

## **STRUCTURE OF THE SYLLABUS FOR 2 YEAR PG PROGRAMME**

**SCHOOL NAME**                    - **Royal School of Biosciences (RSBSC)**

**DEPARTMENT NAME**        - **Department of Microbiology**

**PROGRAMME NAME**        - **Postgraduate programme (PG)**

<b>1<sup>st</sup> SEMESTER</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
MIB154M101	General Microbiology	400	4	4-0-0
MIB154M102	Mycology, Phycology and Virology	400	4	4-0-0
MIB154M103	Microbial genetics	400	4	4-0-0
MIB154M104	Microbial Biochemistry	400	4	4-0-0
MIB154M115	Practical on General Microbiology, Mycology, Phycology and Virology	400	2	0-0-4
MIB154M116	Practical on Microbial Biochemistry and Microbial Genetics	400	2	0-0-4
MOOCs 1	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SWAYAM portal	400	4	
<b>TOTAL CREDIT FOR 1<sup>st</sup> SEMESTER</b>			<b>24</b>	<b>16-0-8</b>
<b>2<sup>nd</sup> SEMESTER</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
MIB154M201	Immunology	500	4	4-0-0
MIB154M202	Molecular Biology and recombinant DNA technology	500	4	4-0-0
MIB154M203	Applied Microbiology & Enzyme technology	500	4	4-0-0
MIB154M204	Microbial Genomics, Proteomics & Bioinformatics	500	4	4-0-0
MIB154M215	Practical on Immunology, Molecular Biology, & Enzyme technology	500	2	0-0-4
MIB154M216	Practical on Genomics, Proteomics & Bioinformatics	500	2	0-0-4
MOOCs 1	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SWAYAM portal	100	4	
<b>TOTAL CREDIT FOR 2<sup>nd</sup> SEMESTER</b>			<b>24</b>	<b>16-0-8</b>
<b>TOTAL CREDIT FOR 1<sup>st</sup> YEAR = 48</b>				
<b>3<sup>rd</sup> SEMESTER</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
MIB154M301	Parasitology, Medical and Veterinary Microbiology	500	4	4-0-0
MIB154M302	Food Microbiology	500	4	4-0-0
MIB154M303	IPR, Biosafety and Bioethics	500	4	4-0-0
MIB154M316	Microbial fermentation technology	500	4	4-0-0

MIB154M304	Practical on Medical Microbiology and Food Microbiology	500	2	0-0-4
MIB154M305	Practical on fermentation technology	500	2	0-0-4
<b>TOTAL CREDIT FOR 3<sup>rd</sup> SEMESTER</b>			<b>20</b>	16-0-8
<b>OR 3<sup>rd</sup> SEMESTER</b> <b>(For students with 3<sup>rd</sup> and 4<sup>th</sup> Semester Research)</b>				
MIB154R321	RESEARCH PROJECT – PHASE I	500	20	0-0-20
<b>4<sup>th</sup> SEMESTER</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
MIB154P221	Dissertation (students with research in 4 <sup>th</sup> Sem)	500	20	
<i>(for 'Coursework only' in lieu of Research)</i>				
MIB154M401	Soil and Environmental Microbiology	500	4	4-0-0
MIB154M402	Industrial Microbiology and Fermentation Technology	500	4	4-0-0
MIB154P221	Dissertation – 2 [One year PG (course work + research)]	500	12	
<b>OR 4<sup>th</sup> SEMESTER</b> <b>(For students with 3<sup>rd</sup> and 4<sup>th</sup> Semester Research)</b>				
MIB154R421	RESEARCH PROJECT – PHASE 2	500	<b>20</b>	
<b>TOTAL CREDIT FOR 2<sup>nd</sup> YEAR = 40</b>				