwork (collaboration), oral corrective,task distribution, presentation,feedback	5

CourseOutcomes

- Listentoextendedlectures, presentations, and discussions on a widerange of contemporary issue sanddemonstrate understanding of relatively complex lines of argument. (Bloom's Taxonomy Level/s:2)
- Make presentations using suitable AV aids and engage in formal group discussions on awiderangeoftopicsofcontemporaryinterest, demonstrating awareness of standard/widelyacc epted conventions. (Bloom's Taxonomy Level/s:3)
- Readanddemonstrateunderstandingofthewriter'sstance/viewpoint inarticlesandreportsonawiderangeofcontemporaryissuesanddisciplinespecificsubjects.(Bloom'sTaxonomyLevel/s:2&4)
- Write analytical essays on a wide range of general topics/subjects of interest, and engageinwrittencommunication(emails/concisereports)toexchangerelativelycomplexinfor mation, giving reasons in support of or against a particular stance/point of view.(Bloom'sTaxonomyLevel/s:3&4)
- Complete a mini project that necessitates the use of fairly advanced communication skillstoaccomplish a variety of tasks and submita reportin the givenformat. (Bloom'sTaxonomyLevel/s:4&5)

ReferenceBooks

- 1. Latham-Koenig, C.&Oxenden, C. (2014). American English File-5. Oxford: OUPRichards,
- 2. J.C.andBohlke, D. (2012). Four Corners-4. Cambridge: CUP.
- 3. CambrdigeAcademicEnglish:AnIntegratedSkillsCourseforEAP(Advanced)ByMartinHewingsandCraigThaine,CUP(2012)
- 4. Berlin, A. (2016). 50ConversationClasses:50SetsofConversationCardsWithanAccompanying Activity Sheet Containing Vocabulary, Idioms andGrammar.Poland:CreateSpace IndependentPublishingPlatform
- 5. Zemach, D. E., Islam, C. (2011). Writing Paragraphs: From Sentence toParagraph.Germany:MacmillanEducation.

- 6. Stewart, J. P., Fulop, D. (2019). Mastering the Art of Oral Presentations: Winning Orals, Speeches, and Stand-Up Presentations. United Kingdom: Wiley.
- 7. Kroehnert, Gary. (2010). Basic Presentation Skills. Sidney: McGraw Hill.
- 8. Cunninghum, S.& Moor, P.(nd). Cutting Edge (Advanced) With Phrase Builder. Longman Publishers. CUP
- 9. McCarthy, M&O'Dell,F. (2017).EnglishIdiomsinUse(Advanced).Cambridge:CUP.

OnlineResources

- 1. https://www.grammarly.com/blog/
- 2. https://www.nationalgeographic.org/education/
- 3. https://www.bbc.co.uk/teach/skillswise/english/zjg4scw
- 4. https://www.englishclub.com/
- 5. https://www.oxfordlearnersdictionaries.com/
- 6. https://dictionary.cambridge.org/
- 7. learnenglishteens.britishcouncil.org
- 8. https://freerice.com/categories/english-vocabulary
- 9. http://www.5minuteenglish.com/
- 10. https://breakingnewsenglish.com/
- 11. https://www.digitalbook.io/
- 12. https://librivox.org/

CLAD1001: EmotionalIntelligence & ReasoningSkills (SoftSkills1)

L	T	P	S	J	C
0	0	2	0	0	1

Course Description:

Emotional intelligence is a set of skills that are thought to contribute to the appraisal of emotions in oneself and others. It can also help contribute to the effective regulation of emotions as well as feelings (Salovey & Mayer, 1990). In terms of emotional intelligence, self-awareness and self-management have to do with our ability to relate to ourselves. Social awareness and relationship management have to do with our ability to relate to others. Similarly, the ability to solve questions on Analytical Reasoning and Data Sufficiency is a critical area tested in almost all competitive examinations and admission tests. Upon completion, students should be able (1) to deal with their own emotions as well as the emotions of others and relate better with both. Using better knowledge of EI, students will also be able to set more meaningful goals for themselves, choose suitable time management techniques that work best for them and work in teams more effectively. (2) to apply different concepts, ideas and methods to solve questions in reasoning and data sufficiency

Course Objectives:

- 1. Use EI to relate more effectively to themselves, their colleagues and to others. Apply self-awareness and self-assessment (SWOT) to better understand and manage their own emotions. Apply social awareness to empathize with others and build stronger relationships with others.
- 2. Set meaningful goals based on their strengths and weaknesses and apply time management techniques, such as Q4 organizing to put first things first.
- 3. Manage conflicts and work in teams in an emotionally intelligent manner.
- 4. Solve questions on non-verbal and analytical reasoning, data sufficiency and puzzles

Un it	Topics	Hou rs
1	SelfAwareness &SelfRegulation:Introduction to EmotionalIntelligence, Self Awareness: Self Motivation, Accurate Self Assessment (SWOTAnalysis),SelfRegulation:SelfControl,Trustworthiness&Adaptability	3
2	Importance, Practising Social Awareness, Building Relationships, HealthyandUnhealthyRelationships,RelationshipManagementCompetencies-Influence, Empathy, Communication, Types of Conflicts, Causes, ConflictManagement	3
3	Social Media: Creating ablog, use of messaging applications, creating a web site to show case individual talent, creation of a Linked In Profile	2

	Total Hours	30
9	SpatialReasoning:Shapes,PaperCutting/Folding,Mirrorimages,WaterimagesandRotationoffigures	2
8	LogicalDeduction:Venndiagrams,Syllogisms,DataSufficiency,Binarylogic	4
7	VerbalReasoning:Introduction,Coding-decoding,Bloodrelations, Ranking,Directions,GroupReasoning AnalyticalReasoning:CubesandDices, CountingofGeometricalfigures	3
5	Teamwork:TeamSpirit,DifferenceBetweenEffectiveandIneffectiveTeams,CharacteristicsofH ighPerformanceTeams,TeamBonding, Persuasion,TeamCulture,BuildingTrust,EmotionalBank Account	4
4	GoalSetting&TimeManagement:SettingSMARTGoals,TimeWasters,Prioritization,UrgentVs Important,Q2 Organization	3

Course Outcomes

- Studentswillbeabletorelatemoreeffectivelytothemselves, their colleagues and too thers
- Studentswillbeabletosettheir shorttermandlongtermgoalsandbetter managetheirtime
- Studentswillbeabletomanageconflicts inanemotionallyintelligentmannerandworkinteamseffectively
- Students will be able to solve questions based on non-verbal and analytical reasoning, datasufficiencyandpuzzle

References:

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

CLAD1011: Leadership Skills & QuantitativeAptitude (SoftSkills2)

Course Description:

L	T	P	S	J	C
0	0	2	0	0	1

Communication Skills is having the ability to convey information to others so that messages are understood and outcomes delivered. Some essential qualities of Communication Skills include understanding the needs of others, clearly communicating messages, adapting the communication style, and using a range of communication methods. Presentation Skills is having the ability to confidently deliver an engaging message to a group of people which achieves the objectives. Some essential qualities of Presentation Skills include a thorough preparation of content, structuring content logically, managing nerves, engaging your audience, delivering presentation objectives, positively influencing the audience, and responding to audience needs. Tackling questions based on numbers, arithmetic, data interpretation and puzzles requires the application of different rules and concepts of numerical computation, numerical estimation, and data estimation.

Course Objectives:

- 1. Learn and apply, through different individual and group activities, different ideas and skills to communicate in a positive and impressive manner.
- 2. Apply the goal setting process (based on SWOT) and Q2 organizing for effective time management.
- 3. Apply different concepts in numbers, numerical computation and numerical estimation to solve questions that often appear in various competitive examinations and admission tests.
- 4. Apply different concepts for tackling questions based on data interpretation, progression and series that are frequently given in various competitive examinations and admission tests.

Unit	Topics	Hours
1	Communication Skills: The Communication Process, Elements of InterpersonalCommunication, Non-Verbal Communication: Body Language, Posture, EyeContact, Smile, Tone of Voice, Barriers to Communication. Effective ListeningSkills: ActiveListening, PassiveListening, AskingQuestions, Empathizing, BeingNonJudgemental, Being OpenMinded, MassCommunication: DesignofPosters, Advertisements, notices, writing formal and informal invitations	5
2	Focus on Audience Needs, Focus on the Core Message, Use Body Language and Voice, Start Strongly, Organizing Ideas & Using Visual Aids: SPAMModel, Effective Opening and Closing Techniques, Guy Kawasaki's Rule (10-20-30 Rule), Overcoming Stage Fear, Story Telling	3
3	ProblemSolving&DecisionMaking:DifferenceBetweentheTwo,StepsinRationalApproach to Problem Solving: Defining the Problem, Identifying the Root Causes,GeneratingAlternativeSolutions,EvaluatingandSelectingSolutions,Implementing andFollowing-Up,CaseStudies	3

4	Group Discussion: Understanding GD, Evaluation Criteria, Nine Essential Qualities for	4
	Success, Positive and Negative Roles, Mind Mapping, Structuring a	
	Response, Methods of Generating Fresh I deas	
5	NumberTheory:NumberSystem,Divisibilityrules, RemaindersandLCM&HCF	3
6	NumericalComputationandEstimation-	6
	I:ChainRule,RatioProportions,Partnerships&Averages,Percentages,Profit-	
	Loss&Discounts,Mixtures,Problems	
	onNumbers&ages	
7	DataInterpretation:InterpretationandanalysisofdatainTables,Caselets, Line-	3
	graphs,Pie-graphs,Box-plots,Scatter-plotsandDataSufficiency	
8	MentalAbility:Series(Number,Letterand	3
	Alphanumeric), Analogy (Number, Letter and Alphanumeric) and Classifications	
	Total Hours	30

Course Outcomes

- Students will be able to communicate 'one-on-one' and 'one-on-many' confidently using bothverbal and non-verbal messages and deliver impressive talks/ presentations to a group bothwithandwithoutthe use of PPTs and create posters, advertisements, etc.
- Students will be able to apply the rational model of problem solving and decision making in their problems olving and decision making efforts.
- Students will be able to solve questions based on numbers and arithmetic given in variouscompetitive examinations
- Studentswillbeabletosolvequestionsbasedondatainterpretation, progressions and series.

References:

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

CLAD1021: Verbal Ability & Quantitative Ability (Soft Skills 3)

L T P S J C

Course Description:

Vocabulary is an important part of verbal ability. An understanding of word formation, prefixes, suffixes and roots is necessary to remember and use a vast repository of words. Approaching words through word families and other ways of groupings is an effective way of gaining mastery over vocabulary. Understanding and getting acquainted with the different rules and exceptions in the use of grammar and structure, especially from the relevant examination point of view, is crucial to cracking questions given in many competitive tests. Similarly, improving reading comprehension skills and test taking abilities in this area takes time and effort, especially given the fact that most students do not possess strong reading habits. In so far as quantitative aptitude is concerned, students need to develop a strong foundation on the basic mathematical concepts of numerical estimation, geometry, mensuration, data sufficiency, etc. to be able to crack different round 1 tests of major recruiters and admission tests of top Indian and foreign universities.

Course Objectives:

- 1. List and discuss the different word formation methods, word denotation, connotation, collocation, etc. and introduce selected high frequency words, their antonyms, synonyms, etc.
- 2. Apply different advanced reading skills to solve questions based on author's tone, main ideas and sub-ideas, inferences, parajumbles, etc. that are frequently asked in various competitive exams and admission tests.
- 3. Solve different types of questions based on vocabulary, such as word analogy; structure, grammar and verbal reasoning; introduce common errors and their detection and correction.
- 4. Solve questions on numerical estimation, mensuration, data sufficiency based on quantitative aptitude. This includes questions on time and work, time and distance, pipes and cisterns, lines and angles, triangles, quadrilaterals, polygons and circles, 2 & 3 dimensional mensuration.

Syllabus

- 1. **Vocabulary Builder:** Understanding Word Formation, Prefixes, Suffixes and Roots, Etymology, Word Denotation, Connotation and Collocation, Synonyms and Antonyms
- 2. **Reading Comprehension:** Advanced Reading Comprehension: Types of RC passages, Types of Text Structures, Types of RC Questions: Distinguishing Between Major Ideas and Sub Ideas, Identifying the Tone and Purpose of the Author, Reading Between the Lines and Beyond the Lines, Techniques for Answering Different Types of Questions
- 3. **Para Jumbles:** Coherence and Cohesion, Idea Organization Styles, Concept of Mandatory Pairs and Its Application: Transitional Words, Antecedent-Pronoun Reference, Article

Reference, Cause and Effect, Chronological Order, General to Specify, Specify to General, Idea-Example, Idea-Explanation, Etc.

- 4. **Grammar Usage:** Rules Governing the Usage of Nouns, Pronouns, Adjectives, Adverbs, Conjunctions, Prepositions and Articles
- 5. **Numerical Computation and Estimation II:** Time and Work, Pipes and Cisterns, Time and Distance, Problems on Trains, Boats and Streams, Races and Games of Skill, Simple Interest & Compound Interest
- 6. **Geometry:** Lines and Angles, Triangles, Quadrilaterals & Polygons, and Circles
- 7. **Mensuration:** 2-Dimensional Mensuration (Triangles, Quadrilaterals and Circles), 3-Dimensional Mensuration (Cubes, Cuboids, Cylinder, Cone, Sphere)

Course Outcomes:

- 1. List and discuss word formation methods, selected high frequency words, their antonyms, synonyms, etc.
- 2. Analyze reading passages and quickly find out the correct responses to questions asked, including para jumbles, by using reading skills like skimming, scanning, reading between the lines, etc.
- 3. Solve different types of questions based on vocabulary, structure, grammar and verbal reasoning
- 4. Solve questions on numerical estimation, mensuration, data sufficiency based on quantitative aptitude

References:

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

CLAD1031: Practicing Verbal Ability & Quantitative Aptitude (Soft Skills 4)

L	T	P	S	J	C
0	0	2	0	0	1

Course Description:

A sound knowledge of the rules of English grammar, structure and style and its application in detecting errors in writing are important areas of Verbal Ability frequently tested as a part of the written test in many competitive examinations and admission tests of major recruiters and universities respectively. This module focuses on all important areas of grammar and structure commonly asked in major tests, such as GMAT, CAT, XLRI, CRT, etc. Similarly, in the area of Quantitative Aptitude, different kinds of questions are asked from Combinatorics (Permutations & Combinations, Probability], Cryptarithmetic & Modular Arithmetic (Cryptarithmetic, Application of base system (7, 24), Clocks (Base 24), Calendars (Base 7), and Mental Ability (Number series, Letter series & Alpha numeric series, Analogies (Numbers, letters), Classifications, Algebra (Exponents, Logarithms, Problems related to Equations, Special Equations, and Statistics). This module focuses on all these areas by building on what the students already learnt in their earlier studies.

Course Objectives:

- 1. Apply the rules of grammar to solve questions in Error Detection, Sentence Correction and Sentence Improvement.
- 2. Apply the rules of structure to solve questions in Error Detection, Sentence Correction and Sentence Improvement, Fill-in-blanks and Cloze Passages
- 3. Explain methods of solving problems in Combinatorics (Permutations & Combinations, Probability], Cryptarithmetic & Modular Arithmetic (Cryptarithmetic, Application of base system (7, 24), Clocks (Base 24), Calendars (Base 7)
- 4. Explain how to solve questions in Mental Ability (Number series, Letter series & Alpha numeric series, Analogies, Numbers, letters, Classifications] and Algebra (Exponents, Logarithms, Problems related to Equations, Special Equations, Statistics)

Syllabus

- 1. Error Detection: Pronouns, Conjunctions, Prepositions and Articles
- 2. Error Detection: Tenses and their Uses
- 3. Sentence Correction: Subject-Verb Agreement, Antecedent-Pronoun Agreement, Conditional Clauses
- 4. Sentence Correction: Modifiers (Misplaced and Dangling) & Determiners, Parallelism & Word Order, and Degrees of Comparison
- 5. Combinatorics: Permutations & Combinations, Probability

- 6. Crypt arithmetic & Modular Arithmetic: Crypt arithmetic, Application of Base System (7, 24), Clocks (Base 24), Calendars (Base 7)
- 7. Algebra: Exponents, Logarithms, Word-problems related to equations, Special Equations, Progressions, Statistics

Course Outcomes:

- 1. Identify and correct errors in English grammar and sentence construction
- 2. Identify and correct errors in Structure, Style and Composition
- 3. Solve problems in Combinatorics, Cryptarithmetic, and Modular Arithmetic
- 4. Solve problems in Mental Ability and Algebra

References:

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

VEDC1001: Venture Development

L	T	P	S	J	C
0	0	0	2	0	2

CourseDescription

In this course, you will discover your deeper self in terms of how you might contribute to societyby creating exciting new products and services that can become the basis of a real business. Yourefforts, creativity, passion, and dedication to solving challenging problems are the future of oursociety, bothinyourcountryandworldwide.

Thecourseisdividedinto foursections:

- 1. Personaldiscoveryofyourcorevaluesandnaturalskills
- 2. Ideationand improving the impact
- 3. Business modeldesignfortheinnovation
- 4. Presenting yourideainaprofessionalmannersuitableforanewventurepitch

Each section has key frameworks and templates for yout occumplete, improving your ideast epbystep until the final presentation.

First, you will discover your personal values and emerging areas of knowledge that are thefoundations of any successful company. Next, you will learn how to develop insight into the problems and desires of different types of target customers and identify the design drivers for aspecific innovation. Then, you will learn specific design methods for new products and services. And as important as the product or service itself, it is a strategy for monetizing the innovation—generating revenue, structuring the operating costs, and creating the operating profit needed to support the business, hirenewemployees, and expand forward.

This project is intended to be for teams of students. Innovation and entrepreneurs hip are inherently teambased. This course will give you that entrepreneurial experience.

Thisisthebeginning of what might be the most important journey of personal and career discovery so far in your life, one with lasting impact. This is not just a course but potentially an important milestone in your life that your emberwarm ly in the years to come.

Course Objectives

Studentswillhave the opportunityto:

- Discoverywhoyouare –Values, Skills, andContributiontoSociety
- Understandhowcreativityworksandpermeatestheinnovationprocess
- Learnthebasic processes and frameworks for successful innovation.
- Gainexperienceinactuallygoing through the innovation process.
- Conductfieldresearchtotestorvalidateinnovationconceptswithtargetcustomers.

• Understand innovation outcomes: issues around business models, financing for startups,intellectualproperty,technologylicensing,corporateventures,andproductlineorservicee xtensions.

Syllabus

Expectations of you in the classroom: Each student is <u>expected</u> to be prepared to discuss thereadings/exercises assigned for each class. It's not optional! Students will be randomly asked todiscussandsummarizethematerial. Yourlearning—andyoursuccess—inthiscourseareheavilydependentuponyourwillingnesstoparticipateactivelyinclassdiscussion. Your classparticipationwillbeassessedonthequalityandconsistencyofyoureffortineachandeveryclass.

Lateassignments:Lateassignmentsaresubjecttogradepenalty.Latenesswillonlybeconsideredforgra dingifpriornotice was giventothe instructorbeforethe duedate.

Presentation: Achieving success with an innovative idea requires you to package and present theidea in a crisp, creative, and powerful manner. The activity of presenting helps you to internalizeyour idea -- as you talk about it and obtain feedback – and improve upon it. There would be twomajor presentations during the course, plus a series of other smaller unscheduled presentations ofworkinprogress or coursematerial. Prepare, practice, and succeed!

Timespentoutsideofclass: The course is hands-

onandrequiresstudentstoconductfieldresearchthroughdirect

interactionswithpeople(interviews/surveys)andonline/inthelibrary.Specifically,thecourserequirest hatstudentsconductstudieswithpotentialtargetusersandstakeholders.Youmust be prepared to go out of your comfort zone to dig for information. You will need to searchforinformationonlineandarrangetomeetortalktorelevantpeoplewhomayhavetheinformationy ouneed.

GroupProjectOverview

This is a semester length project and the cornerstone component of the course. The group projectwillgiveyoutheopportunityto applythecourseconcepts to arealsituation. You will learn about the entrepreneurship for your own business or your work in organizations. Even if you are not going to be an entrepreneur, you need to know how to identify the opportunities, who to persuade people, and how to create economic and so cial values in many different contexts.

<u>Talking to customers</u> is one of the most important steps in investigating your business becauseyourentrepreneurialvisionmust correspondtoatruemarketopportunity. Withyourgroup, select 5-6 potential customers willing to be interviewed. They should represent a cross-section of ourtargetmarketandshouldprovideinformationthathelpsyourefine youropportunity. This is not a simple survey: you are seeking in-depth understanding of the lifestyle and behaviors of your customer that can help you shape your opportunity. Please remember, you are not simply looking to confirm you have a great idea, but to shape your idea into a great opportunity. You willmaximize your chances for success and your ability to execute your business

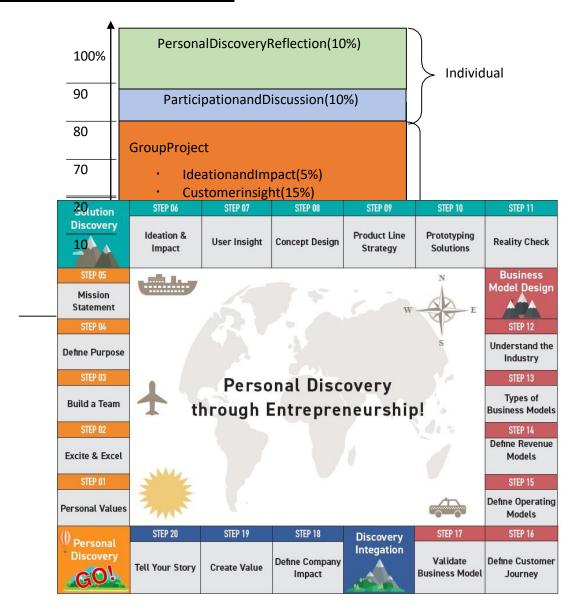
cost-effectively bymakingearly(ratherthanlater)changes toyourconcept.

<u>"Design"</u> is fun, particularly when you merge customer insight with your own creativity. Enjoy! Inthis book, we provide structured methods to be an active listener and learner from customers as well as a productor service designer.

<u>Business modeling</u> is not as hard as it might sound. This is the design of your business – how itcharges customers, what is spent producing and selling products or services, and the money that can be made for each unit sold. We keep it simple—so should you.

For the final outcome, you will be required to come up with Pitch that can used as the basis foractually starting a company based on an impactful innovation. Once again, we provide a specificformat and tools for creating a compelling Pitch. We also want you to think about an exciting proposition that is more than just making money, but rather, one that helps society. This will giveyou innovation and venture concept greater lift with customers – and it will also make you feelbetter, deepinside.

Project Components and Grading



[20Stepsand activities in this course]

Deliverables

There are a number or different deliverables for the course that follow the templates presented in the book, as applied to your own venture idea. Do your best to keep up with the timeline of the class; do not fall behind! Later templates build on the learnings from prior templates. Make themost of your team! Everyone needs to pitch in. In no case, should one person be taking the lead on all templates. Rather, different team members should take the lead on specific deliverables. Coordinatewell. Letyourteacherknowifateammemberisnotcarrying his orherload.

SpecificDeliverables

IdeationandImpactHand-inPackage:5% oftotalgrade

clearlywritten, with a one-page explanation for the team's decision

- Problemto SolveTemplates,Step4,Page 62and 63(with a page of additional explanation if needed)
- IdeaImpactTemplate,Step6, Page69(withapageofexplanation)

Customer Interviews and InsightHand-in Package: 15% (1st

RoundofCustomerInterviews)

- CustomerInterviewsTemplate,Step7,Pages75-78,plusaddadditionaltemplateformsforeachadditionalcustomerinterview.The more,the better.
- IdeaReshapingTemplate,Step7,Pages84and85.Integrationintooverallconclusions.Ho whaveyouimprovedyouroriginalideathroughcustomerresearch?
- LatentNeedsTemplate,Step7,Page93 whatarethefrustrationsofusersthatarenotsolvedbycurrentproductsorservices?
- FullUseCaseTemplate,Step7,Page99 howdoyoucustomers'needschangeoverthefullusecase,andwhat innovativeideascanyouproposeateachstepoftheway?

Concept Design(and Test) Hand-inPackage:15%

- Customer Value Proposition Template: Step 8, Page 107. This becomes the landing point for what you learned in your customer interviews.
- CompetitiveAnalysisTemplate:Step8,Page109.(UsetheWeboractualstores/dealers)
- ProductVisionandSubsystemDesignTemplates:Step10,Pages121and126(Youcanadd additionalpageswithdesignillustrationandexplanationsofyourbubblechart)
- Reality Check Survey Template and Results: Step 11, Page 141, 143-144(Youcanusemorethan2pagesforreportingthe results.)

BusinessModelDesignHand-inPackage:15%

- IndustryAnalysisTemplates:Step12,Pages153and 154
- Illustratethe BusinessModelTemplate:Step13,Page 170

(Usedifferent colours or line patterns to show the flows of product, money, and information)

- RevenueModelTemplate:Step 14,Page 177
- Operating ModelTemplate:Step15,Page 187
- Customer JourneyTemplate:Step 16,Page195
- Validating theBusinessModelTemplate:Step17,Pages199and 200

DiscoveryIntegrationHand-inPackage:20%

- BusinessandSocialVisionImpactStatementTemplate:Step18, Page210.
- PerUnitProfitabilityTemplate:Step19,Page229
- YourVentureStoryPitch: Step 20(PowerPoint)
- OverallPitchDesignTemplate: Page264



Assemblethetemplatesfrom allyourworkabove, plus any others that you found particularly meaningful, and from these, create your Team's Innovation Pitch. The book has lists specific templates that fit for each part of the final presentation.

Do not just regurgitate the templates in your pitch; rather, take the key points from themto create your own, unique presentation. The templates help you think — but most are toocomplextopresenttooutsidepeoplewhohavenottakenthecourse. Therefore, design this pitch as if you presenting to a new set of investors.

And don't forget to add an attractive title page with your team members names and emailaddresses! You can also add an Appendix at the very back with particularly interestinginformation, such as industry data or the results of your customer interviews and RealityCheck.

IndividualInnovationAssignments

You will be required to submit two Reflection Journals as well as a maximum two pages

doublespaced Synthesis, Integration and Application paper by email at the Week 4 and Week 14respectively. Pleasenote, this exercise is not about regurgitating the course concepts.

$1) \ \ Personal Discovery Reflection Journal (10\%)$

At the beginning of this semester, you will have a time to think about yourself (who youare, what you are good at, what areas you want to contribute on) using a couple oftemplates. After that sessions, you will have a quiet moment to think about yourself, yourcareer, and your happiness in your life. Please write 2-page reflectional journal what youfeelandlearningthroughthepersonal discoverysessions.

2) InsightLearningReflectionJournal(10%)

Attheend ofthissemester, you are to prepare a short reflection of impressives essions as well as related activities outside the classroom. Specially, (1) reflect on the key points from lectures, reading, discussion, guest speakers, and interviews, (2) apply this to your ownsituation, and (3) outline ways that you intend to use this knowledge in the future.

CourseSchedule

Week	Session	Topicsand Steps	KeyCONCEPTSIntroducedinClass	ClassFocusActivity
1	1	CourseO verview	 Whyisentrepreneurshipimportant? WhatisPersonalDiscoverythrough Entrepreneurship? Four Stages; Personal Discovery,SolutionDiscovery,Bus inessModelDiscovery,DiscoveryI ntegration Preparation(findinginterestingareas) 	LectureandDiscussion
	2	PersonalDisco very(Step01,St ep 02)	 Personal Values Strengthand Weakness 	Individual: · Workwiththetemplat esprovidedonpages: · Corevalues:22,23 · Skills:27,28,29,30,31 · SocietalContribution:33,34
2	3	FindTeamm ates(Step03)	 Review Problem Area Template at thebeginning of the book to findclassmates who want to work on thesameproblemarea. Find teammates Sharedvalues Levelsofcommitment Skillsandexperiences(Sameor Different?) 	Problemtemplate: Page9 Talk to your classmates andfind teammates. See whowantstoworkoninthes ameproblem space, with a sharedvisionofsolutions, a ndcomplementaryskillsets Sit back and assess: Teamtemplates on Pages 44, 45, and 46. Preparetopresent your team, the problem it is going totackle, and its collectives kills.

