APPRENTICESHIP-BASED UG DEGREE (LOGISTICS)

COLLABORATIVE PROGRAMME OF LSC



REGULATION & CURRICULUM VERSION 2019-20

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM)

(Deemed to be University, Estd. u/s 3 of UGC Act 1956) *VISAKHAPATNAM*HYDERABAD*BENGALURU* Accredited by NAAC with 'A+' Grade



REGULATIONS & SYLLABUS Bachelor of Business Administration (Logistics)

A Three Year Full Time Semester Program (w.e.f. 2019-20 Admitted Batch)

GITAM INSTITUTE OF MANAGEMENT

GITAM UNIVERSITY

Gandhi Nagar Campus, Rushikonda Visakhapatnam – 530045

Website: www.gitam.edu

APPRENTICESHIP-BASED UG DEGREE (LOGISTICS) COLLABORATIVE PROGRAMME OFLSC

REGULATION & CURRICULUM

VERSION 2019-20

© Logistics Sector Skill Council

Collaborating Institution may change the curriculum and assessment system in consultation with LSC.

THE PROGRAMME

Logistics Sector Skill Council offers apprenticeship-based UG Degree Programmed in collaboration with select institutions across India from the Academic Year 2019-20.

LogisticsSectorSkillCouncil(LSC), establishedbytheMinistryofSkillDevelopmentandEntrepreneurship(MSDE) though NationalSkillDevelopmentCorporationofIndia(NSDC), hastakenupanumberofinitiativeswiththeobjectiveofcreating adequateskillsforgainfulemploymentatvariouslevelsinLogisticsIndustry.

InordertomaketheprogrammeeffectiveandefficientLSCactivelyassistsallcollaboratinginstitutionsinthefollowing ways.

- CurriculumDevelopmentandContinuousImprovement
- SecuringApprenticeshipTraining(On-the-jobTraining)inLogisticsCompaniesforallstudentsofthisDegree programmeundertheprovisionsofApprenticeshipAct,1961
- SecuringamonthlyStipend,asprescribedbytheApprenticeshipAct,duringtheApprenticeshipTrainingperiodfor every student.
- ProvidingalistofresourcepersonsforteachingcriticalcoursesforwhichtheCollaboratingInstitutions(CI)donothavefulltimefaculty
- Assessingtheperformance&learningofstudentswhileinApprenticeship
- SecuringfinalplacementsforallstudentsonsuccessfulcompletionoftheDegreeProgramme
- AnnualAssessmentofAcademicProcessintheCollaboratingInstitution(CI)toensurechurningoutskilledgraduatesiLogistics

1. ELIGIBILITY FOR ADMISSION

Candidates for admission to the Apprenticeship-based Collaborative UG Degree Programme shall have passed +2 in any group from a recognized Board or equivalent.

2. ADMISSION

Admissionisbasedonthemarksinthequalifyingexamination, and on the prevailing reservation norms of the State in which the CI functions.

3. PROGRAMMEDURATION

The Programme extends over a period of THREE years under semester pattern comprising SIX semesters.

4. PROGRAMMECONTENT

- 21Courses@7per eachOddSemester
- 6 PracticalCourses@twopereachEvenSemester
- 3AlliedCourses@oneineachEvenSemester
- ApprenticeshipTrainingfor18months(450days)spreadacrossequallyinthethreeEvenSemesters.

5. ELIGIBILITY FOR DEGREE

StudentsshallhavesuccessfullycompletedallrequirementsoftheDegreeProgrammeforadurationofnotlessthanthree academicyearscomprising6semesters,passedtheexaminationsprescribed,andfulfilsuchconditionsashavebeen prescribedtherefor.

6. STANDARDOFPASSING & AWARDDIVISION

- a. Studentsshallhaveaminimumof50%oftotalmarksoftheUniversityexaminationsineachCourse,subjecttothe conditionthatthestudentssecureaminimumof60%marksineachlevelofApprenticeship.Theoverallpassing minimumis50%bothinaggregateofandseparatelvinContinuousInternalAssessmentandExternalExaminationin eachCourse.
- b. Acandidatewhosecures 50% or more marks but less than 60% of the aggregate marks, shall be awarded the Degree with the gradation of 'SECOND CLASS'.

c. Acandidate, whose cures 60% or more of the aggregate marks, shall be awarded the Degree with the gradation of 'FIRSTCLASS'.

7. CONTINUOUSINTERNALASSESSMENT FOR EVEN SEMESTERS

- a. ContinuousInternalAssessmentforeachCourseshallbebymeansofWrittenTests,Assignments,andClassTestsfora totalmarkof25.
- b. TwoInternalTestsof2hourseachmaybeconductedduringtheSemesterforeachCourseandthebestmarkoutofthe twomaybeconsidered.OneModelExaminationmaybeconductedattheendofeachSemesterpriortoUniversity examinations.StudentsmaybeaskedtosubmitatleastthreeassignmentsineachCourse.
- c. Thevaluedanswerpapers/assignmentsshallbegiventothestudentsandthevaluationiscompletedandtheybe asked to check and satisfy themselves about the marks they scored.
- d. AllrecordsinrespectofContinuousInternalAssessmentsshallbeinthesafecustodyoftheCluntiltheconcerned Batchpassesoutsuccessfully.
- e. ContinuousInternalAssessmentofstudentsforeachCourseshallbetheresponsibilityoftheconcernedCourse Faculty.
- f. The Continuous Internal Assessment marks are to be submitted to the University at the end of every Semester, as per the norms and Examinations Calendar of the University with which the Clisaffiliated.
- g. AssessmentofthestudentsontheirApprenticeshipwillbemadebyLSCinvolvingExaminationCommittees constitutedbyLSCconsistingofafacultymemberofCl,IndustryMentor,andanExternalExpert(eitherfromindustry oracademia).Thisassessmentwilltakeplaceinthepremisesofthecompanieswherestudentsaredeputedfor Apprenticeship.

8. CONTINUOUS INTERNAL ASSESSMENT FOR ODD SEMESTERS

8.1:The assessment of the student's performance in a theory course shall be based on two components: Continuous evaluation (40 marks) and semester end examination 60 marks 8.2:A student has to secure an aggregate of 50% in the course in the two components put together to be to be declared to have passed the course, subject to the condition that the candidate must have secured a minimum

of 30 marks (ie.50% in the theory components at the semester -end examination.

9. ASSESSMENT PROCEDURE

S.№.	COMPONENT OF ASSESSMENT	MARKS ALLOTTED	TYPE OF ASSESSMENT	SCHEME OF EXAMINATION
1.	Theory	40	Continuous Evaluation	 (i) Mid Semester examination: 15 marks. (ii) Two surprise subject related (Best two will be taken out of three Quizzes) Quizzes: 10 marks. (iii) Class room Seminars and Case Discussion/workshop/training/Assignments: 15marks.
		60	Semester-end Examination	The semester-end examination in theory subjects: 60 marks.
		100		
	Total			
2.	Viva Voce at the end of each semester	50	Viva Voce	Viva at the end of each Semester shall be on all courses of that Semester and Industrial visits of that Semester.

10. ATTENDANCE

examination.

11. ASSESSMENTOFPRACTICALCOURSES

A record of exercises as signed, and results obtained shall be submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as soon as a submitted by each student to the Industry Mentor as a submitted by each student to the Industry

each exercise is completed. The Examination Committee would take up evaluation of such records, and conduct viva during its visit to companies for a maximum mark of 75. The Industry Mentor would award marks for Internal Assessment (maximum marks 25).

12. EXAMINATIONCOMMITTEEFORASSESSMENTOFPRACTICALCOURSES&APPREN TICESHIP

LSC would constitute an Examinations Committee for deputation to each company where students are allotted for Apprenticeship. Each Examination Committee will comprise of

- a. IndustryMentor(CompanyExecutive)towhomstudentsreportineachcompany
- b. OneFacultyMembernominatedbyCI
- c. Onesubjectexpert(eitherfromindustryoracademia)nominatedbyLSC

The Examination Committee will visit the company three times during each Even Semester at the rate of one visit per two would be a substantial of the properties of the prop

months. The visits would be scheduled by LSC inconsultation with the Industry Mentor. The visiting Examination Committee would assess the students on their learning in Apprenticeship with a pre-set question naire. The question naire for this purpose would be prepared and provided to the Examination Committee. The Examination Committee would also assess the students on their performance in the Practical Courses.

ThemarksawardedbytheExaminationsCommitteeforApprenticeship,andPracticalCourseswouldbeincorporatedinth e GradeSheetissuedbytheCI/University.

13. EXAMINATION

The University to which the Clisaffiliated will conduct and assess examination for all courses listed in Odd Semesters. The Examiners Committee constituted by LSC will assess students for Apprenticeshipscheduled in Even Semesters.

8.0 RETOTALLING, REVALUATION & REAPPEARANCE AS PER NEW REFORMS

- 9.1 Retotaling of the theory answer script of the semester-end examination is permitted on request by the student by paying the prescribed fee within one week after the announcement of the results.
- 9.2 Revaluation of the theory answer scripts of the semester-end examination is permitted on request by the student by paying the prescribed fee within one week after the announcement of the result.
- 9.3.1 A student who has secured 'F' grade in a theory course shall have to reappear at the subsequent Semester end examinations held for that course.
- 9.3.2 A student who has secured 'F' grade in Project work/industrial training etc shall have to improve his/her report and reappear for viva voce with the juniors for the first two years, whereas the final year student will appear for re-examination at the instant special examination.

9.4 Provision for Answer Book Verification & Challenge Evaluation:

9.4.1 If a student is not satisfied with his/her grade after revaluation, the student can

apply for, answer book verification on payment of prescribed fee for each course within one week after announcement of revaluation results.

9.4.2 After verification, if a student is not satisfied with revaluation marks/grade awarded, he/she can apply for challenge valuation within one week after announcement of answer book verification result/ two weeks after the announcement of revaluation results, which will be valued by the two examiners i.e., one Internal and one External examiner in the presence of the student on payment of prescribed fee. The challenge valuation fee will be returned, if the student is succeeded in the appeal with a change for a better grade.

9.5 Supplementary Examinations & Special Examinations:

- 9.5.1 The odd semester supplementary examinations will be conducted on daily basis after conducting regular even semester examinations in April/May.
- 9.5.2 The even semester supplementary examinations will be conducted on daily basis after conducting regular odd semester examinations during Oct/Nov.
- 9.5.3 A student who has completed his/her period of study and still has "F" grade in final semester courses is eligible to appear for Special Examination normally held during summer vacation.

10. Promotion to the Next Year of Study

- 9.6.1 A student shall be promoted to the next academic year only if he/she completes the academic requirements of 60% of the credits till the previous academic year.
 - 9.6.2. Whenever there is a change in syllabus or curriculum he/she has to continue the course with new regulations after detention as per the equivalency established by the BoS to continue his/her further studies.
 - 10.3The courses like Workshop, Industrial tour and Industrial training are to be considered in supplementary exams.
 - 10.4A student who has secured 'F' Grade in project work / Industrial Training shall be permitted to submit the report only after satisfactory completion of the work and viva-voce examination.

11. Repeat Continuous Evaluation:

- 12.1A student who has secured 'F' grade in a theory course shall have to reappear at the subsequent examination held in that course. A student who has secured 'F' grade can improve continuous evaluation marks upto a maximum of 50% by attending special instruction classes held during summer.
 - 12.2 A student who has secured 'F' grade in a practical course shall have to attend Special Instruction classes held during summer.

- 12.3 A student who has secured 'F' grade in a combined (theory and practical) course shall have to reappear for theory component at the subsequent examination held in that course. A student who has secured 'F' grade can improve continuous evaluation marks upto a maximum of 50% by attending special instruction classes held during summer.
- 12.4 The Repeat Continuous Evaluation (RCE) will be conducted during summer vacation for both odd and even semester students. A can student can register a maximum of 4 courses. Biometric attendance of these RCE classes has to be maintained. The maximum marks in RCE be limited to 50% of Continuous Evaluation marks. The RCE marks are considered for the examination held after RCE except for final semester students.
- 12.5 RCE for the students who completed course work can be conducted during the academic semester. The student can register a maximum of 4 courses at a time in slot of 4 weeks. Additional 4 courses can be registered in the next slot.
- 12.6 A student is allowed to Secial Instruction Classes (RCE) 'only once' per course.

14. SPECIAL EXAMINATION

A student who has completed the stipulated periods of study for the BBA(Logistics) program

and still has failure grade 'F' in not more than **Four theory courses**, excluding practical examination

and Project viva, may be permitted to appear for special examinations, which shall be conducted

during the summer vacation at the end of the last academic year.

15. BETTERMENT OF GRADES

- a) Candidates who have passed all the courses of a program within the stipulated period of study
 - and who have obtained Second Class only are eligible for Betterment of Grades.
- b) Candidates who have already secured First Class or First Class with Distinction are not eligible
 - for betterment of Grades.
- c) Candidates who have completed the program of study beyond the stipulated period of study
 - i.e. through Special examinations or subsequently, are not eligible for betterment of Grades
- d) Betterment of Grades is permitted only through appearance of the theory examinations.
- e) Betterment of Grades is permitted only once, at the end of the program of study, simultaneously along with Special examinations.
- f) Candidates can appear for betterment at one course, across the semesters, for the number of semesters
 - theyhave studied. i.e. a Six semester BBA (Logistics) student can appear for betterment in any Six

- courses of study.
- g) The better Grade secured either in the first or betterment appearance shall be considered as the final

Grade.

- h) New Grade Card/PC shall be issued to candidates who have improved their Grades/Class after submitting the old Grade Card/PC.
- i) The date, month and year of the declaration of betterment result shall be printed on the Grade Card/PC
- j) Betterment marks shall not be taken into consideration for award of ranks, prizes, and medals.
- k) Candidates have to pay a betterment fee as prescribed by the University.
- 1) Betterment of Grades is permitted 'only once', immediately after completion of the program of study
- m) The rules & regulations framed by the University from time to time shall be applicable.

16. GRADING SYSTEM

Based on the student performance during a given semester/trimester, a final letter grade

will be awarded at the end of the trimester/semester in each course. The letter grades and the corresponding grade points are as givenin Table 3.

Table 3: Grades and Grade Points

Sl.No.	Grade	Grade Points	Absolute Marks
1	O (outstanding)	10	90 and above
2	A+ (Excellent)	9	80 to 89
3	A (Very Good)	8	70 to 79
4	B+ (Good)	7	65 to 69
5	B (Above Average)	6	60 to 64
6	C (Average)	5.5	55 to 59
7	P (Pass)	5	50 to 54
8	F (Fail)	0	Less than 50
9	Ab(Absent)	0	-

17. GRADE POINT AVERAGE

CGPA required for classification of class after the successful completion of the programmed is shown in the table 4

TABLE 4: CGPA Required for Award of Degree				
First Class with Distinction	≥8.0*			
First Class	≥6.0			
Second Class	≥5.5			
Pass	≥5.0			

^{*}In addition to the required CGPA of 8.0, the student must have necessarily passed all the courses of every semester in the First Attempt.

