

RAJJU SHROFF ROFEL UNIVERSITY, VAPI

A STEP AHEAD TOWARDS & SUCCESSFUL CAREER.

Program	Master of Pharmacy (M.Pharm)	Semester - 2
Type of Course	-	
Prerequisite		
Course Objective	-	
Effective From A.Y.	2023-24	

Teaching Scheme (Contact Hours)			Examination Scheme					
		Lab	Credit	Theory	Marks	Practica	al Marks	Total
Lecture	Tutorial			External Marks (T)	Internal Marks (T)	External Marks (P)	Internal Marks (P)	Marks
4	-	-	4	75	25	-	-	100

SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Cour	se Content	T - Teaching Hours W - Weightage		
Sr.	Topics		Т	w
1	Introduction		12	20
	Introduction: Ol Classifications	ojectives, Management of audit, Responsibilities, Planning process, information gathering, administratio of deficiencies	on,	
2	Role of quality	systems and audits in pharmaceutical manufacturing environment	12	20
	functions, Quali	systems and audits in pharmaceutical manufacturing environment: cGMP Regulations, Quality assuranc ity systems approach, Management responsibilities, Resource, Manufacturing operations, Evaluation ac o quality system approach, Audit checklist ries.		!S,
3	Auditing of ven	dors and production department	12	20
	÷	dors and production department: Bulk Pharmaceutical Chemicals and packaging material Vendor audit, weighing, Dry Production: Granulation, tableting, coating, capsules, sterile production and packaging.		
4	Auditing of Mic	robiological laboratory	12	20
		robiological laboratory: Auditing the manufacturing process, Product and process information, General puilding raw materials, Water, Packaging materials.	areas	of
5	Auditing of Qua	ality Assurance and engineering department	12	20
	Auditing of Qua for Injection sys	lity Assurance and engineering department: Quality Assurance Maintenance, Critical systems: HVAC, W stems, ETP.	/ater,	Water
		Total	60	100

Suggested Distribution Of Theory Marks Using Bloom's Taxonomy				
Level	Remembrance	Understanding	Application	
Weightage	40	30	30	

NOTE : This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.



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Course Outcomes

At the end of this course, students will be able to:			
C01	Inderstanding the importance and methodology of auditing		
C02	Inderstanding the planning and process to carry out the audit		
CO3	Inderstanding Audit report and checklist for audit		

Reference Books

1.	QUALITY AUDIT (TextBook) By SOHRAB 1996
2.	Handbook of Microbiological Quality Control By ROSAMUND M. BAIRD NORMAN A. HODGES STEPHEN P. DENYAR 2000
3.	Pharmaceutical Quality Assurance By MANOHAR A. POTDAR 2006 I
4.	Compliance Auditing for Pharmaceutical Manufacturers (TextBook) By KAREN GINSBURY AND GIL BISMITH 1994
5.	Pharmaceuticals Manufacturing Handbook: Regulation and Quality (TextBook) By SHAYNE COX GAD 2008