	4	DefinePu rpose(Ste p 04)Creat eMission(Step05)	 Methodsfordefiningandrefininga venture'spurpose DefiningaVenture'sPurpose CreatingaVisionStatement 	Team: Purpose and MissionTemplates:Page s49 and52 Bepreparetopresenttothe class. PersonalDiscoveryReflecti onJournalDue
3	5	Ideation &Impact(Ste p06)	IdeationMethods • Anin-classideationexercise	Team: • Problem to SolveTemplates,Step4 ,Page 62,and 63
	6	_	IncreasingtheImpactofanIdea. (The Eat-Your-Coffee Video – a goodexample ofideation)	Team: • IdeaImpactTemplate ,Step6,Page69
4	7	UserInsightsF rameworks(St ep07)	 Identifyandfindtherighttargetu sers. Interviewstyleandmethods TheCustomerInterviewt emplate. 	Team:
	8	Ladderingmethodsforinterviews	Team: • LatentNeedsTemplate ,Step7,Page93	
5	9 UserInsight sCustomerI nterviews(S tep07)	FindinglatentneedsFieldworkcheck-in	Team: LatentNeedsTemplate ,Step7,Page93 Fieldwork— customerinterviewin g	
		 Thinkaboutinnovationacrossthee ntire usecase Fieldworkcheck-in 	Team: FullUse Case Template,Step7,Page9 Fieldwork–customer interviewing	
6	11	UserInsightsI nterpretingR esults(Step07)	 Interpretingcustomerinterview results Fieldworkcheck-in 	Team: • Fieldwork— customerinterviewin g • Alsotalktoretail ers/dealersif appropriate
	12		 IdeaReshapingbasedonCustomerI nterviews Fieldworkcheck-in 	Teams prepare results ofresults from customerinterviews and how theoriginalideashavebe

				en reshaped&improved.
7	13	UserInsightsI nterpretingR esults (Step07)	 CustomerResearchReports Implicationsforproductandserviced 	 TeamspreparePPTsfor classpresentation CustomerInsight
	14	(Step07)	esign	Template Hand- inPackage
8	15	Concept Design(St ep08)	 DefiningCustomerValue UnderstandingCustomerVal ueProposition 	Team:
	16		PresentationandreviewofCVPs	Team: • CompleteCVP
9	17	CompetitiveA nalysis andPositionin	 UnderstandingofCompetitiveMatrix Competitivepositioning:creatin gyourseparatespace 	Team: Identify major competitors,anddimensi onsforanalysis Template:Step 8,Page109
	18	g(Step08)	 PresentationsofCompetiti veAnalysesand Positionings 	Team: Performthecompetitive analysisandpresentresult s,including positioning
	19	Product LineStrategy(Step09)	Productlineframework:good,better, best on underlying platforms, plusapplicationtoServices.	Team: Identifygood,better,be stvariations based on theunderlyingconcept. Productlinetemplate:Pag e115
10	ProductVisi oningSubsys temDesign, andPrototyp eSketch(Ste p10)		 Thestructured bubblechart, showing implementati on options and theteam's choices Prototypesketching (The Bluereo Video is a good example of iterative prototyping driven by customer discovery.) 	 Team: Prototype sketch, and forWeb apps, a wireframe.For physical products, aninitialbillofmaterial s. Underlyingbubblech artshowingyourdecis ionprocess. Product Vision andSubsystem

				DesignTemplates:Step1 0,Pages 121 and 126
11	21	Reality Check (Step11)	The purpose of the Reality Check,testingtheproduct concept,channelpreferences,and muchother.	Team: • Reality Check SurveyTemplate and Results: Step11,Page 141,143-144
	22		 Guidance on the number or additionalcustomers fortherealitychecksurvey Howtoanalyzeandinterpretthe results 	 Customize the RealityChecktemplat eforyourventure. Doaquickroundofcusto mersurveying.Aimfor1 2moreinterviews.
12	23	Industry Analysis (Step12)	 TeamreportsonRealityCheck Results Examinemajor componentsofanIndustryAnaly sis ReviewTemplates 	Team: Prepareand presenttheresults of your realitycheck,plusanypi votsyouwishtomake. ConceptDesign(and Test)Hand- inPackage Industry AnalysisTemplates:Ste p12,Pages 153 and 154s
	24	Business Model (Step13)	 DefiningtheBusinessModel: Lectureonbasic structureanddifferenttypes. Illustrating itastheflowofproduct,money,andi nformation. 	Team: • BusinessModelIllustrati onTemplate, Step 13, Page170

We ek Sess ion Topics and Steps • KeyCONCEPTSIntroducedinC lass	TeamorIndividualActivity
-----------------------------------------------------------------------------	---------------------------------

	25		RevenueandExpensesThe keydecisionpointsintheReven	Team Step14, Page177 Step15, Page187 Step16, Page195 Step17, Pages199 and 2
13	26	Business Model (Steps 14,15, 16,17)	ue Model The keydecisionpointsintheOperat ingModel DesigningtheCustomerJourney Validating the Business Model(The Polka Dog Bakery Video: anexample of creating a new retailexperience,plusnewproducts.)	• Validate the Revenue andOperatingModelbytryi ngto have phone calls with afew Sellers andManufacturersto validating pricing,channels,an dcosts.
14	27	Impact Visioning (Step18)	 Developclearstatementsforbusinessan dsocietalimpact. Look at good existing examples ofcompaniesthatdoboth. 	Team: Startintegratingyourrese arch and templatestowards the finalpresentation,provid edinStep20,Page264 BusinessModelDesign Hand-inPackage
	28	Creating Value (Step19)	 Develop a project of the profitabilityin make low volumes for a product, aservice, and a Webapp. Discuss applications of the framework to your ventur e. 	Team: Develop and present Unitof 1 Economics Template,Step19,Page229 Keep working onthe Finalpresentation

We ek	Sess ion	Topics andSteps		KeyCONCEPTSIntroducedinC lass	TeamorIndividualActivity
			•	PresentationFormatandStyle	Team:
					 ThePPT Presentation
			•	Format:	
				(1) TitleSlidewithnamesandco	
	29			ntactinformation	
				(2) The Target Customer and the Pr	
				oblemtobeSolved	
				(3) TheMarketOpportunity	
				(4) The InnovationStory	

15		Tell YourStor y	 (5) TheBusiness ModelStory (6) TheCustomer Journey (7) The Team (8) TheProposedActionSteps. (9) Appendices (if needed ordesired) 	1. The target customer & problem focus story 7. Action steps 6. The customer Story 5. The customer Journey Story
	30		If you have built a prototypeduringtheclass,please bring itandshowittous! (The Fortify Video is a goodexampleofhowagoodtechnic alidea can translate into a businessmodel, andnext,intoawell-fundedventure.)	Practice, practice, practice! Not too many wordsononeslide Usepictures Use templatetodevelopyou rthinking,but try to create slidesthat arenotjust thetemplates.
Final CourseDeliv erables		seDeliv	Dueonthe Mondayafterthe weekendofthefinalclassmeeting.	Team:YourVenturePPTs Individual:InsightLearning ReflectionJournal

Course Outcomes

- 1. Identify one's values, passions, skills and their will to contribute to society
- 2. Formulate an idea and validate it with customers
- 3. Demonstrate prototyping and analyze the competition for the product
- 4. Create business models for revenue generation and sustainability of their business
- 5. Come up with a pitch that can used as the basis for actually starting a company based on an impactful innovation and societal impact

References:

- MeyerandLee(2020),PersonalDiscoverythroughEntrepreneurship,TheInstituteforEnterprise Growth,LLC.Boston,MA.,USA
- Additional readings: Additional videos, including cases tudies and customer interviewing methods.

DOSP1001: Badminton

L	T	P	S	J	C
0	0	0	2	0	2*

CourseDescription

This course provides instruction and the opportunity for participation in sports and physical fitness activities. Skills, strategies, rules, and personal wellness goals are included as appropriate. This course will provide students with an understanding of the fundamental concepts of the physiological functions and training principles associated with the chosen sport.

Course Objectives:

- 1. Understand training principles used in the sport
- 2. Demonstrate knowledge of the game in a recreational /competitive play setting
- **3.** Organize an event around the sport
- **4.** Demonstrate concepts of warm up, game conditioning, training plans

List of Activities:

- 1. Watch a sport documentary / training video / game history
- 2. On field coaching and demonstration session
- 3. Guided practice and play
- 4. Event management & game officiating
- 5. Friendly competitions and structured matches

Instructional Plan:

- 1. Introduction to Badminton History and development
- 2. Rules of the Game, Play Area & dimensions
- 3. Fundamental Skills Badminton: Grips Racket, shuttle
- 4. Sports Specific fitness and warmup drills
- 5. Stances and footwork
- 6. Badminton Gameplay: Service, Forehand, Backhand
- 7. Preparatory Drills and Fun Games
- 8. Game Variations: Singles/ Doubles/ Mixed

Course Outcomes:

- 1. earn to play Badminton
- 2. Understanding of the fundamental concepts such asrules of play, game variations
- 3. Understanding of the governing structure and administration of the sport
- 4. Understand the event management of the sport
- 5. Apply sport concepts into anactive physical lifestyle

Reference:

1. Handbook of the Badminton World Federation (BWF)

L T P S J C 0 0 0 2 0 2

DOSP1011: Chess

CourseDescription

This course provides instruction and the opportunity for participation in sports and physical fitness activities. Skills, strategies, rules, and personal wellness goals are included as appropriate. This course will provide students with an understanding of the fundamental concepts of the physiological functions and training principles associated with the chosen sport.

Course Objectives:

- 1. Understand training principles used in the sport
- 2. Demonstrate knowledge of the game in a recreational /competitive play setting
- 3. Organize an event around the sport
- 4. Demonstrate concepts of warm-up, game conditioning, training plans

List of Activities:

- 1. Watch a sport documentary / training video / game history
- 2. On field coaching and demonstration session
- 3. Guided practice and play
- 4. Event management & game officiating
- 5. Friendly competitions and structured matches

Instructional Plan:

- 1. Introduction to Chess History and development
- 2. Rules of the Game, Play Area & dimensions
- 3. Fundamental Skills Chess: Pieces & functions, basic play
- 4. Chess board moves & terminology
- 5. Chess Gameplay: Openings, castling, strategies & tactics
- 6. Preparatory Drills and Fun Games
- 7. Game Variations & Officiating

Course Outcomes:

- 1. Learn to play Chess
- 2. Understanding of the fundamental concepts such asrules of play, game variations
- 3. Understanding of the governing structure and administration of the sport
- 4. Understand the event management of the sport
- 5. Apply sport concepts into anactive physical lifestyle

Reference:

1. International Chess Federation (FIDE) Handbook

L T P S J C 0 0 0 2 0 2

DOSP1031: Football

CourseDescription

This course provides instruction and the opportunity for participation in sports and physical fitness activities. Skills, strategies, rules, and personal wellness goals are included as appropriate. This course will provide students with an understanding of the fundamental concepts of the physiological functions and training principles associated with the chosen sport.

Course Objectives:

- 1. Understand training principles used in the sport
- 2. Demonstrate knowledge of the game in a recreational /competitive play setting
- 3. Organize an event around the sport
- 4. Demonstrate concepts of warm up, game conditioning, training plans

List of Activities:

- 1. Watch a sport documentary / training video / game history
- 2. On field coaching and demonstration session
- 3. Guided practice and play
- 4. Event management & game officiating
- 5. Friendly competitions and structured matches

Instructional Plan:

- 1. Introduction to Football History and development
- 2. Rules of the Game, Play Area & dimensions
- 3. Fundamental Skills Kicking, heading, ball control, Keeping
- 4. Movement, throwins, tackling, defense, scoring, defense
- 5. Gameplay- Formations, passing, FKs, CKs, PK, tactics
- 6. Preparatory Drills and Fun Games
- 7. Game Variations: Small sided games, 7v7, 11v11

Course Outcomes:

- 1. Learn to play Football
- 2. Understanding of the fundamental concepts such asrules of play, game variations
- 3. Understanding of the governing structure and administration of the sport
- 4. Understand the event management of the sport
- 5. Apply sport concepts into anactive physical lifestyle

Reference:

1. FIFA Laws of the Game

L	T	P	S	J	C
0	0	0	2	0	2*

CourseDescription

This course provides instruction and the opportunity for participation in sports and physical fitness activities. Skills, strategies, rules, and personal wellness goals are included as appropriate. This course will provide students with an understanding of the fundamental concepts of the physiological functions and training principles associated with the chosen sport.

Course Objectives:

- 1. Understand training principles used in the sport
- 2. Demonstrate knowledge of the game in a recreational /competitive play setting
- 3. Organize an event around the sport
- 4. Demonstrate concepts of warm up, game conditioning, training plans

List of Activities:

- 1. Watch a sport documentary / training video / game history
- 2. On field coaching and demonstration session
- 3. Guided practice and play
- 4. Event management & game officiating
- 5. Friendly competitions and structured matches

Instructional Plan:

- 1. Introduction to Volley History and development
- 2. Rules of the Game, Play Area & dimensions
- 3. Fundamental Skills Striking, Ball control, Lifting
- 4. Sports Specific fitness and warmup drills
- 5. Stances and footwork
- 6. Preparatory Drills and Fun Games
- 7. Gameplay: Jumps, strikes, layoffs, attack, defense

Course Outcomes:

- 1. Learn to play Volleyball
- 2. Understanding of the fundamental concepts such asrules of play, game variations

- 3. Understanding of the governing structure and administration of the sport
- 4. Understand the event management of the sport
- 5. Apply sport concepts into anactive physical lifestyle

Reference:

1. FIVB - Official Volleyball Rules

DOSP1051: Kabaddi

L	T	P	S	J	C
0	0	0	2	0	2*

CourseDescription

This course provides instruction and the opportunity for participation in sports and physical fitness activities. Skills, strategies, rules, and personal wellness goals are included as appropriate. This course will provide students with an understanding of the fundamental concepts of the physiological functions and training principles associated with the chosen sport.

Course Objectives:

- 1. Understand training principles used in the sport
- 2. Demonstrate knowledge of the game in a recreational /competitive play setting
- 3. Organize an event around the sport
- 4. Demonstrate concepts of warm up, game conditioning, training plans

List of Activities:

- 1. Watch a sport documentary / training video / game history
- 2. On field coaching and demonstration session
- 3. Guided practice and play
- 4. Event management & game officiating
- 5. Friendly competitions and structured matches

Instructional Plan:

- 1. Introduction to Kabaddi History and development
- 2. Rules of the Game, Play Area & dimensions
- 3. Fundamental Skills Raiding, catching
- 4. Sports Specific fitness and warmup drills
- 5. Stances and footwork
- 6. Preparatory Drills and Fun Games
- 7. Gameplay: Chain system movement

Course Outcomes:

- 1. Learn to play Kabaddi
- 2. Understanding of the fundamental concepts such asrules of play, game variations

- 3. Understanding of the governing structure and administration of the sport
- 4. Understand the event management of the sport
- 5. Apply sport concepts into anactive physical lifestyle

Reference:

- 1. Amateur Kabaddi Federation of India (AKFI) Official Rules
- 2. Rules of Kabaddi International Kabaddi Federation

DOSP1091: Basketball

L	T	P	S	J	С
0	0	0	2	0	2*

CourseDescription

This course provides instruction and the opportunity for participation in sports and physical fitness activities. Skills, strategies, rules, and personal wellness goals are included as appropriate. This course will provide students with an understanding of the fundamental concepts of the physiological functions and training principles associated with the chosen sport.

Course Objectives:

- 1. Understand training principles used in the sport
- 2. Demonstrate knowledge of the game in a recreational /competitive play setting
- 3. Organize an event around the sport
- 4. Demonstrate concepts of warm up, game conditioning, training plans

List of Activities:

- 1. Watch a sport documentary / training video / game history
- 2. On field coaching and demonstration session
- 3. Guided practice and play
- 4. Event management & game officiating
- 5. Friendly competitions and structured matches

Instructional Plan:

- 1. Introduction to Basketball History and development
- 2. Rules of the Game, Play Area & dimensions
- 3. Fundamental Skills Passing, Receiving, Dribbling
- 4. Sports Specific fitness and warmup drills
- 5. Stances and footwork: Jumps, dribbles, catching, throws
- 6. Preparatory Drills and Fun Games
- 7. Gameplay: Shots, throws, movements, attack, defence

Course Outcomes:

- 1. Learn to play Basketball
- 2. Understanding of the fundamental concepts such as rules of play, game variations
- 3. Understanding of the governing structure and administration of the sport
- 4. Understand the event management of the sport
- 5. Apply sport concepts into an active physical lifestyle

Reference:

1. FIBA Basketball Official Rules

DOSP1111: Throwball

L	T	P	S	J	C
0	0	0	2	0	2*

Course Description

This course provides instruction and the opportunity for participation in sports and physical fitness activities. Skills, strategies, rules, and personal wellness goals are included as appropriate. This course will provide students with an understanding of the fundamental concepts of the physiological functions and training principles associated with the chosen sport.

Course Objectives:

- 1. Understand training principles used in the sport
- 2. Demonstrate knowledge of the game in a recreational /competitive play setting
- 3. Organize an event around the sport
- 4. Demonstrate concepts of warm up, game conditioning, training plans

List of Activities:

- 1. Watch a sport documentary / training video / game history
- 2. On field coaching and demonstration session
- 3. Guided practice and play
- 4. Event management & game officiating
- 5. Friendly competitions and structured matches

Instructional Plan:

- 1. Introduction to Throwball History and development
- 2. Rules of the Game, Play Area & dimensions
- 3. Fundamental Skills Throwing, Receiving
- 4. Sports Specific fitness and warmup drills
- 5. Stances and footwork
- 6. Preparatory Drills and Fun Games
- 7. Gameplay: Shots, throws, movements, control

Course Outcomes:

- 1. Learn to play Throwball
- 2. Understanding of the fundamental concepts such asrules of play, game variations
- 3. Understanding of the governing structure and administration of the sport

- 4. Understand the event management of the sport
- 5. Apply sport concepts into anactive physical lifestyle

Reference:

1. World Throwball Federation - Rules of the Game

DOSL1001: ClubActivity-Participant

L	T	P	S	J	C
0	0	0	2	0	2*

Course Description

This course recognizes student participation in multiple activities organized by various studentorganizations that pursue specific co-curricular and extra-curricular interests. These activities allows tudents to engage in an didentify and pursue their personal interests and hobbies.

CourseObjectives

- Createopportunities for students to participate in a variety of non-academic experiences
- Interact with and learn from peers in a setting without an external performance pressure
- Allowexplorationofinterestingactivities and reflection about these experiences
- Learntomanagetimeeffectively

ListofStudentClubActivities

- 1. Music(vocals,instruments,technical,recording,mixing,production,management)
- 2. Dance(Indianclassical, western, jazz, latin, contemporary, folk, production, eventmanagement)
- 3. Theatre(classical, experimental, one-act, street, production, direction, casting, etc.)
- 4. Arts(finearts, painting, calligraphy, sketching, caricaturing, etc)
- 5. Craft (origami, modelmaking, sculpture, pottery, etc)
- 6. Cooking(home-style,baking,confectionery,Indian,intercontinental,etc.)
- 7. Graffiti(street,mural,collage,multimedia etc)
- 8. Workshops, quizzes, debates, elocution, etc
- 9. Filmmaking(adventure,drama,filmappreciation,documentary,etc)
- 10. Photography(conventional,immersive(360),landscape,portrait,technical,editing,etc.)
- 11. College Fests
- 12. Designing(graphicdesign,landscape,interior,etc)
- 13. Competitive coding
- 14. Recreationalsportsactivities
- 15. Otherclubactivitiesorganizedbystudentclubs

ListofActivities

- 1. Participationinvarious clubbased activities
- 2. Weeklyreflectionpaper
- 3. Portfolio(onsocialmediausinganinstagramaccount)
- 4. Twolearningpapers(oneper semester)

TextBooks

- 1. Smallmove:bigChange(Caroline Arnold)
- 2. Howto WinatCollege: SurprisingSecretsforSuccessfromtheCountry'sTop Students(CalNewport)

References

- 1. Makingthemost of college: Students speak their minds (author-Richard Light)
- 2. FailingForward:TurningMistakesintoSteppingStonesforSuccess(JohnCMaxwell)
- 3. TheLastLecture(RandyPausch)
- 4. Leanin(SherylSandberg)
- 5. Youtube- Introductiontovarious clubactivities

CourseOutcomes

Uponsuccessfulcompletion of the course, student will be able to

- Identifypersonalinterestareas
- Learnfromdiverseperspectivesandexperiences
- Gainexposuretovariousactivities and opportunities for extra-curicular activities
- Learntomanagetimeeffectively
- gainconfidence

DOSL1011: ClubActivity – Member of the Club

L T P S J C 0 0 0 2 0 2

Course Description

This course encourages and acknowledges studentmembers' work in organizing events and activities organized by various student organizations that pursue specific co-curricular and extracurricular interests. These activities allow students to actively learn from the process of conceptualizing and organizing such activities as partofateam.

Course Objectives

- Createopportunities for students to learn from organizing clubactivities
- Learnteamwork,leadership, planningandmanagementofeventsandactivities
- Learntoappreciatemultipleperspectives, cultures, and individual capabilities
- Learntomanagetimeeffectively

ListofStudentClub Activities

- 1. Music(vocals,instruments,technical,recording,mixing,production,management)
- 2. Dance(Indianclassical,western,jazz, latin,contemporary,folk,production,eventmanagement)
- 3. Theatre(classical, experimental, one-act, street, production, direction, casting, etc.)
- 4. Arts(finearts, painting, calligraphy, sketching, caricaturing, etc)
- 5. Craft (origami, modelmaking, sculpture, pottery, etc)
- 6. Cooking(home-style,baking,confectionery,Indian,intercontinental,etc.)
- 7. Graffiti(street,mural,collage,multimedia, etc)
- 8. Workshops, quizzes, debates, elocution, etc
- 9. Filmmaking(adventure,drama,filmappreciation,documentary,etc)
- 10. Photography(conventional,immersive(360),landscape,portrait,technical,editing,etc.)
- 11. College Fests
- 12. Designing(graphicdesign,landscape,interior,etc)
- 13. Competitive coding
- 14. Recreationalsportsactivities
- 15. Otherclubactivitiesorganizedbystudentclubs

ListofActivities

- 1. Beamemberofaclubandorganizeactivitiesin thatparticularinterestarea
- 2. Learnfromdiverseperspectivesandexperiences
- 3. Learnto designand executeextra-curricular activities
- 4. Develop managementskillsthroughhands-onexperience

5. Exploredifferent managerial roles and develop competencies

CourseOutcomes

Uponsuccessfulcompletionofthecourse, the studentwillbe able to

- Beamemberofaclubandorganizeactivities inthatparticularinterestarea
- Learnfromdiverseperspectives and experiences
- Learnto designand executeextra curicular activities
- Develop managementskillsthrough ands-onexperience
- Exploredifferent managerial roles and develop competencies

Text Books

- 1. Smallmove:bigChange(Caroline Arnold)
- 2. How to Win at College: Surprising Secrets for Success from the Country's Top Students(CalNewport)

References

- 1. Makingthemost of college: Students speak their minds (author-Richard Light)
- 2. FailingForward:TurningMistakesintoSteppingStonesforSuccess(JohnCMaxwell)
- 3. TheLastLecture(RandyPausch)
- 4. Leanin(SherylSandberg)
- 5. Youtube- Introductiontovarious clubactivities

DOSL1021: ClubActivity-LeaderoftheClub

Course Description

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Thiscourseencouragesandrecognizesstudentmembers'workinleadingthestudentorganizationsthrou ghvariousleadershiproles. Asleaderstheyworknotjusttoorganizeeventsandactivitiesinspecific cocurricular and extra-curricular interests, but also lead the teams that form the coremembers of the clubs. These activities allowstudents tolearn and practice leadership and managements kills through real world experience.

Course Objectives

- Createopportunities for students to learn from organizing clubactivities
- Learnteamwork, leadership, planning and management of events and activities
- Learntoappreciatemultipleperspectives, cultures, and individual capabilities
- Learntomanagetimeeffectively

ListofStudentClub Activities

- 1. Music(vocals, instruments, technical, recording, mixing, production, management)
- 2. Dance(Indianclassical,western,jazz, latin,contemporary,folk,production,eventmanagement)
- 3. Theatre(classical, experimental, one-act, street, production, direction, casting, etc.)
- 4. Arts(finearts, painting, calligraphy, sketching, caricaturing, etc)
- 5. Craft (origami, modelmaking, sculpture, pottery, etc)
- 6. Cooking(home-style,baking,confectionery,Indian,intercontinental,etc.)
- 7. Graffiti(street,mural,collage,multimedia,etc)
- 8. Workshops, quizzes, debates, elocution, etc
- 9. Filmmaking(adventure,drama,filmappreciation,documentary,etc)
- 10. Photography(conventional,immersive(360),landscape,portrait,technical,editing,etc.)
- 11. College Fests
- 12. Designing(graphicdesign,landscape,interior,etc)
- 13. Competitive coding
- 14. Recreationalsportsactivities
- 15. Otherclubactivitiesorganizedbystudentclubs

ListofActivities

- 1. Betheleader of the club and implement the charter, vision and mission of the club
- 2. Learnfromdiverseperspectivesandexperiences
- 3. Learntoleadtheteam, designandexecuteextra-curicular activities
- 4. Develop managementskillsthroughhandsonexperience
- 5. Exploredifferentmanagerialrolesanddevelopcompetencies

Text Books

- 1. Smallmove:bigChange(CarolineArnold)
- 2. Howto WinatCollege: SurprisingSecretsforSuccessfromtheCountry'sTop Students(CalNewport)

References

- 1. Makingthemost of college: Students speak their minds (author-Richard Light)
- 2. FailingForward:TurningMistakesintoSteppingStonesforSuccess(JohnCMaxwell)
- 3. TheLastLecture(RandyPausch)
- 4. Leanin(SherylSandberg)
- 5. Youtube- Introductiontovarious clubactivities

CourseOutcomes

Uponsuccessfulcompletionofthecourse, students will be able to

- Betheleader oftheclubandimplementthecharter, visionandmission of the club
- Learnfromdiverseperspectivesandexperiences
- Learntoleadtheteam, designandexecuteextra-curricular activities
- Developmanagementskillsthroughhandsonexperience
- Exploredifferentmanagerialrolesanddevelopcompetencies

DOSL1031: Club Activity–Competitor

Course Description:

L	T	P	S	J	C
0	0	0	2	0	2*

Thiscourseencouragesandrecognizesstudentmembers'workinleadingthestudentorganizationsthrou ghvariousleadershiproles. Asleaderstheyworknotjusttoorganizeeventsandactivitiesinspecific cocurricular and extra-curricular interests, but also lead the teams that form the coremembers of theclubs. These activities allows tudents to learn and practice leadership and managements kills through real world experience.