1.1 **Examination pattern**

A. The following shall be the structure of the question papers of different courses with case Analysis

S. No.	Pattern	Marks
1.	Section A: Five one page answer questions (Five out of Eight to be answered).	5 X 2 = 10 marks
2.	Section B : Five Essay type questions (either or choice Questions from each unit)	5 X 8 = 40 marks
3.	Section C : One Case let (not more than 200 words)	1 X 10 = 10 marks
	Total	60 marks

B. The following shall be the structure of question paper for courses with numerical problems.

S. No.	Pattern	Marks
1.	Section A: Five questions (both theory / problems) (Five out of Eight to be answered).	5 X 4 = 20 marks
2.	Section B: Problems/Theory (either or choice Questions from each unit)	5 X 8 = 40 marks
	Total	60 marks

C. The following shall be the structure of question paper for all the other theory courses

S.No.	Pattern	Marks
1.	Section A: Five one page answer questions (Five out of Eight to be answered).	5 X 3= 15 marks
2.	Section B: Five Essay type questions (either or choice Questions from each unit)	5 X9 = 45 marks
	Total	60 marks

18. PATTERN OF QUESTIONPAPER

Part	Question Type	No. of Questions	Mark per Question	Total Marks
А	MultipleChoiceQuestionswith variedlevelsofdifficulty	10 (Without any Choice)	1	10
В	Descriptive Questions	5(Outof7Questions)	10	50
С	Essay Answer Question	1(WithoutanyChoice)	15	15
	Total			75

19. ALLIEDCOURSES

The Allied Courses scheduled in Even Semesters are offered to the students on MOOC format, through the web-portal of LSC. Content delivery, assignments, tests, and assessments are made through the web-portal. The marks secured by

students in the Allied Courses would be incorporated in the Grade Sheet is sued by the CI/University.

20. MISCELLANEOUS

- a. EachstudentshallpossesstheprescribedtextbooksforallCourses.
- b. TheCl/UniversitywillissueIdentityCardstoalIstudents.
- $c.\ The University will award students, who successfully complete the Program me within the stipulated period, the degree.$

21. FEE PAYMENT

WhiletheCourseFeeispayabletotheClasperitsnorms,theExaminationFeeispayabletotheUniversitytowhichtheCliss affiliated.

22. BATCH SIZE

The CI shall admit one section of students per Batch (Year). The CI shall strictly follow the norms of the University to which it is affiliated as far as the total number of students per Batch (Section.

23. OTHERREGULATIONS

Besides the above, the common Regulations of the University shall also be applicable to this programme.

24. PROGRAMME STRUCTURE

SEMESTER I

NI-	01 -	000000		0 !!!	Marks			
No.	Code	Course	Hours	Credit	CIA	Exam	Total	
1	L19C01	English	45	3	40	60	100	
2	L19C02	Hindi/Sanskrit /Special English	45	3	40	60	100	
3	L19C03	Fundamentals of Logistics	45	3	40	60	100	
4	L19C04	Principles of Management	45	3	40	60	100	
5	L19C05	Business Statistics	45	3	40	60	100	
6	L19C06	Materials Management	45	3	40	60	100	
7	L19C07	Warehousing and Distribution Centre Operations	45	3	40	60	100	
8	MBL191	Semester End Viva Voce		2	50		50	
		Total		23			750	

SEMSETER II

No.	Code	Course	Hours	Credit	it Marks			
					CA	Exam	Total	
1	L19C08*	Materials Management – Practical	30	2	25	75	100	
2	L19C09*	Warehousing Management – Practical	30	2	25	75	100	

Apprenticeship-based UG Degree Programme Allied course (1 out of 2) L19A01* 45 3 100 100 4 L19C10* Apprenticeship - Level 1 1200 12 400 400 MBL192 2 Semester End Viva Voce 50 50 Total 21 750

Pass Marks:

SEMESTER III

No.	Code	Course	Hours	Credit	Ма	rks	
					CIA	Exam	Total
1	L19C11	Soft Skills	45	3	40	60	100
2	L19C12	Business Communication)	45	3	40	60	100
3	L19C13	Freight Forwarding (Ocean & Air Cargo)	45	3	40	60	100
4	L19C14	Forecasting and Inventory Management	45	3	40	60	100
5	L19C15	Surface Transportation & Courier, Express, and Parcel	45	3	40	60	100
6	L19C16	Human Resources Management	45	3	40	60	100
7	L19C17	Management and Cost Accounting	45	3	40	60	100
8	MBL291	Semester End Viva		2	50		50
		Total		23			750

SEMESTER IV

No.	Code	Course	Hours	Credit	Marks		
					CIA	Exam	Total
1	L19C18*	Surface Transportation – Practical	30	2	25	75	100
2	L19C19*	ForecastingandInventoryManagement— Practical	30	2	25	75	100
3	L19A02*	Allied Course (1 out of 2)	45	3	-	100	100
4	L19C20*	Apprenticeship – Level 2	1200	12	400	-	400
5	MBL292	Semester End Viva		2	50		50
				21			750

SEMESTER V

No.	Code	Course	Hours	Credit	Ма	Marks	
					CIA	Exam	Total
1	L19C21	MIS for Logistics	45	3	40	60	100
2	L19C22	International Logistics Management	45	3	40	60	100
3	L19C23	Marketing Management	45	3	40	60	100
4	L19C24	Retail Logistics and E-Commerce	45	3	40	60	100

	Apprenticeship-based UG Degree Programme										
5	L19C25	Logistics Network Design	45	3	40	60	100				
6	L19C26	Port Terminal Logistics	45	3	40	60	100				
7	L19C27	Liner Logistics	45	3	40	60	100				
8	MBL391	Semester End Viva		2	50		50				
		Total		23			750				

SEMESTER VI

No	Code	Cours	Hours	Credi	Ма	Marks			
		е	CI A	Exa m	Tota I				
1	L19C28	Logistics Network Design – Practical	30	2	25	75	100		
2	L19C29	Freight Forwarding – Practical	30	2	25	75	100		
3	L19A03	Allied Course (1 out of 2)	45	3	-	100	100		
4	L19C30	Apprenticeship – Level 3	120 0	12	40 0	-	400		
5	MBL392	Semester End Viva		2	50		50		
		Total		21			750		

25. PROGRAMME STRUCTURE -2019-20

APPRENTICESHIP BASED UG DEGREE PROGRAMME

Sem.	No.	Code	Course	Hours	Credit		Marks		
Seill.	NO.	Code	Course	Hours	Credit	CIA	Exam	Total	
1	1	L19C01	English	45	3	40	60	100	
1	2	L19C02	Sanskrit/Hindi/Special English	45	3	40	60	100	
1	3	L19C03	Fundamentals of Logistics	45	3	40	60	100	
I	4	L19C04	Principles of Management	45	3	40	60	100	
1	5	L19C05	Business Statistics	60	4	40	60	100	
I	6	L19C06	Materials Management	60	4	40	60	100	
1	7	L19C07	WarehousingandDistributionCentreOperations	45	3	40	60	100	
II	1	L19C08	Materials Management - Practical	60	2	25	75	100	
II	2	L19C09	Warehousing Management - Practical	60	2	25	75	100	
П	3	L19A01	Allied Course (1 out of 2) - MOOC	45	3	-	100	100	
П	4	L19C10	Apprenticeship - I	1035	34	400	-	400	
III	1	L19C11	Soft Skills	45	3	40	60	100	
III	2	L19C12	Business Communication	45	3	40	60	100	
III	3	L19C13	Freight Forwarding (Ocean & Air Cargo)	45	3	40	60	100	
III	4	L19C14	Forecasting and Inventory Management	60	4	40	60	100	
III	5	L19C15	Surface Transportation	45	3	40	60	100	
III	6	L19C16	Human Resources Management	45	3	40	60	100	
III	7	L19C17	Management and Cost Accounting	60	4	40	60	100	
IV	1	L19C18	Surface Transportation - Practical	60	2	25	75	100	
IV	2	L19C19	Forecasting and Inventory Management - Practical	60	2	25	75	100	
IV	3	L19A02	Allied Course (1 out of 2) - MOOC	45	3	-	100	100	
IV	4	L19C20	Apprenticeship - II	1035	34	400	-	400	
V	1	L19C21	MIS for Logistics	60	4	40	60	100	
V	2	L19C22	International Logistics Management	45	3	40	60	100	
V	3	L19C23	Marketing Management	45	3	40	60	100	
V	4	L19C24	Retail Logistics and E-Commerce	45	3	40	60	100	
V	5	L19C25	Logistics Network Design	60	4	40	60	100	
V	6	L19C26	Port Terminal Logistics	45	3	40	60	100	
V	7	L19C27	Liner Logistics	45	3	40	60	100	
VI	1	L19C28	Logistics Network Design- Practical	60	2	25	75	100	
VI	2	L19C29	Freight Forwarding - Practical	60	2	25	75	100	
VI	3	L19A03	Allied Course (1 out of 2) - MOOC	45	3	-	100	100	
VI	4	L19C30	Apprenticeship - III	1035	34	400	-	400	
			Total		192			4,200	

26. ALLIEDCOURSES

Students shall choose any ONE Course out of the TWO scheduled for Semesters II, IV, and VI. These courses are delivered and assessed by LSC on MOOC format.

Com	No	Code	Course	Hours	Credit		Marks				
Sem.	No.	Code	Course	nours	Credit	CIA	Exam	Total			
П	1	L19A01A	Warehouse Automation	45	3	25	75	100			
П	2	L19A01B	Best Practices in Transportation	45	3	25	75	100			
IV	1	L19A02A	Inland Waterways & Costal Shipping	3	25	75	100				
IV	2	L19A02B	Courier, Express & Parcel Services	45	3	25	75	100			
VI	1	L19A03A	Inplant Logistics	45	3	25	75	100			
VI	2	L19A03B	Documentation for Exports & Imports	45	3	25	75	100			

27. DISTRIBUTION OFCOURSES

Semester	Courses	Academic Component	Practical Component	Total Credits
Semester I	7	23	0	23
Semester II	3 + A	3	38	41
Semester III	7	23	0	23
Semester IV	3 + A	3	38	41
Semester V	7	23	0	23
Semester VI	3 + A	3	38	41
Total	30 + 3A	78	114	192

L19C01 ENGLISH

Semester 	\sum	Course Type Core	\mathbb{R}	Code L19C01	Hours 45	Credits 3	
<i>Version</i> 2019-20							

Learning Outcomes:

- interact with academic content: reading, writing, listening, speaking;
- demonstrate ability to think critically;
- utilize information and digital literacy skills; and
- demonstrate behavior and attitudes appropriate to a university environment.

UNIT I

PROSE

- 1. An Astrologer's Day-RK Narayan
- 2. The Gift of Magi-O'Henry
- 3.Education:Indian and American-Anurag Mathur
- 4. Speech on Indian Independence-Jawaharlal Nehru
- 5.A Talk on Advertising-Herman Wouk

UNIT II

POETRY

- 1. Bangle-Sellers-Sarojini Naidu
- 2.Stopping by Woods on a Snowy Evening-Robert Frost
- 3. Sonnet 'No-29'-William Shakespeare
- 4. The World Is Too Much With Us-William Wordsworth
- 5. The Wild Swan-W.B. Yeats

UNIT III

Short Stories

- 1.The Umbrella-Guy De Maupassant
- 2.The Lament-Anton Chekhov
- 3. The Fly-Katharine Mansfield
- 4.A Rose for Emily-William Faulkner
- 5. The Barber's Trade Union-Mulk Raj Anand

UNIT IV

Literature and Contemporary Issues

- 1. The Globalized World AvinashJha.
- 2. Globalization and Education: Third World Experience Amit Bhaduri.
- 3. Forests and Settlements RomilaThapar
- 4. Riches-Ramachandra Guha
- 5. Sharing the World –Amartya Sen

Unit V

Grammar

Book/Film Review

TEXT BOOK

SANSKRIT

Semester Course Type Code Thous Credits Version 2019-20		Semester 	> [Course Type Core		Code L19C02	>	Hours 45	Credits 3		Version 2019-20	$\overline{}$	\geq
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OBJECTIVES

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

LEARNING OUTCOMES

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

<u>POETRY</u>: Lesson No. 1 SaranagathiFromValmikiRamayanamYuddhakanda

17th Canto Slokas 11 – 68

Lesson No. 2 Ahimsa ParamodharmahFromSrimadbharatam,

Adiparva 8th

chapterSloka 10 – to the end of 11 Chapter

Lesson No. 3 RaghohAudaryamFromRaghuvamsa 5th Canto 1 – 35

Slokas

PROSE: Lesson No. 4 MitrasampraptihFrom Pancatantra – Ist Story

(Abridged)

 $Lesson\ No.\ 5\ Modern\ prose\ Chikrodakatha Andhra\ Kavya Kathah$

By SannidhanamSuryanarayanaSastry

Lesson No. 6 Computer YanthramBy Prof. K.V.

Ramakrishnamacharyulu

GRAMMAR

DECLENSIONS:

Nouns ending in Vowels:

Deva, Kavi, BhanuDhatr, Pitr, Go, Rama, Mati, Nadee, Tanu, Vadhoo, Matr,

Phala,

Vari &Madhu

SANDHI:

SwaraSandhi: Savarnadeergha, Ayavayava, Guna, Vrddhi, Yanadesa

VyanjanaSandhi: Scutva, Stutva, Anunasikadvitva, Anunasika, Latva, Jastva

Apprenticeship-based UG Degree Programme VisargaSandhi: Visarga Utva Sandhi, VisargalopaSandhi, VisargaRephaSandhi, OoshmaSandhi **SAMASA**: Tatpurusha (Common) (1) Dwandwa (2) Karmadharaya (2a) (2b) Dwigu ParadiTatpurusha (2d)Gatitatpurusha (2c) (2e) UpapadaTatpurusha (3) Bahuvrihi (4) Avyayibhava **CONJUGATONS** <u>Ist</u>Conjugations – Bhoo, Gam, Shtha, DrhsLabh, Mud, IInd Conjugation – As ()

IIIrd Conjugation - Yudh,

IV th Conjugation – Ish

VIII Conjugation – Likh, Kri ()

IXth Conjugation – Kreen)

Xth Conjugation – Kath, Bhash, Ram, Vand.

MBG106: HINDI

INTRODUCTION

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

OBJECTIVES

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

LEARNING OUTCOMES

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

The introduction of this course is to enlighten the students about enough working knowledge with the Hindi. The essence from Hindi Prose & Grammar and also the official language and translation are included.

