

# **PDM UNIVERSITY**

## **Faculty of Life Sciences** **Department of Microbiology** **M.Sc. Microbiology**

**TWO YEAR FULL TIME PROGRAMME**



**PDM UNIVERSITY BHADURGARH**  
**DELHI- NCR**



*Note: Syllabi applicable for students seeking admission in the M.Sc. Microbiology Course from the academic year 2018*

**Details of Course: M.Sc. Microbiology**

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**Course Structure Credits (Theory + Practical)**

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Core Courses (14 Papers)	14 x 04 = 56
Core Course Practicals	12 x 02 = 24
Dissertation (Experimental, Presentation and Viva-Voce)	01 x 16 = 16
PPT (Pre Placement Training)	0 x 0 = 00

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**Total Credits = 96**

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**M.Sc. Microbiology**  
**Department of Microbiology**  
**Faculty of Life Sciences, PDMU**

**PROGRAMME STRUCTURE**

Sem	Module Code	Module Type	Module Name	Marks			Credits
				Internal	External	Total	
1 <sup>st</sup> Sem	MICR5101	Core I	Diversity of Prokaryotic and Eukaryotic Microbes	50	100	150	4
	MICR5102	Core I (P)	Diversity of Prokaryotic and Eukaryotic Microbes Lab	25	50	75	2
	MICR5103	Core II	Microbial Physiology and Metabolism	50	100	150	4
	MICR5104	Core II (P)	Microbial Physiology and Metabolism Lab	25	50	75	2
	MICR5105	Core III	Immunology	50	100	150	4
	MICR5106	Core III (P)	Immunology Lab	25	50	75	2
	MICR5107	Core IV	Virology	50	100	150	4
	MICR5108	Core IV (P)	Virology Lab	25	50	75	2
				<b>Total</b>	<b>300</b>	<b>600</b>	<b>900</b>
2 <sup>nd</sup> Sem	MICR5109	Core V	Microbial Pathogenicity	50	100	150	4
	MICR5110	Core V (P)	Microbial Pathogenicity Lab	25	50	75	2
	MICR5111	Core VI	Environmental Microbiology	50	100	150	4
	MICR5112	Core VI (P)	Environmental Microbiology Lab	25	50	75	2
	MICR5113	Core VII	Plant - Pathogen Interaction	50	100	150	4
	MICR5114	Core VII (P)	Plant - Pathogen Interaction Lab	25	50	75	2
	MICR5115	Core VIII	Enzyme and Techniques in Biochemistry	50	100	150	4
	MICR5116	Core VIII (P)	Enzyme and Techniques in Biochemistry Lab	25	50	75	2
				<b>Total</b>	<b>300</b>	<b>600</b>	<b>900</b>
3 <sup>rd</sup> Sem	MICR6101	Core IX	Molecular Biology	50	100	150	4
	MICR6102	Core IX (P)	Molecular Biology Lab	25	50	75	2
	MICR6103	Core X	Recombinant DNA Technology	50	100	150	4
	MICR6104	Core X (P)	Recombinant DNA Technology Lab	25	50	75	2
	MICR6105	Core XI	Microbial Genetics	50	100	150	4
	MICR6106	Core XI (P)	Microbial Genetics Lab	25	50	75	2
	MICR6107	Core XII	Industrial and Food Microbiology	50	100	150	4
	MICR6108	Core XII (P)	Industrial and Food Microbiology Lab	25	50	75	2
				<b>Total</b>	<b>300</b>	<b>600</b>	<b>900</b>
4 <sup>th</sup> Sem	MICR6109	Core XIII	Introduction To Bioinformatics	50	100	150	4
	MICR6110	Core XIV	Medical Microbiology	50	100	150	4
	MICR6111	Core	*Dissertation (Experimental, Presentation and Viva-Voce)	400	400	800	16
			PPT (Pre Placement Training)				
				<b>Total</b>	<b>500</b>	<b>600</b>	<b>1100</b>
			<b>Grand Total after four semesters</b>	<b>1400</b>	<b>2400</b>	<b>3800</b>	<b>96</b>

\* Dissertation shall begin in Semester 3 (Part II)