Course Objectives

- Createopportunities for students to learn from organizing clubactivities
- Learnteamwork, leadership, planningandmanagementofeventsandactivities
- Learntoappreciatemultipleperspectives, cultures, and individual capabilities
- Learntomanagetimeeffectively

ListofStudentClub Activities

- 1. Music(vocals,instruments,technical,recording,mixing,production,management)
- 2. Dance(Indianclassical,western,jazz, latin,contemporary,folk,production,eventmanagement)
- 3. Theatre(classical, experimental, one-act, street, production, direction, casting, etc.)
- 4. Arts(finearts, painting, calligraphy, sketching, caricaturing, etc)
- 5. Craft (origami, modelmaking, sculpture, pottery, etc)
- 6. Cooking(home-style,baking,confectionery,Indian,intercontinental,etc.)
- 7. Graffiti(street,mural,collage,multimedia,etc)
- 8. Workshops, quizzes, debates, elocution, etc
- 9. Filmmaking(adventure,drama,filmappreciation,documentary,etc)
- 10. Photography(conventional, immersive (360), landscape, portrait, technical, editing, etc.)
- 11. College Fests
- 12. Designing(graphicdesign,landscape,interior,etc)
- 13. Competitive coding
- 14. Recreationalsportsactivities
- 15. Otherclubactivitiesorganizedbystudentclubs

ListofActivities

- 1. Betheleader oftheclubandimplementthecharter, visionandmission of the club
- 2. Learnfromdiverseperspectives and experiences
- 3. Learntoleadtheteam, designandexecuteextra-curicular activities
- 4. Develop managementskillsthroughhandsonexperience

5. Exploredifferent managerial roles and develop competencies

CourseOutcomes

Uponsuccessfulcompletion of the course, student will be able to

- Betheleader oftheclubandimplementthecharter, visionand mission of the club
- Learnfromdiverse perspectives and experiences
- Learntoleadtheteam, designandexecuteextra-curricular activities
- Develop managementskillsthroughhandsonexperience
- Exploredifferent managerial roles and develop competencies

Text Books

- 1. Smallmove:bigChange(Caroline Arnold)
- 2. Howto WinatCollege: SurprisingSecretsforSuccessfromtheCountry'sTop Students(CalNewport)

References

- 1. Makingthe mostofcollege:Studentsspeaktheir minds(author-RichardLight)
- 2. FailingForward:TurningMistakesintoSteppingStonesforSuccess(JohnCMaxwell)
- 3. TheLastLecture(RandyPausch)
- 4. Leanin(SherylSandberg)
- 5. Youtube- Introductiontovarious clubactivities

POLS1001: Indian Constitution and History

L	T	P	S	J	C
2	0	0	0	0	2*

Course Description:

This course analyzes the basic structure and operative dimensions of the Indian Constitution. It explores various aspects of the Indian political and legal system from a historical perspective highlighting the various events that led to the making of the Indian Constitution. The course also deals with various challenges faced by the constitution and its coping mechanisms. Broadly, the students would understand and explain the working of different institutions and political debates ensuing from the operation of the Indian constitution in action.

Course Objectives:

- 1. To introduce constitutional history of India.
- 2. To explain the process of making Indian constitution
- 3. To analyze Fundamental of Rights, Duties and other principles in constitution
- 4. To create familiarity with political developments which shaped the constitution.

Course Outcomes:

On the successful completion of the course students would be able to:

- 1.Demonstrate an understanding of the Constitution of India and how constitutional governance is carried out in India
- 2.Interpret knowledge of the Fundamental Rights and Duties of the Citizens as well as the Obligation of the state towards its citizens
- 3. Correlate familiarity with key political developments that have shaped the Constitution and amended it from time to time.
- 4. Equip themselves to take up other courses in law after having done a foundation course on Indian Constitution

Unit I: India as a Nation

6 hrs

Khilani, S. (2004). Introduction, The Idea of India, Chapter 1. New Delhi: Penguin Books, pp. 1-15. Rowat, D. (1950). 'India: The Making of a Nation', International Journal, 5(2), 95-108. doi:10.2307/40194264

Brass, P. (2018). 'Continuities and Discontinuities between pre- and post-Independence India', Chapter 1. The Politics of Idea since independence, New Delhi: Cambridge University Press. pp. 1-30.

Module Learning Outcomes

- 1. Understand ideas of India
- 2. Explain the story behind making constitution and its future.
- 3. Articulate the differences between pre and post-colonial governments.

Unit 2: Understanding the Constitution

6 hrs

Mehta, U.S. (2011). 'Constitutionalism' in The Oxford Companion to Politics in India, (ed) by Nirja Gopal Jayal, and Pratap Bhanu Mehta, New Delhi: Oxford University Press. pp. 15-27.

Austin, G. (2016), 'The Constituent Assembly: Microcosm in Action' in The Indian Constitution: Cornerstone of a Nation, New Delhi: Oxford University Press, pp. 1-25.

Beteille, Andre (2008): "Constitutional Morality," Economic and Political Weekly, Vol 43, Issue No 40

Prahladan, Vivek (2012): "Emergence of the Indian Constitution," Economic and Political Weekly, Vol 47, Issue No 07.

Module Learning Outcomes

Understand the concept of constitutionalism. Demonstrate strength or weakness of constitutional morality in India

Evaluate constituent assembly debates in framing Indian Constitution.

Unit 3: The Preamble, Fundamental Rights and Directive Principles of State Policy 6 hrs

Bhakshi, P.M. (2011). 'Preamble' in The Constitution of India, New Delhi: Universal Law. Pp. 1-5. Laxmikanth, M. (2017). 'Chapter IV: Preamble of the Constitution' in Indian Polity, Chennai: McGraw Hills.

Kumar, Virendra (2007): "Basic Structure of The Indian Constitution: Doctrine of Constitutionally Controlled Governance [From Kesavananda Bharati to I.R. Coelho]" Journal of the Indian Law Institute, Vol 49, No 3, pp 365-398.

Austin, G (2016), ' ' in The Indian Constitution: Cornerstone of a Nation, New Delhi: Oxford University Press, pp.63-105.

Reddy, S (1980). Fundamental Ness of Fundamental Rights and Directive Principles in the Indian Constitution. Journal of the Indian Law Institute, 22(3), pp. 399-407.

Bhatia, Gautam (2017): "The Supreme Court's Right to Privacy Judgement," Economic and Political Weekly, Vol 52, Issue No 44

Module Learning Outcomes

- 1. Explain the relationship between 'Preamble' and 'The constitution'.
- 2. Interpret the key concepts of preamble
- 3. Analyzes the dynamic nature of Indian constitution
- 4. Understanding Fundamental Rights
- 5. Evaluate Directive Principles of State Policy
- 6. Interpret case studies on Fundamental Rights.

Unit 4: Citizenship 6 hrs

Jayal, N.G. (2019). 'Reconfiguring citizenship in contemporary India' in South Asia Journal of South Asian Studies, pp.33-58.

Roy, Anupama. (2010). 'Chapter I: Enframing the citizen in contemporary times' in Mapping Citizenship in India, New Delhi: Oxford University Press.

Das, Veena (2010): "State, Citizenship and the Urban Poor," Citizenship Studies, Vol 15, pp 319-

333. Valerian Rodrigues

Module Learning Outcomes

- 1. Explain different dimensions of citizenship in Indian context
- 2. Evaluate the basis of citizenship
- 3. Compare 'claim' and 'status' of citizenship

Unit 5: Separation and Distribution of Powers

6 hrs

Pal, Ruma. (2016). 'Separation of Powers' in The Oxford Handbook of the Indian Constitution, (ed) by Sujit Choudhry, Madhav Khosla, and Pratap Bhanu Mehta, Delhi: Oxford University Press.

Bakshi, P. (1956). 'Comparative Law: Separation of Powers in India'. American Bar Association Journal, 42(6), 553-595.

Rao, P. (2005). 'Separation of Powers in a Democracy: The Indian Experience'. Peace Research, 37(1), 113-122.

Kumar, Ashwani (2019): "Constitutional Rights, Judicial Review and Parliamentary Democracy," Economic and Political Weekly, Vol 51, Issue 15

Tillin, Louise. (2015). 'Introduction' in Indian Federalism. New Delhi: Oxford University Press. pp. 1-30.

Chakrabarty, Bidyut and Rajendra Kumar Pandey. (2008). Federalism' in Indian Government and Politics, New Delhi: Sage Publications. pp. 35-53.

Arora, B. and Kailash, K. K. (2018). 'Beyond Quasi Federalism: Change and Continuity in Indian Federalism', in Studies in Indian Politics, pp. 1-7.

Agrawal, Pankhuri (2020): "COVID-19 and dwindling Indian Federalism," Economic and Political Weekly, Vol 55, Issue No 26

Module Learning Outcomes

- 1. Explain the importance of separation of powers in a democracy
- 2. Understand the relation between three organs of the government
- 3. Evaluate the system of 'checks and balances'
- 4. Understand the difference between unitary and federal political systems
- 5. Critically analyze the Indian model of Federalism
- 6. Evaluate the distribution of responsibilities between union and state governments.

Recommended Readings:

De, Rohit. (2018). A People's Constitution – The Everyday Life of Law in the Indian Republic, USA: Princeton University Press.

Granville Austin, The Indian Constitution: Cornerstone of a Nation, Oxford University Press, Oxford, 1966.

Lahoti, R.C. (2004). Preamble: The Spirit and Backbone of the Constitution of India. Delhi: Eastern Book Company.

Rajeev Bhargava (ed), Ethics and Politics of the Indian Constitution, Oxford University Press, New Delhi, 2008.

Subhash C. Kashyap, Our Constitution, National Book Trust, New Delhi, 2011.

Tillin, Louise. (2015). Indian Federalism. New Delhi: Oxford University Press.

Zoya Hassan, E. Sridharan and R. Sudarshan (eds), India's Living Constitution: Ideas, Practices, Controversies, Permanent Black, New Delhi, 2002.

PHPY1001: Gandhi for the 21st Century

L	T	P	S	J	C
2	0	0	0	0	2*

Course Description

This course provides the students with basic knowledge on Gandhi's early life, transformations in South Africa and his entry into India's national movement. While going through the social-political, economic and educational philosophies of Gandhi, the course analyses how his ideologies are relevant even in the 21st century.

Course Objectives

The objectives of the course are;

- 1. To provide the students with the basic knowledge on Gandhi's life and his philosophies
- 2. To understand the early influences and transformations in Gandhi
- 3. To analyse the role of Gandhi in India's national movement
- 4. To apply Gandhian Ethics while analysing the contemporary social/political issues
- 5. To appreciate the conflict resolution techniques put forward by Gandhi and its significance in the current scenario.

Module I: MK Gandhi: Childhood and Education

M K Gandhi, Formative Years (1869-1893): Early childhood - study in England - Indian influences, early Western influences.

Module II: From Mohan to Mahatma-South African Experiences

Gandhi in South Africa (1893-1914): South African Experiences - civil right movements in South Africa - invention of Satyagraha - Phoenix settlement- Tolstoy Farm - experiments in Sarvodaya, education, and sustainable livelihood.

Module III: Gandhi and Indian National Movement

Gandhi and Indian National Movement (1915-1947): Introduction of Satyagraha in Indian soil - non-cooperation movement - call for women's participation - social boycott - Quit-India movement - fighting against untouchability - Partition of India- independence.

Module IV: Gandhi and Sustainable Development

Gandhian Constructive Programs-Eleven Vows-Sarvodaya-Seven Social Sins-Gandhian Economics and Sustainable Development

Module V: Gandhi and Contemporary Issues

Conflict Resolution Techniques of Gandhi-Ecological Challenges and Gandhian solutions-Gandhian Ethics-An Analysis

Learning Outcomes

- 1. To understand the life of Gandhi
- 2. To understand the role of Gandhi in Indian national movement
- 3. To analyse the origin and significance of Satyagraha

- 4. To understand the eleven vows of Gandhi which he followed through-out his life.
- 5. To examine the significance of constructive programs today

Course Outcomes

After the successful completion of the course the students will be able to;

- 1. Understand the life of Gandhi
- 2. Appreciate the role of Gandhian non-violence and Satyagraha in India's freedom struggle.
- 3. Critically examine the philosophy of Gandhi on Education, Sarvodaya, and Satyagraha
- 4. Analyse the contemporary significance of Gandhian constructive programmes and eleven vows
- 5. Examine the possible solutions for some of the contemporary challenges like environmental issues, moral degradation and ethical dilemmas.

References

- 1. Gandhi, M K. (1941). Constructive Programme. Ahmadabad: Navjivan Publishing House
- 2. Gandhi, M. K. (1948). The Story of My Experiments with Truth. Ahmadabad: Navjivan Publishing House
- 3. Gandhi, M K. (1968). Satyagraha in South Africa. Ahmadabad: Navjivan Publishing House.
- 4. Khoshoo, T N (1995). Mahatma Gandhi: An Apostle of Applied Human Ecology. New Delhi:TERI
- 5. Kripalani, J.B. (1970). Gandhi: His Life and Thought. New Delhi: Publications Division.
- 6. Narayan, Rajdeva (2011). Ecological Perceptions in Gandhism and Marxism. Muzaffarpur: NISLS
- 7. Pandey, J. (1998). Gandhi and 21st Century. New Delhi: Concept.
- 8. Weber, Thomas (2007). Gandhi as Disciple and Mentor. New Delhi: CUP

DOSL1041: Community Services - Volunteer

L	T	P	S	J	C
0	0	0	0	2	2*

Course Description:

ThiscourserecognizesstudentparticipationinCommunityserviceactivitiesorganizedbyvariousstude nt organizations and other Government and non-government organizations that exist for providing service to communities. These activities allow students to develop empathy, citizenship behavior and community values.

Course Objectives

- Tohelpstudentsdevelopempathyandcitizenshipbehavior
- Enablestudentstodevelopanaltruisticattitudeandcommunitydevelopmentsensibility
- Allowexplorationofcommunityserviceactivitiesandreflectabouttheseexperiences
- Learntoworkinsmallandlargeteams forachievingcommunityobjectives

ListofCommunityServiceActivities

- 1. CommunityHealthServices
- 2. SwachhBharatAbhiyanandother Cleanlinessdrives
- 3. TreePlantationandsimilarenvironmentalconservationinitiatives
- 4. Rainwater harvestingawarenessandimplementation
- 5. FundraisingandvisitstoOrphanages,Old-agehomes, etc.
- 6. Healthanddiseaseawarenessprograms
- 7. WorkingwithNGOs
- 8. Disastermitigationandmanagementtrainingandreliefwork
- 9. RuralUpliftmentprojects
- 10. Campusawarenessandactionprojects(cleanliness, anti-ragging, blood donation, etc)
- 11. Communityinvestigationsandsurveysfordevelopmentresearch
- 12. Educational support for under privileged (remedial classes, coaching, training, etc)
- 13. Servicecamps
- 14. Advocacyand informationliteracyinitiatives
- 15. Otheractivitiesserving localcommunities

ListofActivities

- 1. Participationinvarious community service activities
- 2. Weeklyreflectionpaper
- 3. Portfolio(onsocialmediausinganinstagramaccount)
- 4. Twolearningpapers(onepersemester)

Text Books

- 1. Soulofacitizen: livingwithconviction in Challenging times (author: PaulRogatLoeb)
- 2. CommunityServicesintervention:VeraLloyd

References

- 1. Apathappears:Transforminglives,creatingopportunities(NicholasKristofandSherylWuDunn)
- 2. ThestoryofMyExperimentswithTruth(author:M.K.Gandhi)

CourseOutcomes

- Experience of volunteering in a variety of Community service activities
- Gainingempathyforlesser privilegedsectionsofsocietybyexperience
- Understandingtheprocessofgeneratingcommunityawareness
- UnderstandingDisastermanagementandreliefthroughtrainingandexperience
- Developingenvironmentalandsustainabilityawareness

DOSL1051: Community Services - Mobilizer

Course Description

L T P S J C 0 0 0 0 2 2*

Thiscourserecognizes student

leadership

inmobilizingcommunityserviceactivitiesasmembersofvariousstudentorganizationsorotherGovern mentandnon-governmentorganizationsthatexistfor providing service to communities. These activities allow students to develop leadership, management skills, empathy, citizenship behavior and community values.

Course Objectives

- Tohelpstudentsunderstandleadershipinacommunityenvironment
- Enablestudentstodevelopanaltruisticattitudeandcommunitydevelopmentsensibility
- Allowdeepunderstandingofcommunityservicethroughpracticalexperience
- Learntoleadsmallandlargeteamsfor achieving community objectives

ListofCommunityServiceActivities

- 1. CommunityHealthServices
- 2. SwachhBharatAbhiyanandother Cleanlinessdrives
- 3. TreePlantationandsimilarenvironmentalconservationinitiatives
- 4. Rainwater harvestingawarenessandimplementation
- 5. Fund raising and visits to Orphanages, Old-agehomes, etc.
- 6. Healthanddiseaseawarenessprograms
- 7. WorkingwithNGOs
- 8. Disastermitigationandmanagementtrainingandreliefwork
- 9. RuralUpliftmentprojects
- 10. Campusawarenessandaction projects (cleanliness, anti-ragging, blood donation, etc)
- 11. Communityinvestigationsandsurveysfordevelopmentresearch
- 12. Educational support for under privileged (remedial classes, coaching, training, etc)
- 13. Servicecamps
- 14. Advocacyandinformationliteracyinitiatives
- 15. Otheractivitiesserving localcommunities

ListofActivities

- 1. Organizingandleadingteamsinvariouscommunityserviceactivities
- 2. Fortnightlyreflectionpaper
- 3. Portfolio(onsocialmediausing aninstagramaccount)
- 4. Twolearningpapers(oneper semester)

Text Books

- 1. Soulofacitizen:livingwithconviction inChallengingtimes(author: PaulRogatLoeb)
- 2. CommunityServicesintervention:VeraLloyd

References

- 1. Apathappears: Transforminglives, creating opportunities (Nicholas Kristofand Sheryl Wu Dunn)
- 2. ThestoryofMyExperimentswithTruth(author:M.K.Gandhi)
- 3. ListofstudentrunandandotherGovernmentandnongovernmentcommunityserviceorganizations organizations

CourseOutcomes

- ExperienceofmobilizingandexecutingCommunityserviceactivities
- Providingopportunities for community service volunteering for other fellow students
- Understandingtheprocessofmobilizingcash, kindandvolunteersupport
- Buildingleadershipandmanagementskills
- Buildingempathyandcitizenshipbehavior

ENVS1001: Environmental Studies

Course Description

L T P S J C 3 0 0 0 0 3*

The course enables the students to adapt eco-centric thinking and actions rather than human-centric thinking on natural resources, their utilization and conservation. The course also focuses on the importance of ecosystems, biodiversity and their degradation led to pollution. This course helps in finding solutions through application of control measures to combat pollution and legal measures to achieve sustainable development.

Course Objectives

- 1. To impart knowledge on natural resources and its associated problems.
- 2. To familiarize learners about ecosystem, biodiversity, and their conservation.
- 3. To introduce learners about environment pollution.
- 4. To acquaint learners on different social issues such as conservation of water, green building concept.
- 5. To make learners understand about the present population scenario, its impacts and role of informational technology on environment and human health.
- 6. To make learners understand about the importance of field visit.

Course Outcomes

- 1. To impart knowledge on natural resources and its associated problems.
- 2. To familiarize learners about ecosystem, biodiversity, and their conservation.
- 3. To introduce learners about environment pollution.

Relatehowtheover-

- 4. To acquaint learners on different social issues such as conservation of water, green building concept.
- 5. To make learners understand about the present population scenario, its impacts and role of informational technology on environment and human health.

UNIT-I	Multidisciplinarynatureofenvironmentalstudies&	Noof Hours:				
	NaturalResources:	12				
Multidisci	Multidisciplinary nature of environmental studies Definition, scope and importance. Need for					
publicawa	publicawareness.Naturalresourcesandassociatedproblems.					
Usesandov	UsesandoverexploitationofForestresources, Waterresources, Mineral resources, Food resources, Energy					
resources,	Land resources. Role of an individual					
inconserva	tionofnaturalresources. Equitable use of resources for sustainable lifes	tyles.				
Activity:						
1. Pla	ntingtreesaplings					
2. Ide	ntificationofwaterleakageinhouseandinstitute-Rectify orreport					
	servinganyonedayofaweekas Car/bike/vehiclefreeday.					
	LearningOutcomes:					
Aftercomp	letionofthisunit,thestudentwillbeableto					
•	Listdifferentnaturalresources andtheiruses.	L1				

	exploitationofnaturalresourcesimpacthumanlife	
•	Findtheroleofanindividualintheconservation of natural resources.	L1
	D - 141 - 1 1 - f 1 - f	T 1
•	Recallthedemandofpotablewaterinacommunity. Explaintheequitableuseofnaturalresourcesforsustainablelifestyles	L1 L2
_	Explaintheequitableuseomaturanesourcesforsustamablemestyles	L2
Pedagogy	tools: Blendedlearning, Caselet, videolectures, self-reading	
UNIT-II	Ecosystemand biodiversity	NoofHours: 12
	1: Structure components of ecosystem: Biotic and Abiotic	
	ts of an ecosystem: Food chains, Food webs, Ecological pyran (10% law), Ecological succession. Biogeochemical cycle: (Nitrogen,	
Biodivers	ity: Definition, Biogeographical classification of India, Values of	biodiversity: consumptive
	ctiveuse, social, ethical, aestheticand optional values. Hot-	J
	diversity. Threatstobiodiversity: habitatloss, poaching, man	
1	nflicts.Conservationofbiodiversity:In-situandEx-situ	
Activity"	·	
_	sittoZoological Park-Notingdifferentecosystem	
2. Bio	odiversityregister-Floraandfaunainthecampus	
Learning	Outcomes:	
	oletionofthisunit,thestudentwillbeableto	1.0
•	Demonstratehowecosystemfunctions.	L2
•	Summarizethestructureandfunction ofterrestrialandaquaticecosyst	tems. L2
•	Explain thevalues andthreatstobiodiversity.	L2
•	Identifytheimportanceofconservationofbiodiversity.	L3
Pedagogy	tools: Blendedlearning, Caselet, videolectures, self-reading	
UNIT- III	EnvironmentalPollution	NoofHours: 12
III Definition	Causes, effects, and control measures of: -Air pollution. Water	12 pollution. Soil pollution.
III Definition Marinepol	Causes, effects, and control measures of: -Air pollution. Water lution. Noise pollution. Nuclear hazards. Solid waste Managen	pollution. Soil pollution. nent: Causes, effects, and
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Climatechange, global warming, acidrain, ozonelayer depletion, nuclear accidents and holocaust. Case Studies. Wastelandre clamation.

Activity:

- 1. Observingzerohouratindividual level-documentation.
- 2. Ecofriendlyidols.

3. Rainwaterharvesting-creating storagepitsin nearbyarea.

L	earn	ingO	ut	tcon	ies:	

Learning	outcomes:	
Aftercomp	pletionofthisunit,thestudentwillbeableto	
•	Examinedifferentwater conservationmethods.	L4
•	SurveyremotesensingandGISmethods inexplorationofground water.	L4
•	Functionofgreenbuildingconcept.	L4
•	Discovertheconsequences of global warming, a cidrains and ozonela yerdeple	L4
	tion.	
•	Improve wastelandreclamation.	L5

Pedagogytools: Blendedlearning, Caselet, videolectures, self-reading

UNIT-V	HumanPopulationandthe	NoofHours:
	EnvironmentandEnvironmentProtection	12
	ActandFieldwork	

Populationgrowth, variationamongnations. Family Welfareprogramme. Environmentandhumanhealth. HIV/AIDS, Humanrights. Value Education. Women and Child Welfare. Role of Information Technology in Environmentandhumanhealth. Environment Legislation. Air (Prevention and Control of Pollution) Act. Water (Prevention and Control of Pollution) Act. Wildlife Protection Act. Forest Conservation Act. Environmental Protection Act, Issues involved in enforcement of environmental legislation. Public awareness.

Activity:

1. Visittoalocalpollutedsite-industry/agriculture

2. Identifying diseases due to in appropriate environmental conditions

LearningOutcomes:

Afterco	mpletionofthisunit,thestudentwillbeableto	
•	Predictpopulation growth andvariation amongnations.	L5
•	Adaptvalueeducation.	L5
•	Discusswomenandchildwelfare.	L5
•	Theorizedifferentenvironmentallegislationacts and issues involved in	
	enforcementof	L5
	legislation.	
•	Justifytheroleofinformationtechnologyinenvironmentandhumanhealth.	L6

Pedagogytools: Blendedlearning, Caselet, videolectures, self-reading

TextBook(s)

- 5. ErachBharucha. Textbookofenvironmental studies for under graduates courses Universities Press, India Private Limited. 2019.
- 6. KaushikAandKaushikC.P.PerspectivesinEnvironmentalStudies.NewAgeInternational PublishersEdition-VI. 2018.
- 7. DaveDKatewaS.S.TextbookofEnvironmentalStudies,2ndEdition.CengageLearningIndia.2012.

Additional Reading

1. BennyJoseph.TextbookofEnvironmentalStudies3rdedition,McGrawHillPublishingcompany limited.2017.

ReferenceBook(s):

- 3. McKinneyM.L.,SchochR.M.,YonavjakL.MincyG.EnvironmentalScience:SystemsandSolutions. JonesandBartlettPublishers.6th Edition. 2017.
- 4. BotkinD.B.Environmental Science:EarthasaLivingPlanet.JohnWileyandSons.5thedition.2005.

Journal(s):

- 1. https://www.tandfonline.com/loi/genv20
- 2. https://library.lclark.edu/envs/corejournals

Website(s):

https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf FromClimateSciencetoAction|Coursera

		ProgrammeObjectives(P Os)											PSO'				
															S		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
CO1	2												2				
CO2		2				1							2				
CO3			1						1					1			
CO4				2							2				1		
CO5	1													1			
CO6					2							1			1		

MFST1001: Health & Wellbeing

L T P S J C 0 0 1

Course Description

The course provides the students a better understanding of the role of a proper diet in maintenance of human health. This course emphasizes the composition of the food, and will help to understand how to exercise, the role of sports and physical fitness in development of a good health. The course also focuses on the importance of emotional well-being and mindfulness. This course helps in teaching the role of yoga in maintenance of physical balance.

Course Objectives

- To provide an understanding of the relationship between food and nutrition
- To emphasize the role of exercise, sports and physical fitness in obtaining a good health
- To explain about the mindfulness and emotional well being
- To teach the role of yoga and meditation in maintaining the body balance

UNIT-I

Understand the relationship between Food and Nutrition and how food composition affects nutritional characteristics. Knowledge about regulatory principles in determining diets and recommended daily allowances. Understand how to create personalised diet/nutrition plans.

UNIT-II

Understand how exercise, activity and sports helps in developing good health. Experiential exposure to the role of proper, specific nutritional interventions along with structured activities on developing proper physical health. Practical exercises and assignments in sports and exercise regimes.

UNIT-III

Introduction to emotional wellbeing and mindfulness. Teaching of mindfulness practices to reduce stress, increase relaxation and improve mental wellbeing.

UNIT-IV

Introduction to Yoga theory and how Yoga helps in maintaining balance in the body. Practice of Yoga and meditation to improve overall emotional and physical balance. Practical yoga exercises and meditation techniques

Course outcomes

By the end of the course, student will

- Learn the role of nutrition and diet in maintaining a good health
- Will understand how the exercise, sports and physical activities will improve health
- Will learn mindfulness practices for reducing stress
- Will know the importance of yoga and meditation

CLAD2001: Preparation for Campus Placement-1 (Soft Skills 5A)

L T P S J C 0 0 2 0 0 1

Course Description

The course addresses all relevant areas related to campus placements and readies them to ace their upcoming/ongoing recruitment drives. Specifically, it focuses on students' career preparedness, interview skills, test preparedness, etc.

Course Objectives

Prepare the students for their upcoming/ongoing campus recruitment drives.