गद्य विभाग (Prose Detailed Text)

-101	14-11-1	(11000 000		44		
1	याजार	टर्शन	-	जेनेन्द्र	कुमार	

- रामधारी सिंह 'दिनकर' ईच्चीः तू न गयी भेर मन से 2.
- आचार्य प्रजारी प्रसाद द्विवेदी आपने मेरी रचना पढ़ी?
- नन्दद्लारे वाजपेयी
- भारतीय साहित्य की एकता 4.
- रामविलाम शर्मा अतिथि
- विद्यानिवास मिश्र मेरी रुमाल खो गई 6.
- महायीर प्रसाद द्विवंदी कचि और कविता
- महादेवी यमां सोना हिरणी
 - प्रेमचंद कफन

उपवाचक विभाग (Non-Detailed Text)

- जयशंकर प्रसाद पुरस्कार
- श्रीमती मञ्जू भण्डारी धार
- 2 - प्ररिशंकर परसाई मदाचार का तावीज
- यशपाल आदमी का वद्या
- सुदर्शन हार की जीत
- प्रेमचन्द ठाकुर का कुओं
- श्री चन्द्रधर शर्मा गुलेरी उपने कहा था
- श्री अज्ञय राज
- भीष्म साहनी चीफ की दावत

व्याकरण भाग

- निर्देश के अनुसार वाक्यों को बदलकर लिखिए।
 - (Rewriting of sentences as directed)
 - 1. कारक (Case)

- 2. 河川 (Gender)
- 3. वचन (Number)
- 4. काल (Tense)
- 5. वाच्य (Voice)
- II. शृद्ध कीजिए (Correction of Sentences)
 - क) 'चाहिए' प्रयोग
 - ख) लिंग और वचन संबंधी
- III. वाक्य प्रयोग (Make your Own Sentences)
- IV. कार्यालय हिन्दी : प्रशासनिक

शब्दावली / परनाम (Karyalay Hindi : Administrative terminology)

- क) कार्यानयों के नाम
- ख) पद नाम
- V. संधि विच्छेद (Sandhi Vichehhed)
- VI. विलोम शब्द (Antonyms)
- VII. पन्न लेखन (Letter Writing)
- VIII. गद्यांश के आधार पर दिये गये प्रश्नों का उत्तर देना चाहिए।
- VIII. निवंध

Text Book

- Prose Text: Dr. Ajaya Kumar Patnaik, Gadya Gaurav, Sonam Prakashan, Badamdadi, Cuttak.
- 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

Apprenticeship-based UG Degree Programme

BBA - II SEMESTER

MBG108: SPECIAL ENGLISH

INTRODUCTION

Linguistics is the scientific study of human language. It has got several branches. Phonetics is that branch of linguistics which deals with the study of speech sounds or phonemes in general. Phonemes are smallest units of speech sounds. They are not meaningful by themselves. But they can bring about change in meaning. Phonemes are combined into larger meaningful units called morphemes.

OBJECTIVES

- 1) To enable students to get familiarized with the sounds and symbols of English.
- 2) To enable students to apply the basics of phonetics and grammar for effective conversation.

LEARNING OUTCOMES

- 1) The student learns the basics of English phonetics and pronunciation, speech rhythm and intonation
- 2) The student also grasps the essentials of grammar and vocabulary, leading to effective communication skills.

SYLLABUS

UNIT-I: Basics of Phonetics

UNIT-II: Word Stress

UNIT-III: Intonation

UNIT-IV: Applied grammar and usage –Subject Verb agreement-Correct uses of tenses-types of clauses -Tag questions-Correct usage of punctuation marks

UNIT-V: Vocabulary- The importance of vocabulary in language.-2)Word formation techniques (3) Technical words, phrasal verbs, idiomatic usages, one word substitutions, homonyms, homophones, eponyms.

TEXT BOOK

Text Book will be prepared by GIM faculty

REFERENCE BOOKS

- 1. Mark Hancock (2013), English in Use, Cambridge University Press.
- 2. Gunter Gerngross and Herbert Puchta (2013), *Playway to English*, Cambridge University Press.

JOURNALS

- 1. International Journal of English Linguistics, Canadian Center for Science and Education.
- 2. Journal of English Linguistics, Sage Journals.

Apprenticeship-based UG Degree Programme

FUNDAMENTALS OF LOGISTICS

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto become logisticsprofessionals
- ToorientstudentsinthefieldofLogistics
- · TohelpStudentstounderstandFundamentalsofLogistics

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofLogistics inthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsinLogistics

Unit	Topics	Focus
I	Introduction to Logistics: HistoryofLogisticsNeedforlogistics-CostandProductivity,costsaving&Productivityimprovement. Logistics Cost, reduction in logistics cost, benefits of efficient Logistics, Principles of Logistics, Technology&Logistics-Informatics,Logisticsoptimization.ListingofSub-sectorsofLogistics	Conceptual
II	LogisticsandCustomerService-DefinitionofCustomerServiceElementsofCustomerService-PhasesinCustomerService-CustomerRetention-ProcurementandOutsourcing-Definitionof Procurement/Outsourcing-BenefitsofLogisticsOutsourcing-CriticalIssuesinLogisticsOutsourcing	Conceptual
III	GlobalLogistics-GlobalSupplyChain-OrganizingforGlobalLogistics-StrategicIssuesinGlobal Logistics-ForcesdrivingGlobalization-ModesofTransportationinGlobalLogisticsBarriersto GlobalLogistics-MarketsandCompetition-FinancialIssuesinLogisticsPerformance-Integrated Logistics-NeedforIntegration-ActivityCentresinIntegratedLogistics.Roleof3PL&4PL.	Analytical
IV	a) Warehouse:Warehouse-Meaning, Typesof Warehouses Benefits of Warehousing. b) Transportation-Meaning; Typesof Transportations, efficient transportation system and Benefits of efficient transportation systems. c) Courier/Express - Courier/Express-Meaning, Categorization of Shipments, Courier Guidelines, Pricingin Courier-Express Sector for international and domestics hipping. d) E-Commerce-Meaning, Briefon Fulfillment Centers, Reverse logistic sine-commerce sector, Marketing in e-commerce and future trends in e-commerce.	Analytical
V	a) EXIM:BriefonEXIM/FF&CC,Multi-modaltransportation,briefoncustomsclearance,bulkload handlingandbriefontrans-shipment. b) Supplychain. c) Coldchain. d) LiquidLogistics. e) RailLogistics.	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. FundamentalsofLogisticsManagement(Thelrwin/Mcgraw-HillSeriesinMarketing),DouglasLambert,JamesR Stock,LisaM.Ellram,McGraw-hill/Irwin,FirstEdition,1998.
- 3. VinodV.Sople(2009)LogisticManagement(2ndEdn.)PearsonLimited.
- 4. Logistics Management for International Business: Text and Cases, Sudalaimuthu& Anthony Raj, PHI Learning, First Edition, 2009.
- 5. FundamentalsofLogisticsManagement,DavidGrant,DouglasM.Lambert,JamesR.Stock,LisaM.Ellram,McGraw HillHigherEducation,1997.
- 6. LogisticsManagement,IsmailReji,ExcelBook,FirstEdition,2008.

PRINCIPLESOF MANAGEMENT

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

COURSE OBJECTIVES:

- Todevelopcompetenciesandknowledgeofstudentsto become effectiveprofessionals
- Toorientstudentsonrecentchangesanddevelopmentinthe field ofmanagement
- TohelpStudentstounderstandbasicPrinciplesandconcepts ofManagement

LEARNING OUTCOMES:

- Studentswillbeabletoapplytheknowledgeabout managementinthereal-lifebusinesssituation
- Thissubjectwillenablethemtoenhancetheirmanagerial abilityandprofessionalskills

Unit	Topics	Focus
I	Management:Nature,Definition,CharacteristicsandScopeofManagement-Managementasa ScienceorArtorProfession-ContemporaryIssuesandChallengesinManagementof21stCentury- LevelsofManagement-Skillsofamanager-Rolesofamanager.	Conceptual
II	PlanningandDecisionMaking:(a)Planning:TheProcessofPlanning,Objectives,Policyand Procedures,ForecastingandDecisionMaking.StrategicPlanning—meaningandprocessMBO— meaning,processandrequirementsforimplementation;(b)DecisionMaking—Meaning;Typesof decisions; Process; Significance; Limitations; — Rational economic model and Administrativemodel; -Programmed and non-programmed decisions-Creativity and innovation- Blue Ocean & Red Ocean Strategy	Conceptual
III	Directing and Staffing:	Analytical
	a Directing-Principles-Theory X &Y- Motivation and Behaviour- Theories of Motivation- Maslow'stheoryandHerzbergtheory,Leadership:StylesandTheories	
	b Staffing-ManpowerPlanning-RecruitmentandSelection-TrainingandDevelopment- PerformanceAppraisal	
IV	Organisation Design and Structure	Analytical
	a Organisation – Meaning; Process; Principles; Organisation structure – Determinants and forms: line,functional,lineandstaff,project,matrixandcommittees;FormalandInformal	
	 Organisation; Departmentation—Meaning and Bases; Spanof Control—Meaning and Factors influencing; Authority, Responsibility and Accountability; Delegation — Meaning, Process; Principles; Centralisation and Decentralisation—Meaning; Degree of decentralisation; Difference between delegation and decentralisation. 	
V	Ethics in the contemporary management and corporate social responsibility; Macro and Micro environmentalfactorsofbusiness-Controllableanduncontrollablefactors,SWOTanalysisand7s modelofanalysis,Managementchallengesin21stcentury	Analytical

- $1. \ LMP rasad, Principles and Practices of Management, Himalaya Publishing House$
- 2. Rao, P.S. Principles of Management, Himalaya Publishing House.
- 3. Rao, V.S.P.&Krishna, V.H.Management: Textand Cases, Excel Books
- 4. Sharma, R.K&Gupta, S.K.Business Management (3rdedition), New Delhi: Kalyani Publishers.

BUSINESS STATISTICS

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	Semester	\ I	Course Type		Code		Hours		Credits		Version	
	l ,	\geq	Core	\geq	L19C05	\geq	60	\geq	4	\rangle	2019-20	\nearrow

COURSE OBJECTIVES:

- Thiscourseaimsataidingthestudentsinreachingalevel ofincreasedcompetenceinbusinessstatisticsandexpands understanding of the applications of statistical concepts in business.
- Emphasis is placed upon learning statistical concepts through common businessproblems.

LEARNING OUTCOMES:

- GainconceptualandworkingknowledgeofBusiness Statisticsanduseitintheapplicationsofbusiness.
- Learnthemethodsofsolvingproblemsonbasicconcepts and analytical business statistical model.
- EnablethestudenttouseintroductorylevelofTransportation and queuingtheory.

Unit	Topics	Focus
1	Data collection and Measures of Central Tendency :	Conceptual
	CollectionandPresentationofData-Statisticaldata-PrimaryandSecondary;Methodsofcollection ofPrimarydata;PresentationofData-Textual,TabularandDiagrammaticform(Linechart,Bar chart,Piechart,Histogram,FrequencypolygonandOgive);Frequencydistribution.	
	MeasuresofCentralTendency-Mean(A.M.,G.M.,H.M.),Median,Mode-differentproperties; Partitionvalues-Quartiles,Deciles,Percentiles;PartionvaluesfromOgives.	
	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 4 thorder 23 and – coefficients.	
П	Correlation Analysis: Methods of Studying Correlation for Grouped and Ungrouped Frequency Distribution.	Conceptual
	RegressionAnalysis:EquationofRegressionLinesforGroupedandUngroupedFrequency Distribution,StandardErrorEstimate.	
III	IndexNumber–Construction, Priceand Quantity indexnumbers, Laspeyres', Paasche's, Edgeworth-Marshall's, Fisher's method, Relative methods, Testsofind exnumber formulae: Time and Factor reversal tests, General index number, Chainbase index number, Cost of living index number (CLI), Uses of CLI and its applications, Uses and limitations of index numbers	Analytical
	AnalysisofTimeSeries-Componentsofatimeseries,Adjustmentintimeseries,Measurementof trendbymovingaverageandleastsquaresmethods(linearandquadratictrends),Measurementof seasonalvariationbysimpleaveragemethod,Forecasting,De-seasonalisation.	
IV	Transportation and Assignment Problems Nature and scope of transportation and allocation models, different methods for finding initial solution-N-WC orner Rule, Least Cost Method and VAM. Unbalanced TP, Test for optimality – MODI method, AP a variant of Transportation model, Hungarian method, Restricted Assignment problems.	Analytical
	Queuing Theory – Models – Simple Problem – Introduction to simulation	
V	ProbabilityandSampling:Probabilitytheory-conceptandapproaches;Probabilityrules-addition and multiplication theorem, Binomial, Poisson and Normal Distribution and their applications. Sampling-PurposeandMethodsofSampling,MeritsandlimitationsofSampling.	Analytical

- 1. GuptaandGupta,BusinessStatistics.(SultanChand&Sons:NewDelhi).
- 2. Chandan, J. Statistics for Business Economics. (Vikas: New Delhi)
- 3. Sharma, Shenoyand Srivastava, Quantitative Analysis for Managerial Decision Making,

MATERIALS MANAGEMENT

Semester		Course Type		Code		Hours	\	Credits	\	Version `	
Semester	\	Course Type		_	/	110415	/	Creares	\		/
		Core		L19C06		60		Δ		2019-20	_/
' '	/	0010	/	L13000	/	00	/		/	2013 20	/

COURSE OBJECTIVES:

- Todevelopcompetenciesandknowledgeofstudentsto become effectiveprofessionals
- Toorientstudentsonrecentchangesanddevelopmentinthe fieldofmaterialmanagement
- TohelpStudentstounderstandbasicPrinciplesandconcept of materialManagement

LEARNING OUTCOMES:

- Studentswillbeabletoapplytheknowledgeaboutmaterial managementinthereal-lifebusinesssituation
- Thissubjectwillenablethemtoenhancetheirmanagerial abilityandprofessionalskills

Unit	Topics	Focus
1	Introduction:MaterialsManagement-Evolution,Importance,ScopeandObjectives-Interfacewith otherfunctions.ConceptofLogisticsandSupplyChainManagementandevolutionto4PL-Supply ChainManagement-Objectives,Components,Significance,TradeoffCustomerService&Cost.	Conceptual
II	Purchasing:PurchasinginMaterialsmanagement-systemconcept-purchasingandprocurement activitiesunderMaterialsmanagement-ValueAnalysisandvalueEngineering-Purchasingand quality Assurance- Purchase Cycle – Negotiation & Bargaining – Vendor relations - Purchasing Methods-GlobalSourcing-Stores—Functions,Importance,Organizationofstores&Storeslayout. Storesprocedure—documentation	Conceptual
III	Inventory-NeedofInventory-TypesofInventory-BasicEOQModel-EOQwithdiscounts-Classificationofmaterial-ABCAnalysis-VED,HML,FSN,GOLF,SOS(NumericalexpectedonBasic EOQ,EOQwithdiscounts&ABC)	Analytical
	Material Requirement Planning (MRP) - Advantages over conventional planning (Order Point Method)— InputandoutputofMRPsystem-Forecasting—Overviewofquantitativeandqualitative methodsofforecasting-MasterProductionSchedule-BillofMaterials—BOMExplosion-Material flow inMRP.	
	MRPII.ConceptofERP.(NumericallikelyonBOMExplosion,estimatingNetrequirements)	
IV	Quality control of material: Incoming material quality control- statistical quality control- governmental purchasing practices and procedures-Inventory control & Cost Reduction techniques: Inventoryturnsratios-Standardization—needandimportance.Codification—concept,benefits. ValueEngineeringandValueAnalysis—conceptandprocess.	Analytical
V	Materialshandlingandstoragesystems, Physical distribution logistics-transportation, Trafficand claims management- operations research and related techniques- Principles of Materials Handling system-Materials Handling Equipment – Safety issues.	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. Materialsmanagement:procedures,textandcases-A.K.Datta
- 3. Materialsmanagement:Anintegratedapproach-P.Gopalakrishnan
- ${\tt 4.\ Introduction to Materials management-J.R. Tony Arnold \& Stephen N. Chapman}$
- 5. PurchasingandMaterialsManagement-KSMenon
- 6. HandbookofMaterialsManagement-Gopalakrishnan
- 7. Materials&LogisticsManagement-L.C.Jhamb

WAREHOUSING&DISTRIBUTIONOPERATIONS

Semester | Course Type | Code | Hours | Credits | Version | 2019-20 |

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto become Warehouseprofessionals
- ToorientstudentsinthefieldofLogistics
- TohelpStudentstounderstandWarehousinganddistribution centreoperations

LEARNING OUTCOMES:

- Students will be able to apply the Basic knowledge of Warehousinganddistributioncentreoperationsinthereallifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskills

