



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Kakinada-533003, Andhra Pradesh (India)

Comparison of Program Structure R16 with R19

Program Code	Program Name	Total No. of Courses			No of Subjects			Total Courses	Percentage %
		R16	R19	Added in (R19)	Deleted (R16)	Content revised more than 20%			
151616	M.Pharmacy - Pharmaceutical Analysis	19	20	17		01	18	90	

MMA
Coordinator

Bhuclosh
REGISTRAR
J.N.T. University Kakinada
Kakinada-533003

Dr. S. S. Srinivasulu Reddy
Special Officer

DR. S. S. SRINIVASULU REDDY
Special Officer
JNTU Kakinada
Kakinada-533003
Andhra Pradesh



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Course Structure R16 with R19

Program Code: IS1S16

Program Name: M.Pharmacy - Pharmaceutical Analysis

Year : 1

Semester: 1

R16					R19					Remarks				
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %
101	Modern Analytical Techniques	4			3	MPL101T	Modern Pharmaceutical Analytical Techniques	3			3			10
102	Research Methodologies	4			3	MPL102T	Advanced Pharmaceutical Analysis	3			3	Yes		
103	Advanced Pharmaceutical Analysis - I	4			3	MPL103T	Pharmaceutical Validation	3			3	Yes		
104	Chromatographic and Other Special techniques	4			3	MPL104T	Food Analysis	3			3	Yes		
105	Advanced Pharmaceutical Analysis-I - LAB	4			3	MPL105PA	Pharmaceutical Analysis Practical I	2			2	Yes		
106	Chromatographic and Other Special techniques - LAB	4			3	MPL105PB P	Pharmaceutical Analysis Practical II			4	2	Yes		
107	Seminar			2	2		Seminar/Assignment			4	2			
TOTAL					20	TOTAL					18	05		1

Program Code: IS1S16

Program Name: M.Pharmacy -Pharmaceutical AnalysisYear : 1

Semester: 2

R16					R19					Remarks				
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %
201	Advanced Pharmaceutical Analysis - II	4			3	MPL201T	Advanced Instrumental Analysis	3			3	Yes		
202	Phytopharmaceutical and Biological Analysis	4			3	MPL202T	ModernBio-Analytical Techniques	3			3	Yes		
203	Quality Assurance of Pharmaceuticals – I	4			3	MPL203T	Quality Control and Quality Assurance	3			3	Yes		
204	Drug Regulatory Affairs	4			3	MPL204T	Herbal and Cosmetic Analysis	3			3	Yes		
205	Advanced Pharmaceutical Analysis - II - LAB	4			3	MPL205PA	Pharmaceutical Analysis Practical III	2			2	Yes		
206	Phytopharmaceutical and Biological Analysis - LAB	4			3	MPL205PB	Pharmaceutical Analysis Practical IV			4	2	Yes		
207	Seminar			2	2		Seminar			4	2			
TOTAL					20	TOTAL					18	06		

Program Code: IS1S16

Program Name: M.Pharmacy

Year : 2

Semester: 3

R16					R19					Remarks						
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %		
301	Seminar – I					MRM301T	Research Methodology and Biostatistics				4	Yes				
							Journalclub				1	Yes				
								Discussion / Presentation (Proposal Presentation)				2	Yes			
								Research Work				14	Yes			
TOTAL											20	TOTAL				
											21	04				

Program Code: IS1S16

Program Name: M.Pharmacy

Year : 2

Semester: 4

R16					R19					Remarks					
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %	
401	Seminar – II						JournalClub				1	Yes			
402	Thesis evaluation						Research Work				16	Yes			
403	Viva – Voce basing on thesis work						Discussion / Presentation (Proposal Presentation)				3			20	
404	Comprehensive Viva Voce														
TOTAL												20	02		