- Career Preparedness: Resume & Cover Letter Writing, Interview Skills: Elevator Pitch, Making
 the First Impression, Being Other-Oriented, Being Positive and Curious, communicating with
 Confidence and Poise, Frequently Asked Questions & How to Answer Them, Pitfalls to Avoid,
 Etc. Etiquette: Hygiene, Courtesy, Culture differences, Workplace, use of cell phone, Profanity,
 Slang, Protocol.
- 2. Verbal Ability: Practising Reading Comprehension, Error Detection, Sentence Completion, MCQs, FIBs, Para jumbles, Cloze Test, Critical Reasoning.
- 3. Quantitative Aptitude: Number Systems, Algebra, Geometry, Data Handling, Data Sufficiency, Word Problems
- 4. Reasoning: Logical and Verbal Reasoning

Course Outcomes

- 1. Write a power resume and covering letter
- 2. Answer interview questions with confidence and poise
- 3. Exhibit appropriate social mannerisms in interviews
- 4. Solve placement test questions on verbal ability, quantitative aptitude and reasoning

References

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

CLAD2011: Preparation for Higher Education (GRE/GMAT)-1 (Soft Skills 5B)

L T P S J C 0 0 0 1

Course Description

The course offers a special track for students who aspire to go abroad in pursuit of their higher education for which a GRE/ GMAT score is a prerequisite. It covers all four topical areas of these tests and includes fully solved mock tests as well.

Course Objectives

- 1. Prepare the students to solve questions from all four broad areas of GRE/GMAT
- 2. Orient the students for GRE/GMAT through mock tests

Syllabus

- 1. Verbal Reasoning: Reading Comprehension, Sentence Equivalence, Text Completion, Sentence Correction, Critical Reasoning
- 2. Quantitative Reasoning: Arithmetic, Algebra, Geometry, Data Analysis
- 3. Analytical Writing Assessment: Issue/ Argument
- 4. Integrated Reasoning

Course Outcomes

- 1. Solve questions from all four broad areas of GRE/ GMAT
- 2. Practice answering several mock tests

References

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

CLAD2021: Preparation for CAT/ MAT - 1 (Soft Skills 5C)

L T P S J C 0 0 0 1

Course Description:

The course offers a special track for UG students who aspire to go for higher education in business management in India for which cracking CAT/ MAT/ other related test is mandatory. It covers all four topical areas of these tests and includes fully solved mock tests as well.

Course Objectives:

- 1. Prepare the students to solve questions from all four relevant areas of CAT/ XAT/ MAT, etc.
- 2. Orient the students for CAT/ XAT, etc. through mock tests

Syllabus

- 1. Quantitative Ability: Arithmetic, Algebra, Geometry, Mensuration, Calculus, Trigonometry
- 2. Data Interpretation: Data Interpretation and Data Sufficiency
- 3. Logical Reasoning: Data Management, Deductions, Verbal Reasoning and Non-Verbal Reasoning
- **4.** Verbal Ability: Critical Reasoning, Sentence Correction, Para Completion, Para Jumbles, Reading Comprehension

Course Outcomes:

- 1. Solve questions from all four relevant areas of CAT/ MAT as listed above
- 2. Practice test-cracking techniques through relevant mock tests

References:

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

CLAD2031: Preparation for Campus Placement-2 (Soft Skills 6A)

L T P S J C 0 0 0 1

Course Description

This course builds on the previous course and focuses on all four major areas of campus placements, including career preparedness, mock interviews, verbal ability, quantitative aptitude and logical reasoning.

Course Objectives

- 1. To comprehensively prepare all eligible and aspiring students for landing their dream jobs.
- 2. To sharpen the test-taking skills in all four major areas of all campus drives
- 3. Career Preparedness II: Mock Interviews, Feedback and Placement Readiness
- **4.** Verbal Ability II: Practising Reading Comprehension, Error Detection, Sentence Completion, MCQs, FIBs, Para jumbles, Cloze Test, Critical Reasoning
- **5.** Quantitative Aptitude II: Number Systems, Algebra, Geometry, Data Handling, Data Sufficiency, Word Problems
- 6. Reasoning II: Logical and Verbal Reasoning

Course Outcomes

- 1. Demonstrate career preparedness and confidence in tackling campus interviews
- 2. Solve placement test questions of a higher difficulty level in verbal ability, quantitative aptitude and logical reasoning.
- 3. Practice test-taking skills by solving relevant questions accurately and within time.

References

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

CLAD2041: Preparation for Higher Education (GRE/ GMAT)-2 (Soft Skills 6B)

Course Description

1. The course offers a special track for students who aspire to go abroad in pursuit of their higher education for which a GRE/GMAT score is a prerequisite. It covers all four topical areas of these tests at a higher difficulty-level and includes fully solved mock tests as well.

Course Objectives

- 1. Prepare the students to solve higher level questions from all four broad areas of GRE/ GMAT
- 2. Orient the students for GRE/ GMAT through mock tests

Syllabus

- **1.** Verbal Reasoning II: Reading Comprehension, Sentence Equivalence, Text Completion, Sentence Correction, Critical Reasoning
- 2. Quantitative Reasoning II: Arithmetic, Algebra, Geometry, Data Analysis
- 3. Analytical Writing Assessment II: Issue/ Argument
- **4.** Integrated Reasoning II

Course Outcomes:

- 1. Solve higher level questions from all four broad areas of GRE/ GMAT
- 2. Practice answering several mock tests

References:

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, CareerLauncher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

(Soft Skills 6C)

Course Description:

L T P S J C 0 0 1

The course offers a special track for UG students who aspire to go for

higher education in business management in India for which cracking CAT/ MAT/ other related test is mandatory. It covers all four topical areas of these tests at a higher level of difficulty and includes fully solved mock tests as well.

Course Objectives:

 Prepare the students to solve all types of questions from all four relevant areas of CAT/ XAT/ MAT, etc.

Syllabus

- Quantitative Ability II: Arithmetic, Algebra, Geometry, Mensuration, Calculus, Trigonometry
- 2. Data Interpretation II: Data Interpretation and Data Sufficiency
- 3. Logical Reasoning II: Data Management, Deductions, Verbal Reasoning and Non-Verbal Reasoning
- 4. Verbal Ability II: Critical Reasoning, Sentence Correction, Para Completion, Para Jumbles, Reading Comprehension

Course Outcomes:

- 1. Solve higher difficulty level questions from all four relevant areas of CAT/ MAT as listed above
- 2. Practice test-cracking techniques through relevant mock tests

References:

- 1. Verbal Ability & Reading Comprehension by Arun Sharma and Meenakshi Upadhyay
- 2. Study material for CAT, SAT, GRE, GMAT by TIME, Career Launcher and IMS etc.
- 3. Quantitative Aptitude by R S Agarwal S Chand Publications
- 4. Quantitative Aptitude by Pearson Publications

FINA3001: Personal Financial Planning

Course Description

L	T	P	S	J	C
0	0	2	0	0	1*

Personal Financial Planning is one of the most significant factors in our lives. It is essential that funds are available as and when required at various stages of life. Unavailability of funds at critical stages of our life leads to financial distress and leads to many medical and non-medical problems. There are certain planned and unplanned events in our life. On the one hand, education of our children, their marriage, our retirement etc. are some of the planned events of our life, but at the same time, some medical urgency, accident or death of an earning member might be some unplanned events. Many of these events are beyond our control, but the availability of funds can be planned to avoid any financial distress. In other words, we cannot stop the rain but can plan for an umbrella.

This course looks at the many challenges an individual faces in a complex financial environment and the rising uncertainties of one's life. It focuses on achieving long-term financial comfort of individual and family through goal setting, developing financial and life strategies, acquiring personal financial planning knowledge and managing risk throughout one's life.

Course Objectives:

- 1. To build students' ability to plan for long-term financial comfort of individual and family through goal setting, developing financial and life strategies.
- 2. To provide students with knowledge on terms, techniques to evaluate investment avenues.
- 3. To build the skill set of the student to enable them to file their tax returns.

Syllabus

Unit 1: Basics of Financial Planning

Financial Planning Meaning, Need, Objectives, Financial Planning Process, Time Value of Money and its application using excel (NP)

Unit 2: Risk and Insurance Management

Need for insurance, Requirement of insurance interest, Role of insurance in personal finance, Steps in insurance planning, Life and Non-life insurance products, Life insurance needs analysis (NP)

Unit 3: Investment Products and Measuring Investment Returns

Investment Products: Small Saving Instruments, Fixed Income Instruments, Alternate Investments, Direct Equity

Measuring Investment Returns: Understanding Return and its concept, Compounding concept, Real vs Nominal Rate of Return, Tax Adjusted Return, Risk-Adjusted Return (NP)

Unit 4: Retirement Planning

Introduction to the retirement planning process, estimating retirement corpus, Determining the retirement corpus, Retirement Products (NP)

Unit: 5 Tax Planning

Income Tax: Income tax principles: Heads of Incomes, Exemptions and Deductions, Types of Assesses,

Rates of Taxation, Obligations for Filing and Reporting, Tax aspects of Investment Products, Wealth Tax

Course Outcome:

- 1. Describe the financial planning process and application of time value of money
- 2. Application of life and non-life insurance products in financial planning
- 3. Understand the investment avenues and analysis of investment returns
- 4. Understand the retirement planning and its application
- 5. Describe and analysis the Tax Planning

Text Books

- 1. National Institute of Securities Management (NISM) Module 1 & XA
- 2. Madhu Sinha, Financial Planning, 2 Edition, McGraw Hill India
- 3. Simplified Financial Management by Vinay Bhagwat, The Times Group

Reference Books

- 1. Personal Financial Planning (Wealth Management) by S Murali and K R Subbakrishna, Himalaya Publishing House.
- 2. Mishra K.C., Doss S, (2009). Basics of Personal Financial Planning 1e. National Insurance Academy, New Delhi: Cengage Learning.
- 3. Risk Analysis, Insurance and Retirement Planning by Indian Institute of Banking and Finance.

	HRMG1011	Principles of Management	L	T	P	S	J	C
1 TA			3					3
G SERVE 3	Course owner	Department of HRM	Syllabus version				1.0	
STRIP STRIP	Course Pre-requisite(s)	NIL	Contact hours				45	
TO BE UNIVERS	Course Co-requisite(s)	NIL	Date Approved					
	Alternate Exposure							

One of the most important human activities is managing. Management can be traced back to ancient times whenever there was large-scale endeavor like great pyramids in Egypt, the Great Wall of China, Taj Mahal in India. All these required many people working in groups in a better-coordinated way to achieve a well-defined target over some time. In the present context, of globalization, because of the increasing role of large and complex organizations in the development of the economy, the concept of Management has become very significant for managing the business efficiently.

Course Objectives

- 1.To understand the basic Principles and concepts of Management
- 2.To orient students on recent changes and developments in the field of management
- 3. To illustrate and evaluate the importance of planning, organizing, directing in decision making
- 4.To understand different Management challenges in 21st century

Unit I Management Nature and Concept No of Hours - 09

Management: Nature, Definition, Characteristics and Scope of Management-Management as a Science or Art or Profession-Contemporary Issues and Challenges in Management of 21st Century-Levels of Management-Skills of a manager -Roles of a manager.

Learning Outcomes

After completion of this unit, the student will be able to

•	Describe and understand the nature and scope of Management	Ll
•	Discuss different managerial roles in Business organization	L2
•	Illustrate contemporary issues in management of 21st Century	L3

Pedagogy Tools: Case study, Discussion, Self-reading, Polls, Student Presentations

Unit II Planning and Decision-Making No of Hours- 09

Planning: The Process of Planning, Objectives, Policy and Procedures, Forecasting and Decision Making. Strategic Planning-meaning and process MBO- meaning, process and requirements for implementation.

(b)Decision Making-Meaning; Types of decisions; Process; Significance; Limitations; – Rational economic model and administrative model; -Programmed and non-programmed decisions-Creativity and innovation- Blue Ocean & Red Ocean Strategy

Learning Outcomes:

After completion of this unit, the student will be able to

•	Describe the concept and objectives of Planning	L1
•	Discuss the process of MBO in organization	L2
•	Describe the Decision-making process in Business organizations	L2
•	Classify Programmed and Non-programmed decisions	L3

Unit III Directing and Staffing No of Hours – 09

Directing-Principles- Theory X & Y- Motivation and Behaviour- Theories of Motivation- Maslow's theory and Herzberg theory, Leadership: Styles and Theories. staffing-Manpower Planning-Recruitment and Selection-Training and Development- Performance Appraisal

Learning Outcomes:

After completion of this unit, the student will be able to

•	Discuss the different motivational theories	L2
•	Analyze different leadership styles and theories	L4
•	Describe the manpower planning in the organizations	L2
•	Assess performance appraisal system in the organization	L5

Pedagogy Tools: Case study, Discussion, Self-reading, Polls, Student Presentations

Unit IV Organization Design and Structure

No of Hours - 09

Organisation – Meaning; Process; Principles; Organisation structure – Determinants and forms: line, functional, line and staff, project, matrix, and committees; Formal and Informal Organisation; Departmentation–Meaning and Bases; Span of Control–Meaning and Factors influencing; Authority, Responsibility and Accountability; Delegation – Meaning, Process; Principles; Centralization and Decentralization–Meaning; Degree of decentralization; Difference between delegation and decentralization.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the concept and principles of Organization	L2
•	Analyze different Organizational structures	L4
•	To know the differences between Centralization and Decentralization	L4
•	Evaluate the factors influencing on span of control	L5

Pedagogy Tools: Case study, Discussion, Self-reading, Polls, Student Presentations

Unit V Ethics in the contemporary management

No of Hours - 09

Ethics in the contemporary management and corporate social responsibility; Macro and Micro environmental factors of business-Controllable and uncontrollable factors, SWOT analysis and 7s model of analysis, Management challenges in 21stcentury

Learning Outcomes:

After completion of this unit, the student will be able to

•	Discuss the ethics in management	L2
•	Analyze the macro and micro environmental factors of business	L4

Pedagogy Tools: Case study, Discussion, Self-reading, Polls, Student Presentations

Case Let (Not Exceeding 200 Words)

COURSE OUTCOMES:

- 1. Explain the nature and scope of management.
- 2. Analyze the process of MBO.
- 3. Evaluate the different styles of leadership.
- 4. Explain the various structures of organization.
- 5. Explain the ethics in management.

Text Book:

- 1. L M Prasad, Principles and Practices of Management, Himalaya Publishing House
- 2. Rao, P.S. Principles of Management, Himalaya Publishing House.
- 3. Rao, V.S.P. & Krishna, V. H. Management: Text and Cases, Excel Book
- 4. Sharma, R.K& Gupta, S. Business Management (3rdedition), New Delhi: Kalyani Publishers.

Additional Readings:

- 1. Vikalpa, Indian Institute of Management
- 2. Journal of General Management., Mercury House Business Publications, Limited
- 3. Harvard Business Review, Harvard Business School Publishing Co. USA
- 4. Indian Management, AIMA, New Delhi
- 5. IJBMT Global Business Innovation, SPIRI
- 6. GITAM Journal of Management, GIM, GITAM (Deemed to be University

		Programme Objectives (POs)												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	2	1	0	0	1	0										
CO2	1	2	1	0	1	0										
CO3	1	1	0	1	2	1										
CO4	2	2	1	1	2	2										

1-Low, 2- Medium and 3- High Correlation

OPTS1031 Business Statistics L T P S J C

1 TA			3	3
G SERVE I	Course owner	Department of Operations	Syllabus version	1.0
STRING *	Course Pre-requisite(s)	NIL	Contact hours	45
O BE UNIVERS	Course Co-requisite(s)	NIL	Date Approved	
Colored Co.	Alternate Exposure			

This course aims at aiding the students in reaching a level of increased competence in business statistics and expands understanding of the applications of statistical concepts in business. Emphasis is placed upon learning statistical concepts through common business problems.

Course objectives:

- 1. Gain conceptual and working knowledge of Business Statistics and use it in the applications of business.
- 2. Learn the methods of solving problems on basic concepts and analytical business statistical model. 3.Enable students to access the relationship between two variables
- 4. Understanding of Indices and how to build them.
- 5. Enable the student to use introductory level of Transportation and queuing theory.

UNIT - I Data collection and Measures of Central Tendency No of Hours: 09

Collection and Presentation of Data Statistical data – Primary and Secondary; Methods of collection of Primary data; Presentation of Data – Textual, Tabular and Diagrammatic form (Line chart, Bar chart, Pie chart, Histogram, Frequency polygon and Ogive); Frequency distribution.

Measures of Central Tendency – Mean (A.M.,G.M.,H.M.), Median, Mode – different properties; Partition values – Quartiles, Deciles, Percentiles; Partion values from Ogives.

Measures of Dispersion – Range, Q.D., M.D., S.D. – their coefficients; comparing consistency; Different properties. Moments, Skewness and Kurtosis – Moments about an arbitrary number; Central Moments; Relation between central and non- central moments up to 4th order 2 3 and – coefficients.

L2

Learning Outcome:

After completion of this unit, the student will be able to

- Describe data collection process
- Use techniques of organizing data in tabular and graphical forms to enhance data analysis and interpretation
- Use several numerical methods belonging to measures of central tendency and L4 measures of dispersion to describe the characteristics of a data set
- Explain the properties and relationship between moments, skewness and kurtosis L2

Pedagogy tools: Blended learning, self-reading, flipped classroom

UNIT - II Correlation Analysis No of Hours: 09

Methods of Studying Correlation for Grouped and Ungrouped Frequency Distribution.

Regression Analysis: Equation of Regression Lines for Grouped and Ungrouped Frequency Distribution, Standard Error of Estimate.

Learning Outcome:

After completion of this unit, the student will be able to

- Explain how correlation analysis describes the degree to which two variables are linearly related to L2 each other.
- Use regression analysis to estimate the relationship between two variables L3
- Apply correlation and regression analysis techniques to grouped and ungrouped frequency L3 distribution.
- Calculate standard error of estimate L4

Pedagogy tools: Blended learning, self-reading, flipped classroom

UNIT - III Index Number No of Hours: 09

Construction, Price and Quantity index numbers, Laspeyres', Paasche's, Edgeworth- Marshall's, Fisher's method, Relative methods, Tests of index number formulae: Time and Factor reversal tests, General index number, Chain base index number, Cost of living index number (CLI), Uses of CLI and its applications, Uses and limitations of index numbers. Analysis of Time Series - Components of a time series, Adjustment in time series, Measurement of trend by moving average and least squares methods (linear and quadratic trends), Measurement of seasonal variation by simple average method, Forecasting, Deseasonalisation.

Learning Outcome:

After completion of this unit, the student will be able to

- Explain how to calculate various kinds of index numbers L2
- Illustrate the uses and limitations of index numbers L2
- Understand the four components of a time series L2
- Evaluate the measurement of trend by various forecasting techniques L5

Pedagogy tools: Blended learning, self-reading, flipped classroom

UNIT - IV Transportation and Assignment Problems No of Hours: 09

Nature and scope of transportation and allocation models, different methods for finding initial solution N-W Corner Rule, Least Cost Method and VAM. Unbalanced TP, Test for optimality – MODI method, AP a variant of Transportation model, Hungarian method, Restricted Assignment problems.

Queuing Theory – Models – Simple Problem – Introduction to simulation

Learning Outcome:

After completion of this unit, the student will be able to

- Solve initial feasible solution for transportation problems using several methods and optimal L4 solution using MODI method
- Determine how to solve assignment problems using Hungarian method L3
- Handle unbalanced transportation and assignment problems L5
- Analyse situations that generate queuing problems L4
- Understand the basic concepts of simulation L2

Pedagogy tools: Blended learning, self-reading, flipped classroom

UNIT - V Probability and Sampling

Probability theory—concept and approaches; Probability rules — addition and multiplication theorem, Binomial, Poisson and Normal Distribution and their applications. Sampling—Purpose and Methods of Sampling, Merits and limitations of Sampling.

Learning Outcome:

After completion of this unit, the student will be able to

- Understand fundamentals of probability and various probability rules that help them to L2 measure uncertainty involving uncertainty.
- Analyse the uses of each probability distribution and how to find its values

No of Hours: 09

Pedagogy tools: Blended learning, self-reading, flipped classroom

COURSE OUTCOMES:

- 1. Explain data collection process.
- 2. Calculate standard error of estimate.
- 3. Analyze the four components of time series.
- 4. Basic concepts of simulations.
- 5. Explain the merits and demerits of the sampling.

Textbook(s):

1. Gupta and Gupta, Business Statistics. (Sultan Chand & Sons: New Delhi).

Additional Reading

Reference Book(s):

- 1. Chandan, J. Statistics for Business Economics. (Vikas: New Delhi)
- 2. Sharma, Shenoy and Srivastava, Quantitative Analysis for Managerial Decision Making

L2

Journal(s):

- 1. The Annals of Statistics, publisher Institute of Mathematical Statistics
- 2. Australian and New Zealand Journal of Statistics, Wiley-Blackwell Publishing

Website(s)

- 1. https://sites.google.com/site/indianstatisticalassociation/Home
- 2. https://statsoc.org.au/

		Programme Objectives (POs)												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	1	1	1	1	1	1										
CO2	1	2	1	2	2	2										
CO3	3	1	2	1	1	3										
CO4	1	1	1	3	3	1										
CO5	1	1	1	1	1	3										

1-Low, 2- Medium and 3- High Correlation

LANG1081: SPECIAL ENGLISH

COURSE OBJECTIVES

- Understand and appreciate different literary genres.
- Recognize and analyse the main elements of different literary genres 3 0 0 0 3 particularly short stories, essays, and poetry.
- Demonstrate in written and oral form both the comprehension and the analysis of literary texts (poetry,prose,short stories and essays)
- Appreciate and apply stylistic differences while communicating in a contemporary context for different purposes
- Create reasonably professional scripts with correct and varied usage of grammatical structures and punctuation for accurate communication of ideas

LEARNING OUTCOMES

Upon successful completion of Unit 1, the student will be able to:

- 1. Demonstrate an understanding of poetry as a literary genre (L2)
- 2. Identify and describe poetic forms and poetic devices (L2,L3)
- 3. Analyze and effectively communicate ideas related to the poetic works for their structure and meaning, using correct terminology. (L3,L4)

UNIT-I

Poetry

- 1. The Road Not Taken by Robert Frost
- 2. The Walrus and the Carpenter by Lewis Carroll
- 3. Captain! My Captain! by Walt Whitman
- 4. Sonnet 'No-60'-William Shakespeare
- 5. "The Sun Rising" by John Donne

LEARNING OUTCOMES

Upon successful completion of Unit II, the student will be able to:

- Demonstrate an understanding of short story as a literary genre (L2)
- Identify and describe distinct literary characteristics of the short story form (L2,L3)
- Analyze and effectively communicate ideas related to the short stories for their structure and meaning. (L3,L4)

UNIT-II

Short Stories

- 1. My Financial Career Stephen Leacock
- 2. A Story from Confucius- Confucius
- 3. The Barber's Trade Union-Mulk Raj Anand
- 4. An Occurrence at Owl Creek Bridge by Ambrose Bierce
- 5. The Story of an Hour by Kate Chopin

LEARNING OUTCOMES

Upon successful completion of Unit III, the student will be able to:

- Read essays, and opinions while analyzing the structural and sentence level arrangement of the writing.(L1)
- Examine effective unity, support, coherence, and mechanics in essays.(L4)
- Write essays considered appropriate for the undergraduate level (L5)

UNIT-III

Essavs

- 1. "A Hanging" George Orwell
- 2. "Self-Reliance"-Ralph Waldo Emerson
- 3. "Attitude"- Margaret Atwood
- 4. "The Responsibility of Intellectuals"- Noam Chomsky
- 5. "Letter To His 10-Year-Old Daughter- Richard Dawkins

LEARNING OUTCOMES

Upon successful completion of Unit IV, the student will be able to:

- Engage with relevant scholarly works on contemporary issues (L1)
- Able to analyze, describe, and debate the complexities of globalization(L3)
- Situate one's own reading in terms of society, religion, caste, region, gender, and politics(L4)

UNIT-IV:

Contemporary Issues

- 1. "The Globalisation of Inequality"- P. Sainath
- 2. "Words from an Open Mind to a Closed or Sealed One"- Ramachandra Guha
- 3. "The idea of India" Aruna Roy
- 4. "Why not a separate UN Charter on Casteism?"- K. Balagopal
- 5. "The root cause of corruption" Tabish Khair

LEARNING OUTCOMES

Upon successful completion of Unit V, the student will be able to:

- Use prewriting techniques to develop ideas in paragraphs and essays.(L2)
- Practice unity, coherence (including transitions), and appropriate writing style.(L2)
- Recognize and incorporate proper grammar and mechanics including parts of speech, verb tense, subject-verb agreement, word choice, spelling, commas, and other punctuation.(LI)
- Write a book/film review(L3)

UNIT-V:

Coursera Courses:

- Advanced Grammar & Punctuation Project (UCI Division of Continuing Education) 20 hours
- Advanced Writing (UCI Division of Continuing Education) 26 hours

Book/Film Review

COURSE OUTCOMES

Upon successful completion of the course, the student will be able to:

- 4. Recognize and incorporate proper grammar and other mechanics of language in one's communication acts.(L1, L3)
- 5. Demonstrate an understanding of the distinct literary characteristics of poetry, short story and essay as literary genres (L2)
- 6. Analyze and effectively communicate ideas related to the prescribed literary genres for their structure and meaning, using correct terminology. (L3,L4)
- 7. Write paragraphs, essays and reviews with the complexity considered appropriate for the undergraduate level (L3,L5)

8.	Analyze, describe, and debate the complexities of globalization, situating own reading in terms of society, religion, caste, region, gender, and politics (L3, L4)

LANG1091: HINDI

INTRODUCTION

This course contains a rich selection from Hindi poetry and prose. Grammar and translations from official language are also included.

COURSE OBJECTIVES

- 1) To enlighten students about the richness and value of the national language
- 2) To offer working knowledge of Hindi to the students.

SYLLABUS

गद्यविभाग(Prose Detailed Text)

- 1.बाजारदर्शन[,]
- 2. ईर्ष्या, तुनगईमेरेमनसे
- 3.आपनेमेरीरचनापढ़ी?
- 4. भारतीयसाहित्यकीएकता
- 5. अतिथि
- 6. मेरीरुमालखोगई
- 7. कविऔरकविता
- 8. सोनाहिरनी
- 9. कफ़न

- श्रीजैनेंद्रकृमार
- रामधारीसिंह 'दिनकर
- हज़ारीप्रसादद्विवेदी
- नन्ददुलारेवाजपेयी
- रामविलासशर्मा
- विद्यानिवासमिश्र
- आचार्यमहावीरप्रसादद्विवेदी
- महादेवीवर्मा
- मुंशीप्रेमचन्द

उपवाचकविभाग(Non Detailed Text)

- 1. पुरस्कार
- 2. हार
- 3. सदाचारकातावीज
- 4. आदमीकाबच्चा
- 5. हारकीजीत
- 6. ठाकुरकाकुआं
- 7. उसनेकहाथा
- ८. रोज
- 9. चीफकीदावत

- जयशंकरप्रसाद
- मन्नभंडारी
- हरिशंकरपरसाई
- यशपाल
- सदर्शन
- मुंशीप्रेमचन्द
- चंद्रधरशर्मागुलेरी
- अज्ञेय
- भीष्म साहनी

व्याकरणविभाग

- I. निर्देशकेअनुसारवाक्योंकोबदलकरलिखिए (Rewriting of sentences as directed)
 - 1. कारक (case)
 - 2. लिंग (gender)
 - 3. वचन (number)
 - 4. वाच्य (voice)
- II. शुद्धकीजिए (correction of sentences)
 - 1. चाहिएप्रयोग

- 2. लिंगऔरवचनसंबंधी
- III. वाक्यप्रयोग (make your own sentences)
- IV. कार्यालयहिंदी: प्रशासनिक

शब्दबली / परनाम (karyalay Hindi : Administrative terminology)

- 1. कार्यालयो केनाम
- 2. पदनाम
- v. संधिविच्छेद
- VI. विलोमशब्द
- VII. पत्रलेखन
- VII. गंधाशकेआधारपरदिएगयेप्रशनोकाउत्तरदेनाचाहिए
- VII. निबंध

COURSE OUTCOMES

- 1) The student learns reading and writing Hindi
- 2) Understands and learns proper use of Grammar
- 3) Develops communication Skills.