Unit	Topics	Focus
I	Introduction to Warehouse (Storage and Packaging) Background – Need for Warehouse–Importanceofwarehouse-TypesofWarehouses-Broadfunctionsinawarehouse-warehouse layoutsandlayoutrelatedtofunctions. Associatewarehouse-Itsfunctions-equipmentavailable inassociatewarehouse-Videoonwarehouse-Visitstowarehouses-WarehouseOrganization Structure-BenefitsofWarehousing.	Conceptual
II	ReceivingandDispatchofGoodsinwarehouseVariousstagesinvolvedinreceivinggoods—Stages involvedreceiptofgoods-Advancedshipmentnotice(ASN)orinvoiceitemslist-Procedurefor ArrangingofgoodsondockforcountingandVisualinspectionofgoodsunloaded-Formatsfor recordingofgoodsunloadedfromcarriers-Generationofgoodsreceiptnoteusingcomputer-Put awayofGoods-Putawaylistanditsneed-Putawayofgoodsintostoragelocations-storagelocation codesanditsapplication-Processofputawayactivity-ProceduretoPrepareWarehousedispatches	Conceptual
III	WarehouseActivitiesExplainreceiving,sorting,loading,unloading,PickingPackinganddispatch, activitiesandtheirimportanceinawarehouse-qualityparameters-Qualitycheck-needforquality check-importance of quality check. Procedure to develop Packing list / Dispatch note-Cross docking method-Situationssuitedforapplicationofcrossdocking-Informationrequiredforcoordinating crossdocking-Importanceofproperpacking-Packingmaterials-Packingmachines-Readinglabels	Analytical
IV	Warehouse Management: Warehouse Utilization Management - Study on emerging trends in warehousingsector-DGhandling-useofMaterialHandlingEquipment'sinawarehouse-Inventory Managementofawarehouse-Inbound&Outboundoperationsofawarehouseandhandling ofInbound&Outboundoperations.Distribution—Definition—Needforphysicaldistribution—functionsofdistribution—marketingforcesaffectingdistribution.Thedistributionconcept—system perspective.Channelsofdistribution:roleofmarketingchannels—channelfunctions—channel structure—designingdistributionchannel—choiceofdistributionchannels	Analytical
V	Warehouse Safety Rules and Procedures: The safety rules and Procedures to be observed in aWarehouse-Hazardouscargo-ProcedureforIdentificationofHazardousCargo-safetydata sheet-Instructionstohandlehazardouscargo-Familiarizationwiththeindustry.Health,Safety& Environment-safetyEquipment'sandtheiruses-5SConceptonshopfloor.Personalprotective Equipment's(PPE)andtheiruses.	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. JPSaxena, Warehouse Management and Inventory Control-Vikas Publication House PvtLtd, First Edition, 2003.
- 3. WarehouseManagement:AutomationandOrganisationofWarehouseandOrderPickingSystems[WithCDROM], MichaelTenHompel,ThorstenSchmidt,Springer-verlag,FirstEdition,2006.
- 4. ManagementGuidetoEfficientMoneySavingWarehousing,StephenFrey,Gower,1982.
- 5. KapoorSatishK.,andKansalPurva,'BasicsofDistributionManagement:ALogisticalApproach',PrenticeHALLofIndia

MATERIALSMANAGEMENT-PRACTICAL

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

- Indicative list of exercises is given below. The Industry Mentor can modify the exercises, and assign
 exercises relevant to the particular industry.
- The exercises shall be assigned in equal proportion during the six months of Apprenticeship.

No.	Exercises
I	Practiceondifferenttypesofmaterialhandlingequipment's(MHEs)thatisbeinghandledinsidetheorganization followtheoperatingprocedure,pre-operatingconditionsoftheMHE'sundersupervision&guidanceandfollow thetolerance.
II	HandletheMHE'sinanemptyformat(withoutload)attheidletimeofoperationsunderguidanceandlarge loadsundersupervisionandfollowthestepstoavoidtherisks.
III	Handlepalletloads,boxesloadandvariousloadsasperthecompany'sneedsandalwaysfollowsafetyand securityrules/instructionsintheworkplacetoMaintainsafetyandsecurity.
IV	Perform Total Production Management, Total Quality Management) and record keeping system.
V	PerformvariousactivitiesofMHEmaintenanceoperations,identifycriticalparts,toolsandequipmentrequired toperformselectrepairsorreplacementofpartsinvarioustypesofMHE.Identifyandfamiliarizewithlubricants and sparesused in routine maintenance
VI	Preparethejobsheetwithcompletedpreventive/breakdownmaintenancewithobservations,indentform toobtainrequiredreplacementofparts.Reporttosupervisorincaseofdelayincompletingthemaintenance operationwithcorrectreason.
VII	AssessandescalatefutureproblemsrelatedtoMHEperformanceduringtheserviceoperation. Accountforthe replacedparts and lubricants and update appropriate reports to store. Follows a fed is posal methods for worn outparts and used lubricants as perstandard operating procedure. Test MHE for its fully functional and fit for use. Schedulen extra aintenanced at ebased on the type of MHE and usage.
VIII	Detect&resolveissuesduringexecution,demonstratepossiblesolutionsandagreetaskswithintheteam.
IX	Build on effective communication with inter departments, sub-ordinates and super- ordinates for smooth operations and safety procedures

WAREHOUSINGMANAGEMENT-PRACTICAL

Semester Course Type Code Hours Credits Version 2019-20

- Indicative list of exercises is given below. The Industry Mentor can modify the exercises, and assign exercises relevant to the particularindustry.
- The exercises shall be assigned in equal proportion during the six months of Apprenticeship.

No.	Exercises
ı	Identifytheusesandlimitationsofvarioustypesofgoodscominginthewarehousebasedonorganization requirements and listthem.
II	Performinspectionprocessonthephysicalavailabilityofthegoods,againstthegoodsandtheinvoice.
III	Identify whether it is a fresh order, a partial order, left over ones, returns, etc.
IV	Carryoutcountingofgoodsunloaded,Crossverificationofthephysicalcountwiththeinvoiceandadvanced shipment notice(ASN),
V	Locatethemissingitemsforreconciliation.Prepareadetailedreportforthemanagement.Preparethegoods receiptnoteafterreconciliationofcountwithdriverscopy
VI	CarryouttheDispatchactivitiesinwarehouse.Arrangeitemsforinspectioninstagingareabeforedispatch. Followqualityassuranceprocedures.
VII	Collectitemsafterunloadingfromtruck.Initiateallocationofitemstostorageatproperlocation.Usestandard storingprocedure.
VIII	Check for the document requirements after unloading till it is put away.
IX	Verifyifhazmatcargolegalandregulatoryrequirementsarecompliedwith.Reconcileitemswithdispatchorder. Initiateactiontoarrangeformissingitemsinthedispatchorder.Takenecessaryactionincaseofstockout.
Х	Performphysicalcountingofitemsasperdispatchorderinstagingarea. Provideverified dispatch list to the transport coordinator to initiate loading. Check if proper handling and packing equipment is being used.
XI	OrganizingandManagingemails.Updatecomputersystemtoreleasedispatchlisttotransportcoordinator. Reportanyincidentsandnear-missesnoticedduringreceiptanddispatchoperations

WAREHOUSE AUTOMATION

Semester | Course Type | Code | Hours | Credits | Version | 2019-20 |

COURSE OBJECTIVES:

- Tofamiliarizethestudentwiththebasicconceptofthemost commonautomationsfromlighttoheavy
- Tofamiliarizethestudentwiththebasicconceptofthe supplychainincludingLogistics,warehousing,ITaswellas distribution andplanning.

LEARNING OUTCOMES:

The students will be able to:

- RecognizetheKnowledgeofthecommonandlatest automationsolutionsforware-housing
- UnderstandandRecognizethecostsandpre-requisitesfor eachautomationsolutionandtheexpectedbenefitsofthe differentsolutions
- Abletocompletetheanalysisandtoselectthemost appropriatesolutionforware-houseautomation

Unit	Topics	Focus
I	OverviewoftheTraditionalWarehouseOperations-WarehouseAutomationSystems:Over-view, Applications,Costs,Benefits,ROI–ReceivingAutomation:PalletInverter-Palletizers	Conceptual
II	StorageandRetrievalAutomation:VerticalandHorizontalCarrousels-VerticalLiftModule-Orbital ShuttleSystems-AS/RSMiniLoad-AS/RSUnitLoad-GarmentsonHangers	Conceptual
III	MaterialFlowAutomation-Conveyors-Lifts-AutomatedGuidedVehicles-Monorail	Analytical
IV	Picking/OutboundAutomation:Pick/PutToLight-AFrame-AutomatedOrderSelection—Pick-N-Go-OutboundSorters-AutomaticTruckLoading.	Analytical
V	AutomatingDataCollection:RFID-AutomatedMeasurementsSystems-UniqueSolutionProviders: Kiva Robot - Auto Store - Additional Automation Around the Warehouse Building Management System:Weightscales-DeliveryDrones-DeliveryRobots.	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. IndustrialAutomationandRobotics:A.K.GuptaandSKArora
- 3. AdvancedIndustrialAutomationanditsApplication:RavindraSharma Industrial Control Electronics Devices, Systems, & Applications 3D Edition Author: Terry Bartler Publisher: Delmar

BEST PRACTICES FOR TRANSPORTATION

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

COURSE OBJECTIVES:

• To familiarize the student with the informationabout transportationconsiderationsfortheimport, exportand domestic tradeprocesses.

LEARNING OUTCOMES:

Thestudentswillbeabletoassesstransportationoperations towards increased logistics efficiency while discovering opportunitiesforsavingtime, expense and hassle.

Unit	Topics	Focus
I	TransportationStrategyConsiderations:AnOverviewoftheImportProcess-AnOverviewofthe ExportProcess-BondingIssuesforExporters-NegotiatingRates-InsuranceandLiability-E-Logistics andtheInternet-UNModuleregulation-introductiontocarriageofdangerousgoods.	Conceptual
II	ImportAndExportDocumentationRequirements:Anoverviewofcommercialdocuments -CommercialInvoice-ConsularInvoice-PackingList-CertificatesofOrigin-PermitsofExport andImportofGoods-CargoControlDocuments-OtherCommercialDocuments-Distributionof CommercialDocuments	Conceptual
III	Airfreight:Introduction-Documents-TheAirWaybill(AWB)-MovingGoodsbyAir-Export Packaging-AirCargoHandling,Delivery-TheRoleoflATA-ShippingDangerousGoodsbyAir- GlossaryofAirfreightTerminology.Oceanfreight:Documents-Containers-FCL/LCL-Handlingthe LCL-HandlingtheOceanFreightShipment-ShippingDangerousGoodsbyOcean	Analytical
IV	RoadTransportation:IntroductiontoRoadTransportation-Trucking/HighwayRegulations -Documents-TheTruckBillofLading-StandardTrucks-SpecializedTrucks-Lorryhaultrucks -Heavyloadhaulagemultiaxleagemultitruck-ServiceOptionsforTruckTransport-Shipping DangerousGoodsbyTruck-LTL/FTLShipments-TruckingRatesandTariffsAChecklistofTrucking Considerations-BorderSecurityIssues.RailTransportation:Introduction-ShippingGoodsbyRail TheRailwayBillofLading-RailEquipment-MovingDangerousGoodsbyRail-OverDimensional andHeavyLiftCargobyRail.	Analytical
V	IntermodalTransport:Introduction-Shippinggoodsintermodally-DocumentaryConsiderations - OtherConsiderations-Telematics-Routing-GPRS-Monitoringfueleconomy-Driverpractice- Indicators-FutureprospectusgrowthofroadAutomation-INCOTERMS2000-TransferofLiability - IncorporatingINCOTERMSintotheContractofSale-INCOTERMSStructures-ModeofTransport RelatetoINCOTERMS.Advantagesofmultimoduletransportdocument.	Analytical

- CourseMaterialPreparedbyLSC
- 2. "Self-Compliance Strategies and the Administrative Monetary Penalty System", a Manual forImportersandExporters:PFCollinsCustomsBrokerLtd.,November2002
- 3. OAG®AirCargoGuideTMMay1997,publishedbyOAG,adivisionofReedElsevierInc.,OAG,2000ClearwaterDrive, Oak BrookIllinois.
- 4. InternationalAirTransportAssociation(IATA)DangerousGoodsRegulations

APPRENTICESHIP

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

COURSE OBJECTIVE:

- · ToorientstudentsinthepracticalfieldofLogistics
- To make Students perform Warehousing and distribution centreoperations
- To develop competencies and Skills in students to become Warehouseprofessionals

LEARNING OUTCOMES:

On completion of Apprenticeship I,

- StudentswillbeabletoperformtheactivitiesofWarehousing anddistributioncentresinthereal-lifesituation
- ThisOn-thejobtrainingwillenablethemtoenhancetheir abilityandprofessionalskillsinLogistics

Actual training will depend on the existing facilities available in the company. However, the company shall ensure that the broadskills defined against On-Job Training are imparted. In case of any deficiency in any impart the training in other divisions/departments.

Students in Apprenticeship would be assessed on the extent of skilling and aptitude gained by them during the Apprenticeship.

No. Skill components to be covered during the Apprenticeship Training in Industry 1 **Industry Health, Safety, Security & Environment:** Familiarizationwiththeindustry. Health, Safety & Environment and Followhealth, safety and security procedures -IntroductiontosafetyEquipment'sandtheiruses-Demonstrationof5SConceptonshopfloor-UseofPersonal protective Equipment's(PPE). Ш Warehousing: Perform warehouse activities like receiving, sorting, Picking, packaging, kitting, labelling and binning, Loading, unloading, dispatch, and maintaining quality parameters -Developknowledgeonthelayoutofthewarehouseandexploretheyariousstoragehappeningatdifferent locations. Understand the uses and limitations of various types of goods coming in the warehouse based on organization requirements - Forecasting and trend analysis - Forecasting and trend analysis Maintain integrity andethicsinoperations-Performmaterialhandlingactivitiespertainingtowarehouse-Performpreventive andbreakdownmaintenancechecks-Handleperishablegoods,FMCGgoods,automotivegoods,bulkcargo inwarehouse-PerformtheoperationsofMaterialHandlingEquipmentLikeBOPT,Reachtruck,Forklift,order picker-Superviseloadingandunloading-FeeddataintoERPandanalyseinwarehouse-Maintainintegrityand ethicsinoperations-PerformInboundandoutbounddocumentation-Performqualitycheckandinventory checkdocumentation-Performtransportcoordination-performtheVerificationofGSTinvoices-perform Forecastingandtrendanalysis Ш **Material Handling and Management:** Practiceondifferenttypesofmaterialhandlingequipment's (MHEs) that is being handled inside the organization followtheoperatingprocedure,pre-operatingconditionsoftheHandlepalletloads,boxesloadandvariousloads asperthecompany'sneeds-PerformTPM(TotalProductionManagement),TQM(TotalQualityManagement) andrecordkeepingsystem-PerformvariousactivitiesofMHEmaintenanceoperations, identifycriticalparts,

toolsandequipmentrequiredtoperformselectrepairsorreplacementofpartsinvarioustypesofMHE.

SOFT SKILLS

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

INTRODUCTION

Management involves utilizing the human capital of an enterprise to contribute to the success of the enterprise. Management is the act of coordinating the efforts of people to accomplish desired goals using available resources efficiently and effectively.

