

**BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI**  
**NEW COURSE STRUCTURE - To be effective from academic session 2018- 19**

*Based on CBCS & OBE model*

*Recommended scheme of study for M.Pharm (Pharmaceutical Quality Assurance) Program as per PCI Syllabus  
(Education Regulation 2014)*

SEMESTER / Session of Study (Recommended)	Course Level	Category of course	Course Code	Courses	Mode of delivery & credits <i>L-Lecture; T-Tutorial;P- Practicals</i>			Total Credits <i>C- Credits</i>	
					L <i>(Periods/ week )</i>	T <i>(Periods/ week)</i>	P <i>(Periods/ week)</i>	C	
				<b>THEORY</b>					
<b>FIRST Monsoon</b>	<b>Fifth</b>	Programme Core (PC)	MQA101T	Modern Pharmaceutical Analytical Techniques	4	0	0	4	
			MQA102T	Quality Management System	4	0	0	4	
			MQA103T	Quality Control & Quality Assurance	4	0	0	4	
			MQA104T	Product Development & Technology Transfer	4	0	0	4	
			<b>LABORATORIES</b>						
		Programme Core (PC)	MQA105P	Pharmaceutical Quality Assurance Practical I	0	0	12	6	
		MQA106S	Seminar/Assignment	0	0	7	4		
			<b>TOTAL</b>				<b>26</b>		
				<b>THEORY</b>					
<b>SECOND Spring</b>	<b>Fifth</b>	Programme Core (PC)	MQA201T	Hazards & Safety Management	4	0	0	4	
			MQA202T	Pharmaceutical Validation	4	0	0	4	
			MQA203T	Audits & Regulatory Compliance	4	0	0	4	
			MQA204T	Pharmaceutical Manufacturing Technology	4	0	0	4	
			<b>LABORATORIES</b>						
		Programme Core (PC)	MQA205P	Pharmaceutical Quality Assurance Practical II	0	0	12	6	
		MQA206S	Seminar/Assignment	0	0	7	4		
			<b>TOTAL</b>				<b>26</b>		
			<b>TOTAL FOR FIFTH LEVEL</b>				<b>52</b>		

		<b>THEORY</b>						
<b>THIRD Monsoon</b>	<b>Sixth</b>	Programme Core (PC)	MRM301T	Research Methodology and Biostatistics*	4	0	0	4
		<b>LABORATORIES</b>						
		Programme Core (PC)	MQA301	Journal club	0	0	1	1
		Programme Core (PC)	MQA302	Discussion / Presentation (Proposal Presentation)	0	0	2	2
		Programme Core (PC)	MQA303	Research Work	0	0	28	14
<b>TOTAL</b>							<b>21</b>	
		<b>LABORATORIES</b>						
<b>FOURTH Spring</b>	<b>Sixth</b>	Programme Core (PC)	MQA401	Journal Club	0	0	1	1
		Programme Core (PC)	MQA402	Discussion/Final Presentation	0	0	3	3
		Programme Core (PC)	MQA403	Research Work	0	0	31	16
		Programme Core (PC)	MQA404	Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)	0	0	0	4
<b>TOTAL</b>							<b>24</b>	
<b>TOTAL FOR SIXTH LEVEL</b>							<b>45</b>	
<b>GRAND TOTAL FOR M. PHARM PROGRAMME (52 + 45)</b>							<b>97</b>	