TEXTBOOK

- 1. ProseText:Dr.AjayaKumarPatnaik,**GadyaGaurav**,SonamPrakashan,Badamda di,Cuttak.
- 2. Non, Detailed Text: Dr. Gulam Moinuddin Khan, **Charchit Kahaniyan**, Shabnam Pustak Mahal, Badamdadi, Cuttak. Text: Dr. T. Nirmala & Dr. S. Mohan, Padya Manjari, Rajkamal Prakashan, New Delhi. * Latest Editions

LANG1101: SANSKRIT

L T P S J C

INTRODUCTION

This course contains a rich selection from Sanskrit language and literature.

COURSE OBJECTIVES

- 1) To enlighten students about the richness and value of the classical language
- 2) To offer working knowledge of Sanskrit to the students.

SYLLABUS

POETRY: Lesson No. 1 Saranagathi

From Valmiki Ramayanam Yuddhakanda

17th Canto Slokas 11 – 68

Lesson No. 2 Ahimsa Paramodharmah

From Srimadbharatam, Adiparva 8th chapter

Sloka 10 – to the end of 11 Chapter

Lesson No. 3 Raghoh Audaryam

From Raghuvamsa 5th Canto 1 – 35 Slokas

PROSE: Lesson No. 4 Mitrasampraptih

From Pancatantra – Ist Story (Abridged)

Lesson No. 5 Modern prose Chikroda katha

Andhra Kavya Kathah

By Sannidhanam Suryanarayana Sastry

Lesson No. 6 Computer Yanthram

By Prof. K.V. Ramakrishnamacharyulu

GRAMMAR

DECLENSIONS:

Nouns ending in Vowels:

Deva, Kavi, Bhanu Dhatr, Pitr, Go, Rama, Mati, Nadee, Tanu, Vadhoo, Matr, Phala, Vari & Madhu

SANDHI:

Swara Sandhi : Savarnadeergha, Ayavayava, Guna, Vrddhi, Yanadesa

Vyanjana Sandhi : Scutva, Stutva, Anunasikadvitva, Anunasika, Latva,

Jastva

Visarga Sandhi : Visarga Utva Sandhi, Visargalopa Sandhi, Visarga

Repha Sandhi, Ooshma Sandhi

SAMASA:

(1) Dwandwa (2) Tatpurusha (Common)

(2a) Karmadharaya (2b) Dwigu

(2c) Paradi Tatpurusha (2d) Gatitatpurusha

(2e) Upapada Tatpurusha (3) Bahuvrihi

(4) Avyayibhava

CONJUGATONS

Ist Conjugations - Bhoo, Gam, Shth	a, Drhs Labh, Mud,
IInd Conjugation – As ()
IIIrd Conjugation – Yudh,	
IV th Conjugation – Ish	
VIII Conjugation – Likh, Kri ()
IXth Conjugation – Kreen ()
Xth Conjugation - Kath, Bhash, Ran	n, Vand,

COURSE OUTCOMES

- 1) The student learns reading and writing Sanskrit
- 2) Understands and learns proper use of Grammar
- 3) Develops communication Skills.

LANG1111: TELUGU

INTRODUCTION \mathbf{L} 3

This course contains a rich selection from Telugu language and literature.

COURSE OBJECTIVES

- 3) To enlighten students about the richness and value of the regional language
- 4) To offer working knowledge of Telugu to the students.

SYLLABUS

(పాచీనకవిత్యం :

1. **太**る) ಯ - గవంగాశవంతనులకథ

ఆవంద్రమహాభారతవం - ఆదిపర్వం - నాల్గవఆశ్్సవం (120-165) ''నరనరుడగుశవంతనునకు'' నువండి ''దివ్యభూషణాలవంకృత'' వరకు

2. తిక్కన - మూపికమార్థాలవృత్తవంతవం

ఆవం(ధమహాభార్థతవం - శ్యంతిపర్యం - మూడవఆశ్ స్వం (202 - 242)

ನುವಂಡಿಸಾಖ್ಯಮು

బవందెన్.

- హవంసీచ్మకవాకసవంవాదవం 3. అల్లసానిపెద్దన

మనుచర్మితము - ఆరవఆశ్ స్వం (62-68) ''గవంగాతరవంగిణి'' నువండి ''జవంభారిభిదురసవంరవంభవంబు'' వరకు

- ఎఱుకత్తేవవంకటాచలమాహాత్మ్యంఆ ${\bar{s}}$ ్సవం (4-51) 4. తరిగవండవవంగమావంబ

''వకుళనునేనావివాహ్మపయత్నవంబు'' నువండి ''అనియిట్్ల" వరకు

ఆధునికకవిత్యం

5. గరిమెళ్ళసత్యనార్యణ - మాకొద్్ద్దతెల్లదొరతనము

6. 33 - మహ్మాపసాథానవం

7. జాపువ - ముసాపరులు

8. పుట్టపరీతనార్యణాచారు్యలు - మేఘదూతముకథానికలు

 ⇒ensina - గాలివాన 10. కొలకటూరిఇనాక్ - ఆకలి

11. కేతువిశ్చాథరెడిడి - నమ్మకున్న నేల 12. పాట్లపల్లిలర్మార్స్టు - జెలువ్యకరణవం

- సవర్జుడ్ల, గుణ, యణాదేశ, వృదిధి, 1885, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 1685, 113. సవందులు

రుగాగమ, టాగమ, ఆమ్రోడిత, ఆత్సవంధి మొదలైనవి.

- తతుపురుష, కర్మధారయ, ద్వంధ్, దిగు, బహ్మువీహీ 14. సమాసాలు

మొదలైనవి.

COURSE OUTCOMES

- 1) The student learns reading and writing Telugu
- 2) Understands and learns proper use of Grammar
- 3) Develops communication Skills.

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HRMG1021	Human Resource Management	L	T	P	S	J	C
		3					3
Course owner Department of HRM			Syllabus version 1.0				
Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	
Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
Alternate Exposure							

This course aims to provide the students with a basic understanding of the concepts, systems of human resource development in organizations. The turbulent business climate, caused by increased global price competitiveness, changing technologies, changing employment legislation, and challenging workforce composition, is challenging managers to utilize their employees more effectively to gain a competitive advantage. In recent years, there have been significant practical developments, with increasing numbers of private and public sector organizations adopting HRM initiatives alongside downsizing and reengineering the organization.

Course Objectives

- To develop competencies and knowledge of students to become Human resource management professionals.
- To orient students in the field of Logistics
- To help students to understand Human resource management

UNIT –I Introduction

No of Hours 05

Introduction to HRM – Functions of HR management – Qualities of HR manager – Role of HE Executives – International HRM – Concepts of IHRM – Approaches of IHRM – Features of IHRM – Importance of IHRM – Factors affecting IHRM.

Learning Outcomes:

After completion of this unit, the student will be able to

- Identify the difference between the traditional view of human resource L1 management (HRM) and IHRM's current view.
- Describe the HR challenges and Skills L2
- Understanding alternative approaches to managing human resources and L5 appreciating the diversity of factors that motivate workers.

Pedagogy tools: Blended learning, Case let video lectures, self-reading, corporate reports, and online tools for proper engagement. (Menti Meter, Kahoot)

UNIT -II Procurement

No of Hours 10

Human Resource Planning – Objectives of HR Planning – HR Planning at different levels – Process of HR Planning – Job Analysis and Design: Job Analysis Information – Uses of Job Analysis – Process of Job Analysis – Methods of Collecting Job Analysis Data – Job Description – Recruitment and Selection – Recruitment Policy – Objectives of Recruitment – Selection Procedure – Essentials of Selection – Process -steps in the selection procedure.

Learning Outcomes:

After completion of this unit, the student will be able to

- Describe the process of workflow analysis and identify why it is essential to L2 HRM.
- Briefly discuss the significant challenges and constraints involved in the L3 recruiting process.
- Understands various steps in the selection process and why it is so essential to L1 the organization.

Pedagogy Tools: Case let, video lectures, self-reading, TED talks, Online dashboards for recruitment and

UNIT –III Development

No of Hours 10

Promotion, Transfer, Job Rotation & Career Planning, Career Development – Need for Career Planning – Career Development – Suggestions for Effective Career Development – Performance Appraisal – Evaluation Process – Performance Appraisal Methods – Management by Objectives – Behaviorally Anchored Rating Scale – Pitfalls in Performance Appraisal – Uses of Performance Appraisal.

Learning Outcomes:

After completion of this unit, the student will be able to

- Understand the concepts of Career Planning and Development L1
- Describe the concepts of gamification, digital learning, and micro-learning and L5 why they have become more critical in today's organizations.
- Identify the difference between performance management and performance L2 appraisals.
- Identify some of the common problems and how to avoid the problems with L2 performance appraisals.

Pedagogy Tools: Case let, video lectures, self-reading, Online survey and assessment, HR executive Interviews.

UNIT -IV Compensation and Maintenance

No of Hours 10

Employee Training and Development – Steps in Training Programmes – Training Evaluation – Areas of Training – Importance of Learning – Employee Training Methods – Evaluating Management Development Program. Compensation Management – Process of Job Evaluation – Techniques of Job Evaluation – Advantages of Job Evaluation – Types of Incentive Plans – Employee Benefits – Objectives of Employee Benefits.

Learning Outcomes:

After completion of this unit, the student will be able to

- List various factors determining pay rates.
- Understands the significant difference between training and development and L1 identify the everyday situations where may be needed.
- Understands the difference between primary and supplementary compensation L2
- Understands how Employee Benefits helps for organization effectiveness L4

Pedagogy tools: Case let, video lectures, self-reading, Minor survey and report writing, Report analysis and Trend analysis on compensation, Industrial visit to know about the QWL standards

UNIT – V Integration and Separation

No of Hours 10

Occupational Safety and Health – Causes of Safety and Health Problems at the workplace – Provisions to prevent accidents in the workplace – Stress and Consequences on Employee performance. Grievance Handling – Concept of Grievance – Causes of Grievance – Effective Grievance Redressal – Steps in Grievance Redressal procedures. Discipline Action – Aims and Objectives of Discipline – forms and types of discipline – principles of maintaining discipline – Disciplinary procedure – types of disciplinary actions – dismissal.

Learning Outcomes:

After completion of this unit, the student will be able to

- Analyze the role of the supervisor in employee safety and minimize accidents L4 at the workplace.
- Discuss the various provisions to prevent accidents in the workplace L3
- Describe the laws for grievance and maintain the discipline procedure in the L2 company

Pedagogy tools: Case let, video lectures, self-reading, Roleplays, Group discussions, Discussions with Union/Welfare officer for industry exposure.

Course Outcomes:

- 1. Explain the traditional view of human resource management.
- 2. Describe the process of workflow analysis.
- 3. Explain the career planning and development.
- 4. The process of compensation and maintenance.
- 5. Analyze the role of supervisor in employee safety.

Textbook(s):

- Gary Dessler & Biju Varkkey, "Human Resource Management," Pearson, New Delhi, 16th edition.
- George W Bohlander, Scott A Snell, "Principles of Human Resource Management," Cengage Learning, 2017.16th edition.
- Aswathappa, K., Human Resource and Personnel Management: Text & Cases, TMGH
- Subba Rao, P., Personnel and Human Resource Management (Text & Cases), Himalaya

Reference Book(s):

- Edwin B Flippo, "Personnel Management," Tata McGraw Hill Publishing, New Delhi, 1984
- John H. Bernardin, "Human Resource Management An Experiential Approach," Tata McGraw Hill, New Delhi, 2013
- Mirza, Saiyadain, "Human Resource Management," Tata McGraw Hill, New Delhi, 2013
- Gary Dessler & Biju Varkkey, "Human Resource Management," Pearson, New Delhi, 2015 14th edition.

Journal(s)

- Harvard Business Review, Harvard Business School Publication USA
- People Matters online Magazine
- Human Capital Magazine
- Vikalpa, Indian Institute of Management, Ahmedabad

Website(s):

	Programme Objectives (POs)									PSO	PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	1	1	0	2	2	1	0	1							
CO2	2	3	1	2	2	0	1	2							
CO3	1	2	1	2	2	0	1	0							
CO4	1	1	0	2	2	0	2	2							
CO5	1	2	3	2	1	0	2	2							

1-Low, 2- Medium and 3- High Correlation

ACCN1131 Management and Cost	L	T	P	S	J	C
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TA		Accounting						
G SERVE I			3					3
* STRING	Course owner	Department of Finance	Syllabus		1.0)		
AND TO BE UNIVERS			version					
10000000	Course Pre-	NIL	Coı	ntact	hour	S	45	
	requisite(s)							
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

This course is designed with an overview to management and cost accounting, It focuses on cost concepts, cost units, activity based costing. This course will give more insights of managerial decision-making process based on financial statement analysis of the firm. It also concentrates on standard costing concepts where to measure the performance of the work. It would be a tool to analyse the various kinds of variances.

Course Objectives

- 1. To develop competencies and knowledge of students to become Management and cost accounting professionals
- 2. To orient students in the field of Logistics
- 3. To help Students to understand Management and cost accounting

UNIT-I Cost Accounting

Concept of Cost Centres - Cost Units - Classification of Cost—Overheads-Simple Cost Sheet—historical and estimated cost Sheets - Tenders and Quotations-Contract costing- Activity based costing (ABC). Management Accounting: Meaning and Definition-Nature and Scope -Objectives of Management Accounting-Importance and Limitations - Management Accounting vs. Cost Accounting.

No. of Hours: 8

Learning outcomess:

After completion of this unit, the studentwillbeableto

• Understand the basics Cost Accounting Principles, Concept of Tenders & cost sheet.

L1

• Can know how to prepare cost sheet, activity based costing

L4

• Can understand management accounting and cost accounting L2

Pedagogytools: Blended learning, Case let, video lectures, self-reading/Practice

UNIT – II Marginal Costing & Break Even Analysis NoofHours: 10

Marginal Costing and Cost-Volume-Profit (CVP) analysis: meaning, concept - assumptions and practical applications of Break - even analysis - decisions regarding sales mix - make or buy - limiting factor - export decision - plant merger - shut down of a product line-DuPont Analysis.

LearningOutcomes:

After completion of this unit, the student will be able to

Understand marginal costing analysis
 Knowing about decision making skills
 Understand DuPont analysis
 L3

Pedagogytools:Blended learning, Case let, self-practice

UNIT-III Budgeting & Budgetary ControlNoofHours: 10

Budget and Budgetary Control: Meaning, - establishing a system of Budgetary Control - Preparation of Sales - Production - Cash Budget - Fixed and Flexible budgets, Master budget - Zero based budgeting

LearningOutcomes:

Aftercompletion of this unit, the student will be able to

•	Understand various budgetary control techniques	L2
•	Aware of establishing a system of Budgetary Control	L3
•	Understands various budgets and their preparation.	L5
•	Can know how to prepare zero based budget and performance budgets	L5

Pedagogytools: Blended learning, Case let, video lectures, self-reading/practice

UNIT- IV Analysis of Financial Statements NoofHours: 10

Analysis and Interpretation of Financial Statements: Objects - importance - Types of financial analysis - Comparative statements - Common size statements, Ratio analysis - Preparation of Balance sheet using ratios Funds flow analysis: Funds flow statement - Preparation - Cash flow statement - cash flow analysis - Analysis of income statements of ports/shipping companies.

LearningOutcomes:

Aftercompletion of this unit, the student will be able to

- Understand the financial statements analysis
- L2
- Can analyse financial statement by using different techniques like ratios, funds flow statement L5
- Can able to analyse income statement of ports/shipping companies. L5

Pedagogytools:Blended learning, Case let, video lectures, self-reading/practice

UNIT – V Standard Costing & Variance Analysis NoofHours: 10

Standard Costing and Variance Analysis: Meaning of Standard Cost - Relevance of Standard Cost for Variance Analysis – Significance of Variance Analysis – Computation of Standard Costs for Materials, Labour and Overhead Variances- Comparison between Budgeting and Standard Costing – Variance reporting- Responsibility Accounting – Meaning and Objects – types of Responsibility Centres-Management Reporting.

LearningOutcomes:

Aftercompletion of this unit, the student will be able to

•	Understand importance of standard costing and variance analysis	L2
•	Computation of standard cost for material, labor and overheads	L4
•	Understand comparison between budgeting and standard costing	L2
•	Understand how to create responsibility centres	L5

Pedagogytools:Blended learning, Case let, video lectures, self-reading

Course Outcomes:

- 1. Basic Principles of cost accounting.
- 2. Explain the Break-Even analysis.
- 3. Establishing a system of budgetary control.
- 4. Understand the financial statement analysis.

5. Importance of standard costing and Variance Analysis.

Textbook(s):

- 1. MAHESHWARI,S.N.,(2013)Cost and Management Accounting.14th edition
- 2. JAIN, S.P. &NARANG, K.L. (2014) Cost and Management Accounting.14th Edition, Kalyani publishers: New Delhi

Reference Books:

- 1. TULSIAN, P.C. (2000) Practical Costing. Vikas Publications: New Delhi.
- 2. SAXENA, V.L. &VASHISHT (2014) Advanced Cost & Management Accounting-Problems & Solutions. Prentice Hall of India.
- 3. MAHESHWARI, S.N. (2014) Principles of Management Accounting. Sultan Chand & Sons.
- 4. MURTHY&GURUSAMY (2009) Management Accounting. Tata McGraw Hill: New Delhi.
- 5. REDDYT.S&HARI PRASAD REDDY (2014) Cost &Management Accounting. Margham Publications.

Journal(s):

- 1. GITAM Journal of Management, GITAM University
- 2. The Chartered Accountant, New Delhi.
- 3. The Management Accountant, Kolkata,
- 4. Journal of Management Accounting and Research, Jaipur.
- 5. Indian Journal of Commerce, IGNOU, New Delhi.

Websites:

1. https://icmai.in/icmai/index.php

	Prog	Programme Objectives (POs)													PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3			
CO1	1	0	0	0	0	0												
CO2	1	2	0	1	0	0												
CO3	2	2	3	2	1	2												
CO4	2	2	3	2	1	2												

1-Low, 2- Medium and 3- High Correlation

LEVEL - 1

	OPTS1021	Fundamentals of Logistics	L	T	P	S	J	C
T T A			3					3
S SERVE I	Course owner	Department of Operations	Syllabus version			1.0		
STATE STATE	Course Pre-requisite(s)	NIL	Contact hours 4					
TO BE UNIVERS	Course Co-requisite(s)	NIL	Date Approved					
	Alternate Exposure							

Fundamental of Logistics is primarily concerned with the efficient integration of transporters, suppliers, factories, warehouses and stores so that merchandise is produced and distributed in the right quantities, to the right locations and at the right time, and so as to optimize cost subject to satisfying service quality requirements.

Therefore, this course is designed to:

- Understand the process model of logistics that describes movement of goods and services to the customers' end.
- Know the role of logistic managers, in particular the importance of focusing on whole supply chain who are outside this boundary, as well as on other aspects of the logistics management.

Course Objectives

- 1. Understand the fundamental of logistics management using manufacturing and service examples.
- 2. Identify the roles and responsibilities of logistics managers in different organizational contexts.
- 3. Apply the inventory and warehousing management concepts for decision-making
- 4. Analyze the various services to identify areas for improvement
- 5. Evaluate strategies for improvement in transportation and movement contexts

UNIT - I Introduction to Logistics

History of Logistics Need for logistics - Cost and Productivity, cost saving &Productivity Improvement. Logistics Cost, reduction in logistics cost, benefits of efficient Logistics, Principles of Logistics, Technology & Logistics - Informatics, Logistics optimization. Listing of Sub – sectors of Logistics.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Illustrate the evolution of logistics	L1
	Explain the role of logistics in an organization	L2
•	Appreciate the dimensions that make up the logistics management	L2
•	Analyze the need and importance of logistics in supply chain	L4
•	Evaluate the crucial role of logistics management in organizational	L5
	success	

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - II Logistics and Customer Service

No of Hours: 9

No of Hours: 9

Definition of Customer Service Elements of Customer Service - Phases in Customer Service - Customer Retention - Procurement and Outsourcing - Definition of Procurement / Outsourcing -

Benefits of Logistics Out sourcing - Critical Issues in Logistics.

Learning Outcomes:

After completion of this unit, the student will be able to

- Understand the concept of customer service elements L2
- Explain the phases of customer service L2 •
- Evaluate the advantages of customer retention L5
- Analyze the factors that influence the choice and benefits of logistical services outsourcing L4
- Analyze the critical issues in logistics L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - III Global Logistics

No of Hours: 9

Global Supply Chain - Organizing for Global Logistics - Strategic Issues in Global Logistics - Forces driving Globalization - Modes of Transportation in Global Logistics Barriers to Global Logistics - Markets and Competition - Financial Issues in Logistics Performance - Integrated Logistics - Need for Integration - Activity Centres in Integrated Logistics. Role of 3PL & 4PL.

Learning Outcomes:

After completion of this unit, the student will be able to

 Analyze the markets and competition 	L4
•Understand the concept and organization of logistics globally	L2
• Evaluate financial issues in logistics performance	L5
• Understand the role of 3PL & 4PL	L2
• Analyze the importance of integration of activity centres	L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - IV Warehouse No of Hours: 9

Warehouse - Meaning, Types of Warehouses Benefits of Warehousing. Transportation - Meaning; Types of Transportations, efficient transportation system and benefits of efficient transportation systems; Courier/Express - Courier/Express - Meaning, Categorization of Shipments, Courier Guidelines, Pricing in Courier - Express Sector for international and domestic shipping E-Commerce - Meaning, Brief on Fulfilment Centres, Reverse logistics in e -commerce sector, marketing in e -commerce and future trends in e-commerce

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand concept and need of warehouse	L2
•	Apply various strategies of warehousing	L3
•	Explain the benefits and importance of efficient transportation system	L2
•	Understand marketing and reverse logistics process in e-commerce sector	L2
•	Analyze future trends in e-commerce	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - V EXIM No of Hours: 9

Brief on EXIM / FF & CC, Multi - modal transportation, brief on customs clearance, bulk load handling and brief on transshipment; Supply chain, Cold chain, Liquid Logistics, Rail Logistics.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the custom clearance process in international business	L2
•	Apply bulk breaking concept.	L3
•	Explain the process of custom clearance	L2
•	Evaluate the various supply chains like cold chain, liquid logistics, etc.	L5
•	Analyze transhipment method.	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

COURSE OUTCOMES:

- 1. Explain the role of logistics in the organization.
- 2. Analyze the critical issues in the logistics.
- 3. Analyze the concept of logistics in globally.
- 4. Apply the various strategies in warehousing.
- 5. Analyze the transshipment method.

Textbook(s):

1. Fundamentals of Logistics Management (The Irwin / Mcgraw - Hill Series in Marketing), Dougl as Lambert, James R Stock, L is a M. Ellram, Mc Graw - hill/Irwin, First Edition, 1998.

Additional Reading

Reference Book(s):

- 1. Fundamentals of Logistics Management, David Grant, Douglas M. Lambert, James R. Stock, Lisa M. Ellram, McGraw HillHigherEducation,1997.
- 2. Vinod V. Sople (2009) Logistic Management (2nd Edn.) Pearson Limited.
- 3. Logistics Management for International Business: Text and Cases, Sudalaimuthu & Anthony Raj, PHI Learning, First Edition, 2009.

Journal(s):

- 1. International Journal of Logistics Management, Emerald publisher.
- 2. FIIB Business Review, Sage Publisher.

Website(s)

1.www.poms.org

	Programme Objectives (POs)												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	0	0	0	0	0	0	0							
CO2	3	2	1	0	2	2	0	0							
CO3	0	3	0	3	0	0	0	0							
CO4	3	0	0	2	3	0	0	0							
CO5	0	0	3	0	3	0	0	0							

1-Low, 2- Medium and 3- High Correlation

OPTS1041	Materials Management	L	T	P	S	J	C
		3					3
Course owner	Department of Operations	Syl	Syllabus version		ion	1.0)
Course Pre-requisite(s)	rse Pre-requisite(s) NIL Contact		ntact	hour	S	45	

T TA	Course Co-requisite(s)	NIL	Date Approved
SERVE OF THE PROPERTY OF THE P	Alternate Exposure		
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Materials Management involves inventory management, value analysis, storekeeping, maintenance and upkeep of the inventories in hand and process. The objective of Materials Management is to provide an unbroken chain of components for production to manufacture goods on time for the customers.

Materials management is concerned with management functions supporting the complete cycle of material flow, from the purchase and internal control of production materials to planning and control of work in process, to warehousing, shipping and distribution of the finished product. The following are the primary objectives of Materials management- Low Prices, Lower Inventories, Reduction in Real Cost, Regular Supply, Procurement of Quality Materials, Efficient handling of Materials and Enhancement of firm's goodwill.

Therefore, this course is designed to:

- Understand the utilization of materials management from the basic understanding to purchasing and inventory management in the system.
- Know the role of planning of material requirement, quality control and standardization of inventory.

Course Objectives

- 1. Understand the basics of materials management and tradeoff between customer service and cost.
- 2. Identify the roles of purchasing, negotiation, bargaining and the vendor relations.
- 3. Apply the knowledge in forecasting the demand, material requirement planning and bill of materials.
- 4. Analyze and control the quality of material.
- 5. Evaluate strategies for optimization of the handling and transportation cost.

UNIT - I Introduction to Material Management

Introduction: Materials Management - Evolution, Importance, Scope and Objectives - Interface with other functions. Concept of Logistics and Supply Chain Management and evolution to 4PL- Supply Chain Management-Objectives, Components, Significance, Trade off Customer Service & Cost.

No of Hours: 09

No of Hours: 09

Learning Outcomes:

After completion of this unit, the student will be able to

•	Explain the role of materials management in an manufacturing industry	L2
•	Illustrate the dimensions - supply chain management, third party logistics, and fourth party logistics.	L2
•	Analyse the interface of materials management with other related functions.	L4
•	Evaluate the crucial role of materials management in taking competitive advantage.	L5
•	Apply different strategies for making a trade off among cost, customer service levels and quality.	L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - II Purchasing in Materials Management

Purchasing: Purchasing in Materials management- system concept- purchasing and procurement activities under Materials management- Value Analysis and value Engineering- Purchasing and quality Assurance-

Purchase Cycle- Negotiation & Bargaining- Vendor relations- Purchasing Methods-Global Sourcing-Stores-Functions, Importance, Organization of stores

& Stores layout. Stores procedure-documentation

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the activities related to material procurement.	L2
•	Explain the role of value engineering and purchase cycle.	L2
•	Evaluate the value analysis and quality assurance.	L5
•	Analyse the vendor selection.	L4
•	Analyse the global sourcing and the store layout.	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - III Inventory Management & Material Requirement Planning No of Hours: 09

Inventory- Need of Inventory- Types of Inventory- Basic EOQ Model- EOQ with discounts- Classification of material- ABC

Analysis- VED, HML, FSN, GOLF, SOS (Numerical expected on Basic EOQ, EOQ with discounts & ABC)

Material Requirement Planning (MRP)- Advantages over conventional planning (Order Point Method)— Input and output of MRP system- Forecasting— Overview of quantitative and qualitative methods of forecasting- Master Production ScheduleBill of Materials— BOM Explosion- Material flow in MRP.