Today's workforce comes from varied social and cultural backgrounds, with differing standards of behaviour. These may not always be in sync with the norms of the organization. The ability to deal with differences, multiculturalism and diversity is needed more than ever. It is important, for students who would be entering the corporate world for the first time, to inculcate behaviour that is appropriate for the workplace. The importance of personal grooming, business etiquette, verbal and non-verbal communication, telephone etiquette and general professional conduct, can never be undermined.

Soft Skills is now recognised as key to making businesses more profitable and better places to work. Increasingly, companies aren't just assessing their current staff and future recruits on their business skills. They are now assessing them on a whole host of soft skill competencies around how well they relate and communicate to others.

It has been found thatsoft skills can be developed and honed on an on-going basis through good training, insightful reading, observation, and of course, practice, practice, practice.

Students can focus on areas of self-improvement to help improve their behavior, transform their professional image and create a positive impact in their careers. Greater awareness of grooming and etiquette will help one to develop poise and confidence. This will significantly impact the image that one has in any formal, professional and social situations

LEARNING OBJECTIVES

- To understand and enhance social skills
- To develop logical reasoning and quantitative abilities
- To help build greater confidence when interacting with people
- To build on the ability to make a positive first impression
- · To help improve the overall appearance

LEARNINGOUTCOMES

Soft skills would enable the student in

- 1. Understandingthestrengthsandweaknessesofoneselfand
- 2. Gainingconfidenceinparticipatingingroupdiscussiononcurrenttopics.
- 3. Improving problem solving abilities (Quantitative &Logical)

ACTIVITYSTRUCTURE

StudentswouldbefocusingonthefollowingmajoractivitiesunderthisCourse:

- a) Grooming &etiquette
- b) Introspection, self awareness and selfintroduction
- c) CVwriting
- d) Facinginterviews
- e) Training in aptitude and employability tests

Guidance on the above issues would be given by an expert and Facultywould beguiding themthroughone-to-one interaction. Assessing the month either formance would be done by the Faculty.

To be developed by the Collaborating Institution)

BUSINESSCOMMUNICATION

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	Semester	\	Course Type	\	Code		Hours		Credits		Version	
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	III	/	Core	/	L19C12		45		1 3		2019-20	/
- 1				/		/		/		/		

COURSE OBJECTIVES:

- Todevelopwrittenandverbalcommunicationskillsfor effective businesscommunication.
- Toidentifyvariouscommunicationskillsinvolvedinthe businessorganization.
- To develop business communication skills among the students.
- · Toimprovelanguageskills-reading, writing and listening

LEARNING OUTCOMES:

- · Exposelearnerstovarietyoftextstointeractwiththem
- Capabilitytoincreaselearnerstovisualizetextsandits readingformulas
- Develop criticalthinking.
- Developamorehumaneandservice-orientedapproachtoall formsoflifearoundthem.
- Improvementintheircommunicationskillsforlarger academicpurposesandvocationalpurposes
- · Criticalparticipantsintheireverydaybusinesslife

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Unit	Topics	Focus
I	IntroductiontoBusinessCommunication-CharacteristicsofEffectiveOrganizationalCommunication- Basic Forms of Communication-Process of Communication- Principles of Effective Business Communication-7C's.	Conceptual
II	AcademicVocabularyandEnglishforBusiness-CreativeWritingCriticalThinking:Introductionto criticalthinking—Benefits-Barriers—Reasoning—Arguments-Deductiveandinductivearguments -Fallacies-InferentialcomprehensionCriticalthinkinginacademicwriting-Clarity-Accuracy—Precision—Relevance.	Conceptual
III	 Businessletters–layoutofBusinessletters-types-Businessenquiriesandreplies–offers–orders–complaintsandadjustments–collectionletters–circularletters–status enquiries. EmailWriting-TheProcessofWritingEMails,breakingitDown–ThePAlBOTechnique,Structuring The3T's–Introduction,BodyandConclusion,EffectiveSubjectlines,Salutationand Signingoff-Teleconferencing,videoconferencing 	Analytical
IV	 CommunicationinBusinessEnvironment:BusinessMeetings,Notice,Agenda,Minutes-Press Releases - Corporate Communication: Internal and External, Group Discussion, Seminars, PresentationsReportingofProceedingsofameeting.OfficeMemorandum,OfficeOrders, PressRelease Listening:Activelistening—Barrierstolistening—Listeningandnotetaking—Listeningto announcements—Listeningtonewsontheradioandtelevision. 	Analytical
V	ReportsandPresentations-BusinessreportsandProposals,Format,visualaidsandcontents, Oral Businesspresentations. JobApplicationandResumeWriting	Analytical

- 1. R.C.Bhatia.BusinessCommunication.
- 2. R.K. Madhukar, BusinessCommunication.
- 3. ShrafRavi.EffectiveTechnicalCommunication.
- 4. MarilynAnderson,PramodKNayarandMadhuChandraSen.CriticalThinking,
- 5. LesikarR.V&FlatelyMV,BasicCommunicationSkillsforempoweringtheinternetgeneration,Tata-McGrawHill, 2009.2.
- 6. SharmaRC&MohanK,BusinessCorrespondence&ReportWriting,TMH,2009.

FREIGHT FORWARDING (OCEAN AND AIR CARGO)

Semester | Course Type | Code | Hours | Credits | Version | 2019-20 |

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomefreightforwardingprofessionals
- · ToorientstudentsinthefieldofLogistics
- · TohelpStudentstounderstandfreightforwarding

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeoffreight forwarding including ocean and air cargo in thereal-life situation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskills

Unit	Topics	Focus
I	Introduction to EXIM, Freight forwarding and custom clearance – types of custom clearances –lmportanceofcustomclearance–certificateoforigin,ICEGATEandinsurance–customAct–Regulationspertainingtocustomclearance–differentmodesoffreightforwarding–domesticand internationalfreightforwardingnetworks–processoffreightforwarding.	Conceptual
II	Multimodaltransportation-Vendormanagement-bulkloadhandling-briefontransshipment-DG handling - customer acquisition and management - Customs clearance procedure - Documents and itsimportance-StagesofDocumentationsprocessandprocedures-Documentationtypesandfiling processes-DetailsofdocumentsaspertheformatapprovedbytheCustoms-Therequirementof documentsforpre-shipmentandrequirementofdocumentsforImport-DO'sandDON'T'swhile handlingdifferentdocumentsduringCustomClearance	Conceptual
III	Operation Procedures of Freight Forwarding - The procedures for Pre-Operating Checks and Operationalcheckstobeperformedforeveryshipment/consignment-Listofbasichandlingof errorsandtheOperationalerrorsthatoccurincommon-Procedureforcheckingofshippingbill, AirwaybillbasedoninvoiceandpackinglistreceivedfromdepartmentforFreightForwarding. Regulations(EXIM/IATA/Countries)/COMbasedonpermutationsandcombinationsofweightvs volume.	Analytical
IV	Cargohandling,INCOtermsandterminologiesusedinCargoes-DifferentTypesofCargoesfor transportation.FullExportandImportvalueofthecargo— ImporterandexporterCode(IEC),TheregisteredPANbasedBusinessIdentificationNumberreceivedfromtheDire ctorateGeneralof ForeignTrade-DifferenttypeofCargo,Theirquantityandvalue-Packagingrequirementforthe cargoduringshipmentfromtheshipper-Inspectionprocedureforthecargowhileunloading-DO's andDON'T'swhilehandlingdifferentcargo-BasicRegulationpertainingtoCargomovementbyAir, Sea,andLand.Climaticconditionsofdifferentroutesindifferentseasons.	Analytical
V	DocumentationofFreightForwardingprocessaspercustomertimelinesandrequirements-Carting, unloading,Stacking,Loading;andStuffing-Procedurefordealingwithlossordamagetogoods-andtheirroles.TechnicalknowledgeonContainers;Pallets;Palletization;Fumigation-Thegeneralreportingprocessesandtimeframes-Differentairline/shippinglineavailablefor differentroutes-LettersofCreditandpaymentTerms.EtcMovementpolicy-Detailsofthe transportavailableinDifferentroutes-Organizationfees,chargesstructureandOrganizational procedures-computeranditsapplicationininternalsystemsofdocumentation.	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. JPSaxena, Warehouse Management and Inventory Control-Vikas Publication House PvtLtd, First Edition, 2003.
- 3. WarehouseManagement:AutomationandOrganisationofWarehouseandOrderPickingSystems[WithCDROM], MichaelTenHompel,ThorstenSchmidt,Springerverlag,FirstEdition,2006.
- 4. ManagementGuidetoEfficientMoneySavingWarehousing,StephenFrey,Gower,1982.
- 5. KapoorSatishK.,andKansalPurva,'BasicsofDistributionManagement:ALogisticalApproach',PrenticeHALLofIndia

FORECASTING&INVENTORY MANAGEMENT

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeForecastingandinventorymanagementprofessionals
- To orient students in the field of Forecasting and inventory management
- To help Students to understand forecasting and inventory management

LEARNING OUTCOMES:

- Students will be able to apply the Basic knowledge of forecasting and inventory management in the real-life situation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsininventorymanagement

Unit	Topics	Focus
I	Forecasting:meaning-needforforecasts-typesofforecasts-timeframe-DemandForecasting- TypesofDemandForecasting-Surveymethodsandstatisticalmethods-importanceofdemand forecasting- Demand planning v/s forecasting-Sources of demand-Supply chain dynamics-Key roles andresponsibilities	Conceptual
II	SalesandOperationsPlanning-S&OPgoalsandobjectivesS&OPbestpractices-S&OPmeeting activity-Collaborative Planning-Types of collaboration-Collaborative Forecasting-Collaborative planning, forecasting and replenishment-Ingredients of successful CPFR- Regression analysis and cyclicdecompositiontechniques.Short-termforecastingtechniques-TechnologyForecasting—Methodologies: - Trend Analysis, Analogy, Delphi, Soft System Methodology, Mathematical Models, Simulation, System Dynamic-Role of Technology Information Forecasting and Assessment Council (TIFAC).	Analytical
III	Inventory:	Conceptual
	PurposeofInventory-Goods-TypesofGoods-FinishedGoodsInventories-GeneralManagementof Inventory,StocksTypesofStocks,TrackingthePaperLife-Work-in-ProcessInventories-Finished Goods&SparePartsInventories-Multi-EchelonInventorySystems-SparePartsInventories-Useof Computers in Inventory Management Evaluation of Performance of Materials Function-Criteria and methodologyofevaluation-ForecastingmodeIrun-Ongoingimprovement	
IV	Codification–Classification–Methodology–Requirementofcodes–CodingStructureandDesign –Advantages-InternationalCodification–CostandConsequences–RightQuantity–Economic OrderingQuantity–DerivationsofEOQ-CostsassociatedwithInventories-DuPontmodel- Turnover&Modelinginlogistics	Analytical
V	Influenceofproductionpolicyoninventorylevels-inventoriesandcustomerservicelevel-steps toimproveinventorymanagement-optimuminventorytoimproveprofitperformance-inventory managementunderconditionforsubstantialEOQ)-inventorymanagementuncertainty(fixed orderquantitymodel)-Calculationofsafetystocks-Importanceofroleofinventory-Inventory ManagementSystems-execution-RatioAnalysisonInventory,ProfitMargin.	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. SunilChopraandPeterMeindl,SupplyChainManagementPearsonEducationAsia,3rdedition,2007
- 3. Operations Research Concepts, Problems & Solutions- Kapoor V.K.-Sultan Chand & Sons/2017- 978-81-8054-854-3 (TC-532)
- 4. VijayKumarKhurana,2007,ManagementofTechnologyandInnovation,AnebooksIndia,ChennaiFurtherReading Source
- 5. Simchi-Levi, David, "Designing and Managing Supply Chain", TataMcGraw Hill, 3rd Edition, 2007.
- 6. DavidEMulcahy, "WarehouseDistributionandOperationsHandbook,McGrawHill,6thEdition,1993.

SURFACE TRANSPORTATION

Semester		Course Type `		Code		Hours `		Credits		Version	/
Semester	> l	2 2				110415		Cr cures			
	′ I	Core	/	L19C15		45	/	1 3		2019-20	
	- 1		/		/		/		/		/

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becometransportationprofessionals
- ToorientstudentsinthefieldofLogistics
- To help Students to understand surface transportation includingroadandrailtransport

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofsurface transportationinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskills

Unit	Topics	Focus
I	Introductiontosurfacetransportation-Needfortransportations-Roleoftransportationsinlogistics-Importanceoftransportations-Typesoftransportationsmetrics-functionsoftransportations-inter modaltransport-variouslandtransportcarriersandtheirLoadcapacities-pricingandavailability-verificationofcarriersanddrivers-transitrules-trafficrulesinsidewarehousepremises-Docking procedureandsafetysteps.ProceduretoConfirmvehicleforloadingofgoods.	Conceptual
II	Tracking of transport:	Conceptual
	Transportation Optimisation - Documentation for transportation — GST — E Waybill Filing-TransportationTelematics-Vehicletrackingsystem-Communicationwithvehicledriveror transportcompany-Probablereasonsfordelayoranyissuesduringtransit-Solutionsforcorrective actions(suchastalkingtolocalauthoritiesorbreakdownserviceassistance)-Roadsigns,Listgood practices indriving.	
III	TypesofTrucksandLoadcapacity/OrganisationstructureinaTransportorganization/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 of consignments for optimal loads, to verify count of material -Reporting discrepancies such as pilferages, loss or damage of goods in transit-Checking in surance and claims-steps to close deliveries and Coordinate with loading / unloading supervisor.	Analytical
IV	Benefits of efficient transportation systems/Study on emerging trend in transportation sector/ pricing in transportation sector/govt regulations on transportation in India. Safety procedures duringtransitandemergencyresponsesteps-keepingtrackofnewsontrafficandcommunicate withdriverstoidentifydelaysandsuggestre-routing-Explaintrackingsystems-Importanceof consignmentnumber-GPSsystemsandtrackingdevices-Procedurefordownloadingandreading tracking data fromdevices	Analytical
V	CustomerManagement/Vendorcoordinationforreturntruckloads/DGHandling–featuresand facilitiesofferedbyrailwaysfactorsinfluencinggrowthinraillogistics–suitabilityfordifferentcargo and distanceranges segments – innovative schemes-facilities to popularizeraillogistics in India	Analytical

- 1. CourseMaterialPreparedbyLSC
- $2. \ JPS axena, Warehouse Management and Inventory Control-Vikas Publication House PvtLtd, First Edition, 2003.$
- 3. WarehouseManagement:AutomationandOrganisationofWarehouseandOrderPickingSystems[WithCDROM], MichaelTenHompel,ThorstenSchmidt,Springer-verlag,FirstEdition,2006.
- 4. ManagementGuidetoEfficientMoneySavingWarehousing,StephenFrey,Gower,1982.
- 5. KapoorSatishK.,andKansalPurva, 'BasicsofDistributionManagement:ALogisticalApproach', PrenticeHALLofIndia

HUMAN RESOURCES MANAGEMENT

Semester | Course Type | Code | Hours | Credits | Version | 2019-20 |

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeHumanresourcemanagementprofessionals
- · ToorientstudentsinthefieldofLogistics
- · TohelpStudentstounderstandHumanresourcemanagement

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofHuman resourcemanagementinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskills

