Syllabus for Skill development course

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Title of	course- Basic Certificate in Medical La	aborat	ory						
	itle: Fundamentals of Medical Laboratory	,							
Nodal Department of HEI to run course					Department of Vocational studies				
Broad Area/Sector-					Health care				
Sub Sector-					Medical lab				
	of course - Independent / Progressive				Progressive				
Name of			NSDC						
	NSQF level								
					As decided by College/University				
Stipend to student expected from industry									
	Number of Seats30								
Course CodeML-01					Credits- 03 (1 Theory, 2 Practical)				
	rks25 Minimum Marks10								
	f proposed skill Partner (Please specify, Name	of indi	ustry, compa	ny					
	Practical /training/ internship/OJT								
	spects-Expected Fields of Occupation where							et job in medica	
	get job after completing this course in (Please specify name/type of industry,					laboratories working privately or medical labs in			
company					Govt/private hospitals.				
Syllabu	IS								
			General/	Th	neory/		of theory	No of Practical	
Unit	Topics		Skill	Practical/ OJT/				Hours	
			component		ternship/	(Total	-15 =1 credit)	(Total-60 Hours=2 credits)	
I	Functional components of clin	nical	Skill		raining		=1 credit)	5	
1	Functional components of clinal laboratories	incai	SKIII		heory/Pr tical	a 3		3	
TT			G1 111					-	
II	Basic needs of clinical laboratory technic	ıcıan	Skill		heory/Pr	a 4		5	
					tical				
III	Sterilization and Disinfection				heory/Pr	a 3		20	
					tical				
IV	Collection of Specimen and Disposal of Waste				heory/Pr	a 3		15	
					tical				
V	Identification, use, maintenance and ca	re of	Skill	_	heory/Pr	a 2		15	
	common laboratory glassware	and			tical	" -			
	equipment	ana		-	icui				
Constant	· ·			<u> </u>					
Sugge	sted Readings:								
0.33		.=			_				
S.N	Title A	Author	•		I	Publisher	•		
0.									
1.	Text book of medical laboratory Praful Godkar; Bhalani Publishing House				House				
	, 1 1								

Payal Soan, Gitesh

Ramnik Sood

Amrohit)

Vardhan Publishers & Distributors

Jaypee Brothers Medical Publishers

Technology
Suggested Digital platforms/ web links for reading-

A Hand Book of D.M.L.T. (Diploma

in Medical Laboratory Technology)

Textbook of Medical Laboratory

Suggested OJT/ Internship/ Training/ Skill partner

Suggested Continuous Evaluation Methods:

Total Marks: 25

House Examination/Test: 10 Marks

technology

2.

3.

Written Assignment/Presentation/Project / Term Papers/Seminar: 10 Marks Class performance/Participation: 5 Marks

Course Pre-requisites:

- Student of science stream with biology
- To study this course, a student must have the subject Biology in class/12th/ certificate/diploma
- If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses:

Any remarks/ suggestions:

Notes:

- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)

Unit	ous for Fundamentals of M Topics	Syllabus
I	Functional components of clinical laboratories	
II	Basic needs of clinical laboratory technician	
III	Sterilization and Disinfection	
IV	Collection of Specimen and Disposal of Waste	 To understand different types of samples to be taken in medical laboratory and handling To understand different equipment useful for blood sample collection. To understand correct method of blood sample collection and transportation To understand importance of proper and safe disposal of bio-medical waste & treatment To understand categories of biomedical waste

V	Identification, use, •	Identification, use, maintenance and care of common laboratory
	maintenance and care of	glassware and equipment, handling of all glassware. Use, principle
	common laboratory	and care of centrifuge, colorimeter, oven, incubator, microscope,
	glassware and equipment	