MRPII. Concept of ERP. (Numerical likely on BOM Explosion, estimating Net

requirements) Learning Outcomes:

After completion of this unit, the student will be able to

- Analyse the reorder point and economic order quantity. L4 •Understand the importance of material classification and can classify the materials by L2 various techniques.
- Evaluate the material requirement planning and strategies to meet demand. L5
- Understand the master production schedule and evaluate the bill of material. L2
- Apply the concept of ERP for material management. L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - IV Quality Control of Material

Quality control of material: Incoming material quality control- statistical quality control- governmental purchasing practices and procedures- Inventory control & Cost Reduction techniques: Inventory turns ratios- Standardization— need and importance. Codification— concept, benefits. Value Engineering and Value Analysis— concept and process.

No of Hours: 09

No of Hours: 09

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the role of quality control in material management.	L2
•	Apply the statistical quality control techniques.	L3
•	Analyse the optimization of cost of material.	L4
•	Understand the process of value analysis.	L2
•	Apply the cost reduction techniques in real cases.	L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - V Material Handling and Storage Systems

Materials handling and storage systems, Physical distribution logistics - transportation, Traffic and claims management - operations research and related techniques- Principles of Materials Handling system - Materials Handling Equipment—Safety issues.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the need for material handling and storage systems.	L2
•	Apply the operations research techniques.	L3
•	Explain the material handling equipment.	L2
•	Understand the principles of material handling system.	L2
•	Analyze the safety issues in material management.	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

COURSE OUTCOMES:

- 1. Explain the role of materials management in manufacturing industry.
- 2. Analyze the activities related to materials procurement.
- 3. Apply the concept of EPR for materials management.
- 4. The process of value analysis.
- 5. Explain the material handling equipment.

Textbook(s):

1. Datta A.K. Materials Management, Procedures Text and Cases, PHI Learning Private Limited.

Additional Reading

Reference Book(s):

- 1. Arnold, J. K., Introduction to Materials Management, 6th Ed., Pearson Education Limited.
- 2. Sharma, S. C., Materials Management and Materials Handling, Khanna Publishers.

Journal(s):

- 1. International Journal of Logistics Management, Emerald publisher.
- 2. Journal of Purchasing and Materials Management, Wiley publisher.

Website(s)

1.www.poms.org

		Programme Objectives (POs)											PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	0	0	0	0	0									
CO2	3	1	2	0	1	2									
CO3	0	3	0	3	0	0									
CO4	3	0	0	2	0	2									
CO5	0	0	3	0	2	0									

1-Low, 2- Medium and 3- High Correlation

OPTS1051	Warehousing and Distribution	L	T	P	S	J	C
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	Centre Operations						
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Course owner	Department of Operations	Syllabus		1.0			
		version		version			
Course Pre-	NIL	Contact hours		45			
requisite(s)							
Course Co-	NIL	Date Approved					
requisite(s)							
Alternate Exposure			•	•			

The course deals with various approaches, and techniques used in the design and operation of warehouse and distribution process of global supply chains. The material is taught from a managerial perspective, with an emphasis on where and how specific tools can be used to improve the overall performance of logistics system. We place a strong emphasis on the development and use of basic and analytical knowledge to illustrate the underlying concepts involved in both intra- and inter-company logistics operations.

Course Objectives

- 1. To develop competencies and knowledge of students to become warehouse professional
- 2. To orient students in the field of logistics
- 3. To help Students to understand warehousing and distribution centre operations
- 4. To apply the basic knowledge of warehousing and distribution centre operations in the real-life situation
- 5. To incorporate and manage uncertainty and risk associated with warehouse and distribution operations

No of Hours: 09

No of Hours: 09

UNIT - I Introduction to Warehouse

Introduction to Warehouse (Storage and Packaging) Background – Need for Warehouse– Importance of warehouse-Types of Warehouses-Broad functions in a warehouse-warehouse layouts and layout related to functions. Associate warehouseIts functions-equipment available in associate warehouse-Video on warehouse–Visits to warehouses-Warehouse Organization Structure-Benefits of Warehousing.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Explain the need and importance of warehouses in an organization	L2
•	Classify the different types of warehouses	L2
•	Describe the broad functions of warehouses	L2
•	Analyze the warehouse layouts and layout related to functions	L4
•	Explain the benefits of warehousing	L2

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - II Receiving and Dispatch of Goods in warehouse

Receiving and Dispatch of Goods in warehouse Various stages involved in receiving goods-Stages involved receipt of goods-Advanced shipment notice (ASN) or invoice items list-Procedure for Arranging of goods on dock for counting and Visual inspection of goods unloaded-Formats for recording of goods unloaded from carriers-Generation of goods receipt note using computer-Put away of Goods-Put away list and its need-Put away of goods into storage locations-storage location codes

and its application-Process of put away activity-Procedure to Prepare Warehouse dispatches

Learning Outcomes:

After completion of this unit, the student will be able to

- Explain various stages involved in receiving goods.
- Explain advanced shipment notice (ASN) or invoice items list L2
- Illustrate the procedure for arranging of goods on dock for counting and visual inspection L2
- Describe the process of put away activity L2
- Explain the procedure to prepare warehouse dispatches L2

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - III Warehouse Activities

Warehouse Activities Explain receiving, sorting, loading, unloading, Picking Packing and dispatch, activities and their importance in a warehouse-quality parameters-Quality check-need for quality check-importance of quality check. Procedure to develop Packing list / Dispatch note-Cross docking method- Situations suited for application of cross docking information required for coordinating cross docking-Importance of proper packing-Packing materials-Packing machines reading labels

Learning Outcomes:

After completion of this unit, the student will be able to

- Understand the basic warehouse activities and their importance L2
- Analyse the parameters for quality checking
- Understand the procedure to develop packing list or dispatch note L2
- Apply cross docking method L3
- Explain the importance of proper packing L2

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - IV Warehouse Management

No of Hours:09

No of Hours: 09

Warehouse Management: Warehouse Utilization Management - Study on emerging trends in warehousing sector-DG handling-use of Material Handling Equipment's in a warehouse-Inventory Management of a warehouse-Inbound & Outbound operations of a warehouse and handling of Inbound & Outbound operations. Distribution—Definition—Need for physical distribution—functions of distribution—marketing forces affecting distribution. The distribution concept—system perspective. Channels of distribution: role of marketing channels—channel functions—channel structure—designing distribution channel—choice of distribution channels

Learning Outcomes:

After completion of this unit, the student will be able to

L2
L3
L4
L2
L5

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - V Warehouse Safety Rules and Procedures

Warehouse Safety Rules and Procedures: The safety rules and Procedures to be observed in a Warehouse-Hazardous cargo—Procedure for Identification of Hazardous Cargo-safety data sheet-Instructions to handle hazardous cargo—Familiarization with the industry. Health, Safety & Environment-safety Equipment and their uses—5S Concept on shop floor. Personal protective Equipment's (PPE) and their uses.

No of Hours: 09

Learning Outcomes:

After completion of this unit, the student will be able to

•	Apply the safety rules and procedures to be followed in a	L3
	warehouse	
•	Analyze safe handling of the hazardous cargo in a warehouse	L4
•	Explain the safety equipment and their uses	L2
•	Apply 5S Concept on shop floor	L3
•	Understand the personal protective equipment and their uses	L2
D. J.		

Pedagogy tools: Blended learning, case study, video lectures, self-reading

COURSE OUTCOMES:

- 1. Classify the different types of warehouse.
- 2. Explain the concept of put away activity.
- 3. Apply docking method.
- 4. Explain the need for physical distribution.
- 5. Apply the safety rules and procedures to be followed in a warehouse

Textbook(s):

- Course Material Prepared by LSC
- 2. JP Saxena, Warehouse Management and Inventory Control-Vikas Publication House Pvt Ltd,

First Edition, 2003. Additional Reading

Reference Book(s):

- 1. Warehouse Management: Automation and Organisation of Warehouse and Order Picking Systems [WithCDROM], Michael Ten Hompel, Thorsten Schmidt, Springer-verlag, First Edition, 2006.
- 2. Management Guide to Efficient Money Saving Warehousing, Stephen Frey, Gower, 1982.
- 3. Kapoor Satish K., and Kansal Purva, 'Basics of Distribution Management: A Logistical Approach', Prentice HALL of India

Journal(s):

- 1. Journal of Purchasing and Materials Management
- 2. Journal of Operations Management
- 3. International Journal of Production and Operations Management
- 4. International Journal of Production Economics
- 5. International Journal of Production Research

	Programme Objectives	PSOs
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		(POs)													
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	1	3	2	1	2									
CO2	3	2	3	0	2	3									
CO3	2	3	3	0	0	0									
CO4	2	1	3	2	0	2									
CO5	3	2	3	0	0	0									

1-Low, 2- Medium and 3- High Correlation

OPT	S1071	Freight Forwarding (Oceani and	L	T	P	S	J	C
		Cargo)						

T T A			3	3
SERVE T	Course owner	Department of Operations	Syllabus	1.0
STRING STRING			version	
O BE UNITERS	Course Pre-	NIL	Contact hours	45
(2000)	requisite(s)			
	Course Co-requisite(s)	NIL	Date Approved	
	Alternate Exposure			

Freight forwarding entails the logistical arrangement of intermodal transport of commodities across international borders, on behalf of shippers. Duties include freight rate negotiating, container tracking, strategizing, and much more. Therefore, this course is designed to:

- Understanding and developing competencies of students to become freight forwarding professionals
- Know the role of freight forwarding agent, their responsibilities and orient the students on the cargo handling of both ocean and air in the real-life situation

Course Objectives

- 1. Understand the concept of freight forwarding
- 2. Identify the roles and responsibilities of freight forwarding agent
- 3. Apply the inventory and warehousing management concepts for decision-making
- 4. Analyze the various services to identify areas for improvement
- 5. Evaluate strategies for improvement in transportation and movement contexts

UNIT - I Introduction to EXIM

Freight forwarding and custom clearance – types of custom clearances – Importance of custom clearance – certificate of origin, ICEGATE and insurance – custom Act – Regulations per training to custom clearance – different modes of freight forwarding – domestic and international freight forwarding networks–process of freight forwarding

No of Hours: 9

No of Hours: 9

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the process of import and export	L2
•	Explain the various terms related to EXIM management	L2
•	Appreciate the dimensions that make up the EXIM management	L2
•	Analyze the need and importance of freight forwarding agent in	L4
	supply chain process	
•	Evaluate the crucial role of EXIM management in organizational	L5
	success	

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - II Multi-modal transportation

Vendor management - bulk load handling - brief on trans-shipment - DG handling - customer acquisition and management - Customs clearance procedure - Documents and its importance - Stages of Documentations process and procedures - Documentation types and filing processes - Details of documents as per the format approved by the Customs - The requirement of documents for pre - shipment and requirement of documents for Import - DO's and DON'T's while handling different documents during Custom Clearance.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the concept of multi-modal transportation	L2
•	Explain the procedures of custom clearance	L2
•	Evaluate the advantages of vendor management	L5
•	Analyze various stages of documentation process and procedure	L4
•	Analyze the do and don'ts for handling different documents during custom	L4
	clearance	

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - III **Operation Procedures of Freight Forwarding** No of Hours: 9

The procedures for Pre-Operating Checks and Operational checks to be performed for every shipment / consignment - List of basic handling of errors and the Operational errors that occur in common - Procedure for checking of shipping bill, Airway bill based on invoice and packing list received from department for Freight Forwarding. Regulations (EXIM / IATA / Countries) / COM based on per mutations and combinations of weight vs volume

Learning Outcomes:

After completion of this unit, the student will be able to

•	Analyze the importance freight forwarding agent	L4
•	Understand the concept of operation procedures of freight forwarding	L2
•	Evaluate various operational errors that occur in common	L5
•	Understand the procedure for checking shipping bill, airway bill, etc. on	L2
	invoice and packing list received from department for Freight Forwarding	
•	Analyze the importance of integration of activity centres	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Cargo handling UNIT - IV

No of Hours: 9

INCO terms and terminologies used in Cargoes-Different, Types of Cargoes for transportation. Full Export and Import value of the cargo – Importer and exporter Code (IEC), The registered PAN based Business Identification Number received from the Directorate General of Foreign Trade - Different type of Cargo, their quantity and value - Packaging requirement for the cargo during shipment from the shipper -Inspection procedure for the cargo while unloading - DO's and DON'T's while handling different cargo -Basic Regulation pertaining to Cargo movement by Air, Sea, and Land. Climatic conditions of different routes indifferent seasons.

Learning Outcomes:

After completion of this unit, the student will be able to

Understand concept and importance of cargo handling	L2
Apply various strategies of cargo handling	L3
Explain the INCO terms	L2
Understand various types of cargo which are used in the shipment process	L2
Analyze the basic regulation of cargo movement by various modes	L4
	Apply various strategies of cargo handling Explain the INCO terms Understand various types of cargo which are used in the shipment process

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - V Freight forwarding documentation No of Hours: 9

Documentation of Freight Forwarding process as per customer time lines and requirements - Carting, unloading, Stacking, Loading; and Stuffing- Procedure for dealing with loss or damage to goods- Different P.G. A and their roles. Technical knowledge on Containers; pallets; Palletisation; Fumigation - The general reporting processes and time frames - Different airline / shipping line available for different routes - Letters of Credit and payment Terms. Etc. - Movement policy - Details of the transport available in Different routes - Organization fees, charges structure and Organizational procedures - computer and its application in internal systems of documentation

Learning Outcomes:

After completion of this unit, the student will be able to

	1	
•	Understand the documentation process for freight forwarding	L2
•	Evaluate letter of credit and payment terms	L5
•	Explain the process for carting, unloading, stacking, loading; and stuffing	L2
•	Evaluate the cost involved in the transportation process.	L5
•	Analyze details of the transport available in different routes	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Course Outcomes:

- 1. The Process of Freight Forwarding Process.
- 2. Concept of Surface Transportation.
- 3. Operation process of Freight Forwarding.
- 4. Significance of Cargo Handling.
- 5. Analysis of Freight Forwarding Documentation.

Textbook(s):

1. JP Saxena, Warehouse Management and Inventory Control-Vikas Publication House Pvt Ltd, First Edition, 2003.

Additional Reading

Reference Book(s):

- 1. Warehouse Management: Automation and Organisation of Warehouse and Order Picking Systems [With CD ROM], Michael Ten Hompel, Thorsten Schmidt, Springer Verlag, First Edition, 2006.
- 2. Management Guide to Efficient Money Saving Warehousing, Stephen Frey, Gower, 1982.
- 3. Kapoor Satish K., and Kansal Purva, 'Basics of Distribution Management : A Logistical Approach', Prentice HALL of India

Journal(s):

1. International Journal of Export Marketing

Website(s)

1. https://ciltinternational.org/

	Programme Objectives (POs)											PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	0	0	0	0	0									

CO2	3	2	2	0	2	3					
CO3	0	3	0	3	0	0					
CO4	3	0	0	3	0	2					
CO5	0	0	3	0	3	0					

1-Low, 2- Medium and 3- High Correlation

	OPTS1081	Forecasting and Inventory Management	L	T	P	S	J	C
			3					3

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Course owner	Department of Operations	Syllabus version	1.0
Course Pre- requisite(s)	NIL	Contact hours	45
Course Co-requisite(s)	NIL	Date Approved	
Alternate Exposure			

Forecasting and inventory management are two components of demand management. Forecasting is needed to make decisions about resource allocation. Accurate forecasts drive better resource allocation and, as a result, help to improve financial performance by decreasing the amount of inventory that a company must carry. Along with forecasting, inventory management is a comprehensive and essential process that influences the company's financial situation and the whole business. The challenge of inventory management is to recommend the appropriate inventory level to be held for each item stocked by the organization and the size and frequency of inventory replenishments. This course provides various concepts and techniques of forecasting and inventory management that would benefit contemporary and evolving futuristic organizations for their stability and prosperity.

Course Objectives

- 1. To understand the basics of demand forecasting and explore different forecasting models
- 2. To demonstrate the concept of sales and operations planning (S&OP) and collaborative planning, forecasting and replenishment (CPFR)
- 3. To understand the basic concepts of inventory management
- 4. To describe the importance of codification and classification
- 5. To apply various inventory models for determining order quantities

UNIT - I Forecasting

Forecasting: meaning—need for forecasts—types of forecasts—time frame-Demand Forecasting- Types of Demand Forecasting-Survey methods and statistical methods-importance of demand forecasting-Demand planning v/s forecasting-Sources of demand-Supply chain dynamics-Key roles and responsibilities

Learning Outcomes:

After completion of this unit, the student will be able to

•	Explain the need and importance of forecasting	L2
•	Explain the time frame of demand forecasting	L2
•	Differentiate between survey methods and statistical methods	L4
•	Compare demand planning v/s forecasting	L4
•	Identify the key roles and responsibilities of supply chain	L2
	dynamics	

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - II Sales and Operations Planning

No of Hours:9

No of Hours: 9

Sales and Operations Planning- S&OP goals and objectives-- S&OP best practices-S&OP meeting activity- Collaborative Planning-Types of collaboration-Collaborative Forecasting-Collaborative

planning, forecasting and replenishment-Ingredients of successful CPFR- Regression analysis and cyclic decomposition techniques. Short-term forecasting techniques-Technology Forecasting– Methodologies: - Trend Analysis, Analogy, Delphi, Soft System Methodology, Mathematical Models, Simulation, System Dynamic-Role of Technology Information Forecasting and Assessment Council (TIFAC).

Learning Outcomes:

After completion of this unit, the student will be able to

•	Explain the goals and objectives of S&OP	L2
•	Describe the best practices of S&OP	L2
•	Identify the ingredients of successful CPFR	L2
•	Analyse the regression and cyclic decomposition techniques	L4
•	Apply various short term forecasting techniques	L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - III Inventory

No of Hours: 9

Inventory: Purpose of Inventory-Goods-Types of Goods-Finished Goods Inventories-General Management of Inventory, Stocks-Types of Stocks, Tracking the Paper Life-Work-in-Process Inventories-Finished Goods & Spare Parts Inventories-Multi-Echelon Inventory Systems- Spare Parts Inventories-Use of Computers in Inventory Management Evaluation of Performance of Materials Function-Criteria and methodology of evaluation- Forecasting model run-Ongoing improvement

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the types and uses of inventories	L2
•	Differentiate between finished goods and spare parts inventories	L4
•	Explain multi-echelon inventory systems	L2
•	Demonstrate the use of computers in inventory management	L2
•	Evaluate the performance of materials function	L5

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - IV Codification

No of Hours: 9

Codification— Classification— Methodology— Requirement of codes—Coding Structure and Design—Advantages- International Codification—Cost and Consequences—Right Quantity—Economic Ordering Quantity—Derivations of EOQ-Costs associated with Inventories- DuPont model- Turnover & Modeling in logistics

Learning Outcomes:

After completion of this unit, the student will be able to

•	Explain the importance of codification and classification	L2
•	Describe the common methods for codification	L2
•	Implement economic order quantity (EOQ) model	L3
•	Understand the relevant costs associated with inventory	L2
•	Analyse the DuPont model for ROE	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - V Influence of production policy on inventory levels No of Hours: 9

Influence of production policy on inventory levels-inventories and customer service level-steps to improve inventory management—optimum inventory to improve profit performance—inventory management under condition for substantial EOQ)—inventory management uncertainty (fixed order

quantity model) - Calculation of safety stocks-Importance of role of inventory- Inventory Management Systems-execution-Ratio Analysis on Inventory, Profit Margin.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Explain the influence of production policy on inventory levels	L2
•	Evaluate when the order point is reached	L5
•	Determine service levels and safety stock	L4
•	Apply fixed order quantity model	L3
•	Perform ratio analysis on inventory	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Course Outcomes:

- 1. Explore different forecasting models.
- 2. Explain the sales and Operation Planning.
- 3. Evaluate the inventory management.
- 4. Explain the concept of codification and classification.
- 5. Perform the ratio analysis on inventory.

Textbook(s):

- 1. Course Material Prepared by LSC
- 2. Sunil Chopra and Peter Meindl, Supply Chain Management Pearson Education Asia, 3rdedition, 2007

Reference Book(s):

- 1. Operations Research Concepts, Problems & Solutions- Kapoor V.K.-Sultan Chand & Sons/2017-978-81-8054-854-3 (TC-532)
- 2. Vijay Kumar Khurana, 2007, Management of Technology and Innovation, Anebooks India, Chennai
- 3. Simchi-Levi, David, "Designing and Managing Supply Chain", Tata McGraw Hill, 3rdEdition, 2007.
- 4. David EMulcahy, "Warehouse Distribution and Operations Handbook, McGrawHill,

6thEdition,1993.

Journal(s):

- Journal of Purchasing and Materials Management
- Journal of Operations Management
- International Journal of Production and Operations Management
- International Journal of Production Economics
- International Journal of Production Research

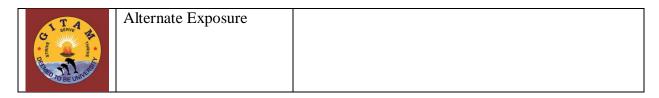
Website(s):

Programme Objectives (POs)	Programme Objectives (POs)	PSOs
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	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	1	1	1	0	3	3									
CO2	2	1	1	0	2	3									
CO3	1	1	2	0	2	0									
CO4	1	0	2	0	2	0									
CO5	2	1	3	0	3	0									

1-Low, 2- Medium and 3- High Correlation

OPTS1091	Surface Transportation	L	T	P	S	J	C
		3					3
Course owner	Department of Operations	Syllabus version				1.0	
Course Pre-requisite(s)	NIL	Contact hours			45		
Course Co-requisite(s)	NIL	Date Approved					



Surface transportation means the movement of people by road, train or ship. Surface transportation means any conveyance of people, goods, or commodities using one or more surface transportation modes. Surface Shipping is a logistics service wherein the shipments are sent through land. It is less expensive but slower than air shipping. Surface shipping is especially preferred for large or heavy deliveries or for sending dangerous goods which are prohibited through the air.

"Surface Transportation & Courier, Express, and Parcel" is concerned with the functions that support in efficient delivery, tracking of material, making rationale decision in case of delays, identifying efficient route for delivery and following the guidelines of transportation. The primary objective is to provide low cost and efficient transportation means to the customers.

Therefore, this course is designed to:

- Help Students to understand basics of surface transportation including road and rail transport
- Develop competencies and knowledge of students to become transportation professionals
- Orient students in the field of Logistics

Course Objectives

- 1. Understand the basics of modes and role of transportation.
- 2. Identify the reasons for delay during transit and corrective actions.
- 3. Apply the knowledge of truck loading and load capacity.
- 4. Analyze emerging trends and pricing strategy in transportation sector.
- 5. Evaluate strategies for vendor coordination for return truck loads.

UNIT - I Introduction to Surface Transportation No of Hours: 9

Introduction to surface transportation - Need for transportations - Role of transportations in logistics - Importance of transportations- Types of transportations metrics - functions of transportations - inter modal transport -various land transport carriers and their Load capacities - pricing and availability- verification of carriers and drivers - transit rules - traffic rules inside warehouse premises - Docking procedure and safety steps. Procedure to Confirm vehicle for loading of goods.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Explain the need and role of transportation.	L2
•	Appreciate the load capacities of various transport carriers.	L2
•	Analyse the carriers, drivers and transit rules.	L4
•	Evaluate the docking procedure.	L5
•	Apply the strategies for selecting the vehicle for transporting goods.	L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - II Tracking of Transport

Tracking of transport:

Transportation Optimisation - Documentation for transportation - GST - E Waybill Filing- Transportation Telematics - Vehicle tracking system - Communication with vehicle driver or transport company - Probable reasons for delay or any issues during transit - Solutions for corrective actions (such as talking to local authorities or break down service assistance) - Roadsigns, List good practices in driving.

No of Hours: 9

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the modes of tracking the goods.	L2
•	Explain the documentation process for transporting goods.	L2
•	Evaluate the reasons for delay in shipment.	L5
•	Analyse the transportation telemetric.	L4
•	Analyse the good practices in transportation.	L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Types of Loading UNIT - III

No of Hours: 9

Types of Trucks and Load capacity / Organisation structure in a Transport organization / Incident management systems & Processes - Explain types of temperature - controlled carriers - Discus hazmat goods rules -Importance of safety data sheet and labels - Procedure for Consolidation of consignments for optimal loads, to verify count of material - Reporting discrepancies such as pilferages, loss or damage of goods in transit - Checking insurance and claims - steps to close deliveries and Coordinate with loading / unloading supervisor.

Learning Outcomes:

After completion of this unit, the student will be able to

•	Analyse the full truck, half truck and other load strategies.	L4
•	Understand the importance of incident management system.	L2
•	Evaluate the importance of safety data sheet and labels.	L5
•	Understand the claim settlement process.	L2
•	Apply the concept of consignment consolidation for optimal loads.	L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Processes for Efficient Deliveries

Benefits of efficient transportation systems / Study on emerging trend in transportation sector/ pricing in transportation sector / govt regulations on transportation in India. Safety procedures during transit and emergency response steps-keeping track of news on traffic and communicate with drivers to identify delays and suggest re - routing - Explain tracking systems-Importance of consignment number - GPS systems and tracking devices - Procedure for downloading and reading tracking data from devices

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the role of efficient transportation system.	L2
•	Apply the pricing strategies in transportation.	L3
•	Evaluate the delays and need of re-routing.	L5
•	Understand the importance of consignment number.	L2
•	Apply the tracking data for calculating expected date of delivery.	L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Measuring the Suitability of Transport Modes No of Hours: 9

Customer Management / Vendor coordination for return truck loads / DG Handling – features and facilities offered by railways factors influencing growth in rail logistics – suitability for different cargo and distance ranges segments-innovative schemes-facilities to popularize rail logistics in India

Learning Outcomes:

After completion of this unit, the student will be able to

•	Understand the need for material handling and storage systems.	L2
•	Apply the operations research techniques	13

Apply the operations research techniques.

Explain the material handling equipment's.
Understand the principles of material handling system.
Analyse the safety issues in material management.

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Course Outcomes:

- 1. Explain the need and role of transportation.
- 2. Evaluate the reasons for delay in shipment.
- 3. Explain the types of loading.
- 4. Determine the role of transportation system.
- 5. Apply the operations techniques.

Textbook(s):

- 1. Martin Christopher, Logistics and Supply chain management.
- 2. JP Saxena, Warehouse Management and Inventory Control-Vikas Publication House Pvt Ltd, First Edition, 2003.

Reference Book(s):

- 1. Warehouse Management: Automation and Organisation of Warehouse and Order Picking Systems [With CD ROM], Michael Ten Hompel, Thorsten Schmidt, Springer verlag, First Edition, 2006.
- 2. Management Guide to Efficient Money Saving Warehousing, Stephen Frey, Gower, 1982.
- 3. Kapoor Satish K., and Kansal Purva, 'Basics of Distribution Management : A Logistical Approach, Prentice HALL of India

Journal(s):

- 1. International Journal of Logistics Management, Emerald publisher.
- 2. International Journal of Logistics Research and Applications, Taylor and Francis.

Website(s)

2. www.poms.org

	Prog	Programme Objectives (POs)												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	3	0	0	0	0	0	0	0								
CO2	2	3	2	1	0	0	0	0								
CO3	0	1	0	3	3	0	0	0								
CO4	0	0	0	2	3	1	0	0								
CO5	0	1	3	2	0	0	0	0								

1-Low, 2- Medium and 3- High Correlation

	Marketing Theory and Practice	L	T	P	S	J	C
		3					3

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Course owner	Department of Marketing	Syllabus version	1.0
Course Pre-	NIL	Contact hours	45
requisite(s)			
Course Co-requisite(s)	NIL	Date Approved	
Alternate Exposure			

Marketing as a subject primarily caters to the consumerist instincts of an individual. The markets are driven by consumer behaviour, which has evolved and is much more demanding these days. Consumer satisfaction takes precedence for a business to be successful. This calls for managers to adopt creative and unique marketing strategies to gain a competitive advantage. Marketing Management equips managers with the required theoretical knowledge and practical skills to gain insights into the dynamic nature of the markets and then devise ways and means to manage them effectively.