Unit	Topics	Focus
I	IntroductionToHRM-FunctionsofHRManagement-QualitiesofHRManager-RoleofHRExecutives InternationalHumanResourceManagement-ConceptsofIHRMApproachestoIHRM-Featuresof IHRM-ImportanceofIHRM-FactorsaffectingIHRM	Conceptual
II	HumanResourcePlanning-ObjectivesofHRPlanning-HRPlanningatdifferentPlanningLevels-ProcessofHRPlanningJobAnalysisandDesign:JobAnalysisInformation-UsesofJobAnalysis-ProcessofJobAnalysis-MethodsofcollectingJobAnalysisData-JobDescription.Recruitmentand Selection-RecruitmentPolicy-ObjectivesofRecruitment-SelectionProcedure-EssentialsofSelection Procedure-StepsinSelectionProcedure.	Conceptual
III	Promotion, Transfer, JobRotation & Career Planning, Career Development-Needfor 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-Use of Performance Appraisal.	Analytical
IV	EmployeeTrainingandDevelopment-StepsinTrainingProgrammes-TrainingEvaluation-Areasof 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.	Analytical
V	OccupationalSafetyandHealth-CausesofSafetyandHealthproblemsattheworkPlace-Provisions to prevent Accidents in the work place-Stress and Consequences on Employee Performance. GrievanceHandling-ConceptofGrievance-CausesofGrievance-EffectiveGrievanceRedressal-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.	Analytical

- 1. VSPRao, HumanResource Management: Textandcases, First edition, Excel Books, New Delhi-2000.
- 2. Dr.R. Venkatapathy&AssissiMenacheri,IndustrialRelations&LabourWelfare,AdithyaPublications,CBE,2001.
- 3. RobertL.GibsonandMarianneH.Mitchell,IntroductiontoCounselingandGuidance,Vledition,PHI,2

MANAGEMENT&COST ACCOUNTING

Semester | Course Type | Code | Hours | Credits | Version | 2019-20 |

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeManagementandcostaccountingprofessionals
- ToorientstudentsinthefieldofLogistics
- To help Students to understand Management and cost accounting

LEARNING OUTCOMES:

- Students will be able to apply the Basic knowledge of Managementandcostaccountinginthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskills

Unit	Topics	Focus
I	CostAccounting-ConceptofCostCentres-CostUnits-ClassificationofCost—Overheads-Simple CostSheet—historicalandestimatedcostsheetsTendersandquotations-Contractcosting-Activitybasedcosting(ABC).ManagementAccounting:MeaningandDefinition-NatureandScope -ObjectivesofManagementAccounting-ImportanceandLimitations-ManagementAccountingvs CostAccounting.	Conceptual
П	Marginal Costing and Break even analysis:	Conceptual
	Marginal Costing and Cost-Volume-Profit (CVP) analysis: meaning, concept - assumptions and practical applications of Break-even analysis—decisions regardings ales mix-make or buy-limiting factor-export decision-plant merger-shut down of a product line-DuPont Analysis.	
III	Budgeting and Budgetary control: BudgetandBudgetaryControl:Meaning,-establishingasystemofBudgetaryControl-Preparation ofSales-Production-CashBudget-FixedandFlexiblebudgets,Masterbudget-Zerobased (ZBB)-Performancebudgeting	Analytical
IV	Analysis of Financial Statements: 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 Fundflow analysis: Fundflow statement - Preparation - Cash flow statement - cash flow analysis - Analysis of incomestatements of ports/shipping companies.	Analytical
V	Standard Costing and Variance Analysis: StandardCostingandVarianceAnalysis:MeaningofStandardCost-RelevanceofStandardCostfor VarianceAnalysis-SignificanceofVarianceAnalysis-ComputationofStandardCostsforMaterials, Labour and Overhead Variances- Comparison between Budgeting and Standard Costing - Variance reporting- Responsibility Accounting - Meaning and Objects - types of Responsibility Centres- ManagementReporting.	Analytical

- 1. MAHESHWARI,S.N.,(2013)CostandManagementAccounting.14thedition
- 2. JAIN,S.P.&NARANG,K.L.(2014)CostandManagementAccounting.14thEdition,Kalyanipublishers:NewDelhi.
- 3. TULSIAN, P.C. (2000) Practical Costing. Vikas Publications: New Delhi.
- 4. SAXENA, V.L. & VASHISHT (2014) Advanced Cost & Management Accounting-Problems & Solutions. Prentice Hallof India.
- 5. MAHESHWARI, S.N. (2014) Principles of Management Accounting. Sultan Chand& Sons.
- 6. MURTHY&GURUSAMY(2009)ManagementAccounting.TataMcGrawHill:NewDelhi.
- 7. REDDYT.S&HARIPRASADREDDY(2014)Cost&ManagementAccounting.MarghamPublications.

SURFACE TRANSPORTATION - PRACTICAL

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

- Indicative list of exercises is given below. The Industry Mentor can modify the exercises, and assign exercises relevant to the particular industry.
- The exercises shall be assigned in equal proportion during the six months of Apprenticeship.

No.	Exercises
I	Identify various land transport carriers, Load capacities, pricing and availability Check Statutory documents for verification of carriers and drivers Follow transit rules and place indent for land transport vehicles.
II	Follow traffic rules inside warehouse premises. Adopt Docking procedure and safety steps. Ascertaining vehicle fitness.ConfirmvehicleforloadingofgoodsCheckvehicletrackingsystem.Communicatewithvehicledriveror transportcompanyIdentifythereasonsfordelayoranyissuesduringtransitandtakeCorrectiveactionsand verify shipmentsstatus.
III	Follow road signs, Good practices of driving and safety procedures.
IV	CarryoutConsolidationofconsignmentsforoptimalloads.Carryoutbooking,loading,receivingandunloading ofconsignments.Coordinatewithsupervisor.
V	Verifydiscrepanciessuchaspilferages,lossordamageofgoodsintransitCheckinsuranceandclaims.Follow theStepstoclosedeliveries
VI	Identifyroutesandtransitrules. Estimatetransittime, delayanddecideonrouting of shipments. Keeptrack of newsontraffic. Communicate with drivers to identify delays. Suggestre-routing of shipments.
VII	UseGPSSystemtrackingdevices,consignmentnumber.Download,readtrackingdatafromdevicesandTrack transportvehicles.
VIII	Usevarioustypesoftemperaturecontrolledcarriersandtransporttemperaturecontrolledandhazardousgoods Followthehazmatgoodsrules, safetydatasheetandlabels.

FORECASTINGANDINVENTORYMANAGEMENT-PRACTICAL

Semester Course Type Course Type L190	de Hours C19 60	Credits 2	<i>Version</i> 2019-20
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- Indicative list of exercises is given below. The Industry Mentor can modify the exercises, and assign exercises relevant to the particular industry.
- The exercises shall be assigned in equal proportion during the six months of Apprenticeship.

No.	Exercises
I	Carry out computerized inventory system Carry out basic inventory management which include Issues of Stock, sold, transferred, reordered for production
II	IssuestockbasedoncustomerordersandrulesPlaceindentforreplenishmentordersFollowRulesof replenishmentorders
III	ListandexplainImportanceofstockcountingFollowStockcountingproceduresandperformStockCounting AscertaininventorycountsFollowDo'sandDon'tsininventorycountingObservegeneralReasonsfor discrepanciesinInventorymismatchIdentifytheissuesforInventorymismatchandtakecorrectiveactions
IV	UsetechnologiesforInventorycountingTrackInventorywithinthewarehouseApplyKnowledgeonComputer andAssociatedsoftwareUseCommunicationDevicesinwarehouseenvironmentUseScanningequipment's includingBarScannerandRFIDUseproperToolsformeasurementsMaintainRecords,GoodsReceipt,Issues andinventorybalanceUseinventorymoduleinERP

INLAND WATERWAYS & COASTAL SHIPPING

Semester | Course Type | Code | Hours | Credits | Version | 2019-20 |

COURSE OBJECTIVES:

 TofamiliarizethestudentwiththebasicconceptofInland waterwaysandcoastalshipping,theirimportanceandfuture developmentofIndianwaterways

LEARNING OUTCOMES:

- Recognize the impact of Inland water ways and coastal shipping
- Recognize the importance and future development of Indian waterways.

Unit	Topics	Focus
I	Basicsofshipping-Introductionforshipping-Typesofship-sizesofship-Basicterminologyof ships-Seatransportanditsimportance-Rollofportsinseatransport-Coastalshippingandits importance.	Conceptual
II	Inlandwaterways:Introduction—Scope—Sources(lakes,Rivers,Canals,Backwater,creeks,water coursesinletsandbays)-Workingprinciples-Impact-InlandwaterwaysinIndia:locations	Conceptual
III	Rollandimportanceofinlandwaterways:Infrastructurefacilityrequired-Rollandimportanceof inlandwaterwaysintransportation-Transportationthroughcreeks	Analytical
IV	Inlandwaterways:Roadconnectivity-Availabilityofcargo(scarcity)-Navigation(nightnavigation)- Draftrestriction	Analytical
V	Inlandwaterwaysinothercountries:Bangladesh–China-Vietnam-Europelnlandwaterwaysin India:NetworkinIndia–upcominginlandwaterways–Inlandwaterwaysauthority–Government policiesoninlandwaterways–NationalwaterwaysAct	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. Inland Waterway Transport: Challenges and prospects (Routledge Studies in Transport Analysis) Hardcover Import, 12Jul2016byBartWiegmans(Editor),RobKonings(Editor)
- ${\it 3. \ Inlandwaterways Transportation (IWT)} in India-Machiraju presentation Pvtltd$

COURIER, EXPRESS & PARCEL SERVICES

Semester | Course Type | Code | Hours | Credits | Version | 2019-20 |

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeCourierandExpress
- Professionals
- · ToorientstudentsinthefieldofCourierandExpress
- To help Students to understand Courier and Express

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofCourier andExpressinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskills

Unit	Topics	Focus
I	Typesofconsignmentsforshipment-Informationonlabelsandhandlinginstructions-consignee locations-consignments and destinations- consignment shipment operations – (loading, handling, schedulinganddocumentation)-Specialinstructionsforsafehandlingoffragileconsignments	Conceptual
II	Customerdeclarations-verificationofcustomerdeclarationsandconsignmentpackage- Clarificationprocedureincaseofdiscrepanciesnoticed-Generationofbilloflading/shippingbill forexportconsignments-Coordinationforimport/exportconsignmentsclearance	Conceptual
III	Hub-Spoke Operations & Inbound and Outbound activities: Introduction – Hub spokeactivities inboundandoutboundactivities. Typesofconsignments coming in the hub-spoke-layout of the hub-spoke-Areastoreceive, sortandin spect-Documentation activities in hub-spoke-Inspection process of inbounds or tedan doubound consignments	Analytical
IV	Trackingandtracing;AWB-essentialtimeofarrivaldelivery-Lastmiledelivery-LMD-Firstmile delivery	Analytical
V	Customersatisfaction-quality,deliverytime,costs(shortestcost,lossprevention)-Weighment rate,cubescandiversions/LBW/Volumetricdensityofcargo	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. LogisticsandSupplychainmanagement-MartinChristopher
- $3. \ \ Basics of Distribution Management; A Logistical Approach Prentice HALL of India-Kapoor Sathish$
- ${\bf 4.}\ \ Warehouse management and Inventory control-Vikas Publication House$

APPRENTICESHIP II

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

COURSE OBJECTIVE:

- · ToorientstudentsinthepracticalfieldofLogistics
- To make Students perform Freight forwarding andLand transportation
- To develop competencies and Skills of students to become Logisticsprofessionals

LEARNING OUTCOMES:

On completion of Apprenticeship II,

- StudentswillbeabletoperformtheactivitiesofFreight forwarding, Land transportation and Logisticsterminals operationsinthereal-lifesituation
- ThisOn-thejobtrainingwillenablethemtoenhancetheir abilityandprofessionalskillsinLogistics

Actual training will depend on the existing facilities available in the company. However, the company shall ensure that the broadskills defined against On-Job Training are imparted. In case of any deficiency in any impart the training in other divisions/departments.

Students in Apprenticeship would be assessed on the extent of skilling and aptitude gained by them during the Apprenticeship.

No. Skill components to be covered during the Apprenticeship Training in Industry I **Freight Forwarding:** Performingthevarious activities for Freight Forwarding on exportand import Cycle. Performing the various activities of cargo operations Freight Forwarding area. Use the processes; sequence; time frames and compliancesofdifferenttypeofCustomClearance-ApplyingthecorrectprocedureoftheFreightForwarding likefiling; Examination; exportorder; stacking; loading; out of Customscharge; post Clearance processes; etc -PlanforStuffingorCargo.(whichinvolvesbookingthecontainer,takedeliveryorderfromshippingline,give ittotransporterforbothwaterandAirCargo.)-UsethedifferentdocumentsavailableforFreightForwarding. Prepare/updatedocumentsforhandlingofcargoes.-Processirregularitieslikedamage/lossetc-Perform PGAprocessingorspecificcertificateoforiginrelatedProcessing-PreparedocumentsforExportandImport processingincluding EDI filing-Maintain integrity and ethics in operations-Followhealth, safety and security procedures-VerifyGSTinvoices-Planandarrangeforcargomovement-Performcustomclearancefield activities-Performcustomclearanceofficeactivities-Performcustomsclearancesupervisoryactivities-Feed dataintoERPandanalyseincourierhub. Ш **Land Transportation:** PerformCustomersupportactivitieslikebooking,trackingandclaimsprocessing-Followloadingandunloading proceduresforvariousconsignments-Understandtheusesandlimitationsofvarioustypesofvehicles,transit rules and carry out the activities - Applyknowledge on the various routes and explore the various alternate routestoreachkeydestinations-Carryoutvariousvehicleoperationsactivitiessuchasplacementontime, keepingtrackofloadingandunloadingtime, verifying material count, inspection of vehicle, etc-Carryout the inspectionprocessonthephysicalvehicleandsafetychecklist-Crossverifythegoodsloaded/unloadedand signofffromthedrivers-Followsafetyinstructionswhilehandlingdangerousgoods-Locatethemissingitems for reconciliation reports the of detailed deliveries preparation for management-Complete closure and prepare the vendor rating report-Undertakeroute planning and vendor coordination-Undertake gate operations-Arrangeandtrackmovementofconsignment-Undertaketransportdataprocessingandanalysis-Coordinatewithinternalandexternalemployees-Maintainintegrityandethicsinoperations-Followhealth, safetyandsecurityprocedures-VerifyGSTinvoices-Arrangeandtrackmovementofarticulatedtrucks-Arrange andtrackmovementofreefervehicles-Performinbound/outbounddocumentation-Transportconsolidation and consignment tracking-Transport consolidation and consignment tracking-Feasibility assessment and

routeoptimization-Feasibilityassessmentandrouteoptimization-Performtransportconsolidation-Conduct

feasibilityassessment-PrepareEXIMdocumentation-Usetelematicstodriveefficiency.