COURSEOBJECTIVES:

- 1. Toemphasizetheimportanceofthe marketing function in an organization.
- 2. Tounderstandthecoreconceptsrightfromdecidingthesegmenttillcustomer satisfaction
- 3. ToimpartknowledgewithrespecttolatesttrendsinMarketing, Marketing Mix, Socialresponsibility and ethicalissues in Marketing
- 4. GlobalMarketingapproach

Un	Topics	Focus
it		
I	Meaning and concepts of Marketing, Sales Concept, Marketing concept, Social Marketing	Concept
	concepts, SocietalMarketing concept, Marketing Mix, 4Psof	ual
	Marketing, Marketing Environment in India.	
II	ConsumerBehaviour—Factorsinfluencingbuyingbehaviour—	Concept
	consumerbuyingdecisionprocess—Buyingmotives- influences.	ual
	2. Marketsegmentation—criteria-Basesofsegmentation—	
	benefits.Marketingresearchprocess:Definingresearchproblem,research objective research techniques	
III	1.ProductPlanning&Development-Definition,ClassificationofProduct, Stages of Product	Analytic
	Life Cycle (PLC) and Factors affectingPLCProductPlanning-	al
	GenesisandImportanceofProductPlanning in Marketing Product Development:	
	Meaning, Principleof Product Development, Stages of New Product Development	
	andFactorsaffectingdevelopment ofNewProducts.	

	2.	Pricing-Meaning, Objectives, Price Policies and Strategies and Methods of fixing prices.				
IV	1.	Distribution Channel- meaning, Types of Distribution channel -Direct & Indirect.	Analyti			
		Roleof intermediaries and distribution	cal			
		channelmanagement.ChannelManagementDecisions,ReturnsManagementand				
		Reverse Logistics.				
	2.	Promotion—elementsofpromotionmix-				
		Advertising, sales promotion, personal selling and sales management. Publicand cust				
		omerrelations, directandonlinemarketing, multilevelmarketing - the new marketing model.				
V	1.	Anoverview. Advertising, sales promotion, personal selling and sales management.	Analyti			
		Public and customer relations, direct and onlinemarketing, multilevel marketing	cal			
		- the new marketing model.				
	2.	Marketing and society -Social responsibility and ethical issues inmarketing.				
		Global marketing program. The old and new				
		economies.Demandsidemarketing.Legalissuesinmarketing.marketingskills,				
		Brand marketing skills, CRM.Marketing in Indian Context.Marketingin 21st				
		Century				

COURSE OUTCOMES:

- 1. Discuss the importance of macro and micro environment in molding the company's marketing function.
- 2. Differentiatetheconsumerandinstitutionalbuyerbehavior.
- 3. Definethetargetsegmentsfortheproducts.
- 4. Justifytheimportanceofproducts, branding and new product development.
- 5. UnderstandtheimportanceofChannelof distribution.

- 1. N.RajanNair, MarketingManagement, Sultan Chand & Sons.
- 2. Ramasamy V.S. and Namakumary S, Handbook of Marketing Management, Macmillan.
- 3. Rajagopal, Marketing Management, Vikas Publishing House Pvt., Ltd.,
- 4. S.Jayachandran, Marketing Management, Excel Books.
- 5. RajanSaxena, Marketing Management, TMH.

		MIS for Logistics	L	T	P	S	J	C
1 TA			3					3
G SERVE I	Course owner	Department of Operations	Syllabus version 1.			1.0)	
STRIPS STRIPS	Course Pre-requisite(s)	NIL	Contact hours 4			45		
TO BE UNIVERS	Course Co-requisite(s)	NIL	Date Approved					
	Alternate Exposure							

The logistics management information system (MIS) is the system of collecting, processing, tracking, reporting and analysing data on product stock levels and use. This critical system communicates supply status and need at all levels of the programme so that appropriate decisions can be made to avoid stockouts and to ensure optimal quantities of supplies. The MIS also includes the records that help to maintain quality assurance throughout the system. The MIS is shown in the centre of the cycle because no part of the logistics system can work well without accurate and timely information.

COURSEOBJECTIVES:

- Todevelopcompetencies and knowledge of students to be come MIS for logistics professionals
- ToorientstudentsinthefieldofLogistics
- TohelpStudentstounderstandMISforLogistics

Uni	Topics	Focus
t		
I	Introduction-IT and management opportunities and challenges-Strategic planning	
	and models - Information management & IT Architecture - IT Architecture &	tual
	infrastructure, cloud computing and services, Virtualization and Virtual Machines.	
II	Database Technology - Data warehouse - Data Mart Technologies - Data and	-
	Textmining - Business Intelligence & Analytics, Digital and physical document	
	management. Networks, collaboration & sustainability: Business IT networks &	
	components, communication technologies-Sustain ability and Ethical issues -	
	Internal control - Business Control and Auditing.	
III	Dissemination of technology information-and strategic planning—Technology choice	-
	and evaluation methods - Analys is of alternative technologies-Implementing	tual
	technology programmes-IntellectualCapital	
	-An introduction to Intellectual Property Right-Patent-Copyrights-	
	Trademarks and other issues.	~
IV	Functiona lArea & Compliance systems: Management levels and functional systems	
	Enterprise System sand applications: Enterprise systems, Enterprise Resource	tual
	Planning(ERP), Supply Chain Management(SCM), Collaborative Planning,	
	Forecasting, and Replenishment system(CPFR), Customer Relationship	
	Management (CRM). Performance Management: Data visualization, Mashups and	
	Mobile intelligence, Fleet Management Information System.	~
V	Business Process and Project Management: - Architecture & IT design, System	
	development, Software & Applications for management (Businesss of tware	tual
	tools), Supportsystem. ERP modules-sales and Marketing, Accounting, Finance,	
	Materials and Production management etc.	

COURSE OUTCOMES:

- Students will be able to apply the Basic knowledge of MIS for Logistics in thereal-life situation
- This subject will enable them to enhance their ability and professional skills in Logistics

- 1. CourseMaterialPreparedbyLSC
- 2. KENNETH C.L., JANE P.L., & RAJANISHDASS (2001) ManagementInformation System Managing the Digital Firm. Pearson Education: NewDelhi.
- 3. RAVIK.&ANDREWB.W.Frontiers of Electronic Commerce. Pearson Education: NewDelhi.
- 4. KENNETHC.L.,&JANEP,L.(2001)Essentials of MIS.Prentice Hall India: NewDelhi.
- 5. SADAGOPAN, S. (2003) Management Information System. Prentice Hall India: New Delhi.
- 6. EFF,O.Z.(2003)Management Information Systems. Vikas Publishing HousePvt.Ltd.: NewDelhi.

T SERVE A MERCE AND A SERVE AN		InternationalLogistics Management	L	Т	P	S	J	С
DE LA CONTRACTOR DE LA			3					3
TO BE UNITED	Course owner	Department of Operations	Syl	labu	S		1.0	0
			ver	sion				
	Course Pre-	NIL	Co	ntact	hou	rs	45	5
	requisite(s)							
	Course Co-	NIL	Da	te Ap	prov	ved		
	requisite(s)							
	Alternate Exposure				•			•

International logistics is the process of planning and managing the flow of goods and products in your company's supply chain from acquisition to customer purchase, where part of the process involves crossing at least one international border.

COURSEOBJECTIVES:

- To develop compet encies and knowledge of students to become International logistics management professionals
- To orient students in the field of Logistics
- To help Students to understand in ternational Logistics management

Un	Topics	Focus
it		
I	Internationa lLogistics: Definition, Evolution, Concept, Components, Importance,	Conceptual
	Objectives; Logistic Subsectors; The work of Logistics; Integrated Logistics; Barrier	
	to Internal Integration.	
II	Customer Focused Marketing; International Marketing: Introduction, Definition,	Conceptual
	Basis for International Trade, Process, Importance ;International Marketing	
	Channel: Role of Clearing Agent, Various Modes of Transport, Choice and Issues	
	for Each Mode, Transport Cost etc.	
III	Transportation Functionality and Principles; Multimodal Transport: Modal	1
	Characteristics; Modal Comparisons; Legal Classifications; International Air	
	Transport; Air Cargo Tariff Structure; Freight: Definition, Rate; Freight Structure	
	and Practice	
IV	Containerization: Genesis, Concept, Classification, Benefitsand Constraints;	Conceptual
	Inland Container Depot (ICD): Roles and Functions, CFS, Export Clearance at ICD;	
	CONCOR; ICD sunder CONCOR; Chartering: Kinds of Charter, Charter Party, and	
	Arbitration.	
V	International commercial documents - International contracts, terms ofpayments,	Conceptual
	international insurance, packaging for export, custom clearance and infrastructure:	
	transportation, communication and utilities-Brokerage	

COURSE OUTCOMES:

- Students will be able to apply the Basic knowledge of International Logistics management in there allife situation
- This subject will enable them to enhance their ability and professional skills in Logistics

- 2. Course Material Prepared by LSC
- 3. International Marketing by Gupta and Varshing, Publisher: Sultan Chandand Sons
- 4. International logistics by Pierre David, Publisher: Biztantra
- 5. Logistic Management and World Sea Borne Trade by Multiah Krishnaveni, Publisher: Himalaya Publication
- 6. Logistic and Supply Chain Management by DonaldJ. Bowerson, Publisher: Prentice Hall of India

T SERVE A MANAGEMENT OF THE SERVE AND THE SE		Retail Logistics&E- Commerce	L	Т	P	J	I S	C
DE STATE OF THE ST			3					3
TO BE UNITE	Course owner	Department of Operations	Syl	Syllabus version		ion	1.0	
	Course Pre-	NIL	Cor	ntact	hour	S	45	
	requisite(s)							
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

Unlike traditional retail supply chains, ecommerce retail logistics involves the control and planning of processes that enable the processing of transaction. E-Commerce logistics providers facilitate transactions and ensure that the proper procedures are followed in case of unexpected development and situation.

COURSEOBJECTIVES:

- To develop competencies and knowledge of students to become Retain logistics and E-commerce professionals
- To orient students in the field of Logistics
- To help Students to understand Retail logistics and E-commerce

Unit	Topics	Focus
I	Concept and Scope: Concepts of Retail Logistics and supply chain - Importance of Logistics in the sedaysglobal Sourcing, Production and consumption - Dimension of Logistics: Macro and Micro aspects – Supply chain contours: Back ward and forward linkages-Supplychain efficiency-Logistics as a competitiveed gedriver-Peculiarities and diversity of needs of Logistics for Retailing.	1
II	Logistics and Retail Marketing: Logistics as a Support function of Order Fulfilment, Assembling & Labelling from Multi-storage points and Delivery-Logistics as an interface of Market forecasting, Stock level management, invoice or sales documentation, picking products, consolidation, transport-packaging, packing, marking, preparing out bound documentation and shipping out by loading into containers –customer facilitation tracking out bound shipments.	-
III	E-Commerce:introduction to E-commerce logistics including delivery and pickup models and the overall logistic setup — Order Processing —Activities associated with order processing like identifying order requestfrom MIS, creating customer account for new customers, identifying theorder requirements and placing a processing request in MIS, notifyingcustomers through system, updating the delivery requirements, checkingwith stock, coordinating with vendor, etc - Types of order processing -Roles and responsibilities associated with order processing — Procedures for generating plans and schedules through MIS	·

IV	Reverse Logistics: Basic of reverse logistics - The concept of reverselogistics.	Analytical
	The key activities involved interms of identifying daily pickups, scheduling	
	pickup for the day, coordinating with carriers, route map optimization,	
	collecting pick up and feedback- Types of reverse logistics	
	- Return from customer, return by career, return of damaged product, etc-	
	Roles and responsibilities associated with everse logistics-Globalbest Practice and statistics associated with reverse logistics	
V	Types of Ecommerce-B2B-B2 Candintra business.Retail Ecommerce	Analytical
	-Retailing through internet, Direct Online Sales model and its types	
	-Business Models for ecommerce-meaning definition importance. E-business	
	models based on the relationships of transaction types-manufacture model,	
	advertising model, value chain model, brokerage Model Marketing on the web-	
	marketing strategies, creating web presence, advertising, customer service and	
	support, web branding strategies, websellingmodels.	
	Electronic Payment system Electronic CRM Applications. E - Security -	
	Understanding of Key terms of E - Commerce: Electronic Commerce	
	&Banking - Electronic Payment Systems, Electronic Payment	
	Technology, On-line credit card, E-Commerce Security Electronic Data	
	Interchange(EDI); EDI definition; Overview of advantages and disadvantages;	
	EDIapplicationin business development; EDI technology.	

COURSEOUTCOMES:

- Students will be able to apply the Basic knowledge of Retain logistics and E-commerce in the reallife situation
- This subject will enable them to enhance their ability and professional skills in Logistics

- 1. Course Material Prepared by LSC
- 2.Mr. Gibson G, "Retail Management: Functional Principles & Practices", Jaico Publishinghouse, 6th Edition, 2003.
- 3. Ray, Supply Chain Management For Retailing, TMH, 2010.
- 4. James B. Ayers, Retail Supply Chain Management, Auerbach Publications, 2007.

		Liner Logistics	L	T	P	J	S	C
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Cy Wall			3					3
DE STE	Course owner	Department of Operations	Syllabus version			1.0)	
TO BE UNITED	Course Pre-requisite(s)	NIL	Cor	ntact 1	hour	S	45	
	Course Co-requisite(s)	NIL	Date Approved					
	Alternate Exposure							

Liner shipping is the process of transporting goods and cargo from one destination to another by large ocean ships that move through regular routes on fixed schedules. Most of these liner services provide weekly sailing from the ports of call.

COURSEOBJECTIVES:

- Todevelopcompetencies and knowledge of students to Liner logistics professionals
- ToorientstudentsinthefieldofLogistics
- TohelpStudents tounderstandLiner logistics

Unit	Topics	Focus
I	Definitions of liner trades; tramp trades; containerization- Unitization - containerization, liner operations, port organization-Vessel loading and discharging, linertraderoutes, Themajorports, linerservice options- Linertrade — ship types—Tonnages; basic ship layout, types of container ships, Ro-Robarge carrying vessels, There frigerated cargo ship conventional (Break bulk) vessels future vessel developments, economy of scale, shipboard handling equipment.	
II	Cargoes&cargoequipment—Dangerous goods IMO special goods, cargohandling so ther methods of lifting cargo port handling equipment, portterminals; port and terminal management; the role of ships officersagent.Liner Shipping operations - Management and policy, ship management and operations, independent ship management, insurance, trade of commercial department, accounting, budgeting, freight collection and port disbursements agency duties.	
III	Containerization unitization and inter - modalism - Growth in world trade unitization; container dimensions, types of container other container expressions container inventory, owning, leasing meeting the demand for containers tracking the container fleet, container control, FCLSLCLS &ICDS, legal & insurance implications in the container trade.	•
IV	The Bill of Lading and other Documentation - The Bill of Lading UK billof lading Act 1855 and UK carriage of goods by sea Act 1992, The use of Bill of Lading in liner trades, Bill of Lading documentary credits, Bill of Lading clauses The printed clauses — The evidence of the contract, otherforms of Bill of Lading other liner documents, Intl conventions relating to Bill of Lading, paperless trading	Conceptual
V	TheExchangeofgoodstransfer-Transfer	Conceptual
	offundsfromcountrytocountry, methods of payments in International trade who	
	arethemerchants, International contracts of sale INCO terms; Legal aspects of the	
	elinertrades	
	- The carrier insurance the carrier's liability for the cargo the liabilities	
	oftheagent,legal aspects of the Bill of Lading,cargo claims general average (GA),security, ISPScode.	

COURSE OUTCOMES:

• Students will be able to apply the Basic knowledgeofLinerLogistics in thereal-lifesituation ii)This subject will enable them to enhance their ability and professional skills in Logistics.

- 1. Course Material Prepared by LSC
- 2. Ship Operation Management, Fujita, N.H.Publisher,1974.
- 3. Ship Operation Management, Bertrams Publication, 2010.
- 4. Hand book of Ship Calculations, Construction and Operation, Charles H.Hughes, Wexford CollegePress, 2008.
- 5. Ocean Shipping Elements of Practical Steamship Operation, Robert Edwards Annin, Thomps on Press, 2010.

TA		Port Terminals Logistics	L	T	P	S	J	С
TRIVE AND			3					3
	Course owner	Department of Operations	Syllabus version			sion	1.0	
O BE UNIV	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	5
	Course Co-requisite(s)	NIL	Date Approved					
	Alternate Exposure							

Terminal is a multifunctional logistics complex providing a full range of services for handling container and general cargo. Terminals and ports can be ocean, sea, river and dry ports. Dry ports are normally located in the industrial zones, which are connected with the nearest sea/river termanal, and most often by a <u>single IT-system</u>. A terminal provides handling of cargoes of clients of all sea terminals as well as container freight stations (CFS) and any forwarding companies.

COURSEOBJECTIVES:

- 1. To develop competencies andknowledge of students to Port terminals logistics professionals
- 2. To orient students in the field of Logistics
- 3. To help Students to understand Port terminals logistics

Un	Topics	Focus
it		
I	Difference between Major and Minor Ports-Ports in India-Natural Harbours-	Conceptual
	New Ports to be developed in India-MajorPortsoftheWorld	
	- Largest Portinthe world-Port Officials and their roles- Role of Ports- Who are Portusers	
II	Container Terminals-Privatisation of Terminals-Reason for Privatisation - Major Terminal Operators in India - Terminal Operators of the world - Privatisation the need of the hour - Agreement between and existing Port Terminal and the new operator	Conceptual
III	Import Cycle-Export Cycle-Positions and Places in a Terminal-	Conceptual
	FacilitiesinaTerminal-Container Monitoring and stacking-CFS inside	
	aTerminal	
	-Reasons for Congestion of a terminal-de-congesting the terminal-Window system in a terminal.	
IV	Major Port Trust Act - Port as a custodian of the cargo - Transit sheds - Cargoreceivers-WharfsandBerths-Various berthsina Port-Meaning of Berth Restrictions - Port equipment's and damage- Extra services - Berthreservationschemes	Conceptual
V	PortTariff-Pilots and their duties-Tugs and its usage-Night navigations	Conceptual
	- Light Dues - Tariff Authorities of Major Port - Revision of rates - Por	
	Trustees - Safety Procedures - Introduction of ISPS - Damage to Por property	
	by ships-Compensation and confiscation of cargo to adjust dues	

COURSE OUTCOMES:

- iii) Students will be able to applyt he Basic knowledge of Portterminals Logistics in the real-lifes ituation
- iv) This subject will enable them to enhance their ability and professional skills in Logistics

- 1. Course Materia lPrepared by LSC
- 2. Major PortTrust Act -Government ofIndia
- 3. Por t Industry Statistics, American Association of Port Authorities
- 4. AP MOLLOR Guide book on Terminal
- 5. DUBAI PORT AUTHORITIES Manual

		Commercial Geography	L	T	P	S	J	C
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STRIV STRIV SARAN	Course owner	Department of Operations	Syllabus version			ion	1.	0
O BE UNITERS	Course Pre-requisite(s)	NIL	Coı	ntact	hour	S	45	5
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

Commercial Geography is the relation between Geographic Structure and Commercial Activities. The Commerce depends on the structure of the Geography and related factors such as Land Structure, population, Climate, Temperature, Stability and many other things.

COURSE OBJECTIVES:

- To acquaint the students about dynamic aspects of Commercial Geography.
- To acquaint the students about dynamic nature of Industrial field in India.
- To make the students of commerce aware about the relationship between the geographical factors and economic activities

Unit	Topics
I	Introduction to Geography Definition, nature and scope, relation with other branchesMeaning of environment, physical or natural environment and cultural or manmade environment, -Commercial activities: Primary, secondary, tertiary, and quaternary activities, -Factors affecting commercial activities of man, Physical or natural factors: Location, climate, physiography.
III	Physical Factors Location of India in the World map, longitudes, latitudes and equator, Size of country including land mass, List of States their capitals, important cities and towns / Union Territories,-India's population size & distribution-India and the world, its neighbours-Exercise: Oxford school atlas Maps – India Political Map, Population Map, Locating states / cities on maps.
IV	Transportation systems in India Inland & Overseas. Roadways -National Highway including Golden Quadrilateral, E-W corridor, N-S corridor, NH numbers. Railway junctions & connections. Airports international & domestic airport locations. Seaports Industrial belts in India, Industrial Estates, SEZS, Export Processing zones, Textile zones, Leather zones, chemical zones, etc. {Oxford School Atlas provides for following maps with detailing: India – Road & inland waterways (pg. 51) / India – Railways (pg. 52) / India – Air and sea routes (pg. 53) -Exercise: Locating NHs, Junctions, Airports, Seaports on Maps} Introduction to World Time Zone
V	Time Zones – Greenwich Mean Time-Calculation of time zone – by using longitude-Local Time-Standard Time International Date Line -Exercise: Various exercises can be prepared around time zones including calculation / use of maps, Local time of Flight in origin country to Local time of flight in destination country etc. {Oxford School Atlas provides for following map: World Time Zone (pg. 122)}. IATA Airport Codes & World Geography Introduction to IATA Airport Codes, its history importance and use in the air transportation business Continents of the world and the counties in these continents and regions-Capital of

the countries, important and commercial cities in the world,-Currencies of the countries-Important commercial Airports, Travel time for shipments/ cargo to various countries from India and vice versa.-Trade lines to the world from India-Types of trade between the countries- {Oxford Atlas – World Political & Physical Map}

Course outcomes:

- Acquiring Knowledge of Physical Geography
- Ability of Problem Analysis:
- Knowing the bases of commercial and marketing activities related to the earth.

Text Books:

- 1. Course material from LSC
- 2. NCERT Class 6 / 9 / 10 Geography
- 3. Oxford School Atlas Latest Edition should be used.

TA		LogisticsNetworkDesign	L	T	P	S	J	С
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	Course owner	Department of Operations	Syllabus version			ion	1.0	
TO BE UNIV	Course Pre-requisite(s)	NIL	Contact hours				45	Š
	Course Co-requisite(s)	NIL	Date Approved					Ť
	Alternate Exposure		•				•	

Developing a powerful logistics network is a competitive advantage in the current economic context where competitive pressure is rife, the market volatile and globalized and raw materials costs are rising. An optimized logistics network makes for lower costs, a grip on logistics flows and providing excellent customers service.

COURSEOBJECTIVES:

- Todevelopcompetencies and knowledge of students to be come Logistics network design professionals
- Toorientstudentsinthefieldofdesignandconfigurationofthelogistics network.
- TohelpStudents tounderstandLogisticsnetworkdesign

TIm	Tonica	Foons
	Topics	Focus
it		
I	Introduction - Components of Logistics network : Facilities - Plants / Vendors	Conceptual
	- Ports - Warehouse Retailers/Distribution Centres - Customers -	
	Rawmaterialsandfinished productsthatflowbetweenthefacilities.	
	The three models of Network Design: 1. Logistics network design	
	withdifferentiated delivery lead time 2. Logistics network design with	
	pricediscount3.Consolidatedlogisticsnetworkdesignusingconsolidationhubs	
II	Key issues of Net work design: Pick the optimal number, location,	Conceptual
	andsizeofwarehousesand/orplants-Determiningoptimalsourcingstrategy-	1
	Which plant / vendor should produce which product? - Determining	
	bestdistributionchannels-Whichwarehousesshouldservicewhichcustomers?	
III	DatarequiredforNetworkDesign:Alistingofallproducts-Locationof customers,	Analytical
	stocking points and sources - Demand for each product bycustomer location -	
	Transportation rates - Warehousing costs - Shipmentsizes by product - Order	
	patterns by frequency, size, and season, content -Orderprocessing costs -	
	Customerservicegoals	
IV	1. The strategic decisions in terms of warehouses when plants and retailer locations	Analytical
	are fixed; Pick the optimal number - location - sizeof warehouses -	
	Determining optimal sourcing strategy - Whichplant / vendor should	
	produce which product - Determining bestdistributionchannels-	
	Whichwarehousesshouldservicewhichretailers-The objective is to design	
	or reconfigure the logistics	

		network so as to minimize annual system - wide costs, including					
		Production / purchasing costs Inventory carrying costs, and facility					
		costs(handling and fixed costs)Transportationcosts.					
	2.	2. Find aminimal- annual- cost configuration of the distribution network					
		that satisfies product demands at specified customer servicelevels.					
V	1.	DataCollection-informationon:a)Locationofcustomers,stockingpoints A	Analytical				
		and sources - location theory - b)Alisting of all products -	-				
		c)Demandforeachproductbycustomerlocation—forecasttechnique—					
		d) Transportation Cost - Transportation rates by mode—					
		informationsystem, like rating engine - e) Mileage estimation - f)					
		Warehousingcosts (handling and fixed) - inventory management g)					
		Service levelrequirement-					
		probabilistictechniqueh)Shipmentsizesbyproduct					
	2.	Data AggregationThe impact of aggregate demand - aheuristic to					
		aggregate data.					
	3.	DataValidationandModel					
	4.	Optimization.					

COURSE OUTCOMES:

- Students will be able to apply the Basic knowledge fdesign and configuration of the logistics network in the real-life situation
- This subject will enable them to enhance their ability and professional skills in design and configuration of the logistics network.

- 2. Course Material Prepared by LSC
- 3. Supply Chain Management:Logistics Network Design by DongleiDu, Faculty of Business Administration, University of NewBrunswick, NBCanadaFredericton.
- 4. Joseph D.Patton, Logistics Technology and Management, Soloman, 1986.
- 5. PhilipT.Frohne, Quantitative Measurements for Logistics, Mc GrawHill, 2007



	Logistics 4.0	L	T	P	S	J	C
		3					3
Course owner	Department of Operations	Syllabus version		1.0	0		
Course Pre-requisite(s)	NIL	Con	ntact	hour	S	45	5
Course Co-requisite(s)	NIL	Date Approved					
Alternate Exposure							

Tarva A summer		Introduction to Aviation Industry & Airport	L	Т	P	S	J	С
A TI THE			3					3
OBE OF	Course owner	Department of Operations	Syll	Syllabus			1.0	0
			vers	version				
	Course Pre-	NIL	Contact hours		45	;		
	requisite(s)							
	Course Co-requisite(s)	NIL	Date	Date				
	_		App	rove	ed			
	Alternate Exposure		•					

Aviation industry is the business sector that manufactures, maintains, and operates the aircrafts and the airports. When it comes to aviation, there is a broad range of responsibilities within. It comprises activities at the airport as well as in the aircraft. It involves ground duties that are required to perform before the flight takes off, the activities during the flight, and the activities after it lands.