MIS FOR LOGISTICS

Semester V Course Type Code Hours Credits Version 2019-20

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeMISforlogisticsprofessionals
- ToorientstudentsinthefieldofLogistics
- · TohelpStudentstounderstandMISforLogistics

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofMISfor Logisticsinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsinLogistics

Unit	Topics	Focus
I	Introduction-ITandmanagementopportunitiesandchallenges-Strategicplanningandmodels-Informationmanagement&ITArchitecture—ITArchitecture&infrastructure,cloudcomputingand services,VirtualizationandVirtualMachines.	Conceptual
II	DatabaseTechnology-Datawarehouse-DataMartTechnologies-DataandTextmining-Business Intelligence&Analytics,Digitalandphysicaldocumentmanagement.Networks,collaboration&sustainability:BusinessITnetworks&components,communicationtechnologies—Sustainability andEthicalissues-Internalcontrol-BusinessControlandAuditing.	Conceptual
III	Disseminationoftechnologyinformation-andstrategicplanning—Technologychoiceandevaluation methods—Analysisofalternativetechnologies—Implementingtechnologyprogrammes-Intellectual Capital-AnintroductiontoIntellectualPropertyRight-Patent-Copyrights-Trademarksandother issues.	Conceptual
IV	FunctionalArea&Compliancesystems:ManagementlevelsandfunctionalsystemsEnterprise Systemsandapplications:Enterprisesystems,EnterpriseResourcePlanning(ERP),SupplyChain Management (SCM), Collaborative Planning, Forecasting, and Replenishment system (CPFR), Customer Relationship Management (CRM). Performance Management: Data visualization, Mashups,andMobileintelligence,FleetManagementInformationSystem.	
V	Business Process and Project Management: - Architecture & IT design, System development, Software&Applicationsformanagement(Businesssoftwaretools),Supportsystem.ERPmodules -sales and Marketing, Accounting, Finance, Materials and Production management etc.	Conceptual

- 1. CourseMaterialPreparedbyLSC
- 2. KENNETHC.L.,JANEP.L.,&RAJANISHDASS(2001)ManagementInformationSystem-ManagingtheDigitalFirm. Pearson Education: NewDelhi.
- 3. RAVI,K.,&ANDREW,B.W.FrontiersofElectronicCommerce.PearsonEducation:NewDelhi.
- 4. KENNETH, C.L., & JANEP, L. (2001) Essentials of MIS. Prentice Hall India: New Delhi.
- 5. SADAGOPAN,S.(2003)ManagementInformationSystem.PrenticeHallIndia:NewDelhi.
- 6. EFF,O.Z.(2003)ManagementInformationSystems.VikasPublishingHousePvt.Ltd.:NewDelhi.

INTERNATIONAL LOGISTICS MANAGEMENT

Semester V Course Type Code L19C22 Hours Credits Version 2019-20

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeInternationallogisticsmanagementprofessionals
- · ToorientstudentsinthefieldofLogistics
- To help Students to understand international Logistics management

LEARNING OUTCOMES:

- Students will be able to apply the Basic knowledge of InternationalLogisticsmanagementinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsinLogistics

Unit	Topics	Focus
I	InternationalLogistics:Definition,Evolution,Concept,Components,Importance,Objectives;Logistic Subsectors;TheworkofLogistics;IntegratedLogistics;BarriertoInternalIntegration.	Conceptual
II	Customer Focused Marketing; International Marketing: Introduction, Definition, 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.	Conceptual
III	TransportationFunctionalityandPrinciples;MultimodalTransport:ModalCharacteristics;Modal Comparisons;LegalClassifications;InternationalAirTransport;AirCargoTariffStructure;Freight: Definition,Rate;FreightStructureandPractice	Conceptual
IV	Containerization:Genesis,Concept,Classification,BenefitsandConstraints;InlandContainerDepot (ICD):RolesandFunctions,CFS,ExportClearanceatICD;CONCOR;ICDsunderCONCOR;Chartering: KindsofCharter,CharterParty,andArbitration.	Conceptual
V	Internationalcommercialdocuments-Internationalcontracts,termsofpayments,international insurance,packagingforexport,customclearanceandinfrastructure:transportation,communication and utilities -Brokerage	Conceptual

- 1. CourseMaterialPreparedbyLSC
- $2. \ International Marketing by Gupta and Varshing, Publisher: Sultan Chandand Sons$
- 3. InternationallogisticsbyPierreDavid,Publisher:Biztantra
- 4. LogisticManagementandWorldSeaBorneTradebyMultiahKrishnaveni,Publisher:HimalayaPublication
- 5. LogisticandSupplyChainManagementbyDonaldJ.Bowerson,Publisher:PrenticeHallofIndia

MARKETING MANAGEMENT

Semester V Course Type Code Hours Credits Version 2019-20

COURSE OBJECTIVES:

- Toemphasizetheimportanceofthemarketingfunctioninan organization.
- Tounderstandthecoreconceptsrightfromdecidingthe segmenttillcustomersatisfaction
- To impart knowledge with respect to latest trends in Marketing, Marketing Mix, Social responsibility and ethical issues inMarketing
- · Global Marketingapproach

LEARNING OUTCOMES:

- Discusstheimportanceofmacroandmicroenvironmentin moldingthecompany's marketing function.
- Differentiatetheconsumerandinstitutionalbuyerbehavior.
- · Definethetargetsegmentsfortheproducts.
- Justifytheimportanceofproducts,brandingandnewproduct development.
- · UnderstandtheimportanceofChannelofdistribution.

Unit	Topics	Focus
I	Meaning and concepts of Marketing, Sales Concept, Marketing concept, Social Marketing concepts, SocietalMarketingconcept,MarketingMix,4PsofMarketing,MarketingEnvironmentinIndia.	Conceptual
II	Consumer Behaviour – Factors influencing buying behaviour – consumer buying decisionprocess Buying motives - influences. Arketsegmentation–criteria-Basesofsegmentation–benefits.Marketingresearchprocess: Definingresearchproblem,researchobjectiveresearchtechniques	Conceptual
III	ProductPlanning&Development-Definition,ClassificationofProduct,StagesofProductLifeCycle (PLC)andFactorsaffectingPLCProductPlanning—GenesisandImportanceofProductPlanning inMarketingProductDevelopment:Meaning,PrincipleofProductDevelopment,StagesofNew ProductDevelopmentandFactorsaffectingdevelopmentofNewProducts. 2. Pricing-Meaning,Objectives,PricePoliciesandStrategiesandMethodsoffixingprices.	Analytical
IV	 Distribution Channel- meaning, Types of Distribution channel- Direct & Indirect. Roleof intermediaries and distribution channel management. Channel Management Decisions, Returns ManagementandReverseLogistics. Promotion-elementsofpromotionmix-Advertising, salespromotion, personal selling and sales management. Public and customer relations, direct and online marketing, multilevel marketing- the new marketingmodel. 	Analytical
V	 Anoverview.Advertising,salespromotion,personalsellingandsalesmanagement.Publicand customer relations, direct and online marketing, multilevel marketing-the new marketingmodel. Marketingandsociety-Socialresponsibilityandethicalissuesinmarketing.Globalmarketing program. The old and new economies. Demand side marketing. Legal issues in marketing. marketingskills,Brandmarketingskills,CRM.MarketinginIndianContext.Marketingin21st Century 	Analytical

- 1. N.RajanNair, MarketingManagement, Sultan Chand& Sons.
- 2. RamasamyV.S.andNamakumaryS,HandbookofMarketingManagement,Macmillan.
- 3. Rajagopal, Marketing Management, Vikas Publishing House Pvt., Ltd.,
- 4. S.Jayachandran, Marketing Management, Excel Books.
- 5. RajanSaxena, Marketing Management, TMH.

RETAIL LOGISTICS & E-COMMERCE

Semester V Course Type Code Hours Credits Version 2019-20

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeRetainlogisticsandE-commerceprofessionals
- · ToorientstudentsinthefieldofLogistics
- TohelpStudentstounderstandRetaillogisticsandE-commerce

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofRetain logisticsandE-commerceinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsinLogistics

Unit	Topics	Focus
I	ConceptandScope:ConceptsofRetailLogisticsandsupplychain-ImportanceofLogisticsinthese days global Sourcing, Production and consumption- Dimension of Logistics: Macro and Micro aspects-Supplychaincontours:Backwardandforwardlinkages-Supplychainefficiency-Logisticsas acompetitiveedgedriver-PeculiaritiesanddiversityofneedsofLogisticsforRetailing.	Conceptual
II	LogisticsandRetailMarketing:LogisticsasaSupportfunctionofOrderFulfilment,Assembling& LabellingfromMulti-storagepointsandDelivery-LogisticsasaninterfaceofMarketforecasting, Stocklevelmanagement,invoiceorsalesdocumentation,pickingproducts,consolidation,transport- packaging, packing, marking, preparing outbound documentation and shipping out by loading into containers-customerfacilitationtrackingout-boundshipments.	Conceptual
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 identifyingorderrequestfromMIS,creatingcustomeraccountfornewcustomers,identifyingthe orderrequirementsandplacingaprocessingrequestinMIS,notifyingcustomersthroughsystem, updatingthedeliveryrequirements,checkingwithstock,coordinatingwithvendor,etc-Types oforderprocessing-Rolesandresponsibilitiesassociatedwithorderprocessing-Proceduresfor generatingplansandschedulesthroughMIS	Analytical
IV	ReverseLogistics:Basicofreverselogistics-Theconceptofreverselogistics.Thekeyactivities involvedintermsofidentifyingdailypickups,schedulingpickupforthe day, coordinatingwith carriers, route map optimization, collecting pickup and feedback - Types of reverse logistics - Returnfromcustomer,returnbycareer,returnofdamagedproduct,etc-Rolesandresponsibilities associatedwithreverselogistics-Globalbestpracticesandstatisticsassociatedwithreverselogistics	Analytical
V	TypesofEcommerce-B2B-B2Candintrabusiness.RetailEcommerce—Retailingthroughinternet, Direct Online Sales model and its types- Business Models for e commerce- meaning definition importance.Ebusinessmodelsbasedontherelationshipsoftransactiontypes-manufacturemodel, advertisingmodel,valuechainmodel,brokerageModelMarketingontheweb-marketingstrategies, creatingwebpresence,advertising,customerserviceandsupport,webbrandingstrategies,web sellingmodels. Electronic Payment system Electronic CRM Applications. E-Security-Understanding of Key terms of E-Commerce:ElectronicCommerce&Banking-ElectronicPaymentSystems,ElectronicPayment Technology, On-line credit card, ECommerceSecurity Electronic Data Interchange (EDI); EDI definition;Overviewofadvantagesanddisadvantages;EDIapplicationinbusinessdevelopment; EDItechnology.	Analytical

- 1. CourseMaterialPreparedbyLSC
- 2. Mr.GibsonG, "RetailManagement:FunctionalPrinciples&Practices", JaicoPublishinghouse, 6th Edition, 2003.
- 3. Ray, Supply Chain Management For Retailing, TMH, 2010.
- 4. JamesB.Ayers,RetailSupplyChainManagement,AuerbachPublications,2007

LOGISTICS NETWORKDESIGN

Semester V Course Type Code Hours Credits Version 2019-20

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeLogisticsnetworkdesignprofessionals
- Toorientstudentsinthefieldofdesignandconfigurationof the logisticsnetwork.
- TohelpStudentstounderstandLogisticsnetworkdesign

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofdesign andconfigurationofthelogisticsnetwork.inthereal-life situation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsindesignandconfigurationofthelogistics network.

Unit	Topics	Focus
I	Introduction-ComponentsofLogisticsnetwork:Facilities-Plants/Vendors-PortsWarehouse Retailers/DistributionCentres-Customers-Rawmaterialsandfinishedproductsthatflowbetween thefacilities.	Conceptual
	ThethreemodelsofNetworkDesign:1.Logisticsnetworkdesignwithdifferentiateddeliverylead time2.Logisticsnetworkdesignwithpricediscount3.Consolidatedlogisticsnetworkdesignusing consolidationhubs	
II	KeyissuesofNetworkdesign:Picktheoptimalnumber,location,andsizeofwarehousesand/or plants-Determiningoptimalsourcingstrategy-Whichplant/vendorshouldproducewhichproduct? -Determiningbestdistributionchannels-Whichwarehousesshouldservicewhichcustomers?	Conceptual
III	DatarequiredforNetworkDesign:Alistingofallproducts-Locationofcustomers,stockingpoints and sources-Demandforeach product by customer location-Transportation rates-Warehousing costs-Shipmentsizes by product-Order patterns by frequency, size, and season, content-Order processing costs-Customer service goals	Conceptual
IV	Thestrategicdecisionsintermsofwarehouseswhenplantsandretailerlocationsarefixed; Picktheoptimalnumber-location-sizeofwarehouses-Determining optimalsourcingstrategy -Whichplant/vendorshouldproducewhichproduct-Determiningbestdistributionchannels- Whichwarehousesshouldservicewhichretailers-Theobjectiveistodesignorreconfigurethe logisticsnetworksoastominimizeannualsystem-widecosts,includingProduction/purchasing costsInventorycarryingcosts,andfacilitycosts(handlingandfixedcosts)Transportationcosts. 2. Find a minimal-annual-cost configuration of the distribution network that satisfies product demandsatspecifiedcustomerservicelevels.	Conceptual
V	DataCollection-informationon:a)Locationofcustomers,stockingpointsandsources—location theory-b)Alistingofallproducts-c)Demandforeachproductbycustomerlocation—forecast technique — d)Transportation Cost - Transportation rates by mode—information system, like ratingengine-e)Mileageestimation—f)Warehousingcosts(handlingandfixed)—inventory management g) Service level requirement—probabilistic technique h) Shipment sizes by product 2. DataAggregation-Theimpactofaggregatedemand-aheuristictoaggregatedata. 3. DataValidationandModel	Conceptual
	4. Optimization.	

- 1. Course Material Prepared by LSC
- 2SupplyChainManagement:LogisticsNetworkDesignbyDongleiDu,FacultyofBusinessAdministration,Universityof NewBrunswick,NBCanadaFredericton.
- 3. JosephD.Patton,LogisticsTechnologyandManagement,Soloman,1986.
- 4. PhilipT.Frohne, Quantitative Measurements for Logistics, McGraw Hill, 2007

PORT TERMINALSLOGISTICS

Semester V Course Type Code Hours Credits Version 2019-20

COURSE OBJECTIVES:

- TodevelopcompetenciesandknowledgeofstudentstoPort terminals logisticsprofessionals
- · ToorientstudentsinthefieldofLogistics
- · TohelpStudentstounderstandPortterminalslogistics

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofPort terminalsLogisticsinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsinLogistics

Unit	Topics	Focus
I	DifferencebetweenMajorandMinorPorts-PortsinIndia-NaturalHarbours-NewPortstobe developedinIndia-MajorPortsoftheWorld-LargestPortintheworld-PortOfficialsandtheir roles-RoleofPorts-WhoarePortusers	Conceptual
II	ContainerTerminals-PrivatisationofTerminals-ReasonforPrivatisation-MajorTerminalOperators inIndia-TerminalOperatorsoftheworld-Privatisationtheneedofthehour-Agreementbetween and existing PortTerminal and the new operator	Conceptual
III	ImportCycle-ExportCycle-PositionsandPlacesinaTerminal-FacilitiesinaTerminal-Container Monitoringandstacking-CFSinsideaTerminal-ReasonsforCongestionofaterminal-de-congesting theterminal-Windowsysteminaterminal.	Conceptual
IV	MajorPortTrustAct-Portasacustodianofthecargo-Transitsheds-Cargoreceivers-Wharfsand Berths-VariousberthsinaPort-MeaningofBerthRestrictions-Portequipment'sanddamage-Extraservices-Berthreservationschemes	Conceptual
V	PortTariff-Pilotsandtheirduties-Tugsanditsusage-Nightnavigations-LightDues-Tariff AuthoritiesofMajorPort-Revisionofrates-PortTrustees-SafetyProcedures-Introductionof ISPS-DamagetoPortpropertybyships-Compensationandconfiscationofcargotoadjustdues	Conceptual

- 1. CourseMaterialPreparedbyLSC
- 2. MajorPortTrustAct-GovernmentofIndia
- 3. PortIndustryStatistics,AmericanAssociationofPortAuthorities
- 4. APMOLLORGuidebookonTerminal
- 5. DUBAIPORTAUTHORITIESManual

LINER LOGISTICS

Semester V Course Type Code Hours Credits Version 2019-20

COURSE OBJECTIVES:

- TodevelopcompetenciesandknowledgeofstudentstoLiner logisticsprofessionals
- ToorientstudentsinthefieldofLogistics
- TohelpStudentstounderstandLinerlogistics

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofLiner Logisticsinthereal-lifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskillsinLogistics.