COURSE OBJECTIVES:

- To develop competencies and knowledge of students to become Aviation Professionals
- To help Students to understand Fundamentals of Aviation Industry & Airport Operations

Unit I: History of Aviation & Key Organizations in the Aviation Industry

- a. History of Aviation through the ages-Origins in Greek Mythology- The Wright Brothers- Aviation in the era of World War 1 & 2- Commercial Aircraft Era- Modern Jetliners
 - b. Key Organizations in the Aviation Industry
 - 1. ICAO- International Civil Aviation Organization, 2. IATA International Air Transport Association 3. MoCA Ministry of Civil Aviation, 4. DGCA Directorate General of Civil Aviation 5. AAI- Airports Authority of India, 6.AAICLAS- Airports Authority of India Cargo Logistics Allied Services 7. AERA- Airport Economic Regulatory Authority 8. BCAS- Bureau of Civil Aviation Security

Unit II: Freedoms of the Air & the Airline Business

- a. Freedoms of the Air- Overview- Nine Freedoms of the Air
- b. Airline Business
 - i Business Models- Legacy, Low Cost, Charter, Regional, Cargo & Hybrid
 - ii Airplane Manufacturers- Primary Manufacturers- Boeing, Airbus and others
 - iii Narrow Body v/s Wide Body- Definition & Features
 - iv The Airline Industry as a Business- Key Functions in the Airline Business
 - v Airline Codeshares & Alliances
 - a. Concept, b. Key Benefits, c. Major Airline Alliances
 - vi Airline Cabin Classes- First, Business, Premium Economy & Economy

Unit – III: World Geography & Airline Communication Protocol

Traffic Conference Areas, Time Zones, Codes- Country, City, Carrier, Currency, Aircraft Registration, AirlinePhonetics

Unit – IV: Airport Operations

- a. Key Stakeholders, Airport Types, Airport Revenue Sources, Airport Functional Layout- Landside, Governmental Agencies at Airport, Baggage Handling, Airside Operations
- b. Airport as an Operational System- Infrastructure & Facilities, Airport Operations Control Centre (AOCC), Airport Collaborative Decision Making (ACDM), Key Information Technology Systems at Airports Concessionaire Activities at Airports (terminology restricted to Indian scenario)

Unit – V: Non-Aero Activities- Retail, Food & Beverage, Real Estate, Car Rentals Car Parking, Currency & Banking, Advertising

- b. Maintenance Repair & Overhaul (MRO)- Types of MRO Models
- c. Ground Handling
 - i Concept, ii Self-Handling V/s Outsourced Handling
 - iii IATA Standard Ground Handling Agreement

Course outcomes:

- Students will be able to apply the Basic knowledge of Aviation and Airport Operations in the real-life situation
- This subject will enable them to enhance their ability and professional skills in the Aviation Industry & Airport Operations

- 1. Course Material Prepared by LSC
- 2. Airport Operations- Norman Ashford, Pierre Coutu, John Beasley- McGraw-Hill Education; 3rd edition (16 December 2012) 3. Principles of Airport Economics- P.S. Sengupta- Excel Books (1 December 2007)
- 3. Managing Airports- An International Perspective- Anne Graham- Routledge; 5 edition (June 9, 2018) 5. IATA Airport Handling Manual- 40th edition- Year of Publication- 2020
- 4. IATA Ground Operations Manual- 9th edition- Year of Publication-2020

		Introduction to Air Cargo Industry	L	T	P	S	J	C
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STRING STRING	Course owner	Department of Operations	Syllabus version			1.0		
DATE UNIVERS	Course Pre-requisite(s)	NIL	Cor	ntact :	hour	S	45	
1000000	Course Co-requisite(s)	NIL	Date Approved					
	Alternate Exposure							

Air cargo is growing in popularity as the medium of choice when it comes to shipping time sensitive goods, belongings, documents and information from one place to another. Air cargo refers to the act of using an air carrier as the transport vessel for shipment purposes. The benefits of air cargo are the speed and convenience of using such a service. Air cargo can get your shipment to its overseas destination within a day in many instances and it has become an integral and important part of the global logistics network chain.

COURSE OBJECTIVES:

- To develop competencies and knowledge of students to become Air Cargo Professionals
- To help Students to understand Fundamentals of Air Cargo Industry

Unit	Topics			
I	History of Air Cargo & Multi Modal forms of Transport			
II	a. History of Air Cargo & Mail, Air Freight, Air Express, Overnight Air Express & Air Mail b. Other Multi Modal forms of Transport- Rail, Sea & Surface Transport- Key Concepts			
11	Key Organizations Facilitating Air Cargo			
III	International Air Transport Association (IATA), International Civil Aviation Organization (ICAO), International Federation of Freight Forwarders Association (FIATA), The International Air Cargo Association (TIACA)			
	Air Cargo Business Models			
IV	eighters, Charters, Integrators, Combination Carriers, Systems), Couriers, E- commerce, Postal mail a. Key Concepts- Brief Introduction to the Business Models			
	b. Impact of various Business Models in relation to geography, size and scope			
	Key Stakeholders & Key Terminologies			
V	a. Key Stakeholders- Airports, Airlines (Direct), Airlines through General Sales Agents (GSA) or General Sales & Service Agents (GSSA), Shippers, Freight Forwarders, Custom Brokers, Consolidators, Trucking b. Key Terminologies & Abbreviations			
	Training & Development in Air Cargo Industry			
	a. Importance of Training in the Aviation & Cargo Industry			
	b. Areas of Training in the Air Cargo Industry			
	c. Key Organizations facilitating Training & Development in the Aviation & Air Cargo Industry.			

Course outcomes:

- 1. Students will be able to apply the Basic knowledge of Air Cargo Industry in the real-life situation
- 2. This subject will enable them to enhance their ability and professional skills in the Air Cargo Industry

- 1. Course Material Prepared by LSC
- 2. Air Cargo Management- Air Freight and The Global Supply Chain- Michael Sales- Routledge (2016)
- 3. Air Cargo and Logistics Classics and Contemporary practice by Rico Merket and Jackie Walters-Academic Publishers (01 June, 2019)
- 4. Moving Boxes by Air The Economics of International Air Cargo by Peter S. Morrell and Thomas Klein Routledge; 2 edition (19 October 2018)

		First Mile Operations	L	T	P	S	J	C
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STRIVE	Course owner	Department of Operations	Syllabus version 1.				1.0	$\frac{3}{0}$
THE WINESE	Course Pre-requisite(s)	NIL	Contact hours			45		
	Course Co-requisite(s)	NIL	Date Approved					
	Alternate Exposure							

First-mile delivery is at the start of the delivery portion of the supply chain and last-mile delivery is at the end of the supply chain. First-mile operations get the product from the manufacturer via a courier to a carrier.

COURSE OBJECTIVES:

• To understand the First Mile operational processes in e-commerce logistics.

Unit	Topics			
I	Role of First Mile in E-Commerce Logistics			
II	Difference between First Mile, Line Haul and Last Mile operationsFirst Mile Operations - OverviewWhy is First Mile operations important in e-commerce logistics-First Mile process flow.			
	Shipment Pickup Operations			
,,,,	Shipment pickup processPickup operations staff - roles and responsibilitiesPickup coordinationSafety and security of shipments during pickup-Pickup documentation.			
III	Shipment Processing Operations			
	Primary and secondary processingBagging operationsManual processing operations- Automated processing operations			
IV	Layout of A Processing Centre Inbound operations-Processing Operations-Outbound Operations-Safety and security-Processing Centre staff - roles and responsibilities			
V	First Mile Analytics and Metrics			
	Productivity-Pickup operations metrics-Processing operations metrics-First Mile dashboard. Tools and Applications			
	Pickup tools and applications-Processing tools and applications-Exceptions in First Mile and impact on operations Tools and communication to resolve exceptions.			

Course outcomes:

The students will learn:

- Basics of First Mile operations.
- Shipment pickup operations.
- Different types of shipment processing operations at Processing Centers.
 - Layout of a Processing Centre.
 - Key challenges in First Mile operations and First Mile metrics.

Text & Reference Books:

1. Course Material Prepared by LSC

		Last Mile Operations	L	T	P	S	J	C
TA								
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STRILL STRILL SANUTE	Course owner	Department of Operations	Syllabus version			1.0	0	
TO BE UNIVERS	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	,
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		·
	Alternate Exposure							

Last-mile operations encompass moving goods between a transport hub to the delivery location. It is of utmost importance to keep a competitive edge and engage in innovative approaches to stay ahead of the competition.

COURSE OBJECTIVES:

• To understand Last Mile Operations in E-Commerce

	• To understand Last Mile Operations in E-Commerce					
Unit	Topics					
I	Introduction					
_	1.1 What is Last Mile in Ecommerce?					
	1.2 Importance of Last Mile in the supply chain					
	1.3 Last Mile Delivery challenges for ecommerce					
	1.4 Trends in Last Mile delivery					
	1.5 Route optimization in Last Mile operations					
II	Last Mile Processes					
	2.1 Delivery Process & its challenges					
	2.2 Reverse pickup process in Last mile operations					
	2.3 Challenges in Reverse Pickup process					
	2.4 Tools and applications in Last Mile operations					
	2.5 Considerations for effective last mile logistics strategy					
	Metrics					
III	3.1 Metrics to measure in last file					
	3.2 Automation and technology driving metrics.					
	Customer service					
IV	4.1 Customer service and its importance					
	4.2 Good and bad customer service (Dos and Don'ts of customer service)					
	4.3 Relationship between metrics and customer service.					
	Prospects of Last Mile Logistics- 5Hrs					
V	5.1 Innovations in Last Mile Logistics					
	5.2 Technology Trends in Last Mile Delivery					
	5.3 Last Mile Delivery Market Future Prospects					

Course Outcome:

The students will be able to:

- 1. Understand the basics concept of Last mile logistics in E-Commerce
- 2. Understand the processes involved in Last mile logistics
- 3. Understand various metrics and customer services processes to be followed in last mile logistics
- 4. Explain the prospects of last mile logistics.

Text & Reference Books:

1. Course Material Prepared by LSC

		Multi-Modal Transportation	L	T	P	S	J	C
T T A								
G SERVE 4			3					3
* DEE * AMAINE * Y	Course owner	Department of Operations	Syllabus version			1.0	\mathbf{C}	
DA BE UNIVERS	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure		•					

Multimodal Transport is the combination of different means of transport, in order to facilitate the movement of cargo, i.e. making it faster and more efficient. When it comes to this mode of transportation, there is more than one kind of vehicle necessary to take the goods to their final destination, by the use of trucks, trains, ships, airplanes or some other mean of transport for the delivery.

COURSE OBJECTIVES:

- Introduce Multi-modal and Intermodal Transport concepts.
- Explain Regulatory framework and policies for Multi-modal transportation.
- Describe Indian Railways' initiatives to promote Multimodal Logistics in India.
- Overview evolution of infrastructure facilitating Multi-modal Logistics in India.

Unit	Topics
I	Transportation Systems & Multi modal Transport –Concept of Multi modal & Intermodal Transport – introduction to Multi modal transport, the difference between Multi modal and Intermodal transport-Type of transport Modes – detail and characteristics of air, road, rail, water, pipelines, package carriers-Need, Aim and Key Issues of Multi modal transport.
III	How to organise Multi modal transport-Role of Containerisation in MMT- history, utility, types, ease of handling, cost saving-Types of Multi modal transport – combined container transport, rolling Road & forwarding of trailers, RORO & LASH transportation-National Multi modal Transport Committee (NMTC) and Logistics Policy of India – key features and importance
IV	Multi modal Transportation Act & Procedures-MMTG Act of 1993-Custom procedures for Export & Import - Bill Of Lading – Hague Rules, Visby Rules, Hamburg Rules, Voyage by Sea-INCOTERMS – meaning, explanation, list, and types
V	MMT and Indian Railways-PFT Policy – maintenance of rolling stock, cargo handling, customs, etc-Warehousing Policy – stuffing, de-stuffing, stacking, use of MHE, etc-Layout and design of Multi modal Logistics parks
	Multi modal transport & Practice Today-India's growing conflict between Trade & transport – issues, policy, problems & pricing-Integrated Transport – Bharatmala, Sagarmala, IWT, DFC, the concept of ICP (International Check Posts-Scenario in India and neighbouring countries with a case study

After completing this Course, the student will have the following learnings:

- The importance and role played by Multi-modal transport in the efficient and cost-effective movement of cargo Types of multi-modal movement and the role of containerisation for security and speed
- The provisions and procedures for Exim trade and INCOTERMS Indian Government's policies and vision R for development of seamless multi-modal transport.

TEXT BOOKS

1 Course Material Prepared by LSC

		Commercial Aspects of Transportation	L	T	P	S	J	C
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* STRING	Course owner	Department of Operations	Syl	labus	vers	sion	1.0	0
THE TO BE UNIVERSE	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	;
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

Every business is in one or another way is connected with this economic activity and it directly influences their functioning or performance. In simple words, the organization relies on the transportation system completely for better and timely delivery of their services and products.

COURSE OBJECTIVES:

- To highlight vital part of commercial considerations in providing transport services for Freight and Passengers movement.
- To Understand the importance and need for marketing and strategies involved.
- To Describe the principles in fixing Railway Freight and Rates
- To evaluate Competition in rates of Road and Rail mode of transportation.

Unit	Topics
I	Commercial Aspects in Transportation – A Perspective-Role and importance of Commercial Aspects, relative strengths of rail vs road-Concept of commercial viability vis a vis operational feasibility-Issues/functions included in the commercial aspects, organisational set up to handle these
II	Commercial Aspects involving Passenger transportation —Passenger Services on Indian Railways; Booking and Reservation of passengers, Various class of services, types of tickets, concessions etc-Passengers Services in Road Sector, A state subject- differences from State to state-Supplementary and related services such luggage, parcel, refunds, catering etc.
III	Commercial Aspects involving Goods / Freight transportation—Different components of freight traffic, Booking and delivery of freight traffic on Railways, Demurrage and Wharfage, sidings-Booking and delivery of goods in roadways, agencies involved and their role-Claims and liabilities, Organisational set-up and procedure for Claims' compensation,
IV V	Pricing of Transport-Basic consideration in pricing; Different type of costs involved in computing price, Relativity index of passenger fares in Indian Railways; surcharges and discounts-Principles of classification and Rate fixation and routing of traffic-Cost of service vs value of service, Cross subsidisation etc
	Marketing Strategies for Commercial growth –Need for marketing, Rail vs Road: Complementary and not competitive role, High profit yielding commodities-Incentive schemes, IT-enabled user-friendly solutions for Booking, payment, tracking consignments and trains, Passenger movement – PRS, etc-Future trends: technology induced improvements in various aspects of commercial working

- 1. Develop a clear perspective of various commercial aspects in transportation
- 2. Distinguish between the Operational feasibility of a work and its commercial viability
- 3. Know the issues involved in booking and reservation of passengers,
- 4. Know the various types of costs involved and understand the concept of cost-of-service vs value of service

Textbooks

1. Course Material Prepared by LSC



	Warehouse Automation	L	T	P	S	J	C
		2					2
Course owner	Department of Operations	Syllabus version			1.0)	
Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	
Course Co-requisite(s)	NIL	Dat	e Ap	prove	ed		
Alternate Exposure							

Warehouse automation is the process of automating the movement of inventory into, within, and out of warehouses to customers with minimal human assistance. As part of an automation project, a business can eliminate labor-intensive duties that involve repetitive physical work and manual data entry and analysis.

COURSE OBJECTIVES:

- To familiarize the student with the basic concept of the most common automations from light to heavy
- To familiarize the student with the basic concept of the supply chain including Logistics, warehousing, IT as well as distribution and planning.

Unit	Topics
I	Overview of the Traditional Warehouse Operations - Warehouse Automation Systems: Overview, Applications, Costs, Benefits, ROI – Receiving Automation: PalletInverter - Palletizers
II	Storage and Retrieval Automation: Vertical and Horizontal Carrousels - Vertical Lift Module - Orbital Shuttle Systems - AS/RS Mini Load - AS/RS Unit Load - Garments on Hangers
III	Material Flow Automation - Conveyors - Lifts - Automated Guided Vehicles - Monorail
IV	Picking/Outbound Automation : Pick / Put To Light - A Frame - Automated Order Selection – Pick-N-Go - Outbound Sorters - Automatic Truck Loading .
V	Automating Data Collection: RFID - Automated Measurements Systems - Unique Solution Providers: Kiva Robot - Auto Store - Additional Automation Around the Warehouse Building Management System: Weight scales - Delivery Drones - Delivery Robots.

Course Outcomes:

The students will be able to:

- Recognize the Knowledge of the common and latest automation solutions for ware-housing
- Understand and Recognize the costs and pre-requisites for each automation solution and the expected benefits of the different solutions
- Able to complete the analysis and to select the most appropriate solution for ware-house automation

- Course Material Prepared by LSC
- Industrial Automation and Robotics: A.K.Gupta and S K Arora
- Advanced Industrial Automation and its Application: Ravindra Sharma
 Industrial Control Electronics Devices, Systems, & Applications 3D Edition Author: Terry Bartler Publisher: Delmar

T SERVE A HA		Best Practices for Transportation	L	T	P	S	J	С
DE STANDARD			2					2
TO BE UNIVERS	Course owner	Department of Operations	Syllabus version		1.0	0		
	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	;
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

The world of logistics and managed transportation is continuously evolving. Transportation professionals are tasked with reducing costs while increasing customer satisfaction levels. However, market forces such as higher fuel costs and decreased capacity work to undermine these goals. Transportation management optimization can help, provided shippers know a few things about its value and where to start.

COURSE OBJECTIVES:

• To familiarize the student with the information about transportation considerations for the import, export and domestic trade processes.

Unit	Topics
I	Transportation Strategy Considerations: An Overview of the Import Process - An Overview of the Export Process - Bonding Issues for Exporters - Negotiating Rates - Insurance and Liability - E-Logistics and the Internet - UN Module regulation - introduction to carriage of dangerous goods.
II	Import And Export Documentation Requirements: An overview of commercial documents - Commercial Invoice - Consular Invoice - Packing List - Certificates of Origin - Permits of Export and Import of Goods - Cargo Control Documents - Other Commercial Documents - Distribution of Commercial Documents
III	Airfreight: Introduction - Documents - The Air Waybill (AWB) - Moving Goods by Air - Export Packaging - Air Cargo Handling, Delivery - The Role of IATA - Shipping Dangerous Goods by Air - Glossary of Airfreight Terminology. Oceanfreight: Documents - Containers - FCL/LCL - Handling the LCL - Handling the Ocean Freight Shipment - Shipping Dangerous Goods by Ocean
IV V	Road Transportation: Introduction to Road Transportation - Trucking/Highway Regulations – Documents - The Truck Bill of Lading - Standard Trucks - Specialized Trucks - Lorry haul trucks - Heavy load haulage multi axle age multi truck - Service Options for Truck Transport - Shipping Dangerous Goods by Truck - LTL/FTL Shipments - Trucking Rates and Tariffs A Checklist of Trucking Considerations - Border Security Issues. Rail Transportation: Introduction - Shipping Goods by Rail The Railway Bill of Lading - Rail Equipment - Moving Dangerous Goods by Rail - Over Dimensional and Heavy Lift Cargo by Rail.
	Intermodal Transport: Introduction - Shipping goods intermodally - Documentary Considerations - Other Considerations - Telematics - Routing - GPRS - Monitoring fuel economy - Driver practice - Indicators - Future prospectus growth of roadAutomation - INCOTERMS 2000 - Transfer of Liability - Incorporating Incoterms into the Contract of Sale - Incoterms Structures - Mode of Transport Relate to Incoterms. Advantages of multi-module transport document.

• The students will be able to assess transportation operations towards increased logistics efficiency while discovering opportunities for saving time, expense and hassle.

- Course Material Prepared by LSC
- "Self-Compliance Strategies and the Administrative Monetary Penalty System", a Manual for Importers and Exporters: PF Collins Customs Broker Ltd., November 2002
- OAG® Air Cargo Guide TM May 1997, published by OAG, a division of Reed Elsevier Inc., OAG, 2000 Clearwater Drive, Oak Brook Illinois.
- International Air Transport Association (IATA) Dangerous Goods Regulations

T Survey A Market Survey A Sur		Inland Waterways & Coastal Shipping	L	Т	P	S	J	C
Tr.			2					2
O BE UNIT	Course owner	Department of Operations	Syl	labus	vers	ion	1.0	0
	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	,
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

With an extensive coastline and a chain of major and minor ports, India's policy makers have at all times been aware of the importance of the maritime industry and the alterations it can bring into the economy. However, in the past couple of years, a lot of activities, announcements, planning and discussions surrounding the Indian maritime have propelled its momentum and has brought it into the limelight.

COURSE OBJECTIVES:

1. To familiarize the student with the basic concept of Inland water ways and coastal shipping, their importance and future development of Indian water ways

Unit	Topics
I	Basics of shipping- Introduction for shipping - Types of ship- sizes of ship - Basic terminology of ships- Sea transport and its importance- Roll of ports in sea transport - Coastal shipping and its importance.
II	
	Inland waterways: Introduction –Scope –Sources (lakes, Rivers, Canals, Back water, creeks, water courses inlets and bays)-Working principles -Impact - Inland waterways in India: locations
III	
IV	Roll and importance of inland waterways: Infrastructure facility required - Roll and importance of inland water ways in transportation- Transportation through creeks
V	Inland waterways: Road connectivity – Availability of cargo (scarcity)-Navigation (night navigation)- Draft restriction
	Inland waterways in other countries: Bangladesh – China - Vietnam - Europe Inland waterways in India : Network in India –upcoming inland waterways – Inland waterways authority – Government policies on inland waterways – National waterways Act

Course outcomes:

- Recognize the impact of Inland water ways and coastal shipping
- Recognize the importance and future development of Indian water ways.

- 1. Course Material Prepared by LSC
- 2. Inland Waterway Transport: Challenges and prospects (Routledge Studies in Transport Analysis) Hardcover – Import, 12 Jul 2016 by Bart Wiegmans (Editor), Rob Konings (Editor)
- 3. Inland waterways Transportation (IWT) in India Machiraju presentation Pvt ltd

SERVE 4		Courier, Express & Parcel Services	L	T	P	S	J	C
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AND TO BE UNDER	Course owner	Department of Operations	Syl	labus	vers	ion	1.	0
	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	5
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

CEP stands as an abbreviation for courier express parcel services, which offer logistic services in these areas. The offer of the service providers differs in the speed, weight, and volume of the packages and the way of carrying out the shipment of the goods. Especially the regulations regarding weight and volume allow for strong standardization and also great potential for automating the service.

COURSE OBJECTIVES:

- 1. To develop competencies and knowledge of students to become Courier and Express Professionals
- 2. To orient students in the field of Courier and Express To help Students to understand Courier and Express

Unit	Topics
I	Types of consignments for shipment - Information on labels and handling instructions - consignee locations consignments and destinations- consignment shipment operations – (loading, handling, scheduling and documentation) - Special instructions for safe handling of fragile consignments
II	Customer declarations – verification of customer declarations and consignment package - Clarification procedure in case of discrepancies noticed - Generation of bill of lading / shipping bill for export consignments – Coordination for import/export consignments clearance
III	Hub-Spoke Operations & Inbound and Outbound activities: Introduction – Hub spoke activities inbound and outbound activities. Types of consignments coming in the hub-spoke - layout of the hub-spoke - Areas to receive, sort and inspect - Documentation activities in hub-spoke - Inspection process of inbound sorted and outbound consignments
IV V	Tracking and tracing; AWB –essential time of arrival delivery - Last mile delivery – LMD -First mile delivery
	Customer satisfaction- quality, delivery time, costs (shortest cost, loss prevention) - Weighment rate, cube scan —diversions/LBW/Volumetric density of cargo

Course outcomes:

- Students will be able to apply the Basic knowledge of Courier and Express in the real-life situation
- This subject will enable them to enhance their ability and professional skills

- Course Material Prepared by LSC
- Logistics and Supply chain management Martin Christopher
- Basics of Distribution Management; A Logistical Approach Prentice HALL of India Kapoor Sathish
- Ware house management and Inventory control Vikas Publication House

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STR			2					2
TO BE UNITERS	Course owner	Department of Operations	Syl	labus	vers	ion	1.0	0
	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	;
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure							

In-plant logistics covers movements of raw materials, components and sub-assemblies – either from/to stocking points to/from line-sides, within the manufacturing plant for turning them into finished goods, as well as managing finished products after they come out of the production line.

COURSE OBJECTIVES:

- 1. To develop competencies and knowledge of students to become In-plant logistics professionals
- 2. To orient students in the field of Logistics
- 3. To help Students to understand In-plant logistics operations

Unit	Topics
I	Introduction to Logistics in a manufacturing setup - Manufacturing process - physical flow - Assembly line - OTIF (on time in full) - Basic activities of in-plant logistics : Loading, Unloading, Receiving, sorting, Storing, Picking and dispatch activities - process of coordination with assembly line
II	Job shop- work allocation - Production scheduling — selection of products/ models/parts/ Team table/Time table - Material flow — production line —feeding just in time inventory, Vendor management -
III	
IV	Inbound logistics- inventory management, importance, Value addition, stock counts, audits
V	Out bound logistics – Finished goods (FG)- tooling, binding ,creating, input process, output - packaging, Kitting, far goods(FH), Spare parts, , After markets process, schedule of transport, vendor coordination
	Timely supply – scheduling, vendor co ordination quality control, pre delivery Inspection, Quality assurance, on time in full (OTIF)

Course outcomes:

- 1. Students will be able to apply the Basic knowledge of In-plant operations in the real life situation
- 2. This subject will enable them to enhance their ability and professional skills

Text & Reference Books:

1. Course Material Prepared by LSC

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TO BE UNITED	Course owner	Department of Operations	Syl	labus	vers	ion	1.0	0
	Course Pre-requisite(s)	NIL	Cor	ntact	hour	S	45	,
	Course Co-requisite(s)	NIL	Dat	e Ap	prov	ed		
	Alternate Exposure		•	•	•			

Proper documentation helps you and your overseas buyer in handling your transactions in all means including time management, payment protection, claim on loss etc.

COURSE OBJECTIVES:

• To familiarize the student with the basic concept of formalities for export trade, and the documentation process required for import and export.

Unit	Topics
I	Introduction to Export and Import 12 Hrs Basics of Exports - Classification of goods - Preparation for Exports - Methods of Exporting - Export Marketing Organizations - Functions - Registration formalities IEC Number - Procedure of obtaining IEC Number - RCMC (Registration Cum Membership Certificate) - Export Credit Guarantee Council (ECGC) - Application for import and export of restricted items.
II	Documentation Framework and Contracts 15 Hrs Aligned Documentation System: Commercial Documents - Auxiliary Commercial Documents - Regulatory Documents - Documents related to goods - Documents related to Shipment - Documents related to Payments - Documents related to Inspection - Documents related to Excisable Goods - Types of Contracts - Export Contracts.
III	Payments and Finance 15 Hrs Factors - Methods of receiving Payment - Instruments of Payments-Letter of Credit Pre-shipment Finance - Post-shipment Finance - Post-shipment Credit in Foreign Currency - Negotiation of documents with bank - CENVAT - Duty Draw back
IV V	Quality Control and Clearance of Cargo 15Hrs Objective of Quality Control - Methods - Procedure for Pre-shipment Inspection - Role of Clearing and Forwarding Agents - Role of Inspection Agents-Clearance of Cargo Central Excise Clearance Procedure - Central Excise Clearance Option - Shipment of Export Cargo.
	Customs Clearance, Risk and Insurance Policy 15 Hrs Customs Clearance of Export Cargo - Customs Clearance of Import Cargo - Risk: Types - Types of cover issued by ECGC - Cargo Insurance. Processing of an export order - Major laws governing export contract.

- 1. Recognize the impact of information and communication technologies, especially of the internet in business operations.
- 2. Recognize the fundamental principles of eBusiness and e-commerce.
- 3. Explain the security protocols and the issues in internet security.

Text & Reference Books:

- 1. RAMA, GOPAL C. (2008) Export Import Procedures Documentation and Logistics. New Age International Publishers: New Delhi.
- 2. KHUSHPAT, S. J. (2013) Export Import Procedures and Documentation. Himalaya Publishing House: New Delhi. 3. PAWAN, KUMAR (2001) Export of India's Major Products Problems and Prospects. New Century Publications: New Delhi.
- 3. KAPOOR, D. C. (2002) Export Management. Vikas Publications: New Delhi.
- 4. CHERUNILAM, F. (2004) International Trade and Export Management. Himalaya Publications: New Delhi.

Websites:

- www.cbec.gov.in/customs/cs-act/cs-act-idx.htm (Central Board of Excise and Customs Customs Act, 1962, Customs Tariff Act 1975, Other Acts)
- www.epckenya.org/(Export Promotion Council)
- commerce.nic.in/MOC/index.asp (Ministry of Commerce and Industry)
- www.dgft.gov.in/ (Directorate General of Foreign Trade)