Unit	Topics	Focus
I	Definitions of liner trades; tramp trades; containerization- Unitization - containerization, liner operations,portorganization—Vesselloadinganddischarging,linertraderoutes,Themajorports, linerserviceoptions-Linertrade—shiptypes—Tonnages;basicshiplayout,typesofcontainerships, Ro-Robargecarryingvessels,Therefrigeratedcargoshipconventional(Breakbulk)vesselsfuture vesseldevelopments,economyofscale,shipboardhandlingequipment.	Conceptual
II	Cargoes&cargoequipment–DangerousgoodsIMOspecialgoods,cargohandlingsothermethods ofliftingcargoporthandlingequipment,portterminals;portandterminalmanagement;therole ofshipsofficers-agent.LinerShippingoperations-Managementandpolicy,shipmanagement and operations, independent ship management, insurance, trade of commercial department, accounting,budgeting,freightcollectionandportdisbursementsagencyduties.	Conceptual
III	Containerization unitization and inter-modalism - Growth in world trade unitization; container dimensions,typesofcontainerothercontainerexpressionscontainerinventory,owning,leasing meetingthedemandforcontainerstrackingthecontainerfleet,containercontrol,FCLSLCLS&ICDS , legal & insurance implications in the container trade.	Conceptual
IV	TheBillofLadingandotherDocumentation-TheBillofLadingUKbillofladingAct1855andUK carriageofgoodsbyseaAct1992,TheuseofBillofLadinginlinertrades,BillofLadingdocumentary credits,BillofLadingclausesTheprintedclauses—Theevidenceofthecontract,otherformsofBill ofLadingotherlinerdocuments,IntlconventionsrelatingtoBillofLading,paperlesstrading	Conceptual
V	The Exchange of goodstransfer-Transfer of funds from country to country, methods of payments in International trade who are the merchants, International contracts of sale INCO terms; Legal aspects of the line rtrades-The carrier insurance the carrier's liability for the cargothelia bilities of the agent, legal aspects of the Bill of Lading, cargo claims general average (GA), security, ISPS code.	Conceptual

- 1. CourseMaterialPreparedbyLSC
- 2. ShipOperationManagement,Fujita,N.H.Publisher,1974.
- 3. ShipOperationManagement,BertramsPublication,2010.
- 4. HandbookofShipCalculations,ConstructionandOperation,CharlesH.Hughes,WexfordCollegePress,2008.
- 5. OceanShipping-ElementsofPracticalSteamshipOperation,RobertEdwardsAnnin,ThompsonPress,2010.

LOGISTICS NETWORK DESIGN - PRACTICAL

Semester V Course Type Code L19C28 Hours Credits Version 2019-20

- Indicative list of exercises is given below. The Industry Mentor can modify the exercises, and assign exercises relevant to the particular industry.
- The exercises shall be assigned in equal proportion during the six months of Apprenticeship.

No.	Exercises
-1	Select any one of the following model for Network.
	Logisticsnetworkdesignwithdifferentiateddeliveryleadtime
	Logisticsnetworkdesignwithpricediscount
	3. Consolidatedlogisticsnetworkdesignusingconsolidationhubs.
II	Pick the optimal number, location, and size of warehouses and/or plants
III	Determine optimal sourcing strategy - Which plant/vendor should produce which product?
IV	Determine best distribution channels - Which warehouses should service which customers?
V	Collectinformationlikelistofallproducts, Locationofcustomers, stockingpoints and sources, Demand for each product by customer location Transportation rates, Warehousing costs, Shipment sizes by product, Orderpatterns by frequency, size, and season, content. Order processing costs and Customer service goals
VI	Adopt the strategic decisions:
	intermsofwarehouseswhenplantsandretailerlocationsareFixed;
	Findaminimal-annual-costconfigurationofthedistributionnetworkthatsatisfiesproductdemandsat specifiedcustomerservicelevels.
VII	Followallmajorstepsofnetworkdesign(DataCollection,Dataaggregation,DataValidationand Optimization)andcompletetheprocess.

FREIGHT FORWARDING - PRACTICAL

Semester V Course Type Code L19C29 Hours Credits Version 2019-20

- Indicative list of exercises is given below. The Industry Mentor can modify the exercises, and assign exercises relevant to the particularindustry.
- The exercises shall be assigned in equal proportion during the six months of Apprenticeship.

No.	Exercises
I	Prepare the documents related to the movement of Carrier, Transporter, Custodian and Customs. Plan for Stuffing or Cargo. Prepare Invoice, packing list, Annexure and Booking Etc.
II	PrepareofNoteforSpecialrequirementduringCustomClearanceexamination,drawback,exportpromotion, etc.PreparedocumentsaspertheformatgivenbytheCustoms.Preparedocumentsforpre-shipment/import. FollowtheDO'sandDON'T'swhilehandlingdifferentdocuments
III	Examineandverifycustomsrelateddocuments.Recordanddocumentforfuture.ReadeofDocumentsAscertain thecommonerrorsandcorrectthem.Checkshippingbill,AirwaybillbasedoninvoiceandpackinglistReceived. HandleCargodocuments.ReceivetheImporter-ExporterCode(IEC)fromshipper.
IV	Obtain the registered PAN based business Identification number. Receive different type of cargo including quantity and value details
V	PreparenoteofanypackagingrequirementforthecargoduringshipmentfromtheshipperSuperviseCarting unloading;Stacking;Loading;Stuffing
VI	Inspectthecargowhileunloading.Followprocedureandensurethereisnodamageduringthetransit.Draft certificateofOriginandothercertificate.SuperviseContainers;Pallets;palletization;Fumigation.Followthe DO'sandDON'T'swhilehandlingdifferentcargo.
VII	PlanfortransportationofImport&Exportcargo.FollowBasicRegulations.ApplyClimaticconditionsofdifferent routesindifferentseasons.UseDifferentairline/shippinglineavailablefordifferentroutes
VIII	Track schedule for cargo movement from the supplier destination to the customer destination

INPLANT LOGISTICS

Semester V Course Type Code Hours Credits Version 2019-20

COURSE OBJECTIVES:

- To develop competencies and knowledge of studentsto becomeIn-plantlogisticsprofessionals
- ToorientstudentsinthefieldofLogistics
- TohelpStudentstounderstandIn-plantlogisticsoperations

LEARNING OUTCOMES:

- StudentswillbeabletoapplytheBasicknowledgeofIn-plant operationsinthereallifesituation
- Thissubjectwillenablethemtoenhancetheirabilityand professionalskills

Unit	Topics	Focus
I	IntroductiontoLogisticsinamanufacturingsetup-Manufacturingprocess-physicalflow-Assembly OTIF(ontimeinfull)-Basicactivitiesofin-plantlogistics:Loading,Unloading,Receiving, sorting,Storing,Pickinganddispatchactivities-processofcoordinationwithassemblyline	Conceptual
II	Jobshop-workallocation-Productionscheduling-selectionofproducts/models/parts/Teamtable/ Timetable-Materialflow-productionline-feedingjustintimeinventory,Vendormanagement-	Conceptual
III	Inbound logistics- inventory management, importance, Value addition, stock counts, audits	Analytical
IV	Outboundlogistics—Finishedgoods(FG)-tooling,binding,creating,inputprocess,output-packaging,Kitting,fargoods(FH),Spareparts,,Aftermarketsprocess,scheduleoftransport,vendor coordination	Analytical
V	Timelysupply-scheduling,vendorcoordinationqualitycontrol,predeliveryInspection,Quality assurance,ontimeinfull(OTIF)	Analytical

Text & Reference Books:

1. Course Material Prepared by LSC

EXPORT AND IMPORT DOCUMENTATION

Semester V Course Type Code L19A03B Hours Credits Version 2019-20

import

COURSE OBJECTIVES:

 Tofamiliarizethestudentwiththebasicconceptofformalities forexporttrade,andthedocumentationprocessrequiredfor andexport.

LEARNING OUTCOMES:

- Recognize the impact of information and communication technologies, especially of the internet in business operations.
- Recognize the fundamental principles of eBusiness and eCommerce.
- · Explainthesecurityprotocolsandtheissuesininternet security.

Unit	Topics	Focus
I	IntroductiontoExportandImport12HrsBasicsofExports-Classificationofgoods-Preparation for Exports - Methods of Exporting - Export Marketing Organizations - Functions - Registration formalitiesIECNumber-ProcedureofobtainingIECNumber-RCMC(RegistrationCumMembership Certificate)—ExportCreditGuaranteeCouncil(ECGC)-Applicationforimportandexportofrestricted items.	Conceptual
II	DocumentationFrameworkandContracts15HrsAlignedDocumentationSystem:Commercial Documents-AuxiliaryCommercialDocuments-RegulatoryDocuments-Documentsrelatedto goods-DocumentsrelatedtoShipment-DocumentsrelatedtoPayments-Documentsrelatedto Inspection-DocumentsrelatedtoExcisableGoods-TypesofContracts-ExportContracts.	Conceptual
III	PaymentsandFinance15HrsFactors-MethodsofreceivingPayment-InstrumentsofPayments-LetterofCreditPre-shipmentFinance-Post-shipmentFinance-Post-shipmentCreditinForeign Currency-Negotiationofdocumentswithbank-CENVAT-DutyDrawback	Analytical
IV	QualityControlandClearanceofCargo15HrsObjectiveofQualityControl-Methods-Procedure forPre-shipmentInspection-RoleofClearingandForwardingAgents—RoleofInspectionAgents-ClearanceofCargoCentralExciseClearanceProcedure-CentralExciseClearanceOption-Shipment of ExportCargo.	Analytical
V	CustomsClearance,RiskandInsurancePolicy15HrsCustomsClearanceofExportCargo-Customs ClearanceofImportCargo-Risk:Types-TypesofcoverissuedbyECGC-CargoInsurance.Processing ofanexportorder-Majorlawsgoverningexportcontract.	Analytical

Text & Reference Books:

- 1. RAMA, GOPALC. (2008) Export Import Procedures Documentation and Logistics. New Age International Publishers: New Delhi.
- 2. KHUSHPAT,S.J.(2013)ExportImportProceduresandDocumentation.HimalayaPublishingHouse:NewDelhi.
- 3. PAWAN,KUMAR(2001)ExportofIndia'sMajorProductsProblemsandProspects.NewCenturyPublications:New Delhi.
- 4. KAPOOR, D.C. (2002) Export Management. Vikas Publications: New Delhi.
- 5. CHERUNILAM,F.(2004)InternationalTradeandExportManagement.HimalayaPublications:NewDelhi.

Websites:

- 1. www.cbec.gov.in/customs/cs-act/cs-act-idx.htm (Central Board of Excise and Customs Customs Act, 1962, Customs TariffAct—1975,OtherActs)
- 2. www.epckenya.org/(Export PromotionCouncil)
- 3. commerce.nic.in/MOC/index.asp(MinistryofCommerceandIndustry)
- 4. www.dgft.gov.in/(DirectorateGeneralofForeignTrade)

APPRENTICESHIP III

Semester | Course Type | Code | Hours | Credits | Version | 2019-20

COURSE OBJECTIVES:

- · ToorientstudentsinthepracticalfieldofLogistics
- To make Students perform E-Commerce, and Logistics terminalsoperations
- To develop competencies and Skills of students to become logisticsprofessionals

LEARNING OUTCOMES:

- StudentswillbeabletoperformtheactivitiesofE-Commerce, andLogisticsterminalsoperationsinthereal-lifesituation
- ThisOn-thejobtrainingwillenablethemtoenhancetheir abilityandprofessionalskillsinLogistics

Actual training will depend on the existing facilities available in the company. However, the company shall ensurethatthebroadskillsdefinedagainstOn-JobTrainingareimparted.Incaseofanydeficiencyinanyin a single division/department, the company may impart the training in otherdivisions/departments.

Students in Apprenticeship would be assessed on the extent of skilling and aptitude gained by them during the Apprenticeship.

No. Skill components to be covered during the Apprenticeship Training in Industry

E- Commerce:

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Allocate resource and streamline operations in E-commerce-Process data and forecast demand-Maintain integrityandethicsinoperations-Followhealth,safetyandsecurityprocedures-Performorderprocessing-Performreverselogistics-MonitorinboundandoutboundoperationsBusinessdevelopmentandstakeholder relations-ExecutecategorymanagementReadingvariousMIS-OMS,WMSandTMStocheck.Generating customeraccountsandcreatingorderrequestsintheMISaswellasupdatingthesame-Coordinatingwith ITteam,orderrequestteam,Accountsteam,Inventorymanager,vendorsanddeliverymanagersfordifferent activitiesalongtheorderprocessing-Carryoutthebasicchecksonproductslikeproductmatch,quantitymatch, tamperingcheck,physicaldamagecheck,etc.priortoorderprocessing.Developingdailyandweeklyreports. Planandorganizeassignedwork-Coordinatewithcustomers,carriersfortimelypickupandensuringhigh satisfactionofthecustomer.Carryoutthebasicchecksonproductsreturnedviareverselogisticslikeproduct match,quantitymatch,tamperingcheck,physicaldamagecheck,etc.Carryouttheschedulingactivitieslike identifyingcarrier,makingpickupplanandschedule,collectingcustomerfeedback.Developdailyandweekly reports-Classifyanddemarcatetheproductsforre-use,re-manufacturing,recyclingetc.basedonproduct verification.Countthegoodsphysically,accuratelyandtrackthereverselogisticsshipmentsreceiveddaily

| Port Terminals:

Verifycargoandvesselinformation-Performcargovaluationandcertify-Surveycontainerizedcargoand certify-Surveyliquidbulkcargoandcertify-Surveydrybulkcargoandcertify-VerifyEXIMdocumentation-Allocateresourcesandstreamlineoperationsinports,ICDandCFS-Extractandanalyseshipmentinformation fromITsystem-Planandensureoptimalutilizationofyardspace-Planandcoordinateforoptimalutilization ofcontainers-Planandexecuterepairandmaintenanceofcontainers-HandlehazardousgoodsYardplanning andcargohandling-Collectvesselandcargodetailsandcoordinateforsmoothcargomovement-Perform stevedoringactivities-Performmooringactivities-

Perform signalman activities-Perform basic navigation-Perform mooring and rope work in vessel-Perform customsclearancefieldactivities-CargoEquipmentHandler-Performpreventiveandfirst-linemaintenance ofMHEatports-OperateRailmountedquay(RMQ)crane-OperateGrabshipunloader(GSU)crane-Operate Rubber tyre gantry (RTG) crane-Operate reach stacker -Operate Rail mounted quay (RMQ) crane-Operate Grab shipunloader(GSU)crane-OperateRubbertyregantry(RTG)crane-Operatereachstacker

Operate and maintain conveyor belt-Operate and maintain pipeline-Operate port control systems and troubleshoot issues -Perform ship and